

US EPA ARCHIVE DOCUMENT

Appendix A

DILUTION STUDY TRANSECTS BY SHIP

Table A-1. Dilution Study Transects by Ship

Transect #	Transect Type	Distance to Discharge Port (m)	Depth of Array in Water (m)	Angle
Star Princess				
1	Stationary (background, no dye)	10	1.5	180°
2	Stationary (background, no dye)	10	1.5	210°
3	Stationary (background, no dye)	10	1.5	240°
4	Stationary	10	1.5	180°
5	Stationary	10	1.5	210°
6	Stationary	10	1.5	240° then 255°
7	Stationary	10	2.5 then 3.5 then 2.5	270°
8	Stationary	7.5	1.5 then 2.5 then 3.5	270°
9	Stationary	7.5	1.5	255°
10	Stationary	5	1.5 then 2.5	270°
11	Stationary	2.5	1.5	270°
Coral Princess				
1	Arc (background, no dye)	10	1.5	180° to 270°
2	Stationary	0.5	1.5 then 2.0	180°
3	Depth Profile	0.5	1.5 to 5.5	180°
4	Depth Profile	0.2	1.5 to 5.5	180°
5	Stationary	10	1.5 then 2.5	225°
6	Arc	10	5	180° to 270°
	Arc	10	7	180° to 270°
7	Arc	5	1.5	180° to 270°
	Arc	5	2.5	180° to 270°
	Arc	5	3.5	180° to 270°
	Stationary	5	4	225°
	Stationary	5	4.5	180°
	Stationary	5	5.5	225°
	Arc	5	5.5	180° to 270°
	Arc	5	5.5	270° to 180°

Table A-1. Dilution Study Transects by Ship

Transect #	Transect Type	Distance to Discharge Port (m)	Depth of Array in Water (m)	Angle
Holland America Ryndam				
1	Arc (background, no dye)	10	1.5	90° to 180°
	Depth Profile	10	1.5 to 10.8	180°
	Arc	10	1.5	180° to 270°
2	Arc	10	1.5	270° to 90°
	Arc	10	2.5	90° to 270°
	Arc	10	3.5	270° to 90°
	Arc	10	4.5	90° to 270°
3	Arc	7.5	1.5	270° to 90°
	Arc	7.5	2.5	90° to 270°
	Arc	7.5	3.5	270° to 90°
	Arc	7.5	4.5	90° to 270°
4	Arc	5	1.5	270° to 90°
	Arc	5	2.5	90° to 270°
	Arc	5	3.5	270° to 90°
	Arc	5	4.5	90° to 270°
5	Arc	2.5	1.5	270° to 90°
	Arc	2.5	2.5	90° to 270°
	Arc	2.5	3.5	270° to 90°
	Arc	2.5	4.5	90° to 270°
6	Series of Depth Profiles	0.2	1.5 to 7	180°
7	Arc	15	1.5	90° to 270°
	Arc	15	2.5	270° to 90°
	Arc	15	3.5	90° to 180°
	Arc	15	4.5	180° to 90°

Table A-1. Dilution Study Transects by Ship

Transect #	Transect Type	Distance to Discharge Port (m)	Depth of Array in Water (m)	Angle
Celebrity Millennium				
1	Arc (background, no dye)	10	1.5	90° to 180°
	Depth Profile	10	1.5 to 10.8	180°
	Arc	10	1.5	180° to 270°
2	Arc	10	1.5	270° to 120°
	Arc	10	2.5	120° to 270°
	Arc	10	5	270° to 120°
	Arc	10	7	120° to 270°
3	Arc	7.5	1.5	270° to 90°
	Arc	7.5	2.5	90° to 270°
	Arc	7.5	5	270° to 90°
	Arc	7.5	7	90° to 270°
4	Arc	5	1.5	270° to 90°
	Arc	5	2.5	90° to 270°
	Arc	5	5	270° to 90°
	Arc	5	7	90° to 270°
	Arc	5	8	270° to 90°
5	Arc	2.5	1.5	90° to 270°
	Arc	2.5	2.5	270° to 90°
	Arc	2.5	5	90° to 270°
	Arc	2.5	7	270° to 90°
6	Depth Profile	0.5	2.4 to 7.6	180°
7	Arc	15	1.5	270° to 135°
	Arc	15	2.5	135° to 270°
	Arc	15	5	270° to 135°
	Arc	15	7	135° to 270°
	Inward Profile	15 to 1	5	270°
8	Inward Profile	15 to 1	4	240°

Table A-1. Dilution Study Transects by Ship

Transect #	Transect Type	Distance to Discharge Port (m)	Depth of Array in Water (m)	Angle
Norwegian Star				
1	Arc (background, no dye)	10	1.3	270° to 180°
	Depth Profile	10	1.3 to 10.8	180°
	Arc	10	1.3	180° to 90°
2	Arc	10	1.3	90° to 270°
	Arc	10	3.0	270° to 90°
	Arc	10	5.4	90° to 270°
	Arc	10	7.4	270° to 90°
3	Arc	7.5	1.4	90° to 270°
	Arc	7.5	3.0	270° to 90°
	Arc	7.5	5.5	90° to 270°
	Arc	7.5	7.5	270° to 90°
4	Arc	5	1.5	90° to 270°
	Arc	5	3.0	270° to 90°
	Arc	5	5.5	90° to 270°
	Arc	5	7.5	270° to 90°
5	Arc	2.5	1.4	270° to 90°
	Arc	2.5	3.0	90° to 270°
	Arc	2.5	5.5	270° to 90°
	Arc	2.5	7.5	90° to 270°
6	Series of Depth Profiles	0.2	1.5 to 4.5	180°
	Inward Profile	10 to 1	4.2	270°
7	Arc	15	1.5	270° to 90°
	Arc	15	3.0	90° to 270°
	Arc	15	5.5	270° to 90°
	Inward Profile	15 to 1	5.7	90°
8	Arc	10	4.0	90° to 180°
	Inward Profile	10 to 1	4.0	135°
	Inward Profile	10 to 1	3.0	135°
	Inward Profile	10 to 1	5.0	135°

Table A-1. Dilution Study Transects by Ship

Transect #	Transect Type	Distance to Discharge Port (m)	Depth of Array in Water (m)	Angle
Holland America Volendam				
1	Arc (background, no dye)	10	1.0	90° to 180°
	Depth Profile	10	1.0 to 11.4	180°
	Arc	10	1.0	180° to 270°
2	Arc	10	1.4	90° to 270°
	Arc	10	2.7	90° to 270°
	Arc	10	5.3	90° to 270°
	Arc	10	7.3	90° to 270°
3	Arc	7.5	1.4	90° to 270°
	Arc	7.5	2.8	90° to 270°
	Arc	7.5	5.3	90° to 270°
	Arc	7.5	7.4	90° to 270°
4	Arc	5	1.4	90° to 270°
	Arc	5	3.0	90° to 270°
	Arc	5	5.4	90° to 270°
	Arc	5	7.4	90° to 270°
5	Arc	2.5	3.0	90° to 270°
	Arc	2.5	5.5	90° to 270°
	Outward Profile	1 to 15	5.5	255°
	Inward Profile	15 to 1	5.0	270°
	Inward Profile	13 to 1	4.5	270°
	Inward Profile	11 to 1	6.0	270°
6	Arc	15	2.7	90° to 270°
	Arc	15	5.0	90° to 270°
	Inward Profile	15 to 1	5.0	225°

Appendix B

**DISCHARGE PLUME DYE CONCENTRATIONS, TEMPERATURE,
CONDUCTIVITY, DEPTH, TURBIDITY AND SALINITY**

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:23	10:26:20 switch on	10.0	180	7	9.77536	0.7080513	1.1817	0	0	5.63843
10:27:24	no dye - background			8	9.77149	0.7072477	1.1817	0	0	5.63217
10:27:24				9	9.74624	0.7147968	1.1817	0	0	5.70064
10:27:25				10	9.74043	0.7104602	1.1817	0	0	5.66447
10:27:25				11	9.73946	0.7048387	1.1817	0	0	5.61657
10:27:26				12	9.7113	0.7101399	1.1817	0	0	5.6663
10:27:26				13	9.70452	0.7101399	1.2801	0	0	5.66735
10:27:27				14	9.70549	0.7040346	1.2801	0	0	5.61497
10:27:27				15	9.70936	0.7040345	1.1817	0	0	5.61438
10:27:28				16	9.6987	0.7074078	1.1817	0	0	5.64489
10:27:28				17	9.6987	0.7086934	1.2801	0	0	5.65588
10:27:29				18	9.6987	0.7048388	1.2801	0	0	5.6229
10:27:29				19	9.70355	0.7027498	1.1817	0	0	5.60429
10:27:30				20	9.70452	0.7062847	1.1817	0	0	5.63437
10:27:30				21	9.69482	0.7096577	1.1817	0	0	5.66475
10:27:31				22	9.69482	0.7069261	1.2801	0	0	5.64137
10:27:31				23	9.69676	0.7016254	1.1817	0	0	5.59573
10:27:32				24	9.69385	0.7035536	1.1817	0	0	5.61267
10:27:32				25	9.68798	0.7062847	1.0833	0	0	5.63696
10:27:33				26	9.68894	0.7043559	1.1817	0	0	5.6203
10:27:33				27	9.69191	0.7027498	1.1817	0	0	5.6061
10:27:34				28	9.69579	0.7056416	1.1817	0	0	5.63023
10:27:34				29	9.69579	0.7058014	1.1817	0	0	5.6316
10:27:35				30	9.69773	0.7043559	1.1817	0	0	5.61893
10:27:35				31	9.69967	0.7030709	1.1817	0	0	5.60764
10:27:36				32	9.69482	0.7059631	1.1817	0	0	5.63313
10:27:36				33	9.69676	0.7053201	1.2801	0	0	5.62732
10:27:37				34	9.69579	0.7025884	1.1817	0	0	5.60412
10:27:37				35	9.69676	0.7019463	1.1817	0	0	5.59847
10:27:38				36	9.69088	0.7043559	1.1817	0	0	5.62
10:27:38				37	9.69288	0.7059631	1.2801	0	0	5.63343
10:27:39				38	9.69385	0.703071	1.2801	0	0	5.60854
10:27:39				39	9.69191	0.7021078	1.1817	0	0	5.60061
10:27:40				40	9.69088	0.7032325	1.1817	0	0	5.61039
10:27:40				41	9.68798	0.7049986	1.1817	0	0	5.62595
10:27:41				42	9.68894	0.7054799	1.3784	0	0	5.6299
10:27:41				43	9.69088	0.7024288	1.1817	0	0	5.60351
10:27:42				44	9.69288	0.701464	1.1817	0	0	5.59495
10:27:42				45	9.69288	0.7027498	1.1817	0	0	5.60595
10:27:43				46	9.68894	0.7045175	1.1817	0	0	5.62168
10:27:43				47	9.68701	0.7054799	1.2801	0	0	5.63021
10:27:44				48	9.69288	0.7016254	1.1817	0	0	5.59633
10:27:44				49	9.69385	0.7003402	1.1817	0	0	5.58519
10:27:45				50	9.69191	0.7019463	1.1817	0	0	5.59923
10:27:45				51	9.69288	0.7032325	1.1817	0	0	5.61008

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:46				52	9.69385	0.7005015	1.2801	0	0	5.58656
10:27:46				53	9.69579	0.7013045	1.1817	0	0	5.59314
10:27:47				54	9.69385	0.7022673	1.1817	0	0	5.60167
10:27:47				55	9.69482	0.7008223	1.1817	0	0	5.58916
10:27:48				56	9.69288	0.7016254	1.1817	0	0	5.59633
10:27:48				57	9.69191	0.7025884	1.1817	0	0	5.60472
10:27:49				58	9.69773	0.7025884	1.1817	0	0	5.60381
10:27:49				59	9.69579	0.7017868	1.1817	0	0	5.59726
10:27:50				60	9.69676	0.701464	1.1817	0	0	5.59435
10:27:50				61	9.69288	0.7024288	1.2801	0	0	5.60319
10:27:51				62	9.69288	0.7029113	1.2801	0	0	5.60732
10:27:51				63	9.70064	0.7011431	1.2801	0	0	5.591
10:27:52				64	9.6987	0.7003402	1.1817	0	0	5.58444
10:27:52				65	9.69579	0.7013045	1.1817	0	0	5.59314
10:27:53				66	9.69385	0.7029113	1.2801	0	0	5.60717
10:27:53				67	9.69773	0.7013045	1.2801	0	0	5.59283
10:27:54				68	9.69773	0.7003402	1.1817	0	0	5.58459
10:27:54				69	9.69579	0.7017868	1.1817	0	0	5.59726
10:27:55				70	9.69773	0.7017868	1.2801	0	0	5.59695
10:27:55				71	9.6987	0.7022673	1.2801	0	0	5.60091
10:27:56				72	9.69676	0.7016254	1.1817	0	0	5.59573
10:27:56				73	9.69676	0.7011431	1.1817	0	0	5.59161
10:27:57				74	9.69482	0.701464	1.1817	0	0	5.59465
10:27:57				75	9.69482	0.701464	1.1817	0	0	5.59465
10:27:58				76	9.69579	0.7022673	1.1817	0	0	5.60137
10:27:58				77	9.69385	0.7025884	1.2801	0	0	5.60441
10:27:59				78	9.70064	0.7017868	1.1817	0	0	5.59651
10:27:59				79	9.70064	0.7011431	1.1817	0	0	5.59101
10:28:00				80	9.69676	0.7021077	1.1817	0	0	5.59985
10:28:00				81	9.69676	0.7022673	1.2801	0	0	5.60121
10:28:01				82	9.70161	0.7013045	1.2801	0	0	5.59223
10:28:01				83	9.69967	0.7009836	1.1817	0	0	5.58979
10:28:02				84	9.69579	0.7019463	1.1817	0	0	5.59862
10:28:02				85	9.69482	0.7022673	1.2801	0	0	5.60151
10:28:03				86	9.70064	0.7016254	1.1817	0	0	5.59513
10:28:03				87	9.70258	0.7005015	1.1817	0	0	5.58522
10:28:04				88	9.69773	0.7021077	1.1817	0	0	5.5997
10:28:04				89	9.69773	0.701464	1.2801	0	0	5.59419
10:28:05				90	9.70161	0.7000195	1.1817	0	0	5.58125
10:28:05				91	9.6987	0.6998582	1.1817	0	0	5.58032
10:28:06				92	9.69579	0.7009836	1.1817	0	0	5.59039
10:28:06				93	9.69579	0.7009836	1.2801	0	0	5.59038
10:28:07				94	9.69967	0.7003402	1.1817	0	0	5.58429
10:28:07				95	9.69967	0.7003402	1.1817	0	0	5.58429
10:28:08				96	9.6987	0.6995376	1.1817	0.53724	0.14652	5.57758

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:08				97	9.68701	0.7000195	1.2801	0.34188	0.04884	5.5835
10:28:09				98	9.69579	0.6995376	1.2801	1.36752	0.9768	5.57802
10:28:09				99	9.6987	0.6993764	1.2801	1.41636	5.71429	5.57619
10:28:10				100	9.69967	0.6993764	1.1817	1.41636	6.05617	5.57605
10:28:10				101	9.6987	0.6990558	1.1817	1.41636	6.05617	5.57346
10:28:11				102	9.69482	0.6987334	1.1817	1.41636	6.00733	5.5713
10:28:11				103	9.69385	0.6992152	1.2801	1.41636	6.00733	5.57556
10:28:12				104	9.69482	0.6990558	1.2801	1.36752	5.90965	5.57405
10:28:12				105	9.69967	0.6985741	1.1817	1.41636	5.90965	5.56919
10:28:13				106	9.6987	0.6992152	1.1817	1.41636	6.05617	5.57482
10:28:13				107	9.69676	0.6990558	1.1817	1.41636	5.95849	5.57376
10:28:14				108	9.69773	0.6988946	1.2801	1.41636	5.95849	5.57222
10:28:14				109	9.6987	0.6988946	1.1817	1.41636	6.00733	5.57208
10:28:15				110	9.69967	0.6987334	1.1817	1.41636	6.05617	5.57056
10:28:15				111	9.69676	0.7003402	1.1817	1.41636	6.00733	5.58474
10:28:16				112	9.69579	0.6988946	1.1817	1.41636	5.95849	5.57253
10:28:16				113	9.69967	0.6987334	1.1817	1.41636	6.10501	5.57056
10:28:17				114	9.69773	0.6982518	1.1817	1.41636	6.05617	5.56674
10:28:17				115	9.69579	0.6980907	1.1817	1.41636	5.95849	5.56566
10:28:18				116	9.69579	0.6984129	1.1817	1.41636	6.05617	5.56842
10:28:18				117	9.69773	0.6982518	1.2801	1.41636	6.05617	5.56673
10:28:19				118	9.6987	0.6980907	1.1817	1.41636	5.95849	5.56521
10:28:19				119	9.69773	0.6980907	1.1817	1.41636	5.90965	5.56536
10:28:20				120	9.69676	0.6980907	1.1817	1.41636	5.90965	5.56551
10:28:20				121	9.69773	0.6982518	1.1817	1.41636	5.95849	5.56674
10:28:21				122	9.6987	0.6980907	1.2801	1.36752	5.90965	5.5652
10:28:21				123	9.69967	0.6980907	1.1817	1.41636	5.95849	5.56506
10:28:22				124	9.6987	0.700661	1.1817	1.41636	6.05617	5.58718
10:28:23				127	9.70324	0.6974957	1.1817	1.41636	5.95849	5.55943
10:28:24				128	9.69543	0.6976568	1.1817	1.41636	5.86081	5.56201
10:28:24				129	9.69543	0.6976568	1.1817	1.41636	5.90965	5.56201
10:28:25				130	9.69543	0.6978161	1.1817	1.41636	5.90965	5.56337
10:28:25				131	9.69446	0.6986199	1.1817	1.41636	5.90965	5.57039
10:28:26				132	9.69737	0.6989404	1.1817	1.41636	5.90965	5.57268
10:28:26				133	9.69834	0.6986199	1.1817	1.41636	5.86081	5.56979
10:28:27				134	9.69737	0.6984587	1.2801	1.41636	5.81197	5.56856
10:28:27				135	9.69937	0.6984587	1.2801	1.36752	5.95849	5.56825
10:28:28				136	9.69834	0.6982994	1.1817	1.36752	6.05617	5.56705
10:28:28				137	9.69937	0.6984587	1.1817	1.36752	5.95849	5.56826
10:28:29				138	9.69834	0.6981383	1.1817	1.41636	5.86081	5.56568
10:28:29				139	9.69937	0.6982994	1.2801	1.41636	5.90965	5.56689
10:28:30				140	9.70034	0.6982994	1.1817	1.4652	5.81197	5.56674
10:28:30				141	9.70034	0.6982994	1.1817	1.41636	5.86081	5.56674
10:28:31				142	9.69937	0.6982994	1.1817	1.41636	6.05617	5.56689
10:28:31				143	9.70324	0.6981383	1.2801	1.41636	5.95849	5.56491

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:32				144	9.69937	0.6982994	1.1817	1.41636	5.95849	5.56689
10:28:32				145	9.70034	0.6984587	1.2801	1.36752	5.86081	5.5681
10:28:33				146	9.70324	0.6997428	1.1817	1.41636	5.90965	5.57863
10:28:33				147	9.70324	0.6994222	1.2801	1.41636	5.86081	5.57588
10:28:34				148	9.70131	0.6994222	1.2801	1.41636	5.95849	5.57618
10:28:34				149	9.70131	0.6991016	1.1817	1.41636	5.95849	5.57345
10:28:35				150	9.70131	0.7000635	1.1817	1.41636	6.05617	5.58167
10:28:35				151	9.69937	0.700386	1.1817	1.4652	6.00733	5.58473
10:28:36				152	9.70131	0.700386	1.1817	1.41636	5.86081	5.58443
10:28:36				153	9.70227	0.6997428	1.2801	1.41636	5.95849	5.57877
10:28:37				154	9.70324	0.699904	1.2801	1.41636	5.86081	5.58
10:28:37				155	9.70421	0.6991016	1.1817	1.41636	6.20269	5.573
10:28:38				156	9.70324	0.6976568	1.1817	1.41636	6.00733	5.5608
10:28:38				157	9.70034	0.6987792	1.2801	1.41636	5.95849	5.57084
10:28:39				158	9.70034	0.6987792	1.2801	1.41636	5.95849	5.57084
10:28:39				159	9.70227	0.6981383	1.1817	1.4652	6.10501	5.56507
10:28:40				160	9.70324	0.7000635	1.1817	1.41636	6.10501	5.58137
10:28:40				161	9.70034	0.6992609	1.1817	1.4652	5.95849	5.57496
10:28:41				162	9.70034	0.6987792	1.2801	1.41636	5.86081	5.57084
10:28:41				163	9.70324	0.6982994	1.2801	1.41636	5.86081	5.56629
10:28:42				164	9.70421	0.6974957	1.1817	1.41636	5.95849	5.55928
10:28:42				165	9.70131	0.6984587	1.1817	1.41636	6.00733	5.56796
10:28:43				166	9.69737	0.6978161	1.2801	1.41636	5.90965	5.56306
10:28:43				167	9.69737	0.6978161	1.2801	1.41636	5.90965	5.56306
10:28:44				168	9.69937	0.6974957	1.1817	1.41636	5.86081	5.56002
10:28:44				169	9.70131	0.6973346	1.1817	1.41636	5.81197	5.55835
10:28:45				170	9.69446	0.6976568	1.1817	1.41636	5.86081	5.56216
10:28:45				171	9.69543	0.6973346	1.2801	1.41636	5.90965	5.55925
10:28:46				172	9.69543	0.6973346	1.2801	1.4652	6.05617	5.55925
10:28:46				173	9.69834	0.6971754	1.1817	1.41636	6.00733	5.55745
10:28:47				174	9.69543	0.6970144	1.1817	1.41636	5.90965	5.55652
10:28:47				175	9.68961	0.6971754	1.2801	1.41636	5.95849	5.55878
10:28:48				176	9.69252	0.6971754	1.2801	1.41636	6.05617	5.55833
10:28:48				177	9.69349	0.6973346	1.1817	1.36752	6.00733	5.55955
10:28:49				178	9.69252	0.6979772	1.1817	1.36752	5.95849	5.56519
10:28:49				179	9.69252	0.6973346	1.2801	1.41636	6.05617	5.55969
10:28:50				180	9.69446	0.6971754	1.2801	1.41636	5.95849	5.55803
10:28:50				181	9.6964	0.6966941	1.1817	1.41636	6.00733	5.55363
10:28:51				182	9.69349	0.6968533	1.2801	1.41636	5.95849	5.55543
10:28:51				183	9.69252	0.6968533	1.2801	1.36752	5.86081	5.55558
10:28:52				184	9.69446	0.6982994	1.2801	1.41636	6.00733	5.56764
10:28:52				185	9.69252	0.699261	1.1817	1.41636	5.95849	5.57617
10:28:53				186	9.6964	0.6981383	1.2801	1.41636	5.90965	5.56597
10:28:53				187	9.69446	0.6981383	1.2801	1.41636	5.90965	5.56626
10:28:54				188	9.69543	0.6984587	1.1817	1.41636	5.90965	5.56886

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:54				189	9.6964	0.6986199	1.1817	1.41636	6.05617	5.57009
10:28:55				190	9.69543	0.6982994	1.2801	1.41636	6.05617	5.56749
10:28:55				191	9.69737	0.7007068	1.1817	1.4652	6.10501	5.58778
10:28:56				192	9.69937	0.700386	1.2801	1.36752	6.10501	5.58472
10:28:56				193	9.70227	0.7005455	1.2801	1.36752	5.95849	5.58564
10:28:57				194	9.70034	0.7010276	1.1817	1.41636	5.95849	5.59007
10:28:57				195	9.70324	0.7011889	1.1817	1.41636	6.00733	5.59099
10:28:58				196	9.70227	0.701189	1.1817	1.41636	6.15385	5.59114
10:28:58				197	9.70324	0.7013485	1.2801	1.41636	6.00733	5.59235
10:28:59				198	9.70324	0.7016694	1.2801	1.41636	5.95849	5.59509
10:28:59				199	9.70421	0.7019903	1.1817	1.4652	6.05617	5.5977
10:29:00				200	9.70421	0.7015098	1.1817	1.41636	6.20269	5.59359
10:29:00				201	9.70615	0.7016694	1.2801	1.41636	5.95849	5.59464
10:29:01				202	9.70518	0.7015098	1.2801	1.41636	5.90965	5.59343
10:29:01				203	9.70615	0.7013485	1.2801	1.41636	5.95849	5.5919
10:29:02				204	9.70518	0.7010276	1.1817	1.41636	5.90965	5.58932
10:29:02				205	9.70421	0.7011889	1.1817	1.41636	6.15385	5.59084
10:29:03				206	9.70615	0.7011889	1.2801	1.41636	6.25153	5.59054
10:29:03				207	9.70615	0.7011889	1.2801	1.41636	6.00733	5.59054
10:29:04				208	9.70712	0.7013485	1.1817	1.4652	6.10501	5.59176
10:29:04				209	9.70518	0.7018308	1.1817	1.41636	6.10501	5.59618
10:29:05				210	9.70615	0.7015098	1.1817	1.41636	6.10501	5.59329
10:29:05				211	9.70615	0.7013485	1.2801	1.41636	5.90965	5.5919
10:29:06				212	9.70712	0.7013485	1.1817	1.41636	6.00733	5.59176
10:29:06				213	9.70809	0.7013485	1.1817	1.41636	5.95849	5.59161
10:29:07				214	9.70809	0.7015098	1.1817	1.41636	5.95849	5.59299
10:29:07				215	9.70518	0.7019903	1.2801	1.41636	6.00733	5.59754
10:29:08				216	9.70712	0.7016694	1.2801	1.41636	5.95849	5.59449
10:29:08				217	9.70712	0.7016694	1.2801	1.41636	6.00733	5.59449
10:29:09				218	9.70712	0.7018308	1.1817	1.41636	5.90965	5.59588
10:29:09				219	9.70906	0.7021517	1.1817	1.41636	5.86081	5.59833
10:29:10				220	9.70712	0.7027938	1.1817	1.41636	5.95849	5.60412
10:29:10				221	9.70615	0.7026324	1.2801	1.36752	5.90965	5.60288
10:29:11				222	9.70809	0.7021517	1.2801	1.41636	5.86081	5.59847
10:29:11				223	9.70906	0.7021517	1.1817	1.41636	5.95849	5.59833
10:29:12				224	9.70809	0.7027938	1.1817	1.41636	5.95849	5.60396
10:29:12				225	9.70809	0.703115	1.1817	1.41636	5.90965	5.60671
10:29:13				226	9.711	0.7026324	1.2801	1.41636	5.86081	5.60213
10:29:13				227	9.70906	0.7026324	1.2801	1.4652	5.86081	5.60243
10:29:14				228	9.70906	0.7024728	1.2801	1.36752	5.86081	5.60106
10:29:14				229	9.70906	0.7024728	1.1817	1.41636	5.95849	5.60107
10:29:15				230	9.70906	0.7027938	1.1817	1.41636	6.00733	5.60381
10:29:15				231	9.71003	0.7023113	1.2801	1.41636	5.95849	5.59953
10:29:16				232	9.70809	0.7023113	1.2801	1.41636	6.00733	5.59983
10:29:16				233	9.71003	0.7023113	1.2801	1.41636	6.05617	5.59953

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:17				234	9.70906	0.7024728	1.2801	1.41636	5.81197	5.60106
10:29:17				235	9.70906	0.7023113	1.1817	1.36752	5.81197	5.59969
10:29:18				236	9.70809	0.7019903	1.2801	1.41636	5.95849	5.59709
10:29:18				237	9.71003	0.7018308	1.1817	1.41636	5.90965	5.59543
10:29:19				238	9.70809	0.7018308	1.1817	1.4652	5.86081	5.59573
10:29:19				239	9.70712	0.7019903	1.2801	1.41636	5.95849	5.59724
10:29:20				240	9.70906	0.7018308	1.1817	1.41636	5.86081	5.59558
10:29:20				241	9.70712	0.7024728	1.1817	1.41636	6.15385	5.60137
10:29:21				242	9.70615	0.7018308	1.2801	1.41636	5.95849	5.59602
10:29:21				243	9.70712	0.7016694	1.2801	1.41636	6.00733	5.59449
10:29:22				244	9.70712	0.7018308	1.1817	1.41636	6.00733	5.59588
10:29:23				247	9.7096	0.701928	1.2801	1.41636	5.86081	5.59632
10:29:24				248	9.7067	0.7017684	1.1817	1.41636	5.95849	5.59541
10:29:24				249	9.7067	0.7017684	1.1817	1.41636	5.95849	5.59541
10:29:25				250	9.70476	0.7024104	1.1817	1.41636	6.00733	5.6012
10:29:25				251	9.70476	0.7024104	1.2801	1.41636	6.00733	5.60119
10:29:26				252	9.70573	0.7017684	1.2801	1.41636	5.95849	5.59556
10:29:26				253	9.7067	0.701928	1.1817	1.41636	6.05617	5.59678
10:29:27				254	9.70767	0.7020894	1.1817	1.41636	5.95849	5.59801
10:29:27				255	9.70767	0.701928	1.2801	1.41636	5.90965	5.59662
10:29:28				256	9.70282	0.7020894	1.1817	1.41636	6.00733	5.59876
10:29:28				257	9.69313	0.7017684	1.2801	1.41636	5.95849	5.59751
10:29:29				258	9.6941	0.7017684	1.2801	1.41636	5.86081	5.59736
10:29:29				259	9.69216	0.700804	1.1817	1.36752	6.20269	5.58942
10:29:30				260	9.68828	0.7001625	1.1817	1.41636	6.93529	5.58453
10:29:30				261	9.68343	0.7004832	1.1817	1.41636	5.95849	5.58803
10:29:31				262	9.68246	0.7004832	1.1817	1.41636	5.81197	5.58818
10:29:31				263	9.6844	0.7004832	1.1817	1.41636	5.95849	5.58788
10:29:32				264	9.68143	0.7004832	1.1817	1.36752	5.86081	5.58834
10:29:32				265	9.68143	0.6996805	1.0833	1.41636	5.95849	5.58148
10:29:33				266	9.6844	0.6998418	1.0833	1.41636	5.86081	5.5824
10:29:33				267	9.68343	0.7000012	1.1817	1.41636	5.86081	5.5839
10:29:34				268	9.68343	0.7001625	1.1817	1.41636	5.95849	5.58528
10:29:34				269	9.68343	0.7004832	1.1817	1.41636	5.90965	5.58803
10:29:35				270	9.6844	0.7006445	1.0833	1.36752	5.86081	5.58926
10:29:35				271	9.68537	0.700804	1.1817	1.41636	5.95849	5.59047
10:29:36				272	9.68828	0.7004832	1.1817	1.4652	5.86081	5.58728
10:29:36				273	9.68828	0.7001625	1.1817	1.41636	5.81197	5.58453
10:29:37				274	9.69216	0.7011248	1.1817	1.41636	5.95849	5.59216
10:29:37				275	9.697	0.7011248	1.1817	1.41636	5.90965	5.59141
10:29:38				276	9.69797	0.7001624	1.1817	1.41636	5.81197	5.58303
10:29:38				277	9.69506	0.7003237	1.2801	1.4652	5.90965	5.58485
10:29:39				278	9.69603	0.7001624	1.1817	1.41636	5.86081	5.58333
10:29:39				279	9.6941	0.6995211	1.1817	1.41636	5.90965	5.57815
10:29:40				280	9.68925	0.6993599	1.1817	1.41636	5.95849	5.57752

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:40				281	9.68537	0.6996805	1.2801	1.41636	5.86081	5.58085
10:29:41				282	9.68634	0.6996805	1.1817	1.4652	5.95849	5.58071
10:29:41				283	9.68828	0.6995211	1.2801	1.41636	6.10501	5.57904
10:29:42				284	9.68537	0.6995211	1.1817	1.36752	6.10501	5.5795
10:29:42				285	9.68634	0.6995211	1.1817	1.41636	5.86081	5.57935
10:29:43				286	9.68731	0.6995211	1.1817	1.41636	5.95849	5.5792
10:29:43				287	9.68537	0.6996805	1.2801	1.41636	5.95849	5.58085
10:29:44				288	9.68731	0.6995211	1.2801	1.41636	5.90965	5.57919
10:29:44				289	9.68731	0.6995211	1.1817	1.36752	5.95849	5.5792
10:29:45				290	9.68731	0.6996805	1.1817	1.41636	5.95849	5.58056
10:29:45				291	9.6844	0.6995211	1.2801	1.41636	5.95849	5.57964
10:29:46				292	9.68828	0.6995211	1.1817	1.41636	6.10501	5.57905
10:29:46				293	9.68634	0.6998418	1.1817	1.41636	5.90965	5.58209
10:29:47				294	9.68537	0.7000012	1.1817	1.36752	5.90965	5.5836
10:29:47				295	9.68731	0.6996805	1.1817	1.41636	6.00733	5.58056
10:29:48				296	9.68828	0.6996805	1.2801	1.41636	6.00733	5.5804
10:29:48				297	9.69022	0.6995211	1.1817	1.41636	5.86081	5.57875
10:29:49				298	9.68828	0.6995211	1.1817	1.36752	6.00733	5.57905
10:29:49				299	9.68828	0.6995211	1.1817	1.41636	6.15385	5.57905
10:29:50				300	9.68731	0.6996805	1.2801	1.41636	6.00733	5.58055
10:29:50				301	9.68828	0.6996805	1.1817	1.41636	6.00733	5.58041
10:29:51				302	9.68731	0.6996805	1.2801	1.41636	6.10501	5.58055
10:29:51				303	9.68828	0.6996805	1.2801	1.41636	6.05617	5.5804
10:29:52				304	9.68731	0.6996805	1.1817	1.41636	5.90965	5.58056
10:29:52				305	9.68925	0.6996805	1.1817	1.41636	6.00733	5.58026
10:29:53				306	9.68731	0.6998418	1.1817	1.4652	6.05617	5.58194
10:29:53				307	9.69022	0.6996805	1.2801	1.36752	5.95849	5.5801
10:29:54				308	9.69022	0.6993599	1.2801	1.41636	6.00733	5.57736
10:29:54				309	9.68925	0.6988781	1.1817	1.41636	6.00733	5.5734
10:29:55				310	9.68537	0.6993599	1.1817	1.41636	6.15385	5.57812
10:29:55				311	9.68634	0.6991987	1.2801	1.41636	5.86081	5.57658
10:29:56				312	9.68731	0.6990393	1.2801	1.41636	5.86081	5.57507
10:29:56				313	9.68537	0.6991987	1.1817	1.41636	6.20269	5.57674
10:29:57				314	9.68731	0.6990393	1.2801	1.41636	5.90965	5.57507
10:29:57				315	9.68537	0.6991987	1.1817	1.41636	5.95849	5.57674
10:29:58				316	9.68828	0.6991987	1.2801	1.41636	5.95849	5.57628
10:29:58				317	9.68828	0.6991987	1.2801	1.41636	5.90965	5.57628
10:29:59				318	9.68731	0.6991987	1.1817	1.41636	5.90965	5.57644
10:29:59				319	9.68828	0.6993599	1.1817	1.41636	5.90965	5.57767
10:30:00				320	9.68828	0.6993599	1.1817	1.41636	5.95849	5.57767
10:30:00				321	9.68537	0.6991987	1.2801	1.41636	5.86081	5.57673
10:30:01				322	9.68731	0.6991987	1.2801	1.41636	5.86081	5.57643
10:30:01				323	9.68925	0.6990393	1.1817	1.41636	5.86081	5.57478
10:30:02				324	9.68828	0.6985576	1.1817	1.41636	5.81197	5.57081
10:30:02				325	9.68828	0.6988781	1.2801	1.36752	5.81197	5.57354

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:30:03				326	9.68634	0.6990393	1.2801	1.41636	5.81197	5.57522
10:30:03				327	9.68537	0.6995211	1.1817	1.4652	6.05617	5.5795
10:30:04				328	9.68537	0.6991987	1.1817	1.36752	5.86081	5.57674
10:30:04				329	9.6844	0.6993599	1.1817	1.41636	5.86081	5.57827
10:30:05				330	9.68143	0.6993599	1.2801	1.41636	5.71429	5.57872
10:30:05				331	9.68537	0.6993599	1.1817	1.41636	5.90965	5.57812
10:30:06				332	9.68537	0.6991987	1.1817	1.41636	5.81197	5.57674
10:30:06				333	9.68731	0.6990393	1.1817	1.41636	5.81197	5.57508
10:30:07				334	9.6844	0.6991987	1.2801	1.4652	5.90965	5.57688
10:30:07				335	9.68537	0.6991987	1.2801	1.41636	5.81197	5.57673
10:30:08				336	9.68343	0.6991987	1.1817	1.36752	5.86081	5.57704
10:30:08				337	9.68634	0.6993599	1.1817	1.41636	5.90965	5.57797
10:30:09				338	9.68537	0.6991987	1.2801	1.41636	5.90965	5.57673
10:30:09				339	9.6844	0.6991987	1.2801	1.41636	5.86081	5.57688
10:30:10				340	9.68634	0.6990393	1.1817	1.41636	5.90965	5.57523
10:30:10				341	9.68634	0.6991987	1.1817	1.41636	5.90965	5.57659
10:30:11				342	9.68537	0.6993599	1.1817	1.41636	5.86081	5.57812
10:30:11				343	9.68537	0.6991987	1.2801	1.41636	5.81197	5.57673
10:30:12				344	9.68537	0.6991987	1.2801	1.41636	5.86081	5.57673
10:30:12				345	9.68828	0.6990393	1.1817	1.41636	5.95849	5.57493
10:30:13				346	9.68828	0.6991987	1.1817	1.41636	5.90965	5.57629
10:30:13				347	9.68537	0.6991987	1.2801	1.41636	5.90965	5.57673
10:30:14				348	9.68731	0.6991987	1.2801	1.41636	5.86081	5.57643
10:30:14				349	9.68731	0.6991987	1.2801	1.41636	5.90965	5.57643
10:30:15				350	9.68828	0.6991987	1.1817	1.41636	5.86081	5.57629
10:30:15				351	9.68731	0.6993599	1.1817	1.41636	5.81197	5.57782
10:30:16				352	9.68828	0.6991987	1.1817	1.41636	5.81197	5.57629
10:30:16				353	9.68634	0.6993599	1.2801	1.41636	5.86081	5.57796
10:30:17				354	9.68828	0.6993599	1.1817	1.41636	5.81197	5.57767
10:30:17				355	9.68925	0.6993599	1.2801	1.36752	5.76313	5.57751
10:30:18				356	9.68925	0.6991987	1.2801	1.41636	5.86081	5.57613
10:30:18				357	9.69022	0.6991987	1.2801	1.4652	5.76313	5.57598
10:30:19				358	9.68925	0.6995211	1.1817	1.41636	5.86081	5.5789
10:30:19				359	9.69119	0.6990393	1.1817	1.41636	5.86081	5.57448
10:30:20				360	9.68537	0.6991987	1.2801	1.41636	5.90965	5.57673
10:30:20				361	9.68828	0.6990393	1.2801	1.41636	5.76313	5.57492
10:30:21				362	9.68828	0.6988781	1.1817	1.4652	5.86081	5.57355
10:30:21				363	9.68634	0.6985576	1.1817	1.36752	5.81197	5.57111
10:30:22				364	9.68343	0.698717	1.2801	1.41636	5.86081	5.57291
10:30:23				367	9.69125	0.699032	1.1817	1.41636	5.81197	5.57441
10:30:24				368	9.68737	0.6988708	1.1817	1.41636	5.86081	5.57363
10:30:24				369	9.68931	0.6987115	1.2801	1.41636	5.71429	5.57196
10:30:25				370	9.68834	0.6983892	1.2801	1.36752	5.66545	5.56935
10:30:25				371	9.68931	0.6985503	1.0833	1.4652	5.71429	5.5706
10:30:26				372	9.69028	0.6985503	1.1817	1.4652	5.86081	5.57044

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:30:26				373	9.68931	0.6985503	1.1817	1.41636	5.76313	5.57059
10:30:27				374	9.68931	0.6985503	1.2801	1.36752	5.90965	5.57058
10:30:27				375	9.68834	0.6983892	1.2801	1.41636	5.81197	5.56935
10:30:28				376	9.69028	0.6983892	1.2801	1.41636	5.71429	5.56905
10:30:28				377	9.68931	0.6983892	1.2801	1.36752	5.71429	5.5692
10:30:29				378	9.69222	0.6983892	1.1817	1.41636	5.76313	5.56876
10:30:29				379	9.69222	0.6983892	1.1817	1.41636	5.86081	5.56876
10:30:30				380	9.69125	0.6983892	1.1817	1.41636	5.90965	5.56891
10:30:30				381	9.69319	0.6982298	1.2801	1.36752	5.90965	5.56724
10:30:31				382	9.69125	0.6982299	1.2801	1.41636	5.95849	5.56754
10:30:31				383	9.69319	0.6983891	1.1817	1.41636	6.00733	5.56861
10:30:32				384	9.69513	0.6983891	1.1817	1.4652	5.81197	5.56831
10:30:32				385	9.69125	0.6983892	1.2801	1.41636	5.81197	5.5689
10:30:33				386	9.69416	0.6982298	1.1817	1.41636	5.86081	5.5671
10:30:33				387	9.69319	0.6983891	1.0833	1.41636	6.05617	5.56862
10:30:34				388	9.69319	0.6982298	1.0833	1.36752	5.95849	5.56726
10:30:34				389	9.69513	0.6982298	1.0833	1.41636	5.71429	5.56696
10:30:35				390	9.69416	0.6979076	0.8865	1.41636	5.86081	5.56437
10:30:35				391	9.69706	0.6977483	0.7881	1.4652	6.05617	5.56257
10:30:36				392	9.69513	0.6979076	0.7881	1.41636	5.95849	5.56423
10:30:36				393	9.69609	0.6980687	0.7881	1.41636	5.71429	5.56546
10:30:37				394	9.69416	0.6979076	0.6898	1.41636	5.81197	5.56439
10:30:37				395	9.69609	0.6980687	0.6898	1.41636	5.81197	5.56547
10:30:38				396	9.69609	0.6979076	0.6898	1.41636	7.22833	5.56409
10:30:38				397	9.69513	0.6979076	0.6898	1.4652	9.13309	5.56424
10:30:39				398	9.69416	0.6980687	0.6898	1.41636	9.13309	5.56577
10:30:39				399	9.69416	0.6967837	0.5914	1.41636	9.71917	5.55479
10:30:40				400	9.68155	0.6980687	0.5914	1.41636	9.67033	5.56772
10:30:40				401	9.67282	0.6980687	0.5914	1.41636	2.9304	5.56906
10:30:41				402	9.65434	0.6980688	0.5914	1.41636	2.34432	5.57192
10:30:41				403	9.6359	0.6980688	0.6898	1.41636	2.49084	5.57475
10:30:42	10:29:50 switch off	10.0	180	404	9.62232	0.6980688	0.6898	1.36752	2.53968	5.57685
10:32:27	10:31:35 switch on	10.0	210	7	9.67743	0.6955655	1.2801	0	0	5.54689
10:32:28	no dye - background			8	9.67355	0.6955655	1.2801	0	0	5.54749
10:32:28				9	9.67743	0.6955655	1.2801	0	0	5.54689
10:32:29				10	9.67743	0.6952436	1.2801	0	0	5.54414
10:32:29				11	9.67549	0.6954046	1.2801	0	0	5.54581
10:32:30				12	9.67452	0.6957246	1.2801	0	0	5.5487
10:32:30				13	9.6784	0.6958856	1.2801	0	0	5.54948
10:32:31				14	9.67355	0.6957246	1.2801	0	0	5.54885
10:32:31				15	9.67355	0.6958856	1.3784	0	0	5.55021
10:32:32				16	9.67646	0.6965277	1.2801	0	0	5.55527
10:32:32				17	9.67452	0.6968497	1.2801	0	0	5.55832
10:32:33				18	9.67452	0.6965277	1.2801	0	0	5.55556

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:33				19	9.67355	0.6965277	1.3784	0	0	5.5557
10:32:34				20	9.67258	0.69717	1.3784	0	0	5.56135
10:32:34				21	9.67452	0.6966887	1.2801	0	0	5.55694
10:32:35				22	9.67355	0.6970089	1.2801	0	0	5.55983
10:32:35				23	9.67258	0.6970089	1.3784	0	0	5.55997
10:32:36				24	9.67743	0.6968497	1.3784	0	0	5.55786
10:32:36				25	9.68325	0.6970089	1.3784	0	0	5.55833
10:32:37				26	9.68616	0.6970089	1.2801	0	0	5.55789
10:32:37				27	9.68131	0.6970089	1.2801	0	0	5.55863
10:32:38				28	9.67452	0.6970089	1.3784	0	0	5.55967
10:32:38				29	9.67646	0.6966887	1.3784	0	0	5.55663
10:32:39				30	9.67549	0.6949218	1.2801	0	0	5.54168
10:32:39				31	9.67161	0.6950827	1.1817	0	0	5.54366
10:32:40				32	9.6687	0.6960465	1.2801	0	0	5.55234
10:32:40				33	9.66773	0.6952437	1.2801	0	0	5.54563
10:32:41				34	9.66967	0.6950827	1.1817	0	0	5.54396
10:32:41				35	9.66773	0.6947628	1.1817	0	0	5.54152
10:32:42				36	9.66482	0.6955655	1.2801	0	0	5.54883
10:32:42				37	9.66482	0.6957246	1.2801	0	0	5.55019
10:32:43				38	9.66579	0.6949219	1.2801	0	0	5.54317
10:32:43				39	9.66773	0.6946019	1.1817	0	0	5.54015
10:32:44				40	9.66579	0.6952437	1.1817	0	0	5.54593
10:32:44				41	9.66676	0.6955655	1.1817	0	0	5.54854
10:32:45				42	9.66773	0.6955655	1.2801	0	0	5.54838
10:32:45				43	9.66579	0.6949219	1.2801	0	0	5.54317
10:32:46				44	9.66676	0.6939604	1.1817	0	0	5.53481
10:32:46				45	9.66579	0.6946019	1.1817	0	0	5.54045
10:32:47				46	9.66676	0.6958856	1.2801	0	0	5.55127
10:32:47				47	9.66773	0.6941194	1.2801	0	0	5.53601
10:32:48				48	9.66967	0.6929957	1.1817	0	0	5.52612
10:32:48				49	9.66967	0.6925153	1.1817	0	0	5.52201
10:32:49				50	9.67161	0.6937996	1.1817	0	0	5.53269
10:32:49				51	9.67161	0.6931564	1.2801	0	0	5.52719
10:32:50				52	9.67161	0.6923546	1.2801	0	0	5.52033
10:32:50				53	9.67258	0.6920332	1.1817	0	0	5.51745
10:32:51				54	9.67258	0.6929957	1.1817	0	0	5.52567
10:32:51				55	9.67064	0.6933172	1.2801	0	0	5.52871
10:32:52				56	9.67355	0.6928368	1.2801	0	0	5.52416
10:32:52				57	9.67161	0.6923546	1.1817	0	0	5.52034
10:32:53				58	9.67161	0.6915513	1.1817	0	0	5.51348
10:32:53				59	9.67161	0.6923546	1.2801	0	0	5.52033
10:32:54				60	9.6687	0.6928368	1.2801	0	0	5.5249
10:32:54				61	9.67161	0.6921939	1.2801	0	0	5.51896
10:32:55				62	9.67064	0.6915513	1.1817	0	0	5.51362
10:32:55				63	9.66967	0.6918726	1.1817	0	0	5.51652

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:56				64	9.66967	0.6929957	1.2801	0	0	5.52611
10:32:56				65	9.6687	0.6921939	1.2801	0	0	5.51941
10:32:57				66	9.66773	0.6917119	1.1817	0	0	5.51544
10:32:57				67	9.66676	0.6918726	1.1817	0	0	5.51696
10:32:58				68	9.66773	0.6923546	1.1817	0	0	5.52094
10:32:58				69	9.66579	0.6929957	1.2801	0	0	5.5267
10:32:59				70	9.66676	0.6928368	1.2801	0	0	5.5252
10:32:59				71	9.66967	0.692676	1.1817	0	0	5.52339
10:33:00				72	9.66676	0.6928368	1.1817	0	0	5.52521
10:33:00				73	9.66579	0.6928368	1.2801	0	0	5.52535
10:33:01				74	9.66579	0.6931565	1.2801	0	0	5.52808
10:33:01				75	9.66967	0.6925153	1.2801	0	0	5.522
10:33:02				76	9.6687	0.6928368	1.1817	0	0	5.52491
10:33:02				77	9.66773	0.6928368	1.2801	0	0	5.52505
10:33:03				78	9.66676	0.6931565	1.2801	0	0	5.52793
10:33:03				79	9.66676	0.6931565	1.2801	0	0	5.52793
10:33:04				80	9.66676	0.6939604	1.1817	0	0	5.53481
10:33:04				81	9.66676	0.6933172	1.2801	0	0	5.5293
10:33:05				82	9.66579	0.6933172	1.2801	0	0	5.52945
10:33:05				83	9.66676	0.6931565	1.2801	0	0	5.52793
10:33:06				84	9.66579	0.6952437	1.1817	0	0	5.54593
10:33:06				85	9.66676	0.6933172	1.2801	0	0	5.5293
10:33:07				86	9.66676	0.693478	1.2801	0	0	5.53068
10:33:07				87	9.66676	0.6946019	1.2801	0	0	5.54029
10:33:08				88	9.66385	0.6946019	1.1817	0	0	5.54074
10:33:08				89	9.66385	0.6946019	1.2801	0	0	5.54074
10:33:09				90	9.66482	0.6941194	1.3784	0	0	5.53645
10:33:09				91	9.66676	0.6947628	1.3784	0	0	5.54166
10:33:10				92	9.66482	0.6936388	1.2801	0	0	5.53235
10:33:10				93	9.6687	0.6937996	1.2801	0	0	5.53313
10:33:11				94	9.66967	0.6941194	1.4768	0	0	5.5357
10:33:11				95	9.6687	0.6942802	1.4768	0	0	5.53722
10:33:12				96	9.6687	0.6936388	1.2801	0.53724	0.19536	5.53176
10:33:12				97	9.65997	0.6939604	1.2801	0.39072	0.09768	5.53584
10:33:13				98	9.66773	0.6941194	1.3784	1.41636	0.92796	5.53601
10:33:13				99	9.66482	0.6941194	1.4768	1.41636	0.9768	5.53644
10:33:14				100	9.66676	0.6933172	1.3784	1.36752	6.05617	5.5293
10:33:14				101	9.6687	0.6928368	1.3784	1.41636	6.10501	5.52489
10:33:15				102	9.66967	0.6939604	1.3784	1.41636	6.05617	5.53435
10:33:15				103	9.66773	0.6929957	1.3784	1.41636	6.15385	5.5264
10:33:16				104	9.66967	0.6931565	1.3784	1.41636	6.15385	5.52748
10:33:16				105	9.67161	0.6923546	1.2801	1.41636	6.00733	5.52033
10:33:17				106	9.67064	0.6920332	1.3784	1.41636	6.20269	5.51773
10:33:17				107	9.67258	0.6931564	1.2801	1.41636	6.10501	5.52704
10:33:18				108	9.67355	0.6929957	1.3784	1.41636	6.20269	5.52551

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:18				109	9.67064	0.6925153	1.4768	1.41636	5.95849	5.52184
10:33:19				110	9.67355	0.6921939	1.3784	1.41636	6.00733	5.51866
10:33:19				111	9.67258	0.6923546	1.2801	1.41636	6.05617	5.52019
10:33:20				112	9.67355	0.6954046	1.2801	1.41636	6.15385	5.54611
10:33:20				113	9.6687	0.6936388	1.3784	1.41636	6.05617	5.53175
10:33:21				114	9.66579	0.6933172	1.3784	1.41636	5.95849	5.52944
10:33:21				115	9.66579	0.693478	1.2801	1.41636	6.05617	5.53083
10:33:22				116	9.6687	0.6946019	1.2801	1.41636	6.00733	5.53999
10:33:22				117	9.66482	0.6944411	1.3784	1.41636	6.25153	5.5392
10:33:23				118	9.66676	0.693478	1.3784	1.41636	6.10501	5.53067
10:33:23				119	9.66773	0.693478	1.3784	1.4652	6.10501	5.53052
10:33:24				120	9.66676	0.6936388	1.3784	1.41636	5.95849	5.53205
10:33:24				121	9.66773	0.6933172	1.3784	1.41636	6.00733	5.52915
10:33:25				122	9.66967	0.6939604	1.3784	1.41636	6.05617	5.53435
10:33:25				123	9.66579	0.6946019	1.3784	1.36752	6.15385	5.54043
10:33:26				124	9.6687	0.693478	1.4768	1.41636	5.95849	5.53037
10:33:27				127	9.67143	0.6948688	1.3784	1.41636	6.15385	5.54185
10:33:28				128	9.66755	0.6937448	1.3784	1.41636	5.95849	5.53283
10:33:28				129	9.66852	0.693425	1.3784	1.41636	5.95849	5.52995
10:33:29				130	9.67046	0.6929427	1.3784	1.41636	5.95849	5.52553
10:33:29				131	9.67046	0.6932642	1.3784	1.41636	6.00733	5.52828
10:33:30				132	9.66852	0.693425	1.3784	1.41636	6.00733	5.52995
10:33:30				133	9.66852	0.6932642	1.3784	1.41636	6.00733	5.52857
10:33:31				134	9.66852	0.6931035	1.2801	1.41636	6.15385	5.52721
10:33:31				135	9.66464	0.6967948	1.3784	1.36752	6.05617	5.55936
10:33:32				136	9.66755	0.6948689	1.3784	1.41636	6.05617	5.54244
10:33:32				137	9.66561	0.694708	1.2801	1.41636	6.05617	5.54137
10:33:33				138	9.66464	0.6984002	1.2801	1.4652	6.05617	5.5731
10:33:33				139	9.66755	0.6966338	1.3784	1.41636	6.10501	5.55754
10:33:34				140	9.66755	0.6955107	1.3784	1.41636	5.95849	5.54793
10:33:34				141	9.66464	0.6942272	1.2801	1.41636	5.95849	5.53741
10:33:35				142	9.66561	0.6984002	1.2801	1.41636	5.95849	5.57295
10:33:35				143	9.66561	0.6953497	1.3784	1.4652	6.00733	5.54685
10:33:36				144	9.66367	0.6955107	1.3784	1.41636	6.00733	5.54853
10:33:36				145	9.66173	0.6956716	1.3784	1.41636	6.10501	5.5502
10:33:37				146	9.66173	0.6945471	1.3784	1.41636	6.00733	5.54058
10:33:37				147	9.66367	0.693584	1.2801	1.41636	6.05617	5.53206
10:33:38				148	9.6627	0.6942272	1.3784	1.41636	6.10501	5.5377
10:33:38				149	9.66173	0.6945471	1.3784	1.4652	5.81197	5.54058
10:33:39				150	9.66173	0.693584	1.3784	1.41636	5.95849	5.53235
10:33:39				151	9.6627	0.693425	1.2801	1.41636	6.05617	5.53085
10:33:40				152	9.6627	0.6951907	1.2801	1.36752	6.10501	5.54595
10:33:40				153	9.66367	0.6943881	1.3784	1.36752	6.05617	5.53893
10:33:41				154	9.66367	0.6943881	1.3784	1.36752	6.00733	5.53893
10:33:41				155	9.66076	0.6931035	1.3784	1.36752	6.00733	5.52839

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:42				156	9.6627	0.6913377	1.3784	1.36752	6.10501	5.51299
10:33:42				157	9.66367	0.6924606	1.3784	1.41636	6.00733	5.52245
10:33:43				158	9.66367	0.691659	1.3784	1.41636	5.90965	5.51559
10:33:43				159	9.66561	0.6906953	1.3784	1.4652	6.05617	5.50706
10:33:44				160	9.66464	0.6919803	1.3784	1.41636	5.90965	5.51819
10:33:44				161	9.66658	0.691659	1.3784	1.4652	5.95849	5.51515
10:33:45				162	9.66464	0.6926213	1.3784	1.4652	6.05617	5.52367
10:33:45				163	9.66755	0.692782	1.3784	1.41636	6.00733	5.5246
10:33:46				164	9.66561	0.692141	1.3784	1.41636	6.10501	5.51942
10:33:46				165	9.66755	0.692141	1.3784	1.41636	5.95849	5.51912
10:33:47				166	9.66561	0.693425	1.3784	1.41636	6.05617	5.53039
10:33:47				167	9.66658	0.6922998	1.3784	1.4652	6.15385	5.52063
10:33:48				168	9.66852	0.6918196	1.3784	1.41636	6.05617	5.51623
10:33:48				169	9.66852	0.6929427	1.2801	1.4652	6.00733	5.52583
10:33:49				170	9.66852	0.6926213	1.3784	1.41636	6.15385	5.52308
10:33:49				171	9.66464	0.692141	1.3784	1.41636	6.05617	5.51957
10:33:50				172	9.66949	0.6910165	1.3784	1.41636	6.00733	5.50921
10:33:50				173	9.67046	0.6913377	1.2801	1.41636	6.00733	5.51182
10:33:51				174	9.66852	0.6919803	1.3784	1.41636	6.05617	5.5176
10:33:51				175	9.66852	0.6913377	1.3784	1.4652	6.05617	5.51211
10:33:52				176	9.66561	0.6911771	1.3784	1.4652	6.20269	5.51118
10:33:52				177	9.66561	0.6913377	1.2801	1.4652	6.15385	5.51256
10:33:53				178	9.66658	0.6911771	1.3784	1.41636	6.05617	5.51103
10:33:53				179	9.66464	0.6911771	1.3784	1.41636	6.00733	5.51133
10:33:54				180	9.66755	0.6911771	1.3784	1.41636	5.95849	5.51088
10:33:54				181	9.66658	0.6913377	1.3784	1.41636	6.00733	5.5124
10:33:55				182	9.66561	0.691659	1.3784	1.36752	6.20269	5.5153
10:33:55				183	9.66561	0.6914983	1.3784	1.36752	6.15385	5.51392
10:33:56				184	9.66658	0.6913377	1.3784	1.36752	5.90965	5.5124
10:33:56				185	9.66852	0.6913377	1.3784	1.41636	6.05617	5.51211
10:33:57				186	9.66658	0.6931035	1.3784	1.41636	6.05617	5.5275
10:33:57				187	9.66561	0.6919803	1.3784	1.41636	6.20269	5.51804
10:33:58				188	9.66755	0.6914983	1.3784	1.41636	5.95849	5.51363
10:33:58				189	9.66755	0.6911771	1.3784	1.41636	6.00733	5.51088
10:33:59				190	9.66561	0.6910165	1.2801	1.41636	6.05617	5.50981
10:33:59				191	9.66561	0.691659	1.3784	1.41636	6.05617	5.5153
10:34:00				192	9.66464	0.6914983	1.3784	1.41636	6.05617	5.51407
10:34:00				193	9.66367	0.6911771	1.3784	1.41636	5.86081	5.51147
10:34:01				194	9.66658	0.6913377	1.3784	1.41636	6.00733	5.5124
10:34:01				195	9.66561	0.6913377	1.2801	1.4652	6.15385	5.51256
10:34:02				196	9.66658	0.6913377	1.3784	1.4652	6.15385	5.5124
10:34:02				197	9.66658	0.6913377	1.3784	1.41636	6.05617	5.5124
10:34:03				198	9.66561	0.6910165	1.3784	1.41636	6.05617	5.5098
10:34:03				199	9.66658	0.691659	1.2801	1.41636	6.00733	5.51516
10:34:04				200	9.66755	0.6913377	1.3784	1.41636	5.95849	5.51225

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:04				201	9.66658	0.6911771	1.3784	1.41636	5.90965	5.51103
10:34:05				202	9.66658	0.6911771	1.3784	1.41636	5.86081	5.51103
10:34:05				203	9.66464	0.6911771	1.3784	1.41636	5.95849	5.51133
10:34:06				204	9.66755	0.6913377	1.3784	1.41636	6.15385	5.51225
10:34:06				205	9.66561	0.6911771	1.3784	1.41636	6.10501	5.51118
10:34:07				206	9.66852	0.6910165	1.3784	1.41636	6.00733	5.50936
10:34:07				207	9.66852	0.6932642	1.3784	1.41636	6.00733	5.52857
10:34:08				208	9.66658	0.6918196	1.3784	1.41636	5.90965	5.51652
10:34:08				209	9.66658	0.6911771	1.3784	1.41636	5.95849	5.51103
10:34:09				210	9.66949	0.6913377	1.2801	1.4652	6.05617	5.51197
10:34:09				211	9.66561	0.6911771	1.2801	1.41636	6.05617	5.51119
10:34:10				212	9.66561	0.6913377	1.4768	1.41636	6.00733	5.51254
10:34:10				213	9.66755	0.6910165	1.3784	1.41636	6.05617	5.50951
10:34:11				214	9.66658	0.6903741	1.1817	1.4652	6.05617	5.50418
10:34:11				215	9.66658	0.6908559	1.2801	1.41636	6.20269	5.50829
10:34:12				216	9.66658	0.6906953	1.3784	1.36752	6.64225	5.50691
10:34:12				217	9.66755	0.6905347	1.4768	1.41636	6.15385	5.50538
10:34:13				218	9.66949	0.6906953	1.2801	1.41636	6.00733	5.50648
10:34:13				219	9.66949	0.6926213	1.2801	1.41636	5.95849	5.52294
10:34:14				220	9.66561	0.6922999	1.3784	1.41636	6.10501	5.52077
10:34:14				221	9.66755	0.6911771	1.4768	1.4652	6.05617	5.51087
10:34:15				222	9.66464	0.6908559	1.3784	1.41636	6.00733	5.50858
10:34:15				223	9.66561	0.6910165	1.2801	1.41636	6.05617	5.50981
10:34:16				224	9.66755	0.6914983	1.2801	1.4652	6.15385	5.51364
10:34:16				225	9.66561	0.6910165	1.3784	1.41636	6.10501	5.5098
10:34:17				226	9.66464	0.6906953	1.3784	1.41636	5.95849	5.50721
10:34:17				227	9.66658	0.692782	1.2801	1.41636	6.10501	5.52476
10:34:18				228	9.6627	0.6919803	1.3784	1.41636	6.10501	5.51849
10:34:18				229	9.66173	0.6918196	1.3784	1.36752	6.05617	5.51726
10:34:19				230	9.66076	0.6913377	1.3784	1.41636	5.95849	5.51329
10:34:19				231	9.66367	0.6913377	1.2801	1.4652	6.05617	5.51285
10:34:20				232	9.66076	0.6913377	1.3784	1.41636	6.15385	5.51329
10:34:20				233	9.66173	0.6911771	1.3784	1.41636	6.10501	5.51177
10:34:21				234	9.65979	0.6911771	1.3784	1.41636	5.95849	5.51207
10:34:21				235	9.65979	0.691659	1.3784	1.41636	6.10501	5.51619
10:34:22				236	9.65779	0.6913377	1.3784	1.41636	6.10501	5.51374
10:34:22				237	9.65876	0.6911771	1.3784	1.41636	5.95849	5.51222
10:34:23				238	9.65979	0.6908559	1.3784	1.41636	6.05617	5.50932
10:34:23				239	9.6627	0.6911771	1.3784	1.4652	6.10501	5.51162
10:34:24				240	9.65979	0.6908559	1.3784	1.41636	6.00733	5.50932
10:34:24				241	9.6627	0.6906953	1.3784	1.41636	6.00733	5.5075
10:34:25				242	9.66173	0.6906953	1.3784	1.41636	6.30037	5.50765
10:34:25				243	9.6627	0.6906953	1.3784	1.36752	6.00733	5.5075
10:34:26				244	9.6627	0.6908559	1.3784	1.41636	6.10501	5.50888
10:34:27				247	9.66579	0.6906807	1.3784	1.4652	6.00733	5.50691

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:28				248	9.66191	0.6908413	1.2801	1.41636	6.05617	5.50888
10:34:28				249	9.66191	0.6913213	1.2801	1.41636	6.05617	5.51298
10:34:29				250	9.66385	0.6910001	1.3784	1.41636	6.00733	5.50993
10:34:29				251	9.66191	0.6910001	1.4768	1.41636	6.00733	5.51022
10:34:30				252	9.66191	0.6908413	1.3784	1.41636	6.00733	5.50887
10:34:30				253	9.66288	0.6908413	1.2801	1.41636	6.10501	5.50873
10:34:31				254	9.66482	0.6910001	1.3784	1.41636	6.05617	5.50978
10:34:31				255	9.66676	0.6906807	1.4768	1.41636	6.10501	5.50675
10:34:32				256	9.66579	0.6903596	1.3784	1.41636	6.05617	5.50416
10:34:32				257	9.66579	0.6900385	1.2801	1.41636	6.15385	5.50143
10:34:33				258	9.66773	0.6903596	1.3784	1.41636	6.15385	5.50387
10:34:33				259	9.66579	0.6905201	1.3784	1.41636	6.10501	5.50553
10:34:34				260	9.66773	0.6903596	1.3784	1.41636	6.05617	5.50387
10:34:34				261	9.6687	0.6916425	1.2801	1.4652	6.05617	5.51469
10:34:35				262	9.66579	0.6911607	1.3784	1.41636	6.10501	5.51101
10:34:35				263	9.66579	0.6911607	1.3784	1.4652	6.25153	5.51101
10:34:36				264	9.66579	0.6910001	1.3784	1.36752	6.10501	5.50964
10:34:36				265	9.66773	0.6911607	1.4768	1.41636	6.15385	5.5107
10:34:37				266	9.66579	0.6910001	1.3784	1.41636	6.20269	5.50964
10:34:37				267	9.66676	0.6908413	1.2801	1.4652	6.10501	5.50814
10:34:38				268	9.6687	0.6913213	1.2801	1.41636	6.10501	5.51195
10:34:38				269	9.66676	0.6911607	1.3784	1.41636	6.15385	5.51086
10:34:39				270	9.66579	0.6908413	1.3784	1.36752	6.20269	5.50828
10:34:39				271	9.66773	0.6900385	1.2801	1.41636	6.20269	5.50113
10:34:40				272	9.66676	0.691	1.2801	1.41636	6.15385	5.5095
10:34:40				273	9.66773	0.6905201	1.3784	1.41636	6.25153	5.50524
10:34:41				274	9.66579	0.6905201	1.4768	1.41636	6.00733	5.50553
10:34:41				275	9.66967	0.6906807	1.3784	1.4652	6.10501	5.50632
10:34:42				276	9.66773	0.6906807	1.2801	1.36752	6.20269	5.50662
10:34:42				277	9.66579	0.6908413	1.3784	1.41636	6.15385	5.50828
10:34:43				278	9.66482	0.6908413	1.4768	1.41636	6.00733	5.50842
10:34:43				279	9.66676	0.6906807	1.4768	1.41636	6.10501	5.50675
10:34:44				280	9.66773	0.6911607	1.2801	1.41636	6.05617	5.51072
10:34:44				281	9.66385	0.6908413	1.4768	1.41636	6.20269	5.50857
10:34:45				282	9.66385	0.6906807	1.4768	1.41636	6.10501	5.50719
10:34:45				283	9.66676	0.6905201	1.2801	1.4652	6.00733	5.5054
10:34:46				284	9.66676	0.6914819	1.2801	1.41636	6.15385	5.51362
10:34:46				285	9.66579	0.6913213	1.3784	1.41636	6.10501	5.51238
10:34:47				286	9.66385	0.6910001	1.4768	1.41636	6.10501	5.50992
10:34:47				287	9.66579	0.6906807	1.3784	1.41636	6.10501	5.50691
10:34:48				288	9.66676	0.6905201	1.2801	1.41636	6.10501	5.5054
10:34:48				289	9.66773	0.6914819	1.3784	1.41636	6.10501	5.51346
10:34:49				290	9.66773	0.6918032	1.4768	1.41636	6.00733	5.5162
10:34:49				291	9.67555	0.6924459	1.3784	1.41636	6.00733	5.5205
10:34:50				292	9.67652	0.6927655	1.2801	1.41636	6.00733	5.5231

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:50				293	9.67458	0.6924459	1.3784	1.36752	6.20269	5.52065
10:34:51				294	9.67555	0.6922852	1.4768	1.41636	6.05617	5.51912
10:34:51				295	9.67652	0.6922852	1.3784	1.41636	6.10501	5.51898
10:34:52				296	9.67652	0.6916425	1.3784	1.41636	6.05617	5.51349
10:34:52				297	9.67161	0.6919639	1.3784	1.4652	6.20269	5.51699
10:34:53				298	9.67064	0.6918032	1.4768	1.36752	6.05617	5.51575
10:34:53				299	9.67264	0.6918032	1.3784	1.41636	6.00733	5.51546
10:34:54				300	9.67264	0.6919639	1.2801	1.41636	6.00733	5.51684
10:34:54				301	9.67264	0.6919639	1.3784	1.41636	6.15385	5.51683
10:34:55				302	9.67555	0.6922852	1.3784	1.4652	6.10501	5.51913
10:34:55				303	9.67652	0.6921245	1.2801	1.36752	5.95849	5.51762
10:34:56				304	9.67555	0.6922852	1.3784	1.41636	6.05617	5.51913
10:34:56				305	9.67652	0.6918032	1.3784	1.41636	6.05617	5.51486
10:34:57				306	9.67458	0.6916425	1.3784	1.41636	6.00733	5.51379
10:34:57				307	9.67264	0.691	1.2801	1.41636	6.05617	5.5086
10:34:58				308	9.67361	0.6911606	1.2801	1.36752	6.05617	5.50982
10:34:58				309	9.67161	0.6914819	1.3784	1.41636	6.10501	5.51287
10:34:59				310	9.67361	0.6914819	1.3784	1.4652	6.00733	5.51256
10:34:59				311	9.67652	0.6921245	1.2801	1.41636	6.00733	5.51762
10:35:00				312	9.67749	0.6911606	1.2801	1.41636	6.05617	5.50923
10:35:00				313	9.67749	0.6908413	1.3784	1.36752	5.95849	5.5065
10:35:01				314	9.67458	0.6906807	1.3784	1.41636	6.64225	5.50557
10:35:01				315	9.67749	0.6908413	1.3784	1.4652	5.90965	5.5065
10:35:02				316	9.67458	0.6908413	1.3784	1.41636	6.30037	5.50694
10:35:02				317	9.67064	0.691	1.2801	1.41636	6.05617	5.50891
10:35:03				318	9.67064	0.6906807	1.2801	1.41636	5.95849	5.50618
10:35:03				319	9.66579	0.6906807	1.3784	1.41636	6.00733	5.50691
10:35:04				320	9.66676	0.6910001	1.4768	1.41636	6.10501	5.50948
10:35:04				321	9.66288	0.6913213	1.3784	1.41636	6.10501	5.51283
10:35:05				322	9.66385	0.6916426	1.2801	1.36752	5.95849	5.51543
10:35:05				323	9.66288	0.6916426	1.2801	1.41636	6.15385	5.51558
10:35:06				324	9.66094	0.6905201	1.3784	1.4652	6.10501	5.50627
10:35:06				325	9.66094	0.6906807	1.4768	1.41636	5.90965	5.50764
10:35:07				326	9.66288	0.6908413	1.3784	1.41636	5.95849	5.50872
10:35:07				327	9.66676	0.6906807	1.1817	1.41636	6.00733	5.50678
10:35:08				328	9.66579	0.6897174	1.1817	1.41636	6.05617	5.49869
10:35:08				329	9.66191	0.6903596	1.3784	1.41636	6.15385	5.50475
10:35:09				330	9.66579	0.6905201	1.3784	1.41636	6.10501	5.50553
10:35:09				331	9.67161	0.6906807	1.2801	1.36752	6.05617	5.50603
10:35:10				332	9.67161	0.6906807	1.2801	1.41636	6.05617	5.50603
10:35:10				333	9.66676	0.6905201	1.2801	1.41636	6.00733	5.5054
10:35:11				334	9.66676	0.6905201	1.2801	1.4652	6.15385	5.5054
10:35:11				335	9.66676	0.6905201	1.2801	1.4652	6.20269	5.5054
10:35:12				336	9.66579	0.6903596	1.3784	1.41636	6.15385	5.50416
10:35:12				337	9.66579	0.689878	1.2801	1.41636	6.05617	5.50005

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:13				338	9.66385	0.6900385	1.3784	1.41636	6.15385	5.50171
10:35:13				339	9.66191	0.689878	1.3784	1.41636	6.20269	5.50064
10:35:14				340	9.66385	0.6900385	1.3784	1.41636	6.15385	5.50171
10:35:14				341	9.66385	0.689878	1.2801	1.41636	6.10501	5.50035
10:35:15				342	9.66094	0.6900385	1.3784	1.41636	6.10501	5.50216
10:35:15				343	9.66191	0.689878	1.3784	1.41636	6.15385	5.50064
10:35:16				344	9.66288	0.689557	1.3784	1.36752	6.10501	5.49775
10:35:16				345	9.66094	0.689557	1.3784	1.41636	6.10501	5.49804
10:35:17				346	9.66094	0.6889151	1.3784	1.41636	6.20269	5.49256
10:35:17				347	9.65997	0.689236	1.3784	1.41636	6.20269	5.49545
10:35:18				348	9.65997	0.6890755	1.3784	1.41636	6.05617	5.49407
10:35:18				349	9.659	0.6893965	1.2801	1.41636	6.10501	5.49697
10:35:19				350	9.65997	0.6893965	1.3784	1.41636	6.15385	5.49682
10:35:19				351	9.65803	0.689236	1.3784	1.41636	6.25153	5.49574
10:35:20				352	9.65997	0.689236	1.3784	1.41636	6.20269	5.49545
10:35:20				353	9.65803	0.689236	1.3784	1.41636	6.20269	5.49574
10:35:21				354	9.659	0.689236	1.3784	1.36752	6.25153	5.49559
10:35:21				355	9.65997	0.689236	1.3784	1.41636	6.20269	5.49545
10:35:22				356	9.65803	0.689236	1.4768	1.4652	6.15385	5.49573
10:35:22				357	9.65803	0.689236	1.3784	1.41636	6.15385	5.49574
10:35:23				358	9.65997	0.6893965	1.2801	1.41636	6.15385	5.49683
10:35:23				359	9.65997	0.689236	1.3784	1.4652	6.30037	5.49545
10:35:24				360	9.65803	0.689236	1.4768	1.41636	6.20269	5.49573
10:35:24				361	9.65803	0.6884338	1.2801	1.41636	6.15385	5.48889
10:35:25				362	9.65803	0.6885942	1.2801	1.41636	6.15385	5.49026
10:35:25				363	9.65803	0.6890755	1.3784	1.41636	6.25153	5.49437
10:35:26				364	9.65997	0.6889151	1.4768	1.41636	6.15385	5.4927
10:35:27				367	9.65882	0.6887437	1.3784	1.41636	6.20269	5.49141
10:35:28				368	9.65591	0.6887437	1.4768	1.41636	5.95849	5.49185
10:35:28				369	9.65979	0.6889041	1.3784	1.41636	6.10501	5.49264
10:35:29				370	9.65785	0.689546	1.2801	1.41636	6.10501	5.49843
10:35:29				371	9.66076	0.689225	1.3784	1.41636	6.25153	5.49523
10:35:30				372	9.65979	0.6892251	1.3784	1.4652	6.00733	5.49538
10:35:30				373	9.65882	0.6892251	1.3784	1.41636	6.00733	5.49553
10:35:31				374	9.65882	0.6889041	1.2801	1.41636	6.05617	5.49279
10:35:31				375	9.65979	0.6889041	0.9849	1.41636	6.05617	5.49267
10:35:32				376	9.6627	0.6887437	0.8865	1.41636	6.20269	5.49087
10:35:32				377	9.66076	0.6889041	0.7881	1.41636	6.00733	5.49254
10:35:33				378	9.6627	0.679756	0.6898	1.4652	6.59341	5.41412
10:35:33				379	9.6627	0.6889041	0.6898	1.41636	23.83394	5.49225
10:35:34				380	9.65591	0.6889041	0.5914	1.41636	4.44444	5.49329
10:35:34				381	9.64815	0.6889041	0.493	1.41636	4.44444	5.49448
10:35:35				382	9.64033	0.6889041	0.5914	1.41636	3.02808	5.49567
10:35:35				383	9.62966	0.6889041	0.493	1.41636	3.32112	5.4973
10:35:36				384	9.62189	0.6889042	0.5914	1.41636	3.4188	5.49848

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:36				385	9.62092	0.6889042	0.5914	1.41636	3.22344	5.49862
10:35:37				386	9.61898	0.4262016	0.5914	1.41636	3.27228	3.29224
10:35:37				387	9.61607	0.1031632	0.6898	1.41636	3.12576	0.73728
10:35:38				388	9.61995	0.4537683	0.6898	1.41636	3.02808	3.51943
10:35:38				389	9.61704	0.1519369	0.6898	0	0	1.10618
10:35:39				390	9.61219	0.1233098	0.6898	0	0	0.88872
10:35:39				391	9.61801	0.4353356	0.6898	0	0	3.36751
10:35:40				392	9.61995	0.3390458	0.6898	0	0	2.5814
10:35:40				393	9.62383	0.2974082	0.6898	0	0	2.24627
10:35:41				394	9.62577	0.0819006	0.6898	0	0	0.57925
10:35:41				395	9.62869	0.1690511	0.6898	0	0	1.23713
10:35:42				396	9.63548	0.2040892	0.6898	0	0	1.50827
10:35:42	10:34:50 switch off	10.0	210	397	9.63936	0.6889041	0.6898	0	0	5.49581
10:37:46	10:36:45 switch on	10.0	240	7	9.67125	0.683825	1.1817	0	0	5.44753
10:37:47	no dye - background			8	9.66834	0.6844672	1.1817	0	0	5.45345
10:37:47				9	9.66834	0.6841469	1.1817	0	0	5.45072
10:37:48				10	9.67222	0.6836649	1.1817	0	0	5.44602
10:37:48				11	9.66834	0.6841469	1.1817	0	0	5.45072
10:37:49				12	9.6664	0.6839869	1.1817	0	0	5.44965
10:37:49				13	9.66446	0.6835048	1.1817	0	0	5.44582
10:37:50				14	9.6664	0.683825	1.1817	0	0	5.44826
10:37:50				15	9.66155	0.6844672	1.1817	0	0	5.45448
10:37:51				16	9.66349	0.6836649	1.1817	0	0	5.44733
10:37:51				17	9.66349	0.684147	1.0833	0	0	5.45146
10:37:52				18	9.65961	0.684147	1.1817	0	0	5.45204
10:37:52				19	9.6567	0.6844672	1.2801	0	0	5.4552
10:37:53				20	9.65767	0.6854299	1.1817	0	0	5.46329
10:37:53				21	9.65767	0.6870361	1.1817	0	0	5.47701
10:37:54				22	9.6567	0.685592	1.2801	0	0	5.46481
10:37:54				23	9.65573	0.68543	1.4768	0	0	5.46356
10:37:55				24	9.6567	0.6876774	1.4768	0	0	5.48262
10:37:55				25	9.6567	0.6876774	1.2801	0	0	5.48263
10:37:56				26	9.65573	0.6870361	1.3784	0	0	5.47729
10:37:56				27	9.6567	0.6870361	1.4768	0	0	5.47714
10:37:57				28	9.65864	0.6881586	1.4768	0	0	5.48643
10:37:57				29	9.65573	0.6873568	1.4768	0	0	5.48002
10:37:58				30	9.65961	0.6875171	1.4768	0	0	5.4808
10:37:58				31	9.65767	0.688319	1.3784	0	0	5.48796
10:37:59				32	9.65864	0.6881585	1.3784	0	0	5.48644
10:37:59				33	9.6567	0.6873567	1.4768	0	0	5.47988
10:38:00				34	9.65864	0.6879982	1.4768	0	0	5.48506
10:38:00				35	9.65767	0.6892834	1.4768	0	0	5.49619
10:38:01				36	9.65864	0.688802	1.3784	0	0	5.49194
10:38:01				37	9.66058	0.688802	1.3784	0	0	5.49165

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:02				38	9.65864	0.6884794	1.4768	0	0	5.48917
10:38:02				39	9.6567	0.6884794	1.5752	0	0	5.48946
10:38:03				40	9.66155	0.6879982	1.4768	0	0	5.48462
10:38:03				41	9.66058	0.6881585	1.2801	0	0	5.48615
10:38:04				42	9.66155	0.6879982	1.3784	0	0	5.48463
10:38:04				43	9.65961	0.6881586	1.4768	0	0	5.48629
10:38:05				44	9.65864	0.6879982	1.3784	0	0	5.48507
10:38:05				45	9.66058	0.6881585	1.3784	0	0	5.48615
10:38:06				46	9.65961	0.6883189	1.2801	0	0	5.48767
10:38:06				47	9.65961	0.6881586	1.4768	0	0	5.48629
10:38:07				48	9.66155	0.6868758	1.3784	0	0	5.47504
10:38:07				49	9.66155	0.6873567	1.3784	0	0	5.47915
10:38:08				50	9.65864	0.6876774	1.4768	0	0	5.48232
10:38:08				51	9.65767	0.6879982	1.4768	0	0	5.48521
10:38:09				52	9.65767	0.6860726	1.2801	0	0	5.46877
10:38:09				53	9.65573	0.6875171	1.1817	0	0	5.48142
10:38:10				54	9.65864	0.6871964	1.4768	0	0	5.47821
10:38:10				55	9.65767	0.6873567	1.4768	0	0	5.47973
10:38:11				56	9.6567	0.6863931	1.2801	0	0	5.47166
10:38:11				57	9.65767	0.6871964	1.2801	0	0	5.47837
10:38:12				58	9.65864	0.6868758	1.3784	0	0	5.47548
10:38:12				59	9.65767	0.6870361	1.4768	0	0	5.47699
10:38:13				60	9.65864	0.6876774	1.4768	0	0	5.48232
10:38:13				61	9.65767	0.6878378	1.3784	0	0	5.48385
10:38:14				62	9.65864	0.6875171	1.3784	0	0	5.48096
10:38:14				63	9.65767	0.6873567	1.3784	0	0	5.47974
10:38:15				64	9.65767	0.6873567	1.4768	0	0	5.47973
10:38:15				65	9.65864	0.6873567	1.3784	0	0	5.47959
10:38:16				66	9.6567	0.6876774	1.4768	0	0	5.48262
10:38:16				67	9.6567	0.6876774	1.3784	0	0	5.48262
10:38:17				68	9.6567	0.6875171	1.4768	0	0	5.48125
10:38:17				69	9.65961	0.6878378	1.4768	0	0	5.48354
10:38:18				70	9.6567	0.688319	1.3784	0	0	5.48811
10:38:18				71	9.6567	0.688319	1.3784	0	0	5.48811
10:38:19				72	9.6567	0.6879982	1.3784	0	0	5.48537
10:38:19				73	9.65573	0.6881586	1.4768	0	0	5.48687
10:38:20				74	9.65373	0.6884794	1.3784	0	0	5.48993
10:38:20				75	9.65476	0.688319	1.4768	0	0	5.48839
10:38:21				76	9.65476	0.688319	1.3784	0	0	5.4884
10:38:21				77	9.65476	0.6881586	1.4768	0	0	5.48702
10:38:22				78	9.65276	0.6881586	1.4768	0	0	5.48733
10:38:22				79	9.65179	0.6865534	1.3784	0	0	5.47376
10:38:23				80	9.65179	0.6867155	1.3784	0	0	5.47515
10:38:23				81	9.65179	0.6878378	1.4768	0	0	5.48473
10:38:24				82	9.64985	0.6876775	1.4768	0	0	5.48366

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:24				83	9.65179	0.6859124	1.3784	0	0	5.46829
10:38:25				84	9.65082	0.6851096	1.3784	0	0	5.46157
10:38:25				85	9.64888	0.6860727	1.3784	0	0	5.4701
10:38:26				86	9.64985	0.6862329	1.5752	0	0	5.4713
10:38:26				87	9.64985	0.6859124	1.3784	0	0	5.46858
10:38:27				88	9.65082	0.6860726	1.3784	0	0	5.4698
10:38:27				89	9.65082	0.6863931	1.3784	0	0	5.47254
10:38:28				90	9.65082	0.6863932	1.4768	0	0	5.47253
10:38:28				91	9.64888	0.6862329	1.4768	0	0	5.47146
10:38:29				92	9.65082	0.6863931	1.3784	0	0	5.47254
10:38:29				93	9.65276	0.6863931	1.3784	0	0	5.47225
10:38:30				94	9.65179	0.6863932	1.4768	0	0	5.47239
10:38:30				95	9.65179	0.6870361	1.4768	0	0	5.47788
10:38:31				96	9.65082	0.6868758	1.4768	0.53724	0.19536	5.47666
10:38:31				97	9.64403	0.6867155	1.4768	0.34188	0.09768	5.47632
10:38:32				98	9.65082	0.6881586	1.3784	1.41636	0.92796	5.48763
10:38:32				99	9.65082	0.6884794	1.3784	1.41636	6.00733	5.49037
10:38:33				100	9.65179	0.6881586	1.4768	1.36752	6.00733	5.48747
10:38:33				101	9.65082	0.6878378	1.4768	1.41636	6.05617	5.48488
10:38:34				102	9.65373	0.688802	1.3784	1.4652	6.15385	5.49269
10:38:34				103	9.65179	0.6878378	1.3784	1.41636	6.15385	5.48474
10:38:35				104	9.65373	0.6873568	1.4768	1.41636	6.15385	5.48033
10:38:35				105	9.65276	0.6849494	1.3784	1.41636	6.10501	5.45991
10:38:36				106	9.65476	0.6849494	1.2801	1.41636	6.15385	5.45962
10:38:36				107	9.65179	0.6851096	1.3784	1.41636	6.10501	5.46143
10:38:37				108	9.65082	0.6857522	1.4768	1.41636	6.05617	5.46706
10:38:37				109	9.65276	0.6867155	1.3784	1.41636	6.05617	5.475
10:38:38				110	9.65179	0.6879982	1.3784	1.36752	6.10501	5.48611
10:38:38				111	9.65373	0.6879982	1.3784	1.4652	6.25153	5.48582
10:38:39				112	9.65276	0.6875171	1.4768	1.41636	6.05617	5.48184
10:38:39				113	9.65179	0.6870361	1.4768	1.41636	6.15385	5.47788
10:38:40				114	9.65373	0.6870361	1.4768	1.41636	6.05617	5.47759
10:38:40				115	9.65276	0.6870361	1.3784	1.41636	6.44689	5.47774
10:38:41				116	9.65082	0.6867155	1.3784	1.41636	6.25153	5.4753
10:38:41				117	9.65276	0.6867155	1.4768	1.41636	6.25153	5.47499
10:38:42				118	9.64985	0.6867155	1.4768	1.41636	6.15385	5.47543
10:38:42				119	9.65276	0.6865534	1.3784	1.41636	6.15385	5.47362
10:38:43				120	9.65276	0.6865534	1.3784	1.41636	6.10501	5.47362
10:38:43				121	9.65373	0.6873568	1.4768	1.41636	6.10501	5.48033
10:38:44				122	9.65373	0.6865534	1.4768	1.41636	6.20269	5.47346
10:38:44				123	9.65276	0.6862329	1.4768	1.41636	6.00733	5.47087
10:38:45				124	9.65276	0.6860726	1.3784	1.41636	6.00733	5.46951
10:38:46				127	9.65434	0.68667	1.4768	1.41636	6.10501	5.47437
10:38:47				128	9.65434	0.68667	1.3784	1.41636	6.05617	5.47437
10:38:47				129	9.65143	0.68667	1.3784	1.41636	6.20269	5.47481

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:48				130	9.6524	0.6865097	1.4768	1.36752	5.95849	5.47329
10:38:48				131	9.6524	0.6865097	1.3784	1.41636	6.00733	5.4733
10:38:49				132	9.65143	0.6865097	1.4768	1.41636	6.05617	5.47344
10:38:49				133	9.65046	0.6860271	1.4768	1.41636	6.10501	5.46946
10:38:50				134	9.65337	0.6857067	1.3784	1.41636	6.20269	5.46629
10:38:50				135	9.6524	0.6860271	1.4768	1.41636	6.05617	5.46917
10:38:51				136	9.65337	0.6855465	1.3784	1.41636	6.00733	5.46492
10:38:51				137	9.6524	0.6853863	1.3784	1.41636	6.10501	5.4637
10:38:52				138	9.6524	0.6853863	1.3784	1.41636	6.15385	5.4637
10:38:52				139	9.65143	0.6852243	1.4768	1.41636	6.05617	5.46245
10:38:53				140	9.65046	0.6850641	1.4768	1.41636	5.90965	5.46123
10:38:53				141	9.65143	0.6853863	1.3784	1.41636	6.05617	5.46385
10:38:54				142	9.6524	0.6857067	1.3784	1.41636	6.20269	5.46644
10:38:54				143	9.6524	0.6857067	1.4768	1.41636	6.05617	5.46643
10:38:55				144	9.64948	0.6857067	1.4768	1.4652	6.15385	5.46687
10:38:55				145	9.65143	0.6857067	1.4768	1.41636	6.10501	5.46657
10:38:56				146	9.65046	0.6855465	1.3784	1.41636	6.05617	5.46536
10:38:56				147	9.64948	0.6842616	1.3784	1.41636	6.10501	5.45453
10:38:57				148	9.64948	0.6844217	1.3784	1.41636	6.10501	5.4559
10:38:57				149	9.6456	0.684904	1.4768	1.36752	6.10501	5.4606
10:38:58				150	9.64851	0.684904	1.4768	1.41636	6.00733	5.46016
10:38:58				151	9.64754	0.684904	1.3784	1.41636	6.15385	5.46031
10:38:59				152	9.65046	0.6845837	1.3784	1.4652	6.20269	5.45713
10:38:59				153	9.64851	0.684904	1.4768	1.41636	6.15385	5.46016
10:39:00				154	9.64948	0.6847438	1.4768	1.41636	6.00733	5.45864
10:39:00				155	9.64657	0.6845837	1.4768	1.41636	6.05617	5.45771
10:39:01				156	9.64851	0.6842616	1.3784	1.41636	6.00733	5.45468
10:39:01				157	9.64851	0.6844217	1.3784	1.4652	6.20269	5.45604
10:39:02				158	9.64851	0.6844217	1.4768	1.41636	6.34921	5.45604
10:39:02				159	9.64657	0.6841015	1.4768	1.41636	6.10501	5.45359
10:39:03				160	9.64754	0.6837814	1.3784	1.41636	6.10501	5.45072
10:39:03				161	9.64948	0.6839414	1.3784	1.41636	6.10501	5.45179
10:39:04				162	9.64851	0.6842616	1.3784	1.41636	6.05617	5.45468
10:39:04				163	9.64754	0.6842616	1.4768	1.4652	6.05617	5.45481
10:39:05				164	9.64754	0.6845837	1.4768	1.41636	6.15385	5.45757
10:39:05				165	9.64948	0.6810528	1.3784	1.41636	6.05617	5.42712
10:39:06				166	9.65822	0.6821758	1.3784	1.41636	6.20269	5.4354
10:39:06				167	9.65919	0.6815343	1.4768	1.36752	6.05617	5.42976
10:39:07				168	9.66016	0.6816942	1.4768	1.36752	6.00733	5.43098
10:39:07				169	9.66597	0.6812126	1.4768	1.36752	6.10501	5.426
10:39:08				170	9.66888	0.6815342	1.3784	1.41636	6.05617	5.42831
10:39:08				171	9.67082	0.6844217	1.3784	1.41636	6.05617	5.45267
10:39:09				172	9.6747	0.6836194	1.3784	1.41636	6.00733	5.44524
10:39:09				173	9.67567	0.6829775	1.4768	1.4652	6.20269	5.4396
10:39:10				174	9.6747	0.6804097	1.3784	1.41636	6.10501	5.41784

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:10				175	9.6767	0.6799285	1.3784	1.4652	6.05617	5.41344
10:39:11				176	9.67373	0.6788049	1.3784	1.41636	6.10501	5.40429
10:39:11				177	9.6747	0.6786452	1.3784	1.41636	6.00733	5.40279
10:39:12				178	9.67373	0.6789664	1.4768	1.41636	6.15385	5.40566
10:39:12				179	9.67373	0.6792858	1.3784	1.41636	6.15385	5.4084
10:39:13				180	9.6747	0.6789664	1.3784	1.41636	6.15385	5.40553
10:39:13				181	9.67276	0.6786452	1.3784	1.41636	6.25153	5.40308
10:39:14				182	9.6747	0.6784837	1.4768	1.41636	6.10501	5.4014
10:39:14				183	9.67373	0.678324	1.4768	1.41636	6.00733	5.40018
10:39:15				184	9.6747	0.6799285	1.4768	1.41636	6.10501	5.41373
10:39:15				185	9.67373	0.6789664	1.3784	1.4652	6.15385	5.40567
10:39:16				186	9.67082	0.6800883	1.3784	1.41636	6.30037	5.41568
10:39:16				187	9.66791	0.6807312	1.4768	1.4652	6.15385	5.4216
10:39:17				188	9.66307	0.6815343	1.4768	1.41636	6.15385	5.42918
10:39:17				189	9.65919	0.6841015	1.3784	1.41636	6.10501	5.4517
10:39:18				190	9.65434	0.6828175	1.3784	1.4652	6.25153	5.44146
10:39:18				191	9.65725	0.6839414	1.4768	1.4652	6.00733	5.45061
10:39:19				192	9.65531	0.6841015	1.3784	1.41636	6.25153	5.45228
10:39:19				193	9.65143	0.6842616	1.3784	1.4652	6.15385	5.45424
10:39:20				194	9.64948	0.6837814	1.3784	1.41636	5.90965	5.45043
10:39:20				195	9.65143	0.6852243	1.3784	1.4652	6.05617	5.46246
10:39:21				196	9.6524	0.6858669	1.3784	1.41636	6.00733	5.46781
10:39:21				197	9.65434	0.6847438	1.4768	1.41636	5.95849	5.45791
10:39:22				198	9.65046	0.6842616	1.4768	1.36752	6.20269	5.45437
10:39:22				199	9.65046	0.6850641	1.3784	1.36752	6.15385	5.46124
10:39:23				200	9.65046	0.6844217	1.4768	1.36752	6.00733	5.45574
10:39:23				201	9.65143	0.6844217	1.4768	1.41636	6.15385	5.4556
10:39:24				202	9.6524	0.6842616	1.4768	1.41636	6.10501	5.45408
10:39:24				203	9.65337	0.6816942	1.3784	1.41636	6.15385	5.43201
10:39:25				204	9.65337	0.6839414	1.3784	1.41636	6.20269	5.45121
10:39:25				205	9.65434	0.6829775	1.4768	1.41636	6.05617	5.44282
10:39:26				206	9.65434	0.6812127	1.4768	1.41636	6.15385	5.42775
10:39:26				207	9.65434	0.6796072	1.3784	1.41636	6.00733	5.41405
10:39:27				208	9.65434	0.6820158	1.3784	1.41636	6.10501	5.43461
10:39:27				209	9.65337	0.6773608	1.3784	1.41636	6.10501	5.39502
10:39:28				210	9.65337	0.6765594	1.4768	1.4652	6.00733	5.38817
10:39:28				211	9.65822	0.6727068	1.4768	1.4652	6.10501	5.35458
10:39:29				212	9.6621	0.6640416	1.3784	1.41636	6.05617	5.28015
10:39:29				213	9.6621	0.6613128	1.3784	1.41636	6.20269	5.25691
10:39:30				214	9.66694	0.6619555	1.4768	1.41636	6.10501	5.26167
10:39:30				215	9.66791	0.6629172	1.4768	1.41636	6.05617	5.26972
10:39:31				216	9.66888	0.6608322	1.4768	1.4652	6.25153	5.25182
10:39:31				217	9.66888	0.6613128	1.3784	1.36752	6.30037	5.25592
10:39:32				218	9.67082	0.6621157	1.3784	1.41636	6.25153	5.26247
10:39:32				219	9.66985	0.6619555	1.3784	1.41636	6.30037	5.26125

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:33				220	9.67082	0.6617934	1.4768	1.41636	6.25153	5.25972
10:39:33				221	9.66985	0.661473	1.4768	1.41636	6.20269	5.25714
10:39:34				222	9.66888	0.6621157	1.2801	1.41636	6.20269	5.26277
10:39:34				223	9.66791	0.6629172	1.2801	1.41636	6.25153	5.26973
10:39:35				224	9.67082	0.6625966	1.4768	1.4652	6.30037	5.26656
10:39:35				225	9.66985	0.6632379	1.4768	1.41636	6.25153	5.27216
10:39:36				226	9.66985	0.6630775	1.3784	1.41636	6.20269	5.27081
10:39:36				227	9.66888	0.6629172	1.2801	1.41636	6.20269	5.26959
10:39:37				228	9.66985	0.6617934	1.3784	1.4652	6.25153	5.25987
10:39:37				229	9.67082	0.6627569	1.4768	1.4652	6.25153	5.26793
10:39:38				230	9.66985	0.6629172	1.4768	1.36752	6.25153	5.26943
10:39:38				231	9.66888	0.6667684	1.3784	1.41636	6.34921	5.30239
10:39:39				232	9.66888	0.667893	1.3784	1.41636	6.34921	5.31197
10:39:39				233	9.66597	0.6658068	1.4768	1.41636	6.30037	5.29461
10:39:40				234	9.66597	0.6646833	1.4768	1.41636	6.15385	5.28504
10:39:40				235	9.665	0.6577823	1.3784	1.41636	6.20269	5.22643
10:39:41				236	9.66597	0.6548946	1.3784	1.41636	6.30037	5.20172
10:39:41				237	9.66694	0.6608322	1.4768	1.41636	6.25153	5.2521
10:39:42				238	9.66694	0.6611526	1.4768	1.41636	6.20269	5.25483
10:39:42				239	9.66791	0.6632379	1.3784	1.41636	6.25153	5.27245
10:39:43				240	9.66791	0.6587457	1.3784	1.41636	6.30037	5.23421
10:39:43				241	9.66694	0.6617934	1.4768	1.36752	6.25153	5.26029
10:39:44				242	9.66791	0.6611526	1.4768	1.41636	6.15385	5.25469
10:39:44				243	9.67179	0.6677323	1.3784	1.41636	6.10501	5.31017
10:39:45				244	9.66985	0.6686949	1.3784	1.41636	6.25153	5.31866
10:39:46				247	9.67107	0.6691718	1.3784	1.41636	6.20269	5.32255
10:39:47				248	9.66913	0.669011	1.4768	1.41636	6.20269	5.32145
10:39:47				249	9.67107	0.6685287	1.4768	1.41636	6.20269	5.31706
10:39:48				250	9.67204	0.6683698	1.4768	1.36752	6.25153	5.31556
10:39:48				251	9.67398	0.6685287	1.3784	1.41636	6.25153	5.31664
10:39:49				252	9.67301	0.6678876	1.4768	1.41636	6.10501	5.31131
10:39:49				253	9.67301	0.668209	1.4768	1.41636	6.15385	5.31405
10:39:50				254	9.67204	0.668209	1.4768	1.41636	6.05617	5.31419
10:39:50				255	9.67398	0.668209	1.4768	1.41636	6.20269	5.31391
10:39:51				256	9.67495	0.666283	1.3784	1.4652	6.20269	5.29736
10:39:51				257	9.67204	0.6653198	1.3784	1.41636	6.30037	5.28958
10:39:52				258	9.67398	0.6666042	1.4768	1.41636	6.25153	5.30023
10:39:52				259	9.67398	0.6661225	1.4768	1.41636	6.25153	5.29613
10:39:53				260	9.67204	0.6664436	1.3784	1.41636	6.10501	5.29916
10:39:53				261	9.67398	0.6666042	1.3784	1.41636	6.30037	5.30024
10:39:54				262	9.67495	0.6664436	1.4768	1.41636	6.20269	5.29872
10:39:54				263	9.67301	0.6664436	1.4768	1.41636	6.15385	5.29901
10:39:55				264	9.67495	0.6664436	1.4768	1.41636	6.15385	5.29872
10:39:55				265	9.67592	0.6664436	1.4768	1.41636	6.20269	5.29858
10:39:56				266	9.67398	0.6664436	1.4768	1.41636	6.10501	5.29886

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:56				267	9.67301	0.6666042	1.3784	1.41636	6.15385	5.30038
10:39:57				268	9.67398	0.6667648	1.3784	1.4652	6.25153	5.30161
10:39:57				269	9.67398	0.6666042	1.4768	1.41636	6.15385	5.30023
10:39:58				270	9.67398	0.6666042	1.5752	1.41636	6.10501	5.30022
10:39:58				271	9.67301	0.6666042	1.3784	1.41636	6.20269	5.30038
10:39:59				272	9.67301	0.6664436	1.2801	1.36752	6.25153	5.29902
10:39:59				273	9.67398	0.666283	1.4768	1.41636	6.34921	5.2975
10:40:00				274	9.67495	0.6661225	1.5752	1.41636	6.05617	5.29598
10:40:00				275	9.67495	0.6661225	1.4768	1.41636	6.20269	5.29599
10:40:01				276	9.67301	0.6649988	1.2801	1.41636	6.25153	5.28672
10:40:01				277	9.67495	0.6667648	1.3784	1.41636	6.34921	5.30147
10:40:02				278	9.67592	0.6656408	1.4768	1.36752	6.25153	5.29174
10:40:02				279	9.67495	0.6658014	1.4768	1.41636	6.30037	5.29325
10:40:03				280	9.67495	0.666283	1.3784	1.41636	6.25153	5.29736
10:40:03				281	9.67592	0.6648383	1.2801	1.41636	6.20269	5.28492
10:40:04				282	9.67592	0.6659619	1.3784	1.41636	6.20269	5.29449
10:40:04				283	9.67398	0.6658014	1.4768	1.41636	6.25153	5.29339
10:40:05				284	9.67495	0.6638757	1.4768	1.41636	6.25153	5.27685
10:40:05				285	9.67204	0.6653198	1.4768	1.41636	6.39805	5.28958
10:40:06				286	9.67495	0.6653198	1.4768	1.41636	6.30037	5.28915
10:40:06				287	9.67204	0.6653198	1.3784	1.41636	6.30037	5.28958
10:40:07				288	9.67204	0.6629136	1.4768	1.41636	6.39805	5.26908
10:40:07				289	9.67301	0.6625912	1.4768	1.41636	6.34921	5.2662
10:40:08				290	9.67204	0.6621103	1.4768	1.41636	6.34921	5.26224
10:40:08				291	9.67398	0.6542468	1.3784	1.41636	6.30037	5.19505
10:40:09				292	9.67204	0.6576169	1.4768	1.41636	6.25153	5.224
10:40:09				293	9.6701	0.6617898	1.4768	1.41636	6.34921	5.2598
10:40:10				294	9.67204	0.6614694	1.4768	1.41636	6.30037	5.25679
10:40:10				295	9.67107	0.6629136	1.4768	1.41636	6.25153	5.26923
10:40:11				296	9.67107	0.6624309	1.4768	1.41636	6.25153	5.26511
10:40:11				297	9.67204	0.6629136	1.4768	1.41636	6.34921	5.26908
10:40:12				298	9.67204	0.6625912	1.4768	1.41636	6.30037	5.26634
10:40:12				299	9.67301	0.6621103	1.3784	1.41636	6.30037	5.26211
10:40:13				300	9.67204	0.6589003	1.3784	1.41636	6.10501	5.23493
10:40:13				301	9.67398	0.6605065	1.4768	1.4652	6.34921	5.24831
10:40:14				302	9.67398	0.6597041	1.4768	1.36752	6.20269	5.24148
10:40:14				303	9.67592	0.6598642	1.3784	1.41636	6.30037	5.24257
10:40:15				304	9.67398	0.6645174	1.3784	1.41636	6.25153	5.28247
10:40:15				305	9.67398	0.6621103	1.4768	1.41636	6.34921	5.26196
10:40:16				306	9.67204	0.6622706	1.4768	1.4652	6.25153	5.26361
10:40:16				307	9.67398	0.6619501	1.3784	1.36752	6.34921	5.2606
10:40:17				308	9.67495	0.6629136	1.2801	1.41636	6.34921	5.26868
10:40:17				309	9.67204	0.6632343	1.4768	1.41636	6.39805	5.27181
10:40:18				310	9.6701	0.6625912	1.5752	1.41636	6.30037	5.26661
10:40:18				311	9.66719	0.663555	1.3784	1.41636	6.30037	5.27526

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:19				312	9.66719	0.6649988	1.2801	1.41636	6.34921	5.28757
10:40:19				313	9.66428	0.6651593	1.3784	1.41636	6.44689	5.28935
10:40:20				314	9.66331	0.6666042	1.4768	1.41636	6.30037	5.3018
10:40:20				315	9.66234	0.6661225	1.4768	1.4652	6.34921	5.29784
10:40:21				316	9.66137	0.6658014	1.3784	1.41636	6.05617	5.29525
10:40:21				317	9.66331	0.6633946	1.3784	1.41636	6.30037	5.27446
10:40:22				318	9.66234	0.664357	1.3784	1.41636	6.20269	5.2828
10:40:22				319	9.66137	0.663555	1.3784	1.41636	6.20269	5.27611
10:40:23				320	9.66331	0.6630739	1.4768	1.41636	6.34921	5.27172
10:40:23				321	9.66428	0.6646779	1.4768	1.41636	6.20269	5.28524
10:40:24				322	9.66428	0.6645174	1.4768	1.41636	6.34921	5.28388
10:40:24				323	9.66622	0.6664436	1.3784	1.41636	6.30037	5.30001
10:40:25				324	9.66525	0.6662831	1.3784	1.41636	6.44689	5.29879
10:40:25				325	9.66234	0.6654803	1.4768	1.4652	6.34921	5.29236
10:40:26				326	9.66525	0.6641966	1.4768	1.41636	6.34921	5.281
10:40:26				327	9.66622	0.6627533	1.3784	1.41636	6.25153	5.26858
10:40:27				328	9.66719	0.6571354	1.3784	1.41636	6.25153	5.22061
10:40:27				329	9.66622	0.6606667	1.4768	1.41636	6.25153	5.2508
10:40:28				330	9.66816	0.6611472	1.4768	1.41636	6.34921	5.25461
10:40:28				331	9.66622	0.6633946	1.4768	1.41636	6.25153	5.27403
10:40:29				332	9.66719	0.6637154	1.3784	1.41636	6.30037	5.27663
10:40:29				333	9.66622	0.6637154	1.3784	1.41636	6.44689	5.27677
10:40:30				334	9.66525	0.6638758	1.4768	1.41636	6.34921	5.27827
10:40:30				335	9.66428	0.6633946	1.4768	1.41636	6.25153	5.27431
10:40:31				336	9.66622	0.6632343	1.4768	1.41636	6.44689	5.27266
10:40:31				337	9.66719	0.6640362	1.3784	1.36752	6.30037	5.27936
10:40:32				338	9.66622	0.6629136	1.3784	1.41636	6.20269	5.26994
10:40:32				339	9.66525	0.6627533	1.4768	1.41636	6.25153	5.26871
10:40:33				340	9.66525	0.663555	1.4768	1.41636	6.30037	5.27554
10:40:33				341	9.66622	0.6645174	1.4768	1.41636	6.30037	5.28359
10:40:34				342	9.66331	0.6649988	1.3784	1.41636	6.25153	5.28813
10:40:34				343	9.66234	0.664357	1.3784	1.41636	6.30037	5.2828
10:40:35				344	9.66137	0.6648384	1.3784	1.41636	6.34921	5.28705
10:40:35				345	9.66137	0.6659619	1.4768	1.41636	6.30037	5.29661
10:40:36				346	9.65749	0.6654803	1.4768	1.41636	6.20269	5.29308
10:40:36				347	9.65943	0.6654803	1.3784	1.41636	6.25153	5.2928
10:40:37				348	9.6604	0.6661225	1.3784	1.41636	6.39805	5.29813
10:40:37				349	9.65943	0.6653198	1.4768	1.41636	6.15385	5.29142
10:40:38				350	9.6604	0.6653198	1.4768	1.41636	6.30037	5.29128
10:40:38				351	9.66137	0.6653198	1.4768	1.41636	6.30037	5.29114
10:40:39				352	9.65943	0.6755915	1.3784	1.36752	6.25153	5.37901
10:40:39				353	9.65652	0.6779975	1.3784	1.41636	6.34921	5.39998
10:40:40				354	9.65458	0.6720608	1.4768	1.4652	6.25153	5.34961
10:40:40				355	9.65258	0.6709359	1.4768	1.36752	6.30037	5.34031
10:40:41				356	9.65555	0.6645175	1.3784	1.41636	6.25153	5.28516

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:41				357	9.65846	0.664357	1.3784	1.41636	6.25153	5.28337
10:40:42				358	9.6604	0.6662831	1.4768	1.41636	6.30037	5.29949
10:40:42				359	9.65943	0.6659619	1.3784	1.41636	6.20269	5.2969
10:40:43				360	9.65943	0.6608268	1.3784	1.41636	6.34921	5.25316
10:40:43				361	9.66622	0.6621103	1.4768	1.41636	6.44689	5.26309
10:40:44				362	9.66525	0.6637154	1.4768	1.41636	6.25153	5.2769
10:40:44				363	9.66622	0.6617898	1.3784	1.41636	6.20269	5.26037
10:40:45				364	9.66525	0.6608268	1.3784	1.41636	6.34921	5.25231
10:40:46				367	9.66894	0.661788	1.4768	1.4652	6.39805	5.25995
10:40:47				368	9.66604	0.6630721	1.3784	1.41636	6.39805	5.27132
10:40:47				369	9.66701	0.6478286	1.2801	1.41636	6.30037	5.14149
10:40:48				370	9.66604	0.6645174	1.3784	1.4652	6.25153	5.28363
10:40:48				371	9.66119	0.6585803	1.6736	1.41636	6.34921	5.23375
10:40:49				372	9.66507	0.6526418	1.6736	1.36752	6.20269	5.18266
10:40:49				373	9.66216	0.6473475	1.2801	1.41636	6.34921	5.13809
10:40:50				374	9.66216	0.6500745	1.1817	1.4652	6.54457	5.16128
10:40:50				375	9.66119	0.6468648	1.0833	1.41636	6.44689	5.13414
10:40:51				376	9.66022	0.3725326	0.9849	1.36752	6.39805	2.84981
10:40:51				377	9.66216	0.6467057	0.6898	1.41636	19.6337	5.13268
10:40:52				378	9.65828	0.6465448	0.6898	1.4652	19.6337	5.13186
10:40:52				379	9.65052	0.6462231	0.6898	5.03053	10.50061	5.13023
10:40:53				380	9.64269	0.6465448	0.6898	3.22344	10.89133	5.13408
10:40:53				381	9.6359	0.6468648	0.6898	1.41636	2.49084	5.13777
10:40:54				382	9.63299	0.6489522	0.6898	1.41636	3.61416	5.15594
10:40:54				383	9.62911	0.6492725	0.5914	1.41636	3.663	5.15923
10:40:55				384	9.63105	0.6492725	0.5914	1.41636	2.6862	5.15895
10:40:55				385	9.63687	0.4258886	0.6898	1.41636	2.63736	3.28803
10:40:56				386	9.6456	0.64863	0.6898	1.41636	2.78388	5.1514
10:40:56				387	9.6544	0.4358244	0.6898	1.41636	2.78388	3.36814
10:40:57				388	9.66022	0.3714099	0.6898	1.41636	3.07692	2.8407
10:40:57				389	9.66894	0.6407685	0.6898	1.41636	3.51648	5.08128
10:40:58				390	9.67476	0.4084214	0.6898	1.41636	3.22344	3.14139
10:40:58				391	9.68058	0.6491113	0.6898	1.41636	3.12576	5.1505
10:40:59	switch off			392	9.68834	0.3650029	0.6898	1.41636	3.61416	2.78649
	start dye 10:45:00									
	10:46:33 saw dye @ sfc									
10:51:04	10:50:05 switch on	10.0	180	7	9.53145	0.5378328	1.4768	0	0	4.22945
10:51:05				8	9.52556	0.5392768	1.4768	0	0	4.24227
10:51:05				9	9.52653	0.5391159	1.4768	0	0	4.24081
10:51:06				10	9.52653	0.5370308	1.4768	0	0	4.22329
10:51:06				11	9.52459	0.5365488	1.4768	0	0	4.21947
10:51:07				12	9.52848	0.537672	1.4768	0	0	4.22845
10:51:07				13	9.52459	0.5363899	1.4768	0	0	4.21813
10:51:08				14	9.51584	0.5349464	1.4768	0	0	4.20703
10:51:08				15	9.51098	0.5371916	1.4768	0	0	4.22646

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:09				16	9.50806	0.5352658	1.4768	0	0	4.21062
10:51:09				17	9.51584	0.534144	1.4768	0	0	4.20029
10:51:10				18	9.51681	0.534144	1.4768	0	0	4.20017
10:51:10				19	9.51779	0.5371915	1.4768	0	0	4.22566
10:51:11				20	9.50904	0.5375113	1.4768	0	0	4.22938
10:51:11				21	9.51098	0.5351069	1.4768	0	0	4.20894
10:51:12				22	9.50806	0.5333419	1.5752	0	0	4.19445
10:51:12				23	9.50612	0.5354263	1.4768	0	0	4.2122
10:51:13				24	9.49931	0.5362293	1.4768	0	0	4.21974
10:51:13				25	9.4964	0.5355869	1.5752	0	0	4.21467
10:51:14				26	9.50126	0.5327006	1.4768	0	0	4.18986
10:51:14				27	9.50223	0.5338231	1.4768	0	0	4.19918
10:51:15				28	9.4964	0.5347859	1.4768	0	0	4.20795
10:51:15				29	9.49834	0.534144	1.4768	0	0	4.20233
10:51:16				30	9.49834	0.5335023	1.4768	0	0	4.19694
10:51:16				31	9.4964	0.5336627	1.4768	0	0	4.19851
10:51:17				32	9.4964	0.5330212	1.4768	0	0	4.19312
10:51:17				33	9.49737	0.5344649	1.4768	0	0	4.20514
10:51:18				34	9.4964	0.5354263	1.4768	0	0	4.21333
10:51:18				35	9.49737	0.5336627	1.4768	0	0	4.1984
10:51:19				36	9.4964	0.5320594	1.4768	0	0	4.18504
10:51:19				37	9.49737	0.5331816	1.4768	0	0	4.19435
10:51:20				38	9.49445	0.5344649	1.4768	0	0	4.20548
10:51:20				39	9.49348	0.5323799	1.4768	0	0	4.18807
10:51:21				40	9.49445	0.5312565	1.4768	0	0	4.17852
10:51:21				41	9.4964	0.5338232	1.4768	0	0	4.19986
10:51:22				42	9.49154	0.5331816	1.4768	0	0	4.19503
10:51:22				43	9.49056	0.5315787	1.4768	0	0	4.18168
10:51:23				44	9.49251	0.5330212	1.4768	0	0	4.19357
10:51:23				45	9.48959	0.5330212	1.4768	0	0	4.19391
10:51:24				46	9.49056	0.5320594	1.4768	0	0	4.18572
10:51:24				47	9.48765	0.5330212	1.3784	0	0	4.19415
10:51:25				48	9.4857	0.5335024	1.4768	0	0	4.19841
10:51:25				49	9.48959	0.5325403	1.4768	0	0	4.18987
10:51:26				50	9.49154	0.5322197	1.4768	0	0	4.18695
10:51:26				51	9.48765	0.5331816	1.4768	0	0	4.19549
10:51:27				52	9.48765	0.53238	1.4768	0	0	4.18875
10:51:27				53	9.4857	0.5335024	1.4768	0	0	4.19841
10:51:28				54	9.48862	0.5338232	1.4768	0	0	4.20077
10:51:28				55	9.48862	0.5327006	1.4768	0	0	4.19133
10:51:29				56	9.49056	0.5328609	1.4768	0	0	4.19245
10:51:29				57	9.48862	0.5338232	1.4768	0	0	4.20077
10:51:30				58	9.49154	0.5331816	1.4768	0	0	4.19503
10:51:30				59	9.49056	0.533342	1.4768	0	0	4.19649
10:51:31				60	9.48862	0.5336628	1.4768	0	0	4.19942

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:31				61	9.49056	0.533342	1.4768	0	0	4.19649
10:51:32				62	9.49056	0.5338232	1.4768	0	0	4.20054
10:51:32				63	9.49445	0.5339836	1.4768	0	0	4.20143
10:51:33				64	9.49154	0.5330212	1.4768	0	0	4.19369
10:51:33				65	9.49348	0.5328609	1.4768	0	0	4.19211
10:51:34				66	9.49056	0.5336627	1.4768	0	0	4.19919
10:51:34				67	9.49056	0.5335024	1.4768	0	0	4.19784
10:51:35				68	9.48959	0.5328609	1.4768	0	0	4.19256
10:51:35				69	9.49154	0.5327006	1.4768	0	0	4.19099
10:51:36				70	9.49154	0.5338232	1.4768	0	0	4.20043
10:51:36				71	9.49154	0.5338232	1.4768	0	0	4.20043
10:51:37				72	9.49056	0.5338232	1.4768	0	0	4.20054
10:51:37				73	9.49154	0.5336627	1.4768	0	0	4.19908
10:51:38				74	9.49154	0.5338232	1.4768	0	0	4.20043
10:51:38				75	9.49251	0.5338232	1.4768	0	0	4.20031
10:51:39				76	9.49445	0.534144	1.5752	0	0	4.20278
10:51:39				77	9.49445	0.5339836	1.5752	0	0	4.20143
10:51:40				78	9.49445	0.5346254	1.4768	0	0	4.20683
10:51:40				79	9.49348	0.5347859	1.4768	0	0	4.20829
10:51:41				80	9.4964	0.5344649	1.4768	0	0	4.20525
10:51:41				81	9.49737	0.5346254	1.4768	0	0	4.20649
10:51:42				82	9.49834	0.5354263	1.4768	0	0	4.2131
10:51:42				83	9.4964	0.5355869	1.4768	0	0	4.21468
10:51:43				84	9.49543	0.5349464	1.4768	0	0	4.20941
10:51:43				85	9.49056	0.5351069	1.4768	0	0	4.21133
10:51:44				86	9.48862	0.5352658	1.4768	0	0	4.21289
10:51:44				87	9.48959	0.5352658	1.4768	0	0	4.21278
10:51:45				88	9.49154	0.5351069	1.4768	0	0	4.21122
10:51:45				89	9.49056	0.5351069	1.4768	0	0	4.21133
10:51:46				90	9.48862	0.5344649	1.4768	0	0	4.20616
10:51:46				91	9.48959	0.5349464	1.4768	0	0	4.21009
10:51:47				92	9.48765	0.5349464	1.4768	0	0	4.21032
10:51:47				93	9.49056	0.5346254	1.4768	0	0	4.20728
10:51:48				94	9.48862	0.5339836	1.4768	0	0	4.20211
10:51:48				95	9.48862	0.5343045	1.4768	0	0	4.20481
10:51:49				96	9.49056	0.5328609	1.4768	0.53724	0.19536	4.19245
10:51:49				97	9.4857	0.5327006	1.4768	0.34188	0.09768	4.19167
10:51:50				98	9.49348	0.5325402	1.4768	1.41636	0.92796	4.18942
10:51:50				99	9.49348	0.5328609	1.4768	1.36752	7.91209	4.19211
10:51:51				100	9.49056	0.5360687	1.5752	1.41636	8.10745	4.21941
10:51:51				101	9.48959	0.5331816	1.4768	1.41636	8.20513	4.19526
10:51:52				102	9.48862	0.5330212	1.4768	1.41636	8.15629	4.19403
10:51:52				103	9.49154	0.5336627	1.4768	1.41636	8.20513	4.19908
10:51:53				104	9.49056	0.5335024	1.4768	1.41636	8.15629	4.19784
10:51:53				105	9.49251	0.5331816	1.4768	1.41636	8.20513	4.19492

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:54				106	9.49348	0.5327006	1.4768	1.36752	8.30281	4.19077
10:51:54				107	9.49348	0.5330212	1.5752	1.41636	8.20513	4.19345
10:51:55				108	9.49056	0.5328609	1.4768	1.41636	8.10745	4.19245
10:51:55				109	9.49056	0.5346254	1.4768	1.36752	8.05861	4.20728
10:51:56				110	9.49251	0.5351069	1.4768	1.4652	8.10745	4.2111
10:51:56				111	9.49348	0.5336627	1.4768	1.41636	8.10745	4.19885
10:51:57				112	9.49543	0.533342	1.4768	1.41636	8.30281	4.19593
10:51:57				113	9.49445	0.5354263	1.4768	1.41636	8.54701	4.21356
10:51:58				114	9.49348	0.5362293	1.4768	1.41636	8.54701	4.22042
10:51:58				115	9.49251	0.5339836	1.4768	1.41636	8.15629	4.20166
10:51:59				116	9.49543	0.5338231	1.3784	1.41636	8.10745	4.19998
10:51:59				117	9.4964	0.5357475	1.4768	1.36752	8.15629	4.21603
10:52:00				118	9.49543	0.5347859	1.4768	1.41636	8.25397	4.20806
10:52:00				119	9.49348	0.5349464	1.4768	1.41636	8.15629	4.20964
10:52:01				120	9.49348	0.5346254	1.4768	1.41636	8.25397	4.20694
10:52:01				121	9.49445	0.5365489	1.4768	1.41636	8.15629	4.223
10:52:02				122	9.49348	0.5349464	1.4768	1.41636	7.96093	4.20964
10:52:02				123	9.49543	0.539116	1.4768	1.41636	8.05861	4.24447
10:52:03				124	9.49348	0.5399171	1.4768	1.41636	8.40049	4.25143
10:52:04				127	9.50029	0.5414865	1.4768	1.41636	8.15629	4.26383
10:52:05				128	9.50223	0.5394022	1.4768	1.41636	8.20513	4.24607
10:52:05				129	9.50223	0.5387604	1.4768	1.41636	8.05861	4.24068
10:52:06				130	9.50029	0.537958	1.4768	1.41636	7.96093	4.23416
10:52:06				131	9.50223	0.5390821	1.4768	1.41636	8.25397	4.24338
10:52:07				132	9.50029	0.5387604	1.4768	1.41636	8.10745	4.2409
10:52:07				133	9.50029	0.5382796	1.4768	1.4652	8.15629	4.23686
10:52:08				134	9.50223	0.5376382	1.4768	1.41636	7.86325	4.23124
10:52:08				135	9.50126	0.5381188	1.4768	1.41636	8.00977	4.2354
10:52:09				136	9.50223	0.5385996	1.4768	1.41636	8.05861	4.23932
10:52:09				137	9.50223	0.537156	1.4768	1.41636	7.96093	4.22719
10:52:10				138	9.50515	0.5384404	1.4768	1.41636	8.05861	4.23764
10:52:10	10:51:15 off position			139	9.50515	0.5422886	1.4768	1.41636	8.15629	4.27
10:52:11				140	9.50612	0.5397223	1.4768	1.41636	8.00977	4.24831
10:52:11				141	9.50612	0.5389212	1.4768	1.41636	8.00977	4.24157
10:52:12				142	9.50515	0.5381188	1.4768	1.41636	8.15629	4.23494
10:52:12				143	9.50612	0.5382796	1.4768	1.41636	8.10745	4.23618
10:52:13				144	9.50515	0.5384404	1.4768	1.41636	7.96093	4.23764
10:52:13				145	9.50418	0.537958	1.4768	1.41636	8.00977	4.2337
10:52:14				146	9.50223	0.5382796	1.4768	1.41636	7.96093	4.23663
10:52:14				147	9.5032	0.536997	1.4768	1.41636	8.15629	4.22574
10:52:15				148	9.50223	0.5373168	1.4768	1.41636	8.05861	4.22854
10:52:15				149	9.50223	0.537156	1.4768	1.41636	8.05861	4.22719
10:52:16				150	9.5032	0.5363544	1.4768	1.41636	8.00977	4.22034
10:52:16				151	9.50029	0.5360348	1.3784	1.41636	8.10745	4.218
10:52:17				152	9.49931	0.5366757	1.3784	1.41636	8.10745	4.2235

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:17				153	9.50029	0.5355531	1.4768	1.41636	8.20513	4.21394
10:52:18				154	9.50029	0.5389212	1.4768	1.41636	8.30281	4.24226
10:52:18				155	9.50029	0.5373168	1.3784	1.41636	8.10745	4.22877
10:52:19				156	9.5032	0.5416476	1.3784	1.41636	8.05861	4.26485
10:52:19				157	9.50515	0.5483828	1.4768	1.41636	8.05861	4.32129
10:52:20				158	9.51487	0.5448551	1.4768	1.41636	8.15629	4.29044
10:52:20				159	9.51785	0.5448551	1.4768	1.41636	7.91209	4.29009
10:52:21				160	9.51687	0.5421292	1.3784	1.41636	8.00977	4.26728
10:52:21				161	9.5139	0.5437327	1.3784	1.41636	8.35165	4.28112
10:52:22				162	9.51293	0.5416476	1.4768	1.41636	8.20513	4.26369
10:52:22				163	9.51293	0.5408457	1.4768	1.36752	7.96093	4.25695
10:52:23				164	9.51195	0.5471002	1.4768	1.41636	7.96093	4.30968
10:52:23				165	9.51687	0.5504685	1.4768	1.41636	8.10745	4.33744
10:52:24				166	9.52368	0.5490245	1.5752	1.41636	8.10745	4.32446
10:52:24				167	9.52271	0.5495063	1.4768	1.41636	7.91209	4.32864
10:52:25				168	9.52757	0.5504685	1.4768	1.41636	7.96093	4.33616
10:52:25				169	9.52757	0.5546383	1.4768	1.4652	8.10745	4.37127
10:52:26				170	9.53048	0.5546383	1.4768	1.41636	7.86325	4.37091
10:52:26				171	9.53437	0.5580063	1.4768	1.41636	7.86325	4.39881
10:52:27				172	9.53728	0.5650639	1.4768	1.41636	8.00977	4.45794
10:52:27				173	9.53923	0.5462976	1.4768	1.41636	7.81441	4.29967
10:52:28				174	9.53631	0.5498264	1.4768	1.41636	7.81441	4.3297
10:52:28				175	9.53145	0.553836	1.4768	1.36752	7.81441	4.36404
10:52:29				176	9.53242	0.5560815	1.4768	1.36752	7.91209	4.38283
10:52:29				177	9.53242	0.5535152	1.4768	1.41636	7.61905	4.36122
10:52:30				178	9.53437	0.5610531	1.4768	1.41636	7.81441	4.42448
10:52:30				179	9.5402	0.5605717	1.4768	1.41636	7.86325	4.41971
10:52:31				180	9.53923	0.5552803	1.4768	1.41636	7.81441	4.37526
10:52:31				181	9.53242	0.5406846	1.3784	1.41636	7.81441	4.2533
10:52:32				182	9.52368	0.544534	1.1817	1.41636	7.86325	4.28671
10:52:32				183	9.51487	0.5523928	1.0833	1.4652	7.86325	4.35392
10:52:33				184	9.5334	0.5421291	1.0833	1.4652	7.81441	4.26535
10:52:33				185	9.52076	0.5341102	1.1817	1.41636	7.91209	4.19945
10:52:34				186	9.50904	0.541968	1.0833	1.41636	7.86325	4.26687
10:52:34				187	9.50709	0.5474216	1.1817	1.41636	7.86325	4.31299
10:52:35				188	9.5139	0.5443744	1.2801	1.41636	7.91209	4.28652
10:52:35				189	9.52173	0.5573651	1.2801	1.41636	7.96093	4.39496
10:52:36				190	9.55574	0.5658657	1.2801	1.41636	7.96093	4.46243
10:52:36				191	9.55963	0.5806232	1.1817	1.41636	7.71673	4.58648
10:52:37				192	9.57135	0.5769324	1.2801	1.41636	7.71673	4.55382
10:52:37				193	9.57135	0.5753286	1.2801	1.41636	7.52137	4.54029
10:52:38				194	9.57232	0.5742055	1.2801	1.41636	7.57021	4.53069
10:52:38				195	9.57329	0.5685929	1.2801	1.41636	7.52137	4.48324
10:52:39				196	9.5694	0.5692345	1.3784	1.41636	7.37485	4.48913
10:52:39				197	9.56649	0.5698745	1.3784	1.36752	7.57021	4.49489

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:40				198	9.56746	0.5655446	1.3784	1.41636	7.47253	4.45827
10:52:40				199	9.56254	0.5636191	1.4768	1.36752	7.47253	4.44264
10:52:41				200	9.55672	0.562016	1.4768	1.41636	7.42369	4.42985
10:52:41				201	9.55769	0.5616955	1.4768	1.36752	7.47253	4.42704
10:52:42				202	9.54894	0.5599313	1.4768	1.41636	7.52137	4.41325
10:52:42				203	9.54797	0.5564027	1.3784	1.36752	7.47253	4.38365
10:52:43				204	9.54506	0.5580063	1.3784	1.36752	7.57021	4.39751
10:52:43				205	9.54311	0.5596095	1.3784	1.36752	7.52137	4.41125
10:52:44				206	9.54117	0.5599313	1.3784	1.41636	7.57021	4.4142
10:52:44				207	9.54311	0.5687529	1.3784	1.36752	7.42369	4.48834
10:52:45				208	9.5538	0.5681115	1.3784	1.41636	7.61905	4.4816
10:52:45				209	9.55963	0.5663466	1.3784	1.36752	7.47253	4.466
10:52:46				210	9.55866	0.5684313	1.3784	1.41636	7.47253	4.48369
10:52:46				211	9.56254	0.5589677	1.3784	1.41636	7.47253	4.40347
10:52:47				212	9.56254	0.5544777	1.3784	1.41636	7.66789	4.36568
10:52:47				213	9.55477	0.5519119	1.2801	1.4652	7.61905	4.34504
10:52:48				214	9.55283	0.5604125	1.3784	1.41636	7.76557	4.41683
10:52:48				215	9.54311	0.5479012	1.3784	1.41636	7.81441	4.3127
10:52:49				216	9.53534	0.5480629	1.2801	1.41636	7.76557	4.315
10:52:49				217	9.53145	0.5512693	1.2801	1.41636	8.05861	4.34244
10:52:50				218	9.52951	0.5523928	1.2801	1.41636	7.81441	4.35214
10:52:50				219	9.52757	0.5469403	1.3784	1.41636	7.71673	4.30647
10:52:51				220	9.51687	0.5318653	1.3784	1.41636	7.91209	4.18104
10:52:51				221	9.50904	0.5629778	1.3784	1.41636	8.20513	4.44384
10:52:52				222	9.50806	0.5376382	1.4768	1.41636	8.15629	4.23056
10:52:52				223	9.51001	0.5416476	1.4768	1.41636	8.05861	4.26404
10:52:53				224	9.50904	0.5376382	1.4768	1.4652	8.10745	4.23044
10:52:53				225	9.50806	0.5394022	1.3784	1.41636	8.15629	4.24539
10:52:54				226	9.51293	0.5512694	1.3784	1.41636	8.05861	4.34467
10:52:54				227	9.53631	0.557365	1.3784	1.41636	7.81441	4.39318
10:52:55				228	9.54506	0.572442	1.3784	1.41636	7.76557	4.51923
10:52:55				229	9.56157	0.5737244	1.3784	1.41636	7.61905	4.52798
10:52:56				230	9.56746	0.5762918	1.4768	1.41636	7.47253	4.54889
10:52:56				231	9.5694	0.5745264	1.4768	1.41636	7.57021	4.53375
10:52:57				232	9.57037	0.5661868	1.3784	1.41636	7.42369	4.46332
10:52:57				233	9.56843	0.5669874	1.3784	1.41636	7.76557	4.47031
10:52:58				234	9.56254	0.5692345	1.3784	1.36752	7.76557	4.48998
10:52:58				235	9.56455	0.5676301	1.3784	1.41636	7.52137	4.47621
10:52:59				236	9.55769	0.5693945	1.3784	1.41636	7.57021	4.49194
10:52:59				237	9.5606	0.574366	1.3784	1.41636	7.71673	4.53351
10:53:00				238	9.56351	0.564422	1.4768	1.41636	7.42369	4.44929
10:53:00				239	9.5606	0.5621771	1.4768	1.41636	7.57021	4.43073
10:53:01				240	9.55186	0.5572043	1.4768	1.41636	7.61905	4.38992
10:53:01				241	9.54603	0.5634596	1.3784	1.4652	7.66789	4.44334
10:53:02				242	9.54797	0.5616955	1.4768	1.41636	7.66789	4.42823

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:02				243	9.55089	0.5551198	1.4768	1.41636	7.76557	4.37249
10:53:03				244	9.53923	0.5552803	1.4768	1.41636	7.66789	4.37526
10:53:04				247	9.50533	0.5373066	1.3784	1.36752	8.74237	4.2281
10:53:05				248	9.50241	0.5363442	1.3784	1.41636	8.25397	4.22035
10:53:05				249	9.50144	0.5358641	1.3784	1.41636	8.30281	4.21643
10:53:06				250	9.49561	0.5361836	1.3784	1.41636	8.05861	4.2198
10:53:06				251	9.49366	0.5357035	1.3784	1.41636	8.05861	4.21599
10:53:07				252	9.49075	0.5358641	1.3784	1.41636	8.15629	4.21768
10:53:07				253	9.49172	0.5352219	1.4768	1.41636	8.30281	4.21216
10:53:08				254	9.49172	0.5363443	1.4768	1.41636	8.35165	4.2216
10:53:08				255	9.49269	0.5361836	1.4768	1.41636	8.00977	4.22013
10:53:09				256	9.49269	0.5494944	1.4768	1.41636	8.10745	4.33215
10:53:09				257	9.49852	0.5514194	1.4768	1.41636	8.00977	4.34766
10:53:10				258	9.5063	0.551099	1.4768	1.36752	7.96093	4.34403
10:53:10	10:52:15 on position	10.0	180	259	9.51214	0.5483726	1.4768	1.41636	7.81441	4.32037
10:53:11				260	9.51116	0.5486926	1.4768	1.41636	7.86325	4.32318
10:53:11				261	9.50825	0.5501364	1.4768	1.41636	8.00977	4.33568
10:53:12				262	9.51116	0.5401933	1.5752	1.41636	8.20513	4.25166
10:53:12				263	9.51019	0.5469284	1.4768	1.41636	7.96093	4.30844
10:53:13				264	9.51019	0.5456468	1.5752	1.41636	7.91209	4.29765
10:53:13				265	9.51214	0.5443626	1.4768	1.41636	8.05861	4.28662
10:53:14				266	9.50727	0.5496561	1.4768	1.41636	8.05861	4.33176
10:53:14				267	9.50727	0.5472498	1.4768	1.36752	7.81441	4.3115
10:53:15				268	9.50533	0.5461277	1.5752	1.41636	7.96093	4.30228
10:53:15				269	9.5063	0.5450046	1.4768	1.41636	7.96093	4.29272
10:53:16				270	9.5063	0.5435612	1.4768	1.41636	8.15629	4.28057
10:53:16				271	9.50339	0.5437208	1.4768	1.41636	8.05861	4.28226
10:53:17				272	9.4995	0.5448449	1.4768	1.41636	7.91209	4.29218
10:53:17				273	9.50339	0.5440417	1.4768	1.41636	7.96093	4.28496
10:53:18				274	9.50339	0.5430793	1.4768	1.41636	8.05861	4.27686
10:53:18				275	9.49755	0.5409949	1.4768	1.36752	8.00977	4.26002
10:53:19				276	9.4995	0.5446836	1.4768	1.41636	8.15629	4.29083
10:53:19				277	9.50047	0.5443626	1.4768	1.41636	8.15629	4.28801
10:53:20				278	9.50241	0.5413153	1.4768	1.41636	7.96093	4.26214
10:53:20				279	9.50047	0.5403542	1.4768	1.4652	8.00977	4.25429
10:53:21				280	9.4995	0.5400323	1.4768	1.41636	8.05861	4.25169
10:53:21				281	9.49755	0.5430793	1.4768	1.41636	8.05861	4.27756
10:53:22				282	9.49755	0.54709	1.4768	1.41636	8.15629	4.31132
10:53:22				283	9.49755	0.5397121	1.5752	1.41636	7.96093	4.24922
10:53:23				284	9.4995	0.5498162	1.5752	1.41636	7.86325	4.33403
10:53:23				285	9.50727	0.5549474	1.4768	1.41636	7.86325	4.37633
10:53:24				286	9.51997	0.5552684	1.4768	1.4652	8.05861	4.37749
10:53:24				287	9.51797	0.5543071	1.5752	1.41636	7.91209	4.36963
10:53:25				288	9.51894	0.5493343	1.5752	1.41636	7.96093	4.32764
10:53:25				289	9.50825	0.5361836	1.4768	1.41636	8.00977	4.21831

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:26				290	9.50047	0.5385894	1.1817	1.41636	7.96093	4.23946
10:53:26				291	9.49755	0.532817	0.9849	1.41636	8.05861	4.1913
10:53:27				292	9.49366	0.532817	0.7881	1.41636	9.27961	4.19177
10:53:27				293	9.49464	0.5297698	0.6898	1.4652	9.81685	4.16606
10:53:28				294	9.49366	0.054094	0.6898	1.41636	14.11477	0.37765
10:53:28				295	9.48977	0.0480209	0.6898	1.36752	4.83516	0.33384
10:53:29				296	9.48491	0.4547377	0.6898	0	0	3.54066
10:53:29				297	9.48102	0.4991439	0.5914	0	0	3.91096
10:53:30				298	9.4781	0.131789	0.5914	0	0	0.9564
10:53:30	10:52:40 switch off			299	9.4781	0.0678384	0.6898	0	0	0.47798
	10:54:00 stopped dye									
	11:25:00 dye restart									
11:31:46	11:30:45 switch on	10.0	210	7	8.81176	0.4448373	0.9849	0	0	3.52412
11:31:47				8	8.82158	0.4435559	1.0833	0	0	3.51233
11:31:47				9	8.82845	0.4453176	1.1817	0	0	3.52651
11:31:48				10	8.82256	0.4441965	1.1817	0	0	3.51763
11:31:48				11	8.82944	0.4417912	1.1817	0	0	3.49667
11:31:49				12	8.83637	0.4457997	1.1817	0	0	3.52979
11:31:49				13	8.82845	0.4427535	1.1817	0	0	3.50488
11:31:50				14	8.8314	0.4406691	1.1817	0	0	3.48701
11:31:50				15	8.82354	0.4441965	1.2801	0	0	3.51753
11:31:51				16	8.82747	0.4432349	1.2801	0	0	3.50903
11:31:51				17	8.8314	0.4427535	1.2801	0	0	3.50458
11:31:52				18	8.83539	0.4441965	1.2801	0	0	3.51636
11:31:52				19	8.82158	0.4454783	1.2801	0	0	3.52854
11:31:53				20	8.82944	0.4449979	1.2801	0	0	3.52371
11:31:53				21	8.83539	0.4440359	1.2801	0	0	3.51501
11:31:54				22	8.83637	0.4435559	1.2801	0	0	3.51086
11:31:54				23	8.83441	0.4438753	1.2801	0	0	3.51375
11:31:55				24	8.84226	0.4464412	1.2801	0	0	3.53461
11:31:55				25	8.84717	0.445639	1.2801	0	0	3.52736
11:31:56				26	8.84521	0.4467612	1.2801	0	0	3.53702
11:31:56				27	8.85601	0.4472421	1.2801	0	0	3.54001
11:31:57				28	8.86582	0.4475622	1.2801	0	0	3.54173
11:31:57				29	8.87073	0.4480433	1.2801	0	0	3.5453
11:31:58				30	8.87373	0.448845	1.2801	0	0	3.55176
11:31:58				31	8.86975	0.4491654	1.2801	0	0	3.55486
11:31:59				32	8.86778	0.4493265	1.2801	0	0	3.55642
11:31:59				33	8.8757	0.4507686	1.2801	0	0	3.56779
11:32:00				34	8.89826	0.4493264	1.2801	0	0	3.55338
11:32:00				35	8.90611	0.4518908	1.2801	0	0	3.57421
11:32:01				36	8.88943	0.4547758	1.2801	0	0	3.60021
11:32:01				37	8.88649	0.4525314	1.2801	0	0	3.58158
11:32:02				38	8.88649	0.4520506	1.2801	0	0	3.57752
11:32:02				39	8.88845	0.4536548	1.2801	0	0	3.59086

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:03				40	8.88551	0.4534934	1.2801	0	0	3.58979
11:32:03				41	8.88943	0.4531737	1.2801	0	0	3.5867
11:32:04				42	8.89728	0.4526927	1.2801	0	0	3.58185
11:32:04				43	8.90023	0.4534933	1.2801	0	0	3.58831
11:32:05				44	8.90219	0.4539745	1.2801	0	0	3.59217
11:32:05				45	8.90317	0.4533335	1.2801	0	0	3.58667
11:32:06				46	8.90023	0.4539745	1.2801	0	0	3.59237
11:32:06				47	8.88649	0.4534933	1.2801	0	0	3.58969
11:32:07				48	8.88845	0.4539745	1.1817	0	0	3.59356
11:32:07				49	8.88943	0.4539745	1.2801	0	0	3.59345
11:32:08				50	8.88453	0.4541344	1.2801	0	0	3.5953
11:32:08				51	8.88551	0.454296	1.2801	0	0	3.59656
11:32:09				52	8.86484	0.4515699	1.2801	0	0	3.57564
11:32:09				53	8.87073	0.4526927	1.2801	0	0	3.58452
11:32:10				54	8.92775	0.4528524	1.2801	0	0	3.58014
11:32:10				55	8.90905	0.4560591	1.2801	0	0	3.60906
11:32:11				56	8.88747	0.4494859	1.1817	0	0	3.5558
11:32:11				57	8.87864	0.4515699	1.1817	0	0	3.57426
11:32:12				58	8.88551	0.4531737	1.2801	0	0	3.58709
11:32:12				59	8.88158	0.4522119	1.2801	0	0	3.57937
11:32:13				60	8.8914	0.4526927	1.2801	0	0	3.58244
11:32:13				61	8.89434	0.4534933	1.2801	0	0	3.5889
11:32:14				62	8.91402	0.4536548	1.2801	0	0	3.58828
11:32:14				63	8.93755	0.4538146	1.2801	0	0	3.58727
11:32:15				64	8.93265	0.4544558	1.2801	0	0	3.59316
11:32:15				65	8.915	0.4554173	1.2801	0	0	3.60304
11:32:16				66	8.90807	0.4550973	1.2801	0	0	3.60105
11:32:16				67	8.95918	0.4550972	1.2801	0	0	3.5959
11:32:17				68	8.92873	0.4586239	1.2801	0	0	3.6287
11:32:17				69	8.91402	0.4557374	1.2801	0	0	3.60584
11:32:18				70	8.94932	0.4560591	1.2801	0	0	3.60499
11:32:18				71	8.94932	0.45718	1.2801	0	0	3.61444
11:32:19				72	8.92481	0.4547757	1.2801	0	0	3.59665
11:32:19				73	8.90807	0.4550973	1.2801	0	0	3.60105
11:32:20				74	8.92285	0.4566995	1.2801	0	0	3.61306
11:32:20				75	8.91696	0.4554173	1.2801	0	0	3.60285
11:32:21				76	8.90611	0.4552573	1.2801	0	0	3.60259
11:32:21				77	8.89434	0.4566996	1.2801	0	0	3.61595
11:32:22				78	8.92971	0.4566995	1.2801	0	0	3.61237
11:32:22				79	8.92775	0.4576622	1.2801	0	0	3.62069
11:32:23				80	8.93167	0.458143	1.2801	0	0	3.62434
11:32:23				81	8.94638	0.457502	1.2801	0	0	3.61745
11:32:24				82	8.94148	0.459586	1.2801	0	0	3.63551
11:32:24				83	8.94834	0.4587842	1.2801	0	0	3.62805
11:32:25				84	8.95232	0.4573418	1.2801	0	0	3.6155

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:25				85	8.93853	0.4600657	1.2801	0	0	3.63986
11:32:26				86	8.93363	0.4597465	1.2801	0	0	3.63766
11:32:26				87	8.92579	0.4584636	1.2801	0	0	3.62764
11:32:27				88	8.91892	0.4589446	1.2801	0	0	3.6324
11:32:27				89	8.91206	0.4589446	1.2801	0	0	3.6331
11:32:28				90	8.90807	0.4587842	1.2801	0	0	3.63215
11:32:28				91	8.89238	0.4583033	1.2801	0	0	3.62969
11:32:29				92	8.88551	0.4583033	1.2801	0	0	3.63038
11:32:29				93	8.86877	0.4549358	1.2801	0	0	3.60365
11:32:30				94	8.86189	0.4565395	1.2801	0	0	3.61789
11:32:30				95	8.85895	0.4539746	1.2801	0	0	3.59653
11:32:31				96	8.85306	0.4493265	1.2801	0.53724	0.19536	3.55788
11:32:31				97	8.8511	0.4526928	1.2801	0.34188	0.04884	3.58649
11:32:32				98	8.85601	0.4581431	1.2801	1.41636	3.1746	3.63203
11:32:32				99	8.85993	0.4533336	1.2801	1.41636	10.10989	3.59101
11:32:33				100	8.87275	0.4530123	1.2801	1.41636	10.06105	3.58701
11:32:33				101	8.85797	0.4522119	1.2801	1.41636	10.01221	3.58174
11:32:34				102	8.85993	0.4523717	1.2801	1.41636	9.67033	3.5829
11:32:34				103	8.86877	0.4708072	1.2801	1.36752	9.71917	3.73783
11:32:35				104	8.89826	0.4666389	1.2801	1.4652	10.54945	3.69949
11:32:35				105	8.93461	0.4568597	1.2801	1.41636	10.01221	3.61322
11:32:36				106	8.90905	0.4570199	1.2801	1.41636	9.86569	3.61716
11:32:36				107	8.91402	0.4647154	1.2801	1.4652	10.10989	3.68161
11:32:37				108	8.93853	0.4608682	1.2801	1.41636	10.64713	3.64662
11:32:37				109	8.94049	0.4599053	1.2801	1.41636	9.57265	3.6383
11:32:38				110	8.93167	0.4579827	1.2801	1.41636	9.86569	3.62299
11:32:38				111	8.93657	0.4570198	1.2801	1.41636	9.86569	3.61438
11:32:39				112	8.93461	0.4573418	1.2801	1.41636	9.32845	3.61729
11:32:39				113	8.93265	0.4592653	1.2801	1.41636	10.06105	3.63371
11:32:40				114	8.93167	0.4573418	1.2801	1.41636	9.91453	3.61759
11:32:40				115	8.92775	0.457502	1.2801	1.41636	9.91453	3.61933
11:32:41				116	8.91892	0.4603867	1.2801	1.41636	9.91453	3.64456
11:32:41				117	8.92481	0.4570198	1.1817	1.41636	10.01221	3.61557
11:32:42				118	8.91794	0.4576623	1.2801	1.41636	9.76801	3.62168
11:32:42				119	8.91206	0.4611893	1.2801	1.41636	9.76801	3.65204
11:32:43				120	8.92481	0.4597465	1.2801	1.41636	10.06105	3.63856
11:32:43				121	8.93265	0.4568597	1.2801	1.36752	9.52381	3.61342
11:32:44				122	8.91794	0.4568597	1.2801	1.41636	10.06105	3.61491
11:32:44				123	8.91892	0.4651965	1.2801	1.41636	10.10989	3.68517
11:32:45				124	8.93461	0.4589445	1.2801	1.41636	10.01221	3.6308
11:32:46				127	8.93185	0.4622762	1.2801	1.4652	10.30525	3.65919
11:32:47				128	8.93878	0.4603526	1.2801	1.41636	9.96337	3.64225
11:32:47				129	8.93382	0.460993	1.2801	1.41636	9.57265	3.64816
11:32:48				130	8.9378	0.4637194	1.2801	1.41636	9.67033	3.67076
11:32:48				131	8.94564	0.4598712	1.2801	1.41636	10.35409	3.63749

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:49				132	8.95152	0.4565054	1.2801	1.41636	9.62149	3.60853
11:32:49				133	8.94172	0.4590692	1.2801	1.41636	9.57265	3.63113
11:32:50				134	8.94564	0.4642002	1.2801	1.36752	9.96337	3.67401
11:32:50				135	8.9623	0.4616352	1.2801	1.41636	9.67033	3.65067
11:32:51				136	8.95152	0.4658028	1.2801	1.41636	9.91453	3.68692
11:32:51				137	8.97112	0.4872848	1.2801	1.41636	9.81685	3.86641
11:32:52				138	8.99764	0.4670846	1.2801	1.41636	9.47497	3.69297
11:32:52				139	8.97707	0.4640394	1.2801	1.4652	9.67033	3.66942
11:32:53				140	8.97805	0.4911326	1.2801	1.41636	9.76801	3.89823
11:32:53				141	9.05253	0.4746189	1.2801	1.41636	9.86569	3.75076
11:32:54				142	9.0447	0.4702917	1.2801	1.41636	9.42613	3.71512
11:32:54				143	9.00156	0.4667641	1.2801	1.41636	9.62149	3.68987
11:32:55				144	9.00548	0.4802305	1.2801	1.41636	10.25641	3.80307
11:32:55				145	9.031	0.4741385	1.2801	1.41636	9.96337	3.74897
11:32:56				146	9.0261	0.4712522	1.2801	1.41636	9.62149	3.72515
11:32:56				147	8.99078	0.4744589	1.2801	1.4652	9.62149	3.75589
11:32:57				148	9.00645	0.4786277	1.2801	1.4652	9.71917	3.78943
11:32:57				149	9.02121	0.4744588	1.2801	1.4652	9.37729	3.7527
11:32:58				150	9.03198	0.4791077	1.2801	1.41636	9.57265	3.79078
11:32:58				151	9.03589	0.4773455	1.2801	1.4652	9.62149	3.7755
11:32:59				152	9.04862	0.4710923	1.2801	1.4652	9.57265	3.72146
11:32:59				153	9.0261	0.4730164	1.2801	1.41636	9.42613	3.74002
11:33:00				154	9.03198	0.4797501	1.2801	1.4652	9.57265	3.7962
11:33:00				155	9.04764	0.4741385	1.2801	1.41636	9.81685	3.74723
11:33:01				156	9.01429	0.4840778	1.2801	1.41636	9.67033	3.83464
11:33:01				157	9.06336	0.4819938	1.2801	1.41636	10.06105	3.8118
11:33:02				158	9.08391	0.4678869	1.2801	1.4652	9.81685	3.69082
11:33:02				159	8.9947	0.463237	1.2801	1.41636	9.76801	3.66085
11:33:03				160	8.9996	0.4819939	1.2801	1.4652	10.10989	3.8186
11:33:03				161	9.05449	0.4754216	1.2801	1.41636	9.91453	3.75732
11:33:04				162	9.00058	0.4662842	1.2801	1.4652	9.32845	3.68592
11:33:04				163	8.98882	0.476223	1.2801	1.4652	9.57265	3.77099
11:33:05				164	9.01429	0.4739784	1.2801	1.4652	10.06105	3.74937
11:33:05				165	9.031	0.4715736	1.2801	1.41636	9.42613	3.72735
11:33:06				166	8.99568	0.4698109	1.2801	1.41636	9.57265	3.71616
11:33:06				167	8.9996	0.4717335	1.2801	1.41636	9.76801	3.73197
11:33:07				168	9.00743	0.4699706	1.2801	1.41636	10.45177	3.71629
11:33:07				169	8.9996	0.468527	1.2801	1.41636	10.01221	3.70493
11:33:08				170	8.98588	0.468527	1.2801	1.41636	9.86569	3.70635
11:33:08				171	8.96819	0.4688479	1.2801	1.41636	9.76801	3.71089
11:33:09				172	8.95642	0.4648404	1.2801	1.41636	9.47497	3.6783
11:33:09				173	8.97014	0.4654825	1.2801	1.41636	10.74481	3.6823
11:33:10				174	8.96819	0.4638786	1.2801	1.41636	9.62149	3.66898
11:33:10				175	8.9525	0.467726	1.2801	1.41636	9.52381	3.70305
11:33:11				176	8.9623	0.4653216	1.2801	1.41636	9.91453	3.68175

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:11				177	8.96623	0.4659622	1.2801	1.41636	9.76801	3.68675
11:33:12				178	8.96328	0.4654825	1.2801	1.36752	9.62149	3.68301
11:33:12				179	8.96525	0.4650013	1.2801	1.41636	9.57265	3.67875
11:33:13				180	8.96034	0.4629173	1.2801	1.41636	9.71917	3.66167
11:33:13				181	8.95348	0.4635586	1.2801	1.41636	9.67033	3.66779
11:33:14				182	8.9574	0.4704516	1.2801	1.41636	9.52381	3.72555
11:33:14				183	8.97504	0.4667641	1.2801	1.41636	9.52381	3.6926
11:33:15				184	8.97504	0.4637194	1.2801	1.41636	9.67033	3.66693
11:33:15				185	8.9623	0.4675664	1.2801	1.41636	9.52381	3.70069
11:33:16				186	8.9721	0.4722149	1.2801	1.41636	9.81685	3.73891
11:33:16				187	8.98784	0.4630779	1.2801	1.41636	9.71917	3.66021
11:33:17				188	8.94858	0.458109	1.2801	1.4652	9.57265	3.62234
11:33:17				189	8.94074	0.4779858	1.2801	1.41636	9.62149	3.79098
11:33:18				190	8.98784	0.4640394	1.2801	1.41636	9.62149	3.66831
11:33:18				191	8.9525	0.4608325	1.2801	1.41636	9.47497	3.6449
11:33:19				192	8.93878	0.4739786	1.2801	1.4652	9.81685	3.7573
11:33:19				193	8.9476	0.4669252	1.2801	1.41636	9.91453	3.6968
11:33:20				194	8.95348	0.4635586	1.2801	1.41636	9.71917	3.66779
11:33:20				195	8.92989	0.4568257	1.2801	1.41636	9.81685	3.61341
11:33:21				196	8.93976	0.4731766	1.2801	1.41636	10.10989	3.75042
11:33:21				197	8.98196	0.4621155	1.2801	1.41636	9.57265	3.6527
11:33:22				198	8.9574	0.4621155	1.2801	1.41636	9.52381	3.65521
11:33:22				199	8.95054	0.4635586	1.2801	1.41636	10.01221	3.66809
11:33:23				200	8.96034	0.4653216	1.2801	1.41636	9.86569	3.68195
11:33:23				201	8.96426	0.4611535	1.2801	1.41636	9.86569	3.6464
11:33:24				202	8.9525	0.4606736	1.2801	1.41636	9.62149	3.64356
11:33:24				203	8.93486	0.4608325	1.2801	1.41636	9.67033	3.6467
11:33:25				204	8.92989	0.4577869	1.2801	1.41636	10.50061	3.62152
11:33:25				205	8.91224	0.45939	1.2801	1.41636	9.62149	3.63684
11:33:26				206	8.91322	0.4595504	1.2801	1.36752	9.71917	3.63809
11:33:26				207	8.92205	0.4577869	1.2801	1.41636	9.91453	3.62231
11:33:27				208	8.91126	0.4576267	1.2801	1.41636	9.52381	3.62206
11:33:27				209	8.90538	0.451536	1.2801	1.41636	9.57265	3.57129
11:33:28				210	8.88864	0.4539406	1.2801	1.41636	9.62149	3.59325
11:33:28				211	8.89262	0.4606737	1.2801	1.41636	9.86569	3.64967
11:33:29				212	8.90047	0.4542604	1.2801	1.41636	10.01221	3.59475
11:33:29				213	8.88864	0.4531398	1.2801	1.41636	9.67033	3.58649
11:33:30				214	8.87882	0.4507347	1.2801	1.41636	9.76801	3.56719
11:33:30				215	8.87981	0.450414	1.2801	1.36752	10.01221	3.56439
11:33:31				216	8.86999	0.4505752	1.2801	1.41636	9.81685	3.56673
11:33:31				217	8.86901	0.4491316	1.2801	1.41636	9.62149	3.55465
11:33:32				218	8.8592	0.4526589	1.2801	1.41636	10.06105	3.58539
11:33:32				219	8.86214	0.4516973	1.2801	1.41636	9.81685	3.57698
11:33:33				220	8.87392	0.4524975	1.2801	1.4652	10.50061	3.58255
11:33:33				221	8.87196	0.4508959	1.2801	1.41636	9.91453	3.56924

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:34				222	8.85821	0.4500933	1.2801	1.41636	9.57265	3.56384
11:33:34				223	8.86508	0.4566657	1.2801	1.41636	9.86569	3.61863
11:33:35				224	8.8749	0.4537808	1.2801	1.41636	9.96337	3.59328
11:33:35				225	8.86312	0.4512152	1.2801	1.41636	9.62149	3.57282
11:33:36				226	8.86607	0.4499338	1.2801	1.41636	9.86569	3.56171
11:33:36				227	8.86508	0.4502545	1.2801	1.4652	10.15873	3.56451
11:33:37				228	8.86018	0.4614748	1.2801	1.41636	9.91453	3.65977
11:33:37				229	8.8592	0.4492927	1.2801	1.41636	11.13553	3.55699
11:33:38				230	8.84932	0.4476893	1.2801	1.41636	9.86569	3.54444
11:33:38				231	8.84146	0.4520167	1.2801	1.36752	10.06105	3.58175
11:33:39				232	8.85134	0.4492927	1.2801	1.41636	10.54945	3.55777
11:33:39				233	8.84637	0.4638788	1.2801	1.41636	9.96337	3.68152
11:33:40				234	8.87196	0.4512152	1.2801	1.41636	10.30525	3.57193
11:33:40				235	8.86607	0.4515361	1.2801	1.41636	9.57265	3.57523
11:33:41				236	8.85821	0.452178	1.2801	1.41636	9.76801	3.58143
11:33:41				237	8.8641	0.4510556	1.2801	1.41636	9.81685	3.57137
11:33:42				238	8.86214	0.4576267	1.2801	1.36752	9.08425	3.62705
11:33:42				239	8.87294	0.457787	1.2801	1.41636	9.81685	3.6273
11:33:43				240	8.88177	0.4531398	1.2801	1.41636	9.42613	3.58718
11:33:43				241	8.87686	0.4513764	1.3784	1.41636	9.62149	3.57279
11:33:44				242	8.86214	0.4488112	1.2801	1.41636	10.20757	3.55263
11:33:44				243	8.85527	0.4494521	1.2801	1.41636	9.67033	3.55872
11:33:45				244	8.85625	0.454422	1.2801	1.41636	9.86569	3.60058
11:33:46				247	8.8349	0.4605003	1.2801	1.41636	9.91453	3.65412
11:33:47				248	8.83981	0.447839	1.2801	1.41636	9.91453	3.54665
11:33:47				249	8.83784	0.4479983	1.2801	1.41636	9.52381	3.54819
11:33:48				250	8.8349	0.4563341	1.1817	1.41636	9.67033	3.6189
11:33:48				251	8.8595	0.4548905	1.2801	1.41636	10.20757	3.6042
11:33:49				252	8.87913	0.4526476	1.3784	1.41636	9.42613	3.58329
11:33:49				253	8.8595	0.4513651	1.2801	1.41636	9.57265	3.57444
11:33:50				254	8.86539	0.4568145	1.2801	1.41636	9.81685	3.61986
11:33:50				255	8.86834	0.4561724	1.2801	1.41636	9.91453	3.61413
11:33:51				256	8.87619	0.4505639	1.2801	1.41636	9.71917	3.56601
11:33:51				257	8.87226	0.4475171	1.2801	1.36752	9.76801	3.54071
11:33:52				258	8.8457	0.4420686	1.2801	1.41636	9.76801	3.4974
11:33:52				259	8.82508	0.4427102	1.2801	1.4652	9.86569	3.50484
11:33:53				260	8.82115	0.4379008	1.2801	1.41636	9.71917	3.46467
11:33:53				261	8.80635	0.4401452	1.1817	1.41636	9.91453	3.48505
11:33:54				262	8.80439	0.462424	1.1817	1.36752	10.45177	3.67354
11:33:54				263	8.89587	0.4526475	1.2801	1.41636	10.59829	3.58161
11:33:55				264	8.89882	0.4561723	1.3784	1.41636	9.67033	3.61104
11:33:55				265	8.87521	0.4558522	1.2801	1.4652	9.71917	3.61074
11:33:56				266	8.87815	0.453608	1.2801	1.41636	9.91453	3.5915
11:33:56				267	8.87128	0.4510443	1.2801	1.41636	10.06105	3.57056
11:33:57				268	8.85754	0.4467161	1.2801	1.41636	9.86569	3.53542

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:57				269	8.84766	0.4467161	1.2801	1.41636	9.71917	3.5364
11:33:58				270	8.82999	0.4462354	1.2801	1.41636	9.91453	3.5341
11:33:58				271	8.8241	0.4529672	1.2801	1.41636	9.96337	3.59153
11:33:59				272	8.82999	0.4463962	1.2801	1.41636	9.86569	3.53545
11:33:59				273	8.83392	0.4447923	1.2801	1.41636	10.01221	3.52153
11:34:00				274	8.82311	0.4411066	1.2801	1.41636	9.91453	3.49151
11:34:00				275	8.80046	0.4447923	1.1817	1.41636	9.96337	3.52484
11:34:01				276	8.81231	0.4576155	1.2801	1.41636	10.35409	3.63202
11:34:01				277	8.84177	0.4473579	1.3784	1.41636	10.30525	3.54239
11:34:02				278	8.83293	0.4470362	1.3784	1.36752	9.81685	3.54056
11:34:02				279	8.83981	0.448961	1.2801	1.41636	9.71917	3.55612
11:34:03				280	8.85061	0.4430295	1.2801	1.41636	9.62149	3.50502
11:34:03				281	8.83392	0.4407861	1.2801	1.41636	9.52381	3.48775
11:34:04				282	8.81526	0.4396647	1.1817	1.41636	10.15873	3.48012
11:34:04				283	8.80144	0.447358	1.2801	1.36752	10.50061	3.54641
11:34:05				284	8.81133	0.4401452	1.3784	1.41636	9.91453	3.48455
11:34:05				285	8.80341	0.4370996	1.2801	1.41636	9.76801	3.45964
11:34:06				286	8.7867	0.4342159	1.1817	1.41636	9.86569	3.43695
11:34:06				287	8.77295	0.4409464	1.0833	1.4652	9.81685	3.49509
11:34:07				288	8.7867	0.4447924	1.2801	1.41636	10.30525	3.5262
11:34:07				289	8.81034	0.4446333	1.3784	1.41636	9.96337	3.52251
11:34:08				290	8.80144	0.4415876	1.3784	1.41636	9.76801	3.49768
11:34:08				291	8.80242	0.4390227	1.2801	1.41636	9.86569	3.47596
11:34:09				292	8.79751	0.4367798	1.2801	1.41636	9.96337	3.45752
11:34:09				293	8.7867	0.4398249	1.2801	1.41636	9.96337	3.48426
11:34:10				294	8.78769	0.4395046	1.2801	1.41636	9.52381	3.48146
11:34:10				295	8.79751	0.4361388	1.2801	1.41636	9.67033	3.45211
11:34:11				296	8.79162	0.4346964	1.2801	1.41636	9.96337	3.44052
11:34:11				297	8.77884	0.4340547	1.2801	1.41636	9.91453	3.43635
11:34:12				298	8.77295	0.4343755	1.1817	1.41636	9.86569	3.43963
11:34:12				299	8.77491	0.4387026	1.2801	1.41636	10.30525	3.47594
11:34:13				300	8.77491	0.4379009	1.2801	1.4652	10.35409	3.46917
11:34:13				301	8.77589	0.4354982	1.2801	1.41636	10.15873	3.44881
11:34:14				302	8.78277	0.4370996	1.2801	1.36752	9.96337	3.46165
11:34:14				303	8.78277	0.4361389	1.2801	1.41636	10.40293	3.45354
11:34:15				304	8.78179	0.4348561	1.2801	1.41636	10.10989	3.44282
11:34:15				305	8.77	0.4340547	1.0833	1.4652	9.86569	3.43721
11:34:16				306	8.77196	0.4302093	0.9849	1.41636	9.96337	3.40461
11:34:16				307	8.77196	0.4334131	0.8865	1.36752	9.96337	3.43162
11:34:17				308	8.77589	0.4335743	0.6898	1.41636	19.68254	3.43261
11:34:17				309	8.7867	0.0993248	0.5914	1.4652	21.73382	0.725
11:34:18				310	8.79849	0.2068092	0.5914	1.4652	4.24908	1.56539
11:34:18				311	8.81231	0.431651	0.6898	0	0	3.41291
11:34:19				312	8.82901	0.4340546	0.5914	0	0	3.43155
11:34:19				313	8.84962	0.4342158	0.6898	0	0	3.43092

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:20	11:33:30 switch off	10.0	210	314	8.87128	0.2117694	0.5914	0	0	1.60177
11:39:00	11:38:03 switch on	10.0	240	7	8.8031	0.4307189	1.1817	0	0	3.40591
11:39:01				8	8.80113	0.431361	1.2801	0	0	3.4115
11:39:01				9	8.79426	0.4320017	1.2801	0	0	3.41756
11:39:02				10	8.79327	0.4305596	1.2801	0	0	3.4055
11:39:02				11	8.79524	0.4299179	1.2801	0	0	3.39991
11:39:03				12	8.79033	0.4315204	1.2801	0	0	3.41388
11:39:03				13	8.78339	0.4312001	1.2801	0	0	3.41185
11:39:04				14	8.77651	0.4270338	1.2801	0	0	3.3774
11:39:04				15	8.77159	0.428476	1.2801	0	0	3.39002
11:39:05				16	8.7657	0.4291173	1.3784	0	0	3.39598
11:39:05				17	8.76766	0.4287958	1.3784	0	0	3.39308
11:39:06				18	8.7598	0.4268733	1.2801	0	0	3.37764
11:39:06				19	8.73909	0.4227052	1.2801	0	0	3.34447
11:39:07				20	8.71844	0.4278351	1.2801	0	0	3.38968
11:39:07				21	8.71253	0.425431	1.3784	0	0	3.36995
11:39:08				22	8.71647	0.4227053	1.2801	0	0	3.3466
11:39:08				23	8.72237	0.4265524	1.3784	0	0	3.37848
11:39:09				24	8.72237	0.423828	1.2801	0	0	3.35551
11:39:09				25	8.72237	0.4267129	1.2801	0	0	3.37983
11:39:10				26	8.73811	0.4259105	1.2801	0	0	3.37158
11:39:10				27	8.74597	0.4270339	1.3784	0	0	3.3803
11:39:11				28	8.73417	0.423828	1.2801	0	0	3.3544
11:39:11				29	8.73122	0.4236678	1.1817	0	0	3.35333
11:39:12				30	8.73516	0.4259106	1.2801	0	0	3.37186
11:39:12				31	8.73712	0.424469	1.3784	0	0	3.35952
11:39:13				32	8.73417	0.4231872	1.2801	0	0	3.349
11:39:13				33	8.73024	0.4252706	1.2801	0	0	3.36693
11:39:14				34	8.72631	0.424469	1.2801	0	0	3.36054
11:39:14				35	8.72434	0.4255913	1.2801	0	0	3.37019
11:39:15				36	8.74106	0.424469	1.2801	0	0	3.35915
11:39:15				37	8.74702	0.4251102	1.3784	0	0	3.36398
11:39:16				38	8.75685	0.4259105	1.2801	0	0	3.3698
11:39:16				39	8.7539	0.4259105	1.2801	0	0	3.37008
11:39:17				40	8.74702	0.426071	1.2801	0	0	3.37209
11:39:17				41	8.74702	0.4251102	1.2801	0	0	3.36399
11:39:18				42	8.748	0.4254309	1.2801	0	0	3.3666
11:39:18				43	8.748	0.4255913	1.2801	0	0	3.36795
11:39:19				44	8.748	0.4254309	1.2801	0	0	3.3666
11:39:19				45	8.74702	0.4257517	1.2801	0	0	3.3694
11:39:20				46	8.74204	0.4257517	1.3784	0	0	3.36986
11:39:20				47	8.74401	0.4257517	1.3784	0	0	3.36967
11:39:21				48	8.74898	0.4249499	1.2801	0	0	3.36245
11:39:21				49	8.74597	0.4251102	1.2801	0	0	3.36409

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:22				50	8.74499	0.4255913	1.2801	0	0	3.36824
11:39:22				51	8.74401	0.4252706	1.2801	0	0	3.36563
11:39:23				52	8.74401	0.4246293	1.2801	0	0	3.36022
11:39:23				53	8.74106	0.4249499	1.2801	0	0	3.3632
11:39:24				54	8.74007	0.4251102	1.2801	0	0	3.36465
11:39:24				55	8.73811	0.4252706	1.3784	0	0	3.36618
11:39:25				56	8.73516	0.4246293	1.2801	0	0	3.36106
11:39:25				57	8.73319	0.4241485	1.2801	0	0	3.35719
11:39:26				58	8.72926	0.4247896	1.2801	0	0	3.36297
11:39:26				59	8.71352	0.4246293	1.3784	0	0	3.3631
11:39:27				60	8.70067	0.4247896	1.3784	0	0	3.36566
11:39:27				61	8.70762	0.4243088	1.3784	0	0	3.36095
11:39:28				62	8.70264	0.4199809	1.2801	0	0	3.32493
11:39:28				63	8.69968	0.4214233	1.2801	0	0	3.33737
11:39:29				64	8.70067	0.4223851	1.3784	0	0	3.34538
11:39:29				65	8.70165	0.4211034	1.2801	0	0	3.33449
11:39:30				66	8.69968	0.4204621	1.2801	0	0	3.32927
11:39:30				67	8.70165	0.4223851	1.3784	0	0	3.34529
11:39:31				68	8.6987	0.4214233	1.3784	0	0	3.33746
11:39:31				69	8.69968	0.4203022	1.2801	0	0	3.32792
11:39:32				70	8.69968	0.4211034	1.2801	0	0	3.33467
11:39:32				71	8.69575	0.4214233	1.3784	0	0	3.33773
11:39:33				72	8.69772	0.4199809	1.3784	0	0	3.32539
11:39:33				73	8.6987	0.4198211	1.2801	0	0	3.32395
11:39:34				74	8.70067	0.4203022	1.2801	0	0	3.32783
11:39:34				75	8.69968	0.4203022	1.3784	0	0	3.32791
11:39:35				76	8.69575	0.4198211	1.2801	0	0	3.32423
11:39:35				77	8.69968	0.4201424	1.2801	0	0	3.32657
11:39:36				78	8.70264	0.4204621	1.2801	0	0	3.32899
11:39:36				79	8.70165	0.4199809	1.2801	0	0	3.32503
11:39:37				80	8.70067	0.4196613	1.2801	0	0	3.32242
11:39:37				81	8.69673	0.4203022	1.3784	0	0	3.32819
11:39:38				82	8.69476	0.4196613	1.3784	0	0	3.32297
11:39:38				83	8.69772	0.4193401	1.2801	0	0	3.31999
11:39:39				84	8.69575	0.4195015	1.2801	0	0	3.32154
11:39:39				85	8.69673	0.4198211	1.2801	0	0	3.32414
11:39:40				86	8.69673	0.4191803	1.1817	0	0	3.31874
11:39:40				87	8.69378	0.4193401	1.2801	0	0	3.32036
11:39:41				88	8.7046	0.4195015	1.2801	0	0	3.32071
11:39:41				89	8.6987	0.4196613	1.3784	0	0	3.3226
11:39:42				90	8.69378	0.4191803	1.2801	0	0	3.31901
11:39:42				91	8.69772	0.4195015	1.2801	0	0	3.32135
11:39:43				92	8.69772	0.4195015	1.2801	0	0	3.32135
11:39:43				93	8.69968	0.4195015	1.2801	0	0	3.32117
11:39:44				94	8.70362	0.4196613	1.3784	0	0	3.32214

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:44				95	8.70264	0.4204621	1.2801	0	0	3.32899
11:39:45				96	8.7086	0.4239882	1.2801	0.53724	0.19536	3.35816
11:39:45				97	8.7145	0.4239882	1.3784	0.34188	0.09768	3.3576
11:39:46				98	8.72335	0.4233474	1.3784	1.4652	0.9768	3.35136
11:39:46				99	8.71745	0.4227053	1.3784	1.41636	10.15873	3.3465
11:39:47				100	8.72139	0.4235076	1.2801	1.41636	10.45177	3.3529
11:39:47				101	8.71844	0.4231873	1.2801	1.41636	10.94017	3.35048
11:39:48				102	8.72139	0.4231873	1.2801	1.41636	10.64713	3.3502
11:39:48				103	8.7204	0.4233474	1.3784	1.41636	10.01221	3.35164
11:39:49				104	8.7204	0.4235076	1.2801	1.41636	10.20757	3.35299
11:39:49				105	8.72237	0.424469	1.2801	1.41636	9.96337	3.36091
11:39:50				106	8.72532	0.4241485	1.2801	1.41636	10.64713	3.35793
11:39:50				107	8.72729	0.4236678	1.3784	1.41636	10.45177	3.35369
11:39:51				108	8.72926	0.4223851	1.2801	1.4652	10.54945	3.3427
11:39:51				109	8.72237	0.4231873	1.2801	1.41636	10.45177	3.35011
11:39:52				110	8.71942	0.4230271	1.3784	1.41636	10.35409	3.34903
11:39:52				111	8.72139	0.4239882	1.2801	1.41636	10.25641	3.35695
11:39:53				112	8.72335	0.4220649	1.2801	1.36752	10.50061	3.34056
11:39:53				113	8.72237	0.4233474	1.2801	1.41636	10.54945	3.35146
11:39:54				114	8.71844	0.4251103	1.2801	1.41636	10.25641	3.36669
11:39:54				115	8.748	0.4259105	1.2801	1.41636	10.01221	3.37064
11:39:55				116	8.74401	0.4254309	1.2801	1.4652	10.10989	3.36698
11:39:55				117	8.75882	0.4320018	1.2801	1.4652	9.91453	3.42096
11:39:56				118	8.85324	0.4364888	1.2801	1.41636	10.54945	3.44967
11:39:56				119	8.94068	0.4284758	1.3784	1.36752	10.35409	3.37398
11:39:57				120	8.8955	0.4311999	1.2801	1.41636	9.91453	3.40114
11:39:57				121	8.9495	0.4249496	1.2801	1.41636	10.20757	3.3436
11:39:58				122	8.9819	0.4231869	1.2801	1.41636	10.06105	3.32582
11:39:58				123	8.92107	0.4167758	1.2801	10.94017	9.52381	3.27778
11:39:59				124	8.83754	0.4236676	1.2801	2.9304	10.45177	3.34333
11:40:00				127	8.86355	0.4254038	1.2801	1.41636	11.03785	3.35548
11:40:01				128	8.9058	0.4252434	1.2801	1.41636	10.45177	3.35016
11:40:01				129	8.9009	0.4238024	1.2801	1.41636	10.45177	3.33853
11:40:02				130	8.89305	0.4260453	1.2801	5.22589	9.67033	3.35809
11:40:02				131	8.90875	0.4305324	1.3784	5.56777	9.86569	3.39426
11:40:03				132	8.93725	0.4306932	1.2801	7.37485	10.10989	3.39291
11:40:03				133	8.98533	0.4273276	1.3784	5.51893	9.76801	3.36016
11:40:04				134	8.97749	0.4276472	1.2801	3.4188	9.71917	3.36357
11:40:04				135	8.99709	0.4111417	1.2801	5.22589	9.62149	3.22378
11:40:05				136	8.94705	0.4138656	1.2801	4.68864	10.40293	3.25106
11:40:05				137	8.85177	0.4180321	1.3784	2.14896	10.40293	3.29469
11:40:06				138	8.89501	0.4201152	1.3784	1.56288	10.25641	3.30816
11:40:06				139	8.94901	0.415309	1.3784	1.41636	10.15873	3.26295
11:40:07				140	8.83895	0.4113024	1.2801	1.36752	10.50061	3.23943
11:40:07				141	8.75728	0.4125845	1.2801	1.41636	10.50061	3.25763

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:08				142	8.72581	0.4109815	1.2801	1.41636	10.79365	3.24703
11:40:08				143	8.71696	0.4130652	1.3784	1.41636	10.15873	3.26536
11:40:09				144	8.7504	0.4129044	1.2801	1.41636	10.20757	3.26095
11:40:09				145	8.72975	0.4097008	1.2801	1.41636	9.96337	3.2359
11:40:10				146	8.69329	0.4095404	1.2801	1.41636	10.89133	3.23787
11:40:10				147	8.68049	0.4111421	1.3784	1.41636	10.59829	3.25251
11:40:11				148	8.69132	0.4105015	1.3784	1.41636	10.06105	3.24613
11:40:11				149	8.68443	0.4097008	1.2801	1.41636	10.45177	3.24003
11:40:12				150	8.67459	0.407777	1.2801	1.41636	10.45177	3.22473
11:40:12				151	8.66764	0.4090593	1.2801	1.41636	10.06105	3.23616
11:40:13				152	8.65976	0.408899	1.3784	1.41636	10.64713	3.23552
11:40:13				153	8.67256	0.4087386	1.3784	1.41636	10.35409	3.233
11:40:14				154	8.66862	0.4105016	1.2801	1.41636	10.10989	3.24821
11:40:14				155	8.66665	0.4100202	1.2801	1.41636	11.08669	3.24434
11:40:15				156	8.66764	0.4109816	1.3784	1.36752	10.45177	3.25234
11:40:15				157	8.67256	0.4137068	1.2801	1.41636	10.20757	3.27485
11:40:16				158	8.68246	0.4114632	1.3784	1.41636	10.30525	3.25504
11:40:16				159	8.68148	0.4130652	1.3784	1.41636	10.20757	3.26862
11:40:17				160	8.68542	0.413226	1.3784	1.4652	10.06105	3.26961
11:40:17				161	8.68935	0.4129045	1.3784	1.41636	10.06105	3.26654
11:40:18				162	8.69132	0.4121041	1.3784	1.41636	10.35409	3.25962
11:40:18				163	8.68935	0.4116223	1.2801	1.41636	9.91453	3.25575
11:40:19				164	8.68935	0.4129045	1.2801	1.41636	9.96337	3.26655
11:40:19				165	8.711	0.4165913	1.3784	1.41636	9.71917	3.29559
11:40:20				166	8.72975	0.4133851	1.3784	1.41636	9.86569	3.26688
11:40:20				167	8.72483	0.4140268	1.3784	1.4652	9.71917	3.27273
11:40:21				168	8.71795	0.4143469	1.3784	1.41636	9.91453	3.27606
11:40:21				169	8.7209	0.4135459	1.2801	1.41636	9.76801	3.26905
11:40:22				170	8.72876	0.4117828	1.2801	1.41636	10.06105	3.2535
11:40:22				171	8.7268	0.4146671	1.3784	1.41636	10.25641	3.27794
11:40:23				172	8.76226	0.4165912	1.2801	1.41636	10.20757	3.29086
11:40:23				173	8.77602	0.4127452	1.2801	1.4652	10.15873	3.25727
11:40:24				174	8.73073	0.4135459	1.3784	1.41636	10.45177	3.26814
11:40:24				175	8.72385	0.4145078	1.3784	1.41636	10.01221	3.27687
11:40:25				176	8.72876	0.4137067	1.2801	1.4652	10.10989	3.26968
11:40:25				177	8.72188	0.4130652	1.2801	1.41636	10.15873	3.26491
11:40:26				178	8.72188	0.4146671	1.3784	1.41636	10.15873	3.27839
11:40:26				179	8.71991	0.414828	1.3784	1.41636	9.91453	3.27992
11:40:27				180	8.72188	0.414828	1.2801	1.41636	9.81685	3.27975
11:40:27				181	8.72188	0.4175518	1.2801	1.36752	9.91453	3.30268
11:40:28				182	8.72385	0.4146671	1.2801	1.4652	10.40293	3.27821
11:40:28				183	8.70706	0.4156297	1.3784	1.4652	10.69597	3.28786
11:40:29				184	8.71493	0.4151483	1.3784	1.41636	10.06105	3.28308
11:40:29				185	8.72876	0.4165912	1.2801	1.41636	10.20757	3.29395
11:40:30				186	8.7327	0.4181935	1.2801	1.41636	10.25641	3.30708

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:30				187	8.73467	0.417231	1.2801	1.4652	10.10989	3.29879
11:40:31				188	8.72778	0.4157891	1.2801	1.41636	10.01221	3.28729
11:40:31				189	8.7209	0.4161096	1.3784	1.41636	10.98901	3.29062
11:40:32				190	8.72286	0.4173922	1.3784	1.41636	10.50061	3.30124
11:40:32				191	8.73073	0.4132259	1.2801	1.41636	10.40293	3.26546
11:40:33				192	8.71696	0.4133851	1.3784	1.41636	10.84249	3.26805
11:40:33				193	8.70608	0.4149874	1.2801	1.41636	10.45177	3.28255
11:40:34				194	8.70706	0.4140268	1.3784	1.41636	10.10989	3.27436
11:40:34				195	8.70411	0.4140268	1.3784	1.41636	9.91453	3.27464
11:40:35				196	8.70018	0.4141877	1.2801	1.41636	10.10989	3.27636
11:40:35				197	8.70214	0.4122632	1.3784	1.4652	9.96337	3.25997
11:40:36				198	8.70018	0.4124239	1.3784	1.41636	10.40293	3.2615
11:40:36				199	8.69624	0.414347	1.3784	1.4652	10.20757	3.27806
11:40:37				200	8.711	0.4149874	1.3784	1.41636	9.86569	3.28209
11:40:37				201	8.72975	0.417231	1.2801	1.41636	10.30525	3.29925
11:40:38				202	8.72975	0.4213979	1.2801	1.41636	10.64713	3.33434
11:40:38				203	8.70706	0.4146671	1.3784	1.41636	11.13553	3.27975
11:40:39				204	8.70903	0.4151484	1.3784	1.41636	10.40293	3.28362
11:40:39				205	8.73467	0.4170714	1.3784	1.41636	10.25641	3.29744
11:40:40				206	8.73663	0.4173922	1.2801	1.4652	10.20757	3.29997
11:40:40				207	8.7386	0.4143469	1.2801	1.41636	10.30525	3.27416
11:40:41				208	8.73073	0.4154687	1.3784	1.4652	10.64713	3.28432
11:40:41				209	8.72778	0.4165912	1.3784	1.41636	10.10989	3.29404
11:40:42				210	8.7386	0.4170714	1.3784	1.41636	9.96337	3.29708
11:40:42				211	8.75236	0.4122631	1.2801	1.41636	10.01221	3.25538
11:40:43				212	8.7327	0.4149874	1.2801	1.41636	10.20757	3.28009
11:40:43				213	8.70903	0.4154687	1.2801	1.41636	10.74481	3.28633
11:40:44				214	8.71001	0.4162707	1.3784	1.41636	10.06105	3.29298
11:40:44				215	8.7209	0.4149874	1.3784	1.41636	10.45177	3.28118
11:40:45				216	8.71395	0.4149874	1.2801	1.41636	10.10989	3.28182
11:40:45				217	8.70706	0.4154687	1.2801	1.41636	10.50061	3.28651
11:40:46				218	8.711	0.4161096	1.3784	1.41636	9.96337	3.29154
11:40:46				219	8.71297	0.4169119	1.3784	1.41636	10.30525	3.29811
11:40:47				220	8.71795	0.4165912	1.3784	1.41636	10.10989	3.29495
11:40:47				221	8.71696	0.4170714	1.3784	1.41636	9.71917	3.29908
11:40:48				222	8.71991	0.4180323	1.2801	1.41636	10.25641	3.30691
11:40:48				223	8.72286	0.4181935	1.3784	1.41636	10.40293	3.30798
11:40:49				224	8.72188	0.417713	1.3784	1.41636	10.10989	3.30403
11:40:49				225	8.72286	0.4175518	1.2801	1.41636	10.06105	3.30259
11:40:50				226	8.72385	0.417713	1.3784	1.41636	9.52381	3.30385
11:40:50				227	8.72188	0.4196359	1.3784	1.41636	10.79365	3.32022
11:40:51				228	8.72188	0.4204368	1.2801	1.41636	10.30525	3.32698
11:40:51				229	8.71991	0.4193147	1.2801	1.41636	10.74481	3.31771
11:40:52				230	8.7209	0.4186742	1.3784	1.41636	9.91453	3.31222
11:40:52				231	8.72188	0.4202769	1.3784	1.41636	10.06105	3.32562

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:53				232	8.7268	0.4188339	1.3784	1.4652	9.76801	3.31301
11:40:53				233	8.72581	0.4185129	1.3784	1.41636	9.91453	3.3104
11:40:54				234	8.72581	0.4185129	1.3784	1.4652	9.62149	3.3104
11:40:54				235	8.72778	0.4183532	1.2801	1.4652	10.15873	3.30888
11:40:55				236	8.72581	0.4186742	1.3784	1.41636	10.35409	3.31176
11:40:55				237	8.72483	0.4178726	1.3784	1.41636	10.84249	3.3051
11:40:56				238	8.72876	0.4175518	1.2801	1.41636	10.30525	3.30204
11:40:56				239	8.72483	0.4223597	1.2801	1.4652	9.86569	3.3429
11:40:57				240	8.72975	0.4189936	1.3784	1.41636	10.59829	3.31408
11:40:57				241	8.7268	0.4189936	1.3784	1.41636	9.91453	3.31436
11:40:58				242	8.72876	0.419155	1.2801	1.4652	10.15873	3.31554
11:40:58				243	8.7268	0.4194745	1.2801	1.4652	10.10989	3.31841
11:40:59				244	8.72778	0.4194745	1.3784	1.41636	10.25641	3.31831
11:41:00				247	8.72919	0.4189952	1.3784	1.41636	10.30525	3.31415
11:41:01				248	8.72821	0.4193147	1.3784	1.41636	10.25641	3.31693
11:41:01				249	8.72428	0.419155	1.3784	1.41636	10.64713	3.31595
11:41:02				250	8.72624	0.4186742	1.3784	1.41636	11.18437	3.31172
11:41:02				251	8.72624	0.4183532	1.2801	1.41636	10.10989	3.30902
11:41:03				252	8.72723	0.4169119	1.2801	1.41636	10.25641	3.29679
11:41:03				253	8.72133	0.4197957	1.3784	1.41636	10.69597	3.32162
11:41:04				254	8.72133	0.4183532	1.3784	1.41636	10.40293	3.30947
11:41:04				255	8.72428	0.4180323	1.3784	1.4652	10.50061	3.3065
11:41:05				256	8.72624	0.4181935	1.2801	1.41636	10.15873	3.30768
11:41:05				257	8.72526	0.4183532	1.2801	1.41636	10.30525	3.30911
11:41:06				258	8.72723	0.4181935	1.3784	1.41636	9.86569	3.30758
11:41:06				259	8.72526	0.4183532	1.3784	1.41636	10.01221	3.30911
11:41:07				260	8.72526	0.4180322	1.3784	1.4652	10.35409	3.3064
11:41:07				261	8.72624	0.4173922	1.2801	1.41636	9.86569	3.30093
11:41:08				262	8.72231	0.4193147	1.3784	1.36752	10.15873	3.31748
11:41:08				263	8.72034	0.4180323	1.3784	1.41636	10.54945	3.30686
11:41:09				264	8.71936	0.4181935	1.3784	1.41636	10.15873	3.30831
11:41:09				265	8.72133	0.4185145	1.3784	1.41636	10.20757	3.31083
11:41:10				266	8.72428	0.417231	1.3784	1.41636	10.25641	3.29975
11:41:10				267	8.72329	0.4175518	1.3784	1.41636	10.01221	3.30254
11:41:11				268	8.72133	0.4180323	1.3784	1.4652	9.67033	3.30677
11:41:11				269	8.72428	0.417713	1.2801	1.4652	9.96337	3.30381
11:41:12				270	8.72133	0.4167508	1.3784	1.41636	10.15873	3.29598
11:41:12				271	8.72034	0.417713	1.3784	1.41636	10.10989	3.30417
11:41:13				272	8.72034	0.4188339	1.2801	1.41636	10.20757	3.31362
11:41:13				273	8.72329	0.4230001	1.2801	1.41636	10.20757	3.34844
11:41:14				274	8.73116	0.4204367	1.3784	1.36752	10.64713	3.3261
11:41:14				275	8.73319	0.421238	1.3784	1.41636	9.86569	3.33266
11:41:15				276	8.73116	0.4185144	1.2801	1.41636	10.25641	3.30992
11:41:15				277	8.72821	0.4146671	1.2801	1.41636	10.06105	3.27781
11:41:16				278	8.72428	0.4143469	1.2801	1.41636	10.20757	3.27548

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:16				279	8.72329	0.4157891	1.3784	1.4652	10.35409	3.2877
11:41:17				280	8.72231	0.4154687	1.2801	1.41636	10.30525	3.2851
11:41:17				281	8.72428	0.4105015	1.2801	1.41636	10.15873	3.24313
11:41:18				282	8.71247	0.4108225	1.2801	1.4652	10.35409	3.24691
11:41:18				283	8.70067	0.4146672	1.3784	1.41636	10.15873	3.28034
11:41:19				284	8.70755	0.4129044	1.3784	1.41636	9.96337	3.26487
11:41:19				285	8.70559	0.4109831	1.3784	1.41636	10.59829	3.24888
11:41:20				286	8.70362	0.4130652	1.3784	1.41636	9.96337	3.26659
11:41:20				287	8.70559	0.4079372	1.2801	1.41636	10.45177	3.22327
11:41:21				288	8.70067	0.4044126	1.3784	1.41636	10.40293	3.19408
11:41:21				289	8.69378	0.4079372	1.3784	1.41636	10.10989	3.22433
11:41:22				290	8.69772	0.4087386	1.3784	1.41636	9.91453	3.23072
11:41:22				291	8.70559	0.410341	1.2801	1.41636	10.30525	3.24349
11:41:23				292	8.69476	0.4103411	1.3784	1.41636	10.50061	3.24447
11:41:23				293	8.6928	0.4097008	1.3784	1.36752	9.81685	3.23926
11:41:24				294	8.69772	0.4088989	1.2801	1.41636	9.96337	3.23207
11:41:24				295	8.68683	0.4090593	1.3784	1.41636	10.30525	3.2344
11:41:25				296	8.68289	0.4097008	1.3784	1.41636	9.86569	3.24016
11:41:25				297	8.6888	0.4098613	1.3784	1.4652	10.10989	3.24097
11:41:26				298	8.68486	0.4145078	1.2801	1.41636	10.30525	3.28046
11:41:26				299	8.68388	0.4106621	1.3784	1.41636	10.45177	3.24816
11:41:27				300	8.68486	0.4119435	1.3784	1.4652	10.20757	3.25886
11:41:27				301	8.68585	0.4113027	1.3784	1.36752	10.10989	3.25338
11:41:28				302	8.68683	0.4194746	1.1817	1.4652	10.35409	3.32215
11:41:28				303	8.70165	0.4140268	1.3784	1.41636	10.50061	3.27486
11:41:29				304	8.70264	0.4141877	1.3784	1.4652	10.15873	3.27613
11:41:29				305	8.69378	0.4127453	1.2801	1.4652	9.71917	3.2648
11:41:30				306	8.70067	0.4169119	1.2801	1.41636	10.15873	3.29926
11:41:30				307	8.70657	0.414989	1.2801	1.4652	10.30525	3.28251
11:41:31				308	8.70952	0.4181935	1.3784	1.36752	9.86569	3.30922
11:41:31				309	8.71838	0.4141876	1.3784	1.41636	11.03785	3.27468
11:41:32				310	8.71346	0.4159502	1.3784	1.41636	9.71917	3.28997
11:41:32				311	8.71444	0.4178726	1.2801	1.41636	10.10989	3.30607
11:41:33				312	8.72428	0.4209181	1.2801	1.4652	10.30525	3.33081
11:41:33				313	8.73116	0.419155	1.2801	1.41636	11.08669	3.31531
11:41:34				314	8.73215	0.4170714	1.3784	1.4652	9.86569	3.29768
11:41:34				315	8.72329	0.4186742	1.3784	1.36752	9.81685	3.31199
11:41:35				316	8.72034	0.4154687	1.2801	1.41636	10.01221	3.28528
11:41:35				317	8.71936	0.4167508	1.3784	1.41636	10.10989	3.29616
11:41:36				318	8.71838	0.4157891	1.3784	1.41636	10.59829	3.28816
11:41:36				319	8.71641	0.414989	1.3784	1.41636	10.40293	3.2816
11:41:37				320	8.70362	0.4074565	1.3784	1.41636	10.30525	3.2194
11:41:37				321	8.68683	0.4058554	1.3784	1.4652	10.64713	3.20745
11:41:38				322	8.68486	0.408418	1.3784	1.41636	10.84249	3.22919
11:41:38				323	8.68388	0.407777	1.3784	1.41636	9.91453	3.22388

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:39				324	8.68781	0.4087386	1.3784	1.41636	9.96337	3.23162
11:41:39				325	8.68683	0.4050539	1.3784	1.4652	9.52381	3.20071
11:41:40				326	8.69083	0.3988041	1.2801	1.41636	9.91453	3.14784
11:41:40				327	8.67404	0.4002466	1.2801	1.41636	11.13553	3.16145
11:41:41				328	8.64444	0.4052139	1.3784	1.36752	10.79365	3.20588
11:41:41				329	8.65435	0.4061756	1.3784	1.41636	10.15873	3.21308
11:41:42				330	8.66222	0.4021694	1.2801	1.41636	10.35409	3.17867
11:41:42				331	8.63754	0.4095405	1.2801	1.41636	10.64713	3.24295
11:41:43				332	8.63754	0.4097009	1.3784	1.41636	10.84249	3.2443
11:41:43				333	8.65927	0.4111421	1.3784	1.41636	9.96337	3.25446
11:41:44				334	8.68683	0.4157892	1.2801	1.41636	10.15873	3.29108
11:41:44				335	8.7046	0.4132259	1.2801	1.41636	10.06105	3.26785
11:41:45				336	8.70755	0.4121041	1.2801	1.41636	9.96337	3.25814
11:41:45				337	8.7046	0.427328	1.2801	1.41636	10.35409	3.38671
11:41:46				338	8.73215	0.423322	1.3784	1.41636	10.74481	3.35032
11:41:46				339	8.80206	0.4173921	1.3784	1.41636	10.84249	3.29391
11:41:47				340	8.81384	0.4185143	1.2801	1.41636	10.84249	3.30225
11:41:47				341	8.83355	0.4021692	1.2801	3.76068	9.91453	3.16341
11:41:48				342	8.74302	0.4028097	1.3784	2.88156	11.62393	3.17683
11:41:48				343	8.69673	0.4055338	1.3784	2.88156	11.13553	3.20386
11:41:49				344	8.74597	0.4058553	1.3784	1.41636	10.06105	3.20213
11:41:49				345	8.72526	0.4061755	1.3784	1.4652	10.25641	3.20668
11:41:50				346	8.74597	0.4012084	1.2801	1.41636	10.15873	3.16313
11:41:50				347	8.71739	0.4042527	1.2801	1.41636	9.86569	3.19124
11:41:51				348	8.65435	0.4020097	1.3784	1.41636	10.25641	3.17802
11:41:51				349	8.65632	0.4037716	1.3784	1.4652	10.45177	3.19267
11:41:52				350	8.65435	0.4040929	1.2801	1.41636	10.25641	3.19555
11:41:52				351	8.65238	0.4066558	1.2801	1.41636	10.30525	3.2173
11:41:53				352	8.65139	0.4048939	1.3784	1.41636	10.69597	3.20256
11:41:53				353	8.65139	0.4040929	1.3784	1.41636	10.25641	3.19581
11:41:54				354	8.64844	0.4045725	1.2801	1.4652	10.59829	3.20012
11:41:54				355	8.65139	0.4048939	1.2801	1.41636	10.40293	3.20256
11:41:55				356	8.65238	0.4055338	1.2801	1.4652	10.54945	3.20786
11:41:55				357	8.65336	0.4055338	1.3784	1.36752	10.06105	3.20776
11:41:56				358	8.65041	0.4042527	1.3784	1.41636	10.30525	3.19725
11:41:56				359	8.65336	0.4048939	1.3784	1.41636	10.40293	3.20238
11:41:57				360	8.65632	0.4024903	1.2801	1.41636	10.40293	3.18189
11:41:57				361	8.64745	0.4013681	1.2801	1.41636	10.89133	3.17325
11:41:58				362	8.63853	0.4031309	1.3784	1.41636	10.84249	3.18887
11:41:58				363	8.64844	0.4045725	1.3784	1.41636	10.10989	3.20012
11:41:59				364	8.65435	0.4050539	1.2801	1.41636	10.45177	3.20364
11:42:00				367	8.65644	0.4063388	1.2801	1.41636	10.20757	3.21427
11:42:01				368	8.65939	0.4089021	1.2801	1.41636	10.10989	3.23558
11:42:01				369	8.66431	0.4084228	1.2801	1.41636	10.74481	3.2311
11:42:02				370	8.6653	0.4069808	1.3784	1.4652	10.35409	3.21887

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:02				371	8.66431	0.4081022	1.3784	1.41636	9.91453	3.22839
11:42:03				372	8.67219	0.4100249	1.3784	1.41636	10.40293	3.24387
11:42:03				373	8.68006	0.4103458	1.2801	1.41636	10.40293	3.24585
11:42:04				374	8.68203	0.4202801	1.2801	1.41636	10.20757	3.32938
11:42:04				375	8.70669	0.4117876	1.3784	1.4652	10.40293	3.25555
11:42:05				376	8.69882	0.4130683	1.3784	1.41636	10.25641	3.26705
11:42:05				377	8.68898	0.4151515	1.2801	1.41636	10.10989	3.28551
11:42:06				378	8.70473	0.4215627	1.2801	1.41636	10.89133	3.33807
11:42:06				379	8.73233	0.4185176	1.3784	1.41636	10.59829	3.30983
11:42:07				380	8.73036	0.4165944	1.3784	1.4652	10.15873	3.29383
11:42:07				381	8.7244	0.4172357	1.3784	1.41636	10.01221	3.29978
11:42:08				382	8.7244	0.4199603	1.2801	1.41636	10.20757	3.32273
11:42:08				383	8.73921	0.4209212	1.3784	1.41636	10.50061	3.32943
11:42:09				384	8.74413	0.4178757	1.3784	1.41636	10.25641	3.30333
11:42:09				385	8.73626	0.416915	1.3784	1.4652	10.01221	3.29598
11:42:10				386	8.7284	0.4193179	1.2801	1.41636	10.30525	3.31694
11:42:10				387	8.72938	0.4199603	1.3784	1.41636	10.30525	3.32226
11:42:11				388	8.73921	0.4177161	1.3784	1.41636	10.06105	3.30245
11:42:11				389	8.73823	0.4188386	1.3784	1.41636	10.06105	3.31199
11:42:12				390	8.7402	0.4233252	1.2801	1.41636	10.20757	3.34959
11:42:12				391	8.74708	0.4223629	1.3784	1.41636	10.50061	3.34084
11:42:13				392	8.75396	0.4209212	1.3784	1.41636	10.01221	3.32805
11:42:13				393	8.74905	0.4186773	1.3784	1.41636	10.01221	3.30962
11:42:14				394	8.74315	0.423165	1.2801	1.41636	10.30525	3.34797
11:42:14				395	8.74905	0.4228447	1.1817	1.4652	9.96337	3.34472
11:42:15				396	8.75101	0.4218827	1.3784	1.41636	10.06105	3.33642
11:42:15				397	8.74905	0.4215627	1.3784	1.41636	10.20757	3.33391
11:42:16				398	8.752	0.4222028	1.3784	1.41636	10.15873	3.33903
11:42:16				399	8.75789	0.4238057	1.3784	1.41636	10.06105	3.35197
11:42:17				400	8.76084	0.4244467	1.3784	1.4652	10.25641	3.35709
11:42:17				401	8.76281	0.4225229	1.3784	1.36752	10.64713	3.34071
11:42:18				402	8.75888	0.4226846	1.2801	1.4652	10.50061	3.34244
11:42:18				403	8.75986	0.4263696	1.3784	1.41636	10.20757	3.37338
11:42:19				404	8.76183	0.4260487	1.3784	1.41636	10.45177	3.37049
11:42:19				405	8.76871	0.4238057	1.3784	1.4652	10.15873	3.35095
11:42:20				406	8.76576	0.4247673	1.3784	1.41636	10.25641	3.35933
11:42:20				407	8.76478	0.4263696	1.3784	1.41636	10.06105	3.37292
11:42:21				408	8.76871	0.424607	1.3784	1.4652	10.64713	3.3577
11:42:21				409	8.76969	0.4247673	1.3784	1.41636	10.01221	3.35896
11:42:22				410	8.76674	0.4247673	1.3784	1.41636	9.86569	3.35923
11:42:22				411	8.76871	0.4247673	1.2801	1.41636	10.15873	3.35905
11:42:23				412	8.76674	0.4249276	1.3784	1.41636	9.91453	3.36058
11:42:23				413	8.76969	0.4249276	1.3784	1.41636	10.01221	3.36031
11:42:24				414	8.76969	0.4247673	1.3784	1.4652	10.30525	3.35896
11:42:24				415	8.76871	0.424607	1.3784	1.41636	10.45177	3.3577

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:25				416	8.76674	0.4305358	1.3784	1.41636	10.10989	3.40784
11:42:25				417	8.7727	0.4254087	1.3784	1.4652	10.35409	3.36407
11:42:26				418	8.77565	0.4257294	1.3784	1.4652	9.96337	3.3665
11:42:26				419	8.77663	0.4250879	1.2801	1.36752	10.35409	3.36101
11:42:27				420	8.7786	0.4279718	1.2801	1.41636	10.40293	3.38511
11:42:27				421	8.77958	0.4257294	1.2801	1.4652	10.25641	3.36613
11:42:28				422	8.77663	0.4258883	1.3784	1.41636	10.01221	3.36774
11:42:28				423	8.77958	0.4257294	1.3784	1.41636	9.86569	3.36612
11:42:29				424	8.78056	0.4252483	1.3784	1.41636	9.67033	3.36198
11:42:29				425	8.77663	0.4249276	1.2801	1.41636	10.25641	3.35966
11:42:30				426	8.77663	0.4252483	1.3784	1.41636	9.91453	3.36235
11:42:30				427	8.77565	0.425088	1.3784	1.41636	9.71917	3.36109
11:42:31				428	8.77565	0.4241262	1.3784	1.41636	10.06105	3.353
11:42:31				429	8.77958	0.4284538	1.3784	1.41636	9.86569	3.38907
11:42:32				430	8.79235	0.4250879	1.3784	1.41636	10.54945	3.35952
11:42:32				431	8.78646	0.4252483	1.3784	1.4652	9.96337	3.36142
11:42:33				432	8.77467	0.4225229	1.3784	1.41636	10.20757	3.3396
11:42:33				433	8.78744	0.4282931	1.3784	1.41636	9.96337	3.38697
11:42:34				434	8.83563	0.4246069	1.3784	1.4652	10.30525	3.3514
11:42:34				435	8.8268	0.4242864	1.3784	1.41636	9.86569	3.34954
11:42:35				436	8.81004	0.4241261	1.2801	1.41636	9.91453	3.34977
11:42:35				437	8.81298	0.4242864	1.3784	1.41636	10.20757	3.35083
11:42:36				438	8.80414	0.4236455	1.4768	1.41636	10.20757	3.34627
11:42:36				439	8.79039	0.4401517	1.2801	1.41636	10.01221	3.48666
11:42:37				440	8.87692	0.4436778	1.3784	1.41636	10.35409	3.50789
11:42:37				441	9.07119	0.4348637	1.3784	1.41636	10.15873	3.4151
11:42:38				442	8.95354	0.4297346	1.3784	19.8779	9.96337	3.38332
11:42:38				443	8.91524	0.4263694	1.3784	5.37241	10.35409	3.35871
11:42:39				444	8.87987	0.4367861	1.3784	5.37241	10.35409	3.44959
11:42:39				445	8.89851	0.4274915	1.3784	1.4652	9.91453	3.36971
11:42:40				446	8.8622	0.4273309	1.3784	1.4652	9.91453	3.37179
11:42:40				447	8.84545	0.4342222	1.2801	1.41636	10.15873	3.43134
11:42:41				448	8.93878	0.428934	1.2801	1.41636	10.20757	3.37801
11:42:41				449	8.95158	0.4347026	1.2801	1.4652	10.01221	3.42519
11:42:42				450	9.14172	0.4581022	1.1817	1.4652	10.40293	3.60279
11:42:42				451	9.38011	0.4672386	1.1817	1.41636	10.40293	3.65509
11:42:43				452	9.43663	0.4540949	1.1817	24.5177	9.76801	3.54004
11:42:43				453	9.37134	0.4999429	1.1817	28.96215	9.57265	3.92955
11:42:44				454	9.31177	0.4553779	1.2801	30.86691	9.47497	3.56303
11:42:44				455	9.32353	0.4555379	1.1817	27.44811	9.47497	3.56321
11:42:45				456	9.33425	0.5632833	1.1817	31.69719	9.47497	4.46808
11:42:45	11:41:50	10.0	255	457	9.31469	0.4964154	1.1817	38.43712	10.06105	3.90612
11:42:46				458	9.3323	0.5060356	1.1817	21.48962	8.98657	3.98501
11:42:46				459	9.3206	0.4582622	1.1817	24.37118	9.03541	3.58622
11:42:47				460	9.33035	0.6181446	1.1817	30.96459	9.42613	4.9356

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:47				461	9.31567	0.4861554	1.1817	22.27106	9.23077	3.81995
11:42:48				462	9.32548	0.5017061	1.1817	13.43101	8.54701	3.94938
11:42:48				463	9.32353	0.4920874	1.1817	24.22466	8.88889	3.86885
11:42:49				464	9.33718	0.5778795	1.1817	32.67399	9.32845	4.59159
11:42:49				465	9.35666	0.5119684	1.1817	14.60317	8.35165	4.03216
11:42:50				466	9.34887	0.5284832	1.1817	11.81929	8.15629	4.17209
11:42:50				467	9.36056	0.46211	1.1817	25.10379	8.69353	3.6143
11:42:51				468	9.38692	0.4766969	1.1817	27.35043	9.08425	3.73333
11:42:51				469	9.38108	0.4965758	1.1817	34.33455	9.03541	3.90026
11:42:52				470	9.36738	0.4704444	1.1817	40.87912	9.03541	3.68314
11:42:52				471	9.40737	0.4768572	1.1817	52.55189	9.67033	3.73255
11:42:53				472	9.37036	0.4802233	1.1817	44.29792	9.08425	3.76452
11:42:53				473	9.41224	0.5523777	1.2801	41.85592	9.18193	4.3662
11:42:54				474	9.44539	0.6187845	1.2801	37.21612	9.47497	4.92528
11:42:54				475	9.50478	0.5793225	1.2801	58.31502	9.23077	4.58245
11:42:55				476	9.50576	0.5145332	1.2801	51.52625	9.13309	4.03697
11:42:55				477	9.45707	0.5086004	1.2801	45.32357	9.08425	3.99269
11:42:56				478	9.41912	0.464193	1.1817	44.78632	9.13309	3.62577
11:42:56				479	9.42204	0.4590637	1.1817	46.64225	9.47497	3.58279
11:42:57				480	9.43371	0.4590636	1.1817	44.49328	9.86569	3.58163
11:42:57				481	9.43955	0.4564998	1.1817	41.17216	9.47497	3.55973
11:42:58				482	9.44734	0.460026	1.0833	41.51404	9.32845	3.58828
11:42:58				483	9.44637	0.4550577	1.0833	42.97924	10.01221	3.54709
11:42:59				484	9.4415	0.4518513	1.1817	42.83272	9.42613	3.52093
11:43:00				487	9.35015	0.4475438	1.0833	36.28816	9.27961	3.49403
11:43:01				488	9.3658	0.4486655	1.0833	32.91819	9.18193	3.50184
11:43:01				489	9.3658	0.4438569	1.0833	32.52747	9.52381	3.46187
11:43:02				490	9.29842	0.4428956	1.0833	31.45299	9.67033	3.46036
11:43:02				491	9.23592	0.4446584	1.0833	29.79243	9.81685	3.48108
11:43:03				492	9.25739	0.4436965	1.0833	30.76923	9.62149	3.47098
11:43:03				493	9.26819	0.4427352	1.1817	29.01099	9.52381	3.46193
11:43:04				494	9.24471	0.4417729	1.1817	28.37607	9.67033	3.45617
11:43:04				495	9.19876	0.4432167	1.0833	26.03175	9.91453	3.47265
11:43:05				496	9.13616	0.4409715	1.1817	20.02442	9.62149	3.45994
11:43:05				497	9.14594	0.4419334	1.1817	14.50549	9.18193	3.46704
11:43:06				498	9.1606	0.4430563	1.1817	15.33578	9.52381	3.475
11:43:06				499	9.16158	0.4432168	1.1817	16.99634	10.25641	3.47625
11:43:07				500	9.16646	0.4420937	1.1817	11.28205	9.71917	3.46639
11:43:07				501	9.1518	0.4400102	1.1817	8.54701	10.30525	3.4504
11:43:08				502	9.1518	0.4414524	1.2801	11.33089	10.20757	3.46245
11:43:08				503	9.14692	0.4409715	1.1817	15.87302	9.27961	3.45891
11:43:09				504	9.14692	0.4422542	1.1817	17.04518	9.62149	3.46962
11:43:09				505	9.15376	0.4422542	1.1817	19.09646	9.71917	3.46896
11:43:10				506	9.16548	0.4408112	1.1817	18.94994	9.71917	3.45578
11:43:10				507	9.15864	0.441773	1.2801	14.26129	9.76801	3.46446

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:11				508	9.14007	0.4510697	1.1817	8.93773	9.96337	3.54404
11:43:11				509	9.1518	0.4444979	1.2801	8.25397	10.30525	3.4879
11:43:12				510	9.15571	0.4420938	1.2801	10.20757	9.52381	3.46743
11:43:12				511	9.11264	0.4366451	1.1817	9.57265	9.76801	3.42604
11:43:13				512	9.07541	0.4321575	1.0833	6.54457	9.91453	3.39208
11:43:13				513	8.99213	0.4409717	1.0833	1.36752	10.35409	3.4739
11:43:14				514	8.97345	0.4352024	1.0833	1.41636	10.35409	3.42729
11:43:14				515	8.96463	0.4342411	0.9849	1.4652	9.96337	3.42008
11:43:15				516	8.96169	0.435843	0.9849	1.4652	10.06105	3.4338
11:43:15				517	8.99011	0.4387279	0.9849	1.41636	10.10989	3.45527
11:43:16				518	9.04018	0.4372863	1.0833	1.41636	10.06105	3.43836
11:43:16				519	9.03626	0.4366452	1.0833	12.35653	9.57265	3.43336
11:43:17				520	8.99703	0.4303953	1.0833	9.42613	9.81685	3.38476
11:43:17				521	8.9381	0.4270288	0.9849	2.29548	9.81685	3.36211
11:43:18				522	8.83299	0.4286318	0.9849	2.24664	9.86569	3.38551
11:43:18				523	8.83496	0.42735	1.0833	1.41636	9.62149	3.37454
11:43:19				524	8.83299	0.4252657	1.0833	1.41636	10.01221	3.3572
11:43:19				525	8.81427	0.4252657	0.9849	1.41636	9.81685	3.35897
11:43:20				526	8.79364	0.4254261	0.9849	1.41636	10.25641	3.36226
11:43:20				527	8.7907	0.4255865	0.9849	1.41636	9.57265	3.36389
11:43:21				528	8.79364	0.4254261	0.9849	1.4652	9.91453	3.36226
11:43:21				529	8.79364	0.4251054	0.8865	1.56288	10.01221	3.35957
11:43:22				530	8.79364	0.4254261	0.8865	1.4652	10.06105	3.36227
11:43:22				531	8.7907	0.4252657	0.8865	1.41636	10.01221	3.3612
11:43:23				532	8.78971	0.4252657	0.7881	1.41636	9.91453	3.3613
11:43:23				533	8.79266	0.4249466	0.8865	1.41636	9.81685	3.35833
11:43:24				534	8.78873	0.4249466	0.8865	1.41636	9.86569	3.3587
11:43:24				535	8.78677	0.4247863	0.8865	1.41636	9.76801	3.35753
11:43:25				536	8.7848	0.424626	0.8865	1.4652	10.15873	3.35637
11:43:25				537	8.78087	0.4247863	0.8865	1.4652	10.10989	3.35809
11:43:26				538	8.78283	0.4249466	0.8865	1.41636	9.86569	3.35925
11:43:26				539	8.78578	0.4257469	0.7881	1.41636	10.30525	3.36572
11:43:27				540	8.79266	0.4251054	0.7881	1.41636	10.20757	3.35967
11:43:27				541	8.78873	0.4251054	0.8865	1.41636	9.86569	3.36003
11:43:28				542	8.7848	0.4247863	0.9849	1.41636	9.91453	3.35771
11:43:28				543	8.78283	0.4236645	1.0833	1.4652	10.30525	3.34845
11:43:29				544	8.77792	0.4244657	1.1817	1.4652	10.10989	3.35565
11:43:29				545	8.77301	0.4244658	1.2801	1.41636	9.76801	3.35611
11:43:30				546	8.77098	0.4236646	1.2801	1.41636	9.81685	3.34956
11:43:30				547	8.77202	0.4235044	1.2801	1.41636	9.71917	3.34811
11:43:31				548	8.77098	0.4231824	1.2801	1.41636	9.81685	3.3455
11:43:31				549	8.77202	0.4233426	1.1817	1.41636	9.81685	3.34675
11:43:32				550	8.77	0.4235044	1.2801	1.41636	9.52381	3.3483
11:43:32				551	8.77202	0.4231824	1.2801	1.4652	9.81685	3.3454
11:43:33				552	8.77399	0.4215801	1.2801	1.41636	9.96337	3.33173

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:33				553	8.76508	0.4219017	1.2801	1.4652	9.57265	3.33527
11:43:34				554	8.7641	0.4220617	1.2801	1.41636	9.86569	3.33671
11:43:34				555	8.7641	0.4217401	1.2801	1.41636	10.06105	3.334
11:43:35				556	8.7641	0.4214201	1.3784	1.41636	9.96337	3.3313
11:43:35				557	8.76607	0.4206188	1.2801	1.41636	9.96337	3.32438
11:43:36				558	8.75918	0.419658	1.2801	1.41636	10.30525	3.31694
11:43:36				559	8.75525	0.418856	1.2801	1.41636	9.71917	3.31056
11:43:37				560	8.75623	0.4198178	1.2801	1.4652	9.71917	3.31856
11:43:37				561	8.75329	0.4199777	1.2801	1.41636	9.91453	3.32018
11:43:38				562	8.75427	0.4194966	1.2801	1.41636	10.10989	3.31604
11:43:38				563	8.7523	0.4194966	1.2801	1.41636	9.71917	3.31622
11:43:39				564	8.75132	0.4177351	1.3784	1.41636	9.76801	3.30148
11:43:39				565	8.74739	0.4161317	1.2801	1.41636	9.91453	3.28836
11:43:40				566	8.7405	0.4164522	1.0833	1.41636	9.96337	3.29171
11:43:40				567	8.73559	0.4166133	0.9849	1.41636	10.45177	3.29352
11:43:41				568	8.73755	0.4170935	0.8865	1.4652	9.71917	3.29739
11:43:41				569	8.74444	0.4170935	0.6898	1.41636	11.81929	3.29676
11:43:42				570	8.74345	0.4180543	0.6898	1.4652	13.77289	3.30494
11:43:42				571	8.7464	0.4182156	0.6898	21.29426	18.07082	3.30602
11:43:43				572	8.75427	0.4182156	0.5914	6.54457	11.13553	3.3053
11:43:43				573	8.75918	0.4170935	0.5914	2.34432	5.47009	3.2954
11:43:44				574	8.77098	0.4167728	0.5914	1.41636	2.97924	3.29161
11:43:44				575	8.77989	0.4167728	0.5914	1.36752	3.02808	3.29079
11:43:45				576	8.78971	0.4167728	0.5914	1.41636	3.02808	3.28988
11:43:45				577	8.8015	0.4166132	0.5914	1.41636	2.78388	3.28746
11:43:46				578	8.81133	0.4170934	0.6898	1.41636	2.88156	3.29058
11:43:46				579	8.82416	0.4170934	0.6898	1.41636	2.83272	3.28939
11:43:47				580	8.83692	0.4172529	0.6898	1.41636	2.97924	3.28955
11:43:47				581	8.85165	0.4174141	0.6898	1.41636	3.02808	3.28955
11:43:48				582	8.86349	0.4174141	0.6898	1.41636	2.97924	3.28846
11:43:48				583	8.88017	0.4172529	0.6898	1.41636	2.97924	3.28557
11:43:49				584	8.89882	0.417414	0.6898	1.4652	3.1746	3.2852
11:43:49	11:42:00 switch off	10.0	255	585	8.91359	0.4170933	0.6898	1.41636	3.36996	3.28116
11:47:01	11:46:00 switch on	10.0	270	7	8.8322	0.4366359	1.3784	0	0	3.45294
11:47:02				8	8.83318	0.4369556	1.3784	0	0	3.45554
11:47:02				9	8.84496	0.4345526	1.4768	0	0	3.43416
11:47:03				10	8.84398	0.4358336	1.3784	0	0	3.44504
11:47:03				11	8.85288	0.4334306	1.3784	0	0	3.42396
11:47:04				12	8.85778	0.4339109	1.3784	0	0	3.42753
11:47:04				13	8.87741	0.4347123	1.4768	0	0	3.43238
11:47:05				14	8.89606	0.4388801	1.4768	0	0	3.46563
11:47:05				15	8.90887	0.437117	1.4768	0	0	3.44957
11:47:06				16	8.93829	0.4380783	1.4768	0	0	3.4548
11:47:06				17	8.94521	0.4419241	1.3784	0	0	3.48645

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:07				18	8.95992	0.4416034	1.3784	0	0	3.48232
11:47:07				19	8.99035	0.4400008	1.3784	0	0	3.46591
11:47:08				20	8.99133	0.4451294	1.4768	0	0	3.50886
11:47:08				21	8.9756	0.446732	1.4768	0	0	3.52387
11:47:09				22	8.98245	0.4449688	1.3784	0	0	3.50839
11:47:09				23	9.00505	0.4454508	1.4768	0	0	3.51021
11:47:10				24	8.98441	0.4481751	1.4768	0	0	3.53513
11:47:10				25	8.98049	0.4465728	1.4768	0	0	3.52205
11:47:11				26	8.98147	0.4465728	1.4768	0	0	3.52196
11:47:11				27	8.99035	0.4475347	1.4768	0	0	3.52916
11:47:12				28	8.98839	0.4480142	1.4768	0	0	3.53339
11:47:12				29	8.99427	0.4472129	1.4768	0	0	3.52607
11:47:13				30	9.00407	0.4472129	1.4768	0	0	3.52511
11:47:13				31	9.00799	0.4480142	1.4768	0	0	3.53145
11:47:14				32	8.99917	0.4496179	1.4768	0	0	3.54579
11:47:14				33	9.00113	0.4488158	1.4768	0	0	3.53886
11:47:15				34	9.02561	0.448336	1.4768	0	0	3.53241
11:47:15				35	9.03149	0.4492973	1.4768	0	0	3.5399
11:47:16				36	9.00896	0.4483361	1.4768	0	0	3.53406
11:47:16				37	9.00603	0.4481751	1.4768	0	0	3.53299
11:47:17				38	9.00603	0.4481751	1.4768	0	0	3.53299
11:47:17				39	8.99819	0.4478549	1.4768	0	0	3.53108
11:47:18				40	9.00309	0.4480142	1.4768	0	0	3.53193
11:47:18				41	8.99819	0.4478549	1.4768	0	0	3.53108
11:47:19				42	8.99623	0.4478549	1.4768	0	0	3.53127
11:47:19				43	8.99525	0.4478549	1.4768	0	0	3.53137
11:47:20				44	8.98343	0.447694	1.4768	0	0	3.53118
11:47:20				45	8.98937	0.4480142	1.4768	0	0	3.53329
11:47:21				46	8.99231	0.4478549	1.4768	0	0	3.53166
11:47:21				47	8.97658	0.4465728	1.4768	0	0	3.52244
11:47:22				48	8.96384	0.4475347	1.4768	0	0	3.53178
11:47:22				49	8.93535	0.447213	1.4768	0	0	3.53189
11:47:23				50	8.94815	0.4449688	1.4768	0	0	3.51175
11:47:23				51	8.95207	0.4465729	1.4768	0	0	3.52485
11:47:24				52	8.95011	0.4462513	1.4768	0	0	3.52234
11:47:24				53	8.95011	0.4448098	1.4768	0	0	3.51022
11:47:25				54	8.94521	0.4436874	1.4768	0	0	3.50127
11:47:25				55	8.94619	0.4457707	1.4768	0	0	3.51869
11:47:26				56	8.95305	0.4454508	1.4768	0	0	3.51532
11:47:26				57	8.95305	0.4452902	1.4768	0	0	3.51397
11:47:27				58	8.95109	0.4436874	1.5752	0	0	3.50068
11:47:27				59	8.94227	0.4432059	1.4768	0	0	3.49751
11:47:28				60	8.93241	0.4446492	1.3784	0	0	3.51062
11:47:28				61	8.93437	0.4438479	1.4768	0	0	3.50368
11:47:29				62	8.92946	0.4422449	1.4768	0	0	3.49068

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:29				63	8.94025	0.444328	1.4768	0	0	3.50714
11:47:30				64	8.93731	0.4435269	1.4768	0	0	3.50069
11:47:30				65	8.93633	0.443047	1.4768	0	0	3.49675
11:47:31				66	8.94227	0.4435268	1.4768	0	0	3.5002
11:47:31				67	8.93731	0.4440085	1.4768	0	0	3.50474
11:47:32				68	8.93535	0.4436874	1.4768	0	0	3.50223
11:47:32				69	8.92358	0.443047	1.4768	0	0	3.498
11:47:33				70	8.91475	0.4433664	1.4768	0	0	3.50155
11:47:33				71	8.90789	0.4440085	1.4768	0	0	3.50763
11:47:34				72	8.90887	0.4438479	1.4768	0	0	3.50618
11:47:34				73	8.89808	0.4435269	1.4768	0	0	3.50454
11:47:35				74	8.88526	0.443848	1.4768	0	0	3.5085
11:47:35				75	8.89311	0.4440085	1.4768	0	0	3.50908
11:47:36				76	8.90298	0.4440085	1.4768	0	0	3.50811
11:47:36				77	8.89508	0.4436874	1.4768	0	0	3.50619
11:47:37				78	8.89409	0.4440085	1.4768	0	0	3.50898
11:47:37				79	8.902	0.4436874	1.4768	0	0	3.5055
11:47:38				80	8.90789	0.4438479	1.4768	0	0	3.50628
11:47:38				81	8.91672	0.4440085	1.4768	0	0	3.50676
11:47:39				82	8.91672	0.4436874	1.4768	0	0	3.50406
11:47:39				83	8.91279	0.4436874	1.4768	0	0	3.50445
11:47:40				84	8.90789	0.4440085	1.4768	0	0	3.50763
11:47:40				85	8.90004	0.4433664	1.4768	0	0	3.50299
11:47:41				86	8.8971	0.4435269	1.4768	0	0	3.50463
11:47:41				87	8.90004	0.4440085	1.4768	0	0	3.5084
11:47:42				88	8.89906	0.4433664	1.4768	0	0	3.50309
11:47:42				89	8.8971	0.443848	1.5752	0	0	3.50733
11:47:43				90	8.90004	0.4433664	1.4768	0	0	3.50299
11:47:43				91	8.89311	0.4432059	1.4768	0	0	3.50232
11:47:44				92	8.93241	0.4436874	1.4768	0	0	3.50252
11:47:44				93	8.9609	0.4436873	1.4768	0	0	3.49973
11:47:45				94	8.93535	0.4470537	1.4768	0	0	3.53055
11:47:45				95	8.95502	0.4520214	1.4768	0	0	3.57041
11:47:46				96	8.98049	0.4555481	1.4768	0.53724	0.2442	3.59754
11:47:46				97	8.99623	0.4520214	1.4768	0.39072	0.09768	3.56629
11:47:47				98	8.96384	0.4507394	1.4768	1.41636	0.9768	3.55874
11:47:47				99	8.96482	0.4497774	1.4768	1.41636	10.15873	3.55055
11:47:48				100	8.95207	0.4515408	1.4768	1.41636	10.15873	3.56665
11:47:48				101	8.95109	0.4504187	1.4768	1.41636	10.20757	3.55731
11:47:49				102	8.95305	0.4484955	1.4768	1.36752	10.40293	3.54093
11:47:49				103	8.94913	0.447213	1.4768	1.41636	10.15873	3.53053
11:47:50				104	8.94123	0.4502592	1.4768	1.4652	9.96337	3.55695
11:47:50				105	8.96384	0.4449688	1.4768	1.41636	10.01221	3.51021
11:47:51				106	8.95305	0.4446492	1.4768	1.4652	9.91453	3.50858
11:47:51				107	8.95011	0.4573111	1.4768	1.41636	10.45177	3.61545

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:52				108	9.13439	0.4512196	1.4768	1.41636	11.62393	3.54584
11:47:52				109	9.19894	0.4452898	1.4768	1.36752	11.91697	3.48992
11:47:53				110	9.0217	0.4396804	1.4768	7.37485	11.23321	3.46018
11:47:53				111	8.97952	0.4392001	1.3784	2.24664	11.33089	3.46024
11:47:54				112	8.97168	0.43888	1.4768	1.51404	11.67277	3.4583
11:47:54				113	8.95305	0.4396805	1.5752	1.36752	11.13553	3.46682
11:47:55				114	8.91966	0.4345525	1.4768	4.98168	10.89133	3.42698
11:47:55				115	8.90691	0.4383983	1.3784	5.37241	10.94017	3.46053
11:47:56				116	8.92456	0.4380783	1.5752	1.41636	10.74481	3.45612
11:47:56				117	8.90298	0.4385584	1.4768	1.41636	10.30525	3.46225
11:47:57				118	8.89906	0.4380783	1.4768	1.41636	10.79365	3.4586
11:47:57				119	8.90887	0.4375968	1.4768	1.4652	11.37973	3.4536
11:47:58				120	8.91083	0.4359949	1.4768	1.41636	11.57509	3.43995
11:47:58				121	8.90789	0.4375968	1.4768	1.36752	10.69597	3.45369
11:47:59				122	8.90397	0.4374369	1.4768	1.4652	10.35409	3.45273
11:47:59				123	8.89808	0.4366358	1.4768	1.4652	10.94017	3.44656
11:48:00				124	8.8971	0.4350332	1.4768	1.41636	11.18437	3.43318
11:48:01				127	8.88992	0.4364664	1.4768	1.41636	10.74481	3.44593
11:48:02				128	8.88502	0.435506	1.4768	1.41636	10.54945	3.43832
11:48:02				129	8.88306	0.4415955	1.4768	1.41636	10.50061	3.48975
11:48:03				130	8.91549	0.4385503	1.4768	1.41636	11.47741	3.46097
11:48:03				131	8.94197	0.4375887	1.4768	1.41636	11.42857	3.45033
11:48:04				132	8.94197	0.4427165	1.4768	1.4652	10.59829	3.49342
11:48:04				133	9.02439	0.4427163	1.4768	1.41636	9.86569	3.48537
11:48:05				134	9.08122	0.4265312	1.4768	1.41636	9.86569	3.34451
11:48:05				135	9.0381	0.4265313	1.4768	2.49084	11.47741	3.34854
11:48:06				136	9.02145	0.4371073	1.4768	1.41636	10.69597	3.43864
11:48:06				137	8.98319	0.4348638	1.4768	1.4652	10.69597	3.4235
11:48:07				138	8.93902	0.4324607	1.4768	1.41636	10.20757	3.40756
11:48:07				139	8.91052	0.4015336	1.4768	1.41636	10.59829	3.15128
11:48:08				140	8.86631	0.4241277	1.4768	1.36752	10.59829	3.34449
11:48:08				141	8.87717	0.4244482	1.4768	1.41636	10.45177	3.34616
11:48:09				142	8.85748	0.3986493	1.4768	1.41636	10.20757	3.13185
11:48:09				143	8.78376	0.3948037	1.4768	1.4652	10.40293	3.10614
11:48:10				144	8.6912	0.4031355	1.4768	1.41636	10.64713	3.18419
11:48:10				145	8.69316	0.3973676	1.4768	1.41636	10.54945	3.13557
11:48:11				146	8.6744	0.3930409	1.4768	1.41636	10.54945	3.10089
11:48:11				147	8.65472	0.3941636	1.4768	1.4652	10.59829	3.11204
11:48:12				148	8.64782	0.3883953	1.4768	1.41636	10.94017	3.06422
11:48:12				149	8.62708	0.390798	1.4768	1.4652	10.69597	3.08618
11:48:13				150	8.62708	0.3925601	1.4768	1.41636	10.40293	3.10098
11:48:13				151	8.62807	0.3912784	1.4768	1.41636	10.30525	3.09013
11:48:14				152	8.6192	0.3903178	1.4768	1.36752	10.40293	3.08283
11:48:14				153	8.61132	0.3903178	1.4768	1.41636	10.25641	3.08351
11:48:15				154	8.61033	0.3893563	1.4768	1.41636	10.59829	3.07552

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:48:15				155	8.60442	0.3887151	1.4768	1.4652	11.08669	3.07065
11:48:16				156	8.60344	0.386793	1.4768	1.41636	10.54945	3.05459
11:48:16				157	8.59352	0.3932013	1.4768	1.41636	10.64713	3.10931
11:48:17				158	8.62314	0.4029758	1.4768	1.41636	10.74481	3.18894
11:48:17				159	8.66751	0.396887	1.4768	1.41636	10.64713	3.13379
11:48:18				160	8.63299	0.4047372	1.4768	1.41636	10.69597	3.20289
11:48:18				161	8.64979	0.4262109	1.4768	1.41636	11.23321	3.38248
11:48:19				162	8.67244	0.4103458	1.4768	1.41636	10.69597	3.24654
11:48:19				163	8.64782	0.4222045	1.4768	1.4652	10.45177	3.34883
11:48:20				164	8.68031	0.4329411	1.4768	1.41636	10.74481	3.43645
11:48:20				165	8.73651	0.4217227	1.4768	1.41636	10.64713	3.33643
11:48:21				166	8.75814	0.4170761	1.4768	1.4652	10.15873	3.2953
11:48:21				167	8.72071	0.4077817	1.4768	1.41636	10.84249	3.22058
11:48:22				168	8.69808	0.4053785	1.4768	1.41636	10.64713	3.20242
11:48:22				169	8.70005	0.4089037	1.4768	1.41636	10.59829	3.23189
11:48:23				170	8.69415	0.4066605	1.4768	1.41636	10.54945	3.21356
11:48:23				171	8.68228	0.4082625	1.4768	1.41636	10.30525	3.22811
11:48:24				172	8.67933	0.4153141	1.4768	1.4652	10.25641	3.28776
11:48:24				173	8.70202	0.4254088	1.4768	1.4652	10.79365	3.37075
11:48:25				174	8.71481	0.4162754	1.4768	1.41636	10.25641	3.29257
11:48:25				175	8.70596	0.4103458	1.4768	1.41636	9.67033	3.24348
11:48:26				176	8.69316	0.4278129	1.4768	1.41636	9.67033	3.39189
11:48:26				177	8.71973	0.4334228	1.4768	1.41636	10.50061	3.43671
11:48:27				178	8.77884	0.4335823	1.4768	1.36752	10.35409	3.43235
11:48:27				179	8.79063	0.424288	1.4768	1.41636	10.25641	3.35294
11:48:28				180	8.766	0.43182	1.4768	1.41636	9.91453	3.41873
11:48:28				181	8.80144	0.4380689	1.4768	1.4652	9.91453	3.468
11:48:29				182	8.86631	0.4358256	1.4768	1.41636	10.35409	3.44281
11:48:29				183	8.8703	0.4331019	1.5752	1.41636	9.76801	3.41951
11:48:30				184	8.83686	0.4146717	1.4768	1.4652	9.62149	3.26786
11:48:30				185	8.82011	0.4127499	1.4768	1.4652	10.25641	3.25327
11:48:31				186	8.74044	0.4146718	1.4768	1.4652	10.54945	3.27671
11:48:31				187	8.7276	0.4148328	1.5752	1.41636	10.30525	3.27925
11:48:32				188	8.71579	0.4100248	1.4768	1.41636	10.35409	3.23989
11:48:32				189	8.70792	0.4233252	1.4768	1.41636	10.30525	3.35262
11:48:33				190	8.70989	0.4177177	1.4768	1.41636	10.45177	3.30518
11:48:33				191	8.71481	0.4162754	1.4768	1.41636	10.10989	3.29257
11:48:34				192	8.70792	0.4125893	1.5752	1.41636	10.30525	3.26218
11:48:34				193	8.71186	0.4114679	1.4768	1.36752	10.30525	3.25238
11:48:35				194	8.70399	0.4113074	1.4768	1.41636	11.13553	3.25175
11:48:35				195	8.70497	0.4119482	1.4768	1.41636	10.20757	3.25706
11:48:36				196	8.70792	0.4124286	1.4768	1.41636	10.20757	3.26083
11:48:36				197	8.70989	0.4116285	1.4768	1.41636	10.25641	3.25392
11:48:37				198	8.71186	0.4129092	1.4768	1.4652	10.35409	3.26451
11:48:37				199	8.72465	0.4156344	1.4768	1.4652	10.06105	3.28627

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:48:38				200	8.75421	0.4209228	1.4768	1.4652	10.40293	3.32804
11:48:38				201	8.76699	0.4145125	1.4768	1.41636	10.30525	3.27293
11:48:39				202	8.74831	0.4156344	1.4768	1.41636	10.25641	3.28409
11:48:39				203	8.74634	0.4239676	1.4768	1.41636	10.06105	3.35442
11:48:40				204	8.76699	0.4202816	1.4768	1.41636	10.10989	3.32145
11:48:40				205	8.78376	0.4206013	1.4768	1.41636	9.91453	3.32257
11:48:41				206	8.78179	0.4194792	1.4768	1.41636	10.35409	3.31332
11:48:41				207	8.77583	0.4191596	1.4768	1.41636	10.10989	3.31119
11:48:42				208	8.77485	0.4209228	1.4768	1.41636	9.91453	3.32611
11:48:42				209	8.77786	0.4292557	1.4768	1.41636	10.59829	3.39598
11:48:43				210	8.80537	0.4375889	1.5752	1.41636	10.20757	3.46356
11:48:43				211	8.83882	0.4318199	1.5752	1.4652	10.59829	3.41174
11:48:44				212	8.84962	0.4337418	1.5752	1.4652	9.76801	3.42688
11:48:44				213	8.87521	0.4314979	1.4768	1.41636	10.79365	3.40557
11:48:45				214	8.86735	0.4310183	1.3784	1.4652	10.64713	3.40229
11:48:45				215	8.82011	0.4246085	1.5752	1.4652	10.30525	3.35286
11:48:46				216	8.82311	0.4238073	1.5752	1.4652	10.01221	3.34584
11:48:46				217	8.82213	0.4231649	1.5752	1.4652	9.96337	3.34054
11:48:47				218	8.80832	0.4175564	1.5752	1.4652	10.30525	3.2947
11:48:47				219	8.81127	0.4204414	1.5752	1.4652	10.30525	3.31866
11:48:48				220	8.77884	0.4212427	1.6736	1.4652	10.40293	3.32842
11:48:48				221	8.78081	0.4210827	1.772	1.41636	10.15873	3.32688
11:48:49				222	8.77982	0.4204414	1.772	1.41636	9.86569	3.32158
11:48:49				223	8.78277	0.4210827	1.772	1.41636	10.25641	3.3267
11:48:50				224	8.81127	0.4218842	1.9687	1.41636	10.35409	3.33077
11:48:50				225	8.81028	0.4223644	1.9687	1.41636	9.96337	3.3349
11:48:51				226	8.82508	0.4236455	1.9687	1.41636	9.96337	3.34428
11:48:51				227	8.82999	0.4228447	2.0671	1.41636	10.30525	3.33708
11:48:52				228	8.82109	0.4241277	2.1655	1.41636	10.69597	3.3487
11:48:52				229	8.82508	0.4226846	2.2639	1.41636	9.91453	3.33619
11:48:53				230	8.82802	0.4233251	2.2639	1.4652	9.86569	3.34129
11:48:53				231	8.82508	0.4217226	2.2639	1.4652	9.76801	3.3281
11:48:54				232	8.81912	0.4222043	2.2639	1.4652	9.52381	3.33271
11:48:54				233	8.80832	0.4371076	2.3623	1.41636	9.67033	3.45917
11:48:55				234	8.81716	0.4472052	2.4606	1.41636	9.86569	3.54349
11:48:55				235	8.94785	0.4339028	2.4606	1.41636	10.10989	3.41877
11:48:56				236	8.91745	0.4512119	2.4606	1.36752	10.01221	3.56729
11:48:56				237	8.94981	0.4516924	2.559	1.36752	10.40293	3.56809
11:48:57				238	9.01851	0.4369474	2.559	1.41636	10.35409	3.43752
11:48:57				239	8.94785	0.4379087	2.559	1.41636	9.76801	3.45239
11:48:58				240	8.90464	0.4390306	2.4606	1.41636	9.76801	3.46601
11:48:58				241	8.90268	0.4640347	2.559	1.41636	9.71917	3.67696
11:48:59				242	8.93902	0.4457627	2.559	1.41636	9.96337	3.51927
11:48:59				243	8.94	0.4516924	2.559	1.41636	9.67033	3.56907
11:49:00				244	8.99103	0.4468848	2.559	1.41636	10.01221	3.52357

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:01				247	9.04874	0.4629091	2.559	1.4652	9.71917	3.65249
11:49:02				248	9.10561	0.4488044	2.559	1.41636	9.81685	3.52839
11:49:02				249	9.06152	0.4500866	2.4606	1.41636	9.42613	3.5435
11:49:03				250	9.06642	0.4576184	2.559	1.41636	9.42613	3.60623
11:49:03				251	9.11734	0.4595421	2.559	1.41636	10.06105	3.61724
11:49:04				252	9.11637	0.4689992	2.559	1.41636	9.32845	3.69675
11:49:04				253	9.17019	0.477496	2.559	1.4652	10.25641	3.76256
11:49:05				254	9.3412	0.4712436	2.559	1.36752	10.20757	3.69242
11:49:05				255	9.36653	0.4706026	2.559	8.84005	9.47497	3.68447
11:49:06				256	9.34022	0.4787779	2.4606	5.95849	9.47497	3.75551
11:49:06				257	9.38114	0.4762127	2.559	7.91209	9.86569	3.72981
11:49:07				258	9.42112	0.4722045	2.6574	10.40293	9.32845	3.69223
11:49:07				259	9.35191	0.4584209	2.559	9.62149	8.98657	3.58434
11:49:08				260	9.27575	0.4593815	2.559	8.05861	9.08425	3.59996
11:49:08				261	9.2777	0.4800596	2.559	4.93284	9.67033	3.77279
11:49:09				262	9.34704	0.4590606	2.6574	6.49573	9.32845	3.59015
11:49:09				263	9.26599	0.4593815	2.559	8.35165	8.79121	3.60094
11:49:10				264	9.26306	0.4314942	2.559	6.54457	8.98657	3.36879
11:49:10				265	9.25428	0.4433547	2.4606	5.27473	9.42613	3.46836
11:49:11				266	9.18582	0.4326167	2.559	5.66545	9.67033	3.3854
11:49:11				267	9.23177	0.4330967	2.559	4.20024	9.62149	3.38506
11:49:12				268	9.27965	0.4411108	2.559	5.17705	9.86569	3.44722
11:49:12				269	9.40555	0.439507	2.559	6.59341	9.52381	3.42188
11:49:13				270	9.43378	0.4353407	2.559	6.05617	9.91453	3.38468
11:49:13				271	9.40555	0.4297308	2.559	6.44689	9.67033	3.34087
11:49:14				272	9.38698	0.439507	2.559	6.69109	9.81685	3.42364
11:49:14				273	9.3675	0.4311738	2.559	7.42369	9.81685	3.35636
11:49:15				274	9.29434	0.4292502	2.559	7.32601	9.71917	3.34722
11:49:15				275	9.14081	0.4374238	2.4606	6.34921	9.52381	3.42978
11:49:16				276	9.13005	0.4435138	2.559	3.4188	9.86569	3.48171
11:49:16				277	9.24745	0.4337381	2.6574	5.32357	10.06105	3.38892
11:49:17				278	9.12614	0.4321352	2.559	6.00733	9.57265	3.38702
11:49:17				279	9.03895	0.4273276	2.559	2.97924	9.67033	3.35506
11:49:18				280	9.04972	0.4250844	2.559	2.1978	10.01221	3.33531
11:49:18				281	9.08892	0.4305338	2.559	1.41636	10.69597	3.37716
11:49:19				282	9.09772	0.4279698	2.559	1.4652	10.69597	3.35492
11:49:19				283	9.08305	0.4281289	2.559	1.41636	9.91453	3.35762
11:49:20				284	9.09283	0.4364629	2.559	7.57021	9.91453	3.42634
11:49:20				285	9.12614	0.4337382	2.559	4.05372	9.91453	3.4004
11:49:21				286	9.15455	0.431335	2.559	3.32112	9.52381	3.37766
11:49:21				287	9.15162	0.4433548	2.559	3.4188	9.91453	3.47829
11:49:22				288	9.19168	0.488396	2.559	3.46764	9.76801	3.85193
11:49:22				289	9.29824	0.4476807	2.559	3.12576	9.81685	3.50014
11:49:23				290	9.27672	0.4502459	2.559	3.46764	9.52381	3.52362
11:49:23				291	9.26501	0.5079563	2.559	4.44444	9.67033	4.00856

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:24				292	9.33821	0.4951304	2.559	5.27473	10.35409	3.8927
11:49:24				293	9.47956	0.491282	2.559	6.39805	9.18193	3.8453
11:49:25				294	9.56133	0.4770141	2.559	6.69109	9.03541	3.71787
11:49:25				295	9.53406	0.4730059	2.559	8.79121	8.79121	3.68735
11:49:26				296	9.47567	0.5138884	2.559	10.64713	8.93773	4.03485
11:49:26				297	9.56716	0.5137279	2.559	12.16117	8.84005	4.02329
11:49:27				298	9.62644	0.4823032	2.559	13.57753	8.40049	3.75507
11:49:27				299	9.55744	0.4930447	2.559	13.43101	8.44933	3.8517
11:49:28				300	9.58075	0.532007	2.559	11.08669	8.79121	4.17475
11:49:28				301	9.63129	0.5238296	2.559	12.45421	8.74237	4.10052
11:49:29				302	9.63614	0.5167737	2.559	11.67277	7.86325	4.04103
11:49:29				303	9.61965	0.5082754	2.559	11.72161	8.10745	3.97195
11:49:30				304	9.60897	0.5273567	2.4606	11.47741	8.44933	4.13257
11:49:30				305	9.6527	0.5470813	2.559	11.42857	8.84005	4.29267
11:49:31				306	9.68082	0.5336101	2.559	11.91697	8.59585	4.1766
11:49:31				307	9.6624	0.517095	2.559	11.77045	8.20513	4.04078
11:49:32				308	9.65658	0.529281	2.559	11.52625	8.49817	4.1432
11:49:32				309	9.67016	0.5499675	2.559	11.52625	8.64469	4.31479
11:49:33				310	9.69446	0.5446748	2.559	11.77045	8.30281	4.26757
11:49:33				311	9.70318	0.5397034	2.559	12.01465	8.79121	4.22495
11:49:34				312	9.6964	0.526554	2.559	12.16117	8.15629	4.11588
11:49:34				313	9.67888	0.5211022	2.559	12.89377	7.96093	4.07236
11:49:35				314	9.69931	0.5860551	2.559	13.08913	8.35165	4.61439
11:49:35				315	9.7342	0.5254324	2.559	13.67521	8.30281	4.10223
11:49:36				316	9.71578	0.5183772	2.559	13.52869	8.15629	4.0455
11:49:36				317	9.69834	0.6739757	2.559	12.16117	8.44933	5.35935
11:49:37				318	9.71094	0.6232721	2.559	12.30769	8.49817	4.92701
11:49:37				319	9.70997	0.5729019	2.559	9.57265	7.37485	4.50242
11:49:38				320	9.67695	0.5122834	2.559	10.25641	7.57021	3.99904
11:49:38				321	9.67985	0.7381794	2.4606	10.79365	8.64469	5.91165
11:49:39				322	9.70512	0.592952	2.559	10.94017	8.44933	4.67175
11:49:39				323	9.70318	0.6211858	2.4606	6.15385	7.08181	4.91042
11:49:40				324	9.6964	0.5923096	2.559	8.25397	7.47253	4.66746
11:49:40				325	9.69931	0.7360926	2.4606	9.91453	7.91209	5.89055
11:49:41				326	9.70706	0.6900257	2.559	10.15873	8.93773	5.49493
11:49:41				327	9.71869	0.6802354	2.559	10.01221	7.71673	5.40967
11:49:42				328	9.72451	0.684569	2.559	9.52381	7.42369	5.44574
11:49:42				329	9.71966	0.6203843	2.559	8.54701	7.22833	4.9014
11:49:43				330	9.70609	0.6030589	2.4606	8.54701	7.52137	4.75686
11:49:43				331	9.70124	0.7157048	2.559	9.32845	7.76557	5.7154
11:49:44				332	9.72354	0.693235	2.559	2.442	6.88645	5.51981
11:49:44				333	9.72257	0.6765448	2.559	2.442	6.93529	5.37764
11:49:45				334	9.70609	0.6579296	2.559	1.41636	5.90965	5.22165
11:49:45				335	9.71288	0.7158653	2.559	1.41636	6.39805	5.71493
11:49:46				336	9.71966	0.6715687	2.559	3.9072	6.00733	5.3357

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:46				337	9.72063	0.6815197	2.559	3.95604	6.05617	5.42032
11:49:47				338	9.71869	0.6759031	2.559	1.41636	5.51893	5.37275
11:49:47				339	9.71675	0.7211632	2.4606	1.4652	5.61661	5.7597
11:49:48				340	9.72741	0.7173109	2.559	1.41636	5.76313	5.72501
11:49:48				341	9.72935	0.709446	2.559	1.41636	5.07937	5.65741
11:49:49				342	9.72741	0.7201995	2.559	1.41636	5.32357	5.74974
11:49:49				343	9.72935	0.7364129	2.559	1.4652	5.56777	5.88839
11:49:50				344	9.73323	0.7455635	2.559	1.41636	5.37241	5.9663
11:49:50				345	9.7371	0.7598522	2.4606	1.41636	5.51893	6.08846
11:49:51				346	9.73904	0.7539117	2.559	1.41636	5.37241	6.03705
11:49:51				347	9.74001	0.7322389	2.559	1.41636	5.27473	5.85087
11:49:52				348	9.7342	0.7468467	2.559	1.4652	5.27473	5.97716
11:49:52				349	9.73516	0.7534294	2.559	1.41636	5.42125	6.03356
11:49:53				350	9.74001	0.7511825	2.559	1.41636	5.32357	6.01344
11:49:53				351	9.74098	0.7402661	2.559	1.36752	5.17705	5.91955
11:49:54				352	9.73904	0.7426742	2.559	1.41636	5.22589	5.94054
11:49:54				353	9.7371	0.7401056	2.4606	1.41636	5.37241	5.91882
11:49:55				354	9.74001	0.7579242	2.4606	1.41636	5.32357	6.07139
11:49:55				355	9.74001	0.7433149	2.559	1.4652	5.37241	5.94588
11:49:56				356	9.73904	0.7431561	2.559	1.36752	5.32357	5.94467
11:49:56				357	9.73904	0.7410685	2.559	1.4652	5.32357	5.92676
11:49:57				358	9.73807	0.7559979	2.4606	1.41636	5.22589	6.05516
11:49:57				359	9.74201	0.7688434	2.559	1.41636	5.81197	6.16499
11:49:58				360	9.74394	0.7649892	2.559	1.4652	5.71429	6.13149
11:49:58				361	9.74394	0.7537503	2.559	1.36752	5.17705	6.03485
11:49:59				362	9.74298	0.749095	2.559	1.41636	5.27473	5.99502
11:49:59				363	9.74201	0.7616179	2.4606	1.41636	5.32357	6.10282
11:50:00				364	9.74394	0.7559979	2.559	1.41636	5.56777	6.05416
11:50:01				367	9.74334	0.752617	2.4606	1.41636	5.42125	6.02522
11:50:02				368	9.74431	0.7497282	2.559	1.41636	5.56777	6.00023
11:50:02				369	9.74431	0.7473202	2.559	1.41636	5.32357	5.97955
11:50:03				370	9.74237	0.7469983	2.559	1.4652	5.56777	5.97711
11:50:03				371	9.74237	0.7407382	2.559	1.36752	5.47009	5.92338
11:50:04				372	9.74334	0.742183	2.559	1.41636	5.51893	5.93561
11:50:04				373	9.74237	0.7434662	2.559	1.41636	5.37241	5.94679
11:50:05				374	9.74334	0.7397754	2.559	1.41636	5.32357	5.91496
11:50:05				375	9.7414	0.7408987	2.559	1.4652	5.61661	5.92491
11:50:06				376	9.7414	0.7405777	2.559	1.41636	5.51893	5.92216
11:50:06				377	9.7414	0.7386509	2.559	1.41636	5.47009	5.90563
11:50:07				378	9.74037	0.7429861	2.559	1.4652	5.51893	5.94299
11:50:07				379	9.74037	0.7384906	2.559	1.41636	5.71429	5.90442
11:50:08				380	9.7394	0.7336746	2.559	1.41636	5.61661	5.86327
11:50:08				381	9.7414	0.7327112	2.559	1.41636	5.32357	5.85469
11:50:09				382	9.7394	0.7407382	2.559	1.41636	5.51893	5.92386
11:50:09				383	9.74037	0.7426648	2.559	1.4652	5.81197	5.94024

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:10				384	9.7394	0.7335146	2.559	1.4652	5.61661	5.8619
11:50:10				385	9.73843	0.7296617	2.559	1.41636	5.47009	5.82903
11:50:11				386	9.7394	0.7314266	2.559	1.41636	5.66545	5.844
11:50:11				387	9.7414	0.7323913	2.559	1.4652	6.20269	5.85195
11:50:12				388	9.7394	0.7224382	2.559	1.41636	5.86081	5.767
11:50:12				389	9.7365	0.7184249	2.559	1.41636	5.81197	5.7331
11:50:13				390	9.73746	0.7280559	2.4606	1.41636	6.25153	5.81543
11:50:13				391	9.73746	0.7211539	2.559	1.41636	6.25153	5.75631
11:50:14				392	9.73843	0.7095969	2.6574	2.24664	6.30037	5.65727
11:50:14				393	9.73359	0.6933866	2.559	2.24664	6.30037	5.51957
11:50:15				394	9.7239	0.6946714	2.4606	2.1978	6.30037	5.53203
11:50:15				395	9.72002	0.6967582	2.559	7.42369	7.27717	5.55043
11:50:16				396	9.72293	0.6717225	2.559	5.12821	6.88645	5.33652
11:50:16				397	9.71905	0.6677106	2.6574	1.75824	6.49573	5.30294
11:50:17				398	9.71227	0.6738091	2.559	3.71184	6.49573	5.35587
11:50:17				399	9.71324	0.7261305	2.4606	5.37241	7.08181	5.80283
11:50:18				400	9.7239	0.7301427	2.559	4.34676	7.22833	5.8355
11:50:18				401	9.73068	0.6951522	2.559	1.75824	6.88645	5.53508
11:50:19				402	9.72099	0.6810291	2.559	1.41636	6.20269	5.41609
11:50:19				403	9.68313	0.6397902	2.559	3.07692	6.78877	5.07084
11:50:20				404	9.69191	0.6933867	2.4606	4.68864	7.42369	5.52595
11:50:20				405	9.70549	0.6558351	2.559	6.69109	7.52137	5.20393
11:50:21				406	9.70452	0.652787	2.559	8.20513	7.13065	5.17817
11:50:21				407	9.69773	0.5980794	2.559	7.42369	7.47253	4.71594
11:50:22				408	9.70064	0.6470114	2.4606	6.49573	7.91209	5.12967
11:50:22				409	9.70452	0.6308067	2.559	6.05617	7.27717	4.99169
11:50:23				410	9.70549	0.6165279	2.559	8.25397	7.13065	4.87071
11:50:23				411	9.68507	0.5857272	2.559	8.20513	7.32601	4.61345
11:50:24				412	9.68701	0.6033722	2.559	7.96093	7.71673	4.76201
11:50:24				413	9.69385	0.5908603	2.559	8.10745	8.20513	4.65557
11:50:25				414	9.69191	0.5939082	2.559	8.74237	7.81441	4.68152
11:50:25				415	9.68804	0.5769064	2.559	9.27961	7.61905	4.53882
11:50:26				416	9.69579	0.5669615	2.559	8.84005	8.00977	4.45427
11:50:26				417	9.70161	0.5658397	2.559	7.52137	7.91209	4.44414
11:50:27				418	9.70161	0.5748212	2.559	7.42369	8.05861	4.51959
11:50:27				419	9.70161	0.5812374	2.559	7.22833	7.66789	4.57355
11:50:28				420	9.69482	0.5878136	2.559	7.17949	8.05861	4.62978
11:50:28				421	9.68901	0.6070616	2.559	7.27717	8.20513	4.79291
11:50:29				422	9.68901	0.576264	2.559	7.08181	8.54701	4.5333
11:50:29				423	9.64627	0.5597446	2.559	7.03297	7.86325	4.39972
11:50:30				424	9.5782	0.5984008	2.4606	6.78877	8.10745	4.7343
11:50:30				425	9.63263	0.5874924	2.559	6.73993	8.79121	4.63504
11:50:31				426	9.66082	0.5599055	2.559	8.74237	8.05861	4.3993
11:50:31				427	9.57141	0.5403406	2.559	9.57265	8.05861	4.24574
11:50:32				428	9.56266	0.5823596	2.559	7.96093	8.74237	4.60066

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:32				429	9.60351	0.5448312	2.559	7.86325	8.69353	4.27964
11:50:33				430	9.60933	0.5379359	2.559	9.67033	8.05861	4.22112
11:50:33				431	9.54518	0.534247	2.559	9.27961	8.15629	4.19767
11:50:34				432	9.53643	0.5736987	2.4606	8.25397	8.74237	4.53084
11:50:34				433	9.56558	0.5392192	2.559	8.25397	8.49817	4.23701
11:50:35				434	9.56461	0.537936	2.559	7.61905	8.25397	4.22636
11:50:35				435	9.54032	0.5315213	2.559	7.27717	8.74237	4.17536
11:50:36				436	9.54712	0.5340866	2.559	6.34921	8.69353	4.19609
11:50:36				437	9.55489	0.5302382	2.559	5.76313	8.44933	4.16291
11:50:37				438	9.54615	0.5236651	2.559	5.71429	8.64469	4.10882
11:50:37				439	9.55101	0.5259085	2.559	6.05617	8.74237	4.12707
11:50:38				440	9.54421	0.5220603	2.559	6.78877	8.35165	4.0956
11:50:38				441	9.50333	0.5161282	2.559	7.03297	8.40049	4.05052
11:50:39				442	9.49555	0.5967971	2.559	6.69109	8.88889	4.73156
11:50:39				443	9.49457	0.5360112	2.559	6.54457	8.88889	4.21839
11:50:40				444	9.48874	0.5283147	2.559	5.27473	8.00977	4.1544
11:50:40				445	9.47506	0.5345681	2.559	5.90965	8.20513	4.20854
11:50:41				446	9.47215	0.5379362	2.559	6.05617	8.84005	4.23721
11:50:41				447	9.47215	0.5419444	2.559	6.10501	8.35165	4.27095
11:50:42				448	9.47117	0.5405018	2.559	6.20269	8.59585	4.25892
11:50:42				449	9.46631	0.5371342	2.559	6.25153	8.59585	4.23115
11:50:43				450	9.46047	0.5303985	2.559	6.34921	8.35165	4.17518
11:50:43				451	9.45658	0.5360113	2.559	6.30037	8.74237	4.22284
11:50:44				452	9.45269	0.5473963	2.559	6.20269	9.23077	4.3192
11:50:44				453	9.43809	0.5310409	2.559	5.51893	8.40049	4.18318
11:50:45				454	9.44783	0.5265511	2.559	6.10501	8.44933	4.1443
11:50:45				455	9.44393	0.5504449	2.559	6.00733	8.79121	4.34596
11:50:46				456	9.45269	0.532483	2.559	5.56777	8.44933	4.19361
11:50:46				457	9.46145	0.5257489	2.559	5.51893	8.15629	4.13599
11:50:47				458	9.45074	0.5390585	2.559	5.76313	8.15629	4.24918
11:50:47				459	9.45366	0.569529	2.559	5.61661	8.59585	4.50597
11:50:48				460	9.47701	0.5560577	2.559	5.76313	8.20513	4.3893
11:50:48				461	9.49555	0.5427468	2.6574	4.78632	8.00977	4.27492
11:50:49				462	9.48193	0.5405018	2.559	4.73748	7.86325	4.25764
11:50:49				463	9.47409	0.5785101	2.559	4.83516	8.30281	4.57939
11:50:50				464	9.50527	0.570651	2.559	4.54212	8.44933	4.509
11:50:50				465	9.51013	0.5316816	2.559	4.54212	7.96093	4.1802
11:50:51				466	9.42733	0.5093953	2.559	5.07937	8.20513	4.00258
11:50:51				467	9.40981	0.57418	2.559	5.12821	9.52381	4.55087
11:50:52				468	9.42441	0.5228627	2.559	5.90965	8.74237	4.11598
11:50:52				469	9.363	0.5225422	2.559	5.03053	8.40049	4.12032
11:50:53				470	9.28983	0.4627448	2.559	4.3956	8.79121	3.62664
11:50:53				471	9.28495	0.5180531	2.559	3.663	9.47497	4.09141
11:50:54				472	9.32298	0.4911189	2.559	4.24908	9.08425	3.8607
11:50:54				473	9.32987	0.4813387	2.559	6.73993	8.88889	3.77802

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:55				474	9.28788	0.4651488	2.559	7.52137	8.98657	3.64693
11:50:55				475	9.28495	0.4569757	2.559	8.93773	9.13309	3.57896
11:50:56				476	9.28788	0.4556932	2.4606	11.33089	9.27961	3.56797
11:50:56				477	9.30738	0.4712404	2.559	14.21245	10.50061	3.69587
11:50:57				478	9.30251	0.4571358	2.559	14.50549	10.01221	3.57854
11:50:57				479	9.28885	0.4582575	2.559	13.77289	9.23077	3.58927
11:50:58				480	9.29763	0.4736448	2.4606	14.26129	9.13309	3.71699
11:50:58				481	9.29763	0.6641812	2.559	13.38217	9.42613	5.33498
11:50:59				482	9.4283	0.4981716	2.6574	10.54945	9.57265	3.90842
11:50:59				483	9.40007	0.5081126	2.559	9.23077	8.84005	3.99484
11:51:00				484	9.38059	0.6107531	2.559	10.15873	8.84005	4.86555
11:51:01				487	9.51627	0.7136244	2.559	8.54701	8.59585	5.72687
11:51:02				488	9.6242	0.6194263	2.559	8.79121	9.62149	4.90625
11:51:02				489	9.64166	0.6195868	2.559	1.4652	6.83761	4.90523
11:51:03				490	9.5921	0.6110847	2.559	3.46764	7.37485	4.83987
11:51:03				491	9.58822	0.6739814	2.559	7.52137	7.81441	5.37577
11:51:04				492	9.6174	0.6391615	2.559	7.81441	8.69353	5.07473
11:51:04				493	9.61934	0.684895	2.559	6.44689	7.71673	5.4644
11:51:05				494	9.63002	0.6340274	2.559	4.10256	7.37485	5.02934
11:51:05				495	9.63293	0.6309789	2.559	2.34432	7.17949	5.00305
11:51:06				496	9.60964	0.6736609	2.559	4.00488	7.08181	5.36985
11:51:06				497	9.63293	0.7349719	2.559	4.83516	7.86325	5.89174
11:51:07				498	9.6844	0.6908322	2.559	3.71184	7.61905	5.50526
11:51:07				499	9.69894	0.6747834	2.559	1.4652	7.17949	5.36615
11:51:08				500	9.64942	0.69982	2.559	1.41636	5.86081	5.58749
11:51:08				501	9.67082	0.7205251	2.559	1.41636	6.88645	5.76154
11:51:09				502	9.69991	0.7023885	2.559	1.41636	6.10501	5.60165
11:51:09				503	9.69022	0.6869796	2.559	1.4652	5.86081	5.47148
11:51:10				504	9.68634	0.7055976	2.559	1.4652	6.20269	5.63121
11:51:10				505	9.69313	0.7299961	2.559	1.4652	6.30037	5.83921
11:51:11				506	9.7067	0.7065604	2.559	1.41636	6.15385	5.63627
11:51:11				507	9.69506	0.7166721	2.559	1.41636	6.25153	5.72466
11:51:12				508	9.69991	0.7548786	2.559	1.41636	6.44689	6.05191
11:51:12				509	9.72517	0.7343296	2.559	1.41636	6.44689	5.8712
11:51:13				510	9.73486	0.7365768	2.559	1.41636	5.90965	5.8889
11:51:13				511	9.7242	0.7388244	2.559	1.41636	5.81197	5.90993
11:51:14				512	9.73099	0.7454064	2.559	1.4652	5.90965	5.96532
11:51:14				513	9.74067	0.7370593	2.559	1.4652	5.71429	5.89209
11:51:15				514	9.74164	0.7433186	2.559	1.41636	5.61661	5.94564
11:51:15				515	9.74067	0.7420355	2.559	1.41636	5.66545	5.93479
11:51:16				516	9.74164	0.7352937	2.559	1.41636	5.42125	5.87679
11:51:16				517	9.73583	0.7428386	2.559	1.36752	5.27473	5.94247
11:51:17				518	9.73874	0.7413933	2.559	1.41636	5.42125	5.92959
11:51:17				519	9.74261	0.7391451	2.6574	1.41636	5.42125	5.90966
11:51:18				520	9.74261	0.7405907	2.559	1.41636	5.22589	5.92207

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:51:18				521	9.73874	0.7413933	2.559	1.4652	5.37241	5.92959
11:51:19				522	9.73971	0.7474942	2.559	1.4652	5.51893	5.98181
11:51:19				523	9.74164	0.7494191	2.6574	1.41636	5.47009	5.99801
11:51:20				524	9.74552	0.7484564	2.559	1.41636	5.56777	5.98911
11:51:20				525	9.74939	0.7462087	2.559	1.41636	5.17705	5.96917
11:51:21				526	9.74552	0.7462088	2.559	1.41636	5.32357	5.96981
11:51:21				527	9.74455	0.7388243	2.559	1.41636	5.42125	5.9066
11:51:22				528	9.74746	0.7511862	2.559	1.41636	5.51893	6.01223
11:51:22				529	9.74746	0.7484564	2.559	1.41636	5.51893	5.98879
11:51:23				530	9.74649	0.7438007	2.559	1.4652	5.51893	5.94898
11:51:23				531	9.74358	0.7433186	2.559	1.4652	5.42125	5.94532
11:51:24				532	9.74261	0.7481363	2.559	1.4652	5.37241	5.98684
11:51:24				533	9.74649	0.7421961	2.6574	1.4652	5.27473	5.9352
11:51:25				534	9.74649	0.7434793	2.559	1.41636	4.98168	5.94622
11:51:25				535	9.74455	0.736899	2.559	1.4652	5.32357	5.89009
11:51:26				536	9.74455	0.7060788	2.559	1.41636	5.42125	5.62626
11:51:26				537	9.74649	0.7187593	2.559	1.41636	5.37241	5.73438
11:51:27				538	9.74067	0.7221309	2.559	1.41636	5.12821	5.76416
11:51:27				539	9.73777	0.7064005	2.559	1.41636	5.27473	5.63006
11:51:28				540	9.73292	0.69661	2.559	1.41636	5.47009	5.54718
11:51:28				541	9.7242	0.7067221	2.559	1.4652	5.47009	5.63493
11:51:29				542	9.72033	0.7084874	2.559	1.41636	5.47009	5.65063
11:51:29				543	9.72323	0.6956459	2.559	1.4652	5.81197	5.54044
11:51:30				544	9.71451	0.6836103	2.559	1.4652	6.00733	5.43907
11:51:30				545	9.70185	0.6792768	2.559	1.4652	6.34921	5.40401
11:51:31				546	9.70379	0.6856957	2.559	1.41636	6.10501	5.45847
11:51:31				547	9.70088	0.6813634	2.559	1.41636	6.15385	5.42195
11:51:32				548	9.70088	0.7051163	2.559	1.41636	5.86081	5.62483
11:51:32				549	9.70573	0.6834503	2.559	1.41636	5.86081	5.43902
11:51:33				550	9.70476	0.6831284	2.559	1.41636	5.76313	5.43642
11:51:33				551	9.70476	0.6858578	2.559	1.41636	5.90965	5.45971
11:51:34				552	9.70379	0.6879435	2.559	1.41636	5.76313	5.47765
11:51:34				553	9.70282	0.7022271	2.559	1.41636	6.10501	5.59982
11:51:35				554	9.70476	0.6917959	2.559	1.41636	6.10501	5.51039
11:51:35				555	9.7067	0.6909927	2.559	1.4652	5.76313	5.50324
11:51:36				556	9.70476	0.6921154	2.559	1.41636	5.86081	5.51312
11:51:36				557	9.70573	0.695326	2.559	1.4652	6.10501	5.54039
11:51:37				558	9.70767	0.6917959	2.559	1.4652	6.15385	5.50995
11:51:37				559	9.70767	0.692919	2.559	1.4652	5.86081	5.51954
11:51:38				560	9.70767	0.6871399	2.559	1.4652	6.05617	5.47021
11:51:38				561	9.7067	0.6959679	2.559	1.4652	5.95849	5.54573
11:51:39				562	9.70767	0.6938818	2.559	1.4652	5.76313	5.52776
11:51:39				563	9.70767	0.6933994	2.559	1.41636	5.81197	5.52364
11:51:40				564	9.70573	0.6946842	2.559	1.41636	5.76313	5.53491
11:51:40				565	9.70476	0.692919	2.559	1.4652	5.76313	5.51998

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:51:41				566	9.70379	0.7004613	2.559	1.41636	5.95849	5.58457
11:51:41				567	9.7067	0.6945233	2.559	1.41636	5.71429	5.53339
11:51:42				568	9.7067	0.6942016	2.559	1.41636	5.90965	5.53064
11:51:42				569	9.70185	0.6935602	2.559	1.41636	5.95849	5.5259
11:51:43				570	9.70573	0.6988562	2.559	1.41636	6.05617	5.57055
11:51:43				571	9.7067	0.693721	2.6574	1.41636	5.81197	5.52653
11:51:44				572	9.70476	0.6954869	2.559	1.41636	5.47009	5.54191
11:51:44				573	9.70088	0.696288	2.559	1.41636	5.76313	5.54935
11:51:45				574	9.70573	0.7213279	2.559	1.41636	6.00733	5.76286
11:51:45				575	9.71742	0.7116961	2.559	1.41636	5.76313	5.67853
11:51:46				576	9.7213	0.7028691	2.6574	1.41636	5.32357	5.60243
11:51:46				577	9.71548	0.7076837	2.559	1.4652	5.32357	5.64451
11:51:47				578	9.7096	0.722131	2.559	1.4652	5.81197	5.76912
11:51:47				579	9.71645	0.7137844	2.559	1.4652	6.54457	5.69655
11:51:48				580	9.7242	0.7129805	2.559	1.4652	5.81197	5.68845
11:51:48				581	9.72226	0.7147471	2.559	1.4652	5.51893	5.70388
11:51:49				582	9.71839	0.720525	2.559	1.41636	5.66545	5.75396
11:51:49				583	9.71742	0.7214888	2.559	1.4652	5.81197	5.76237
11:51:50				584	9.71936	0.7177967	2.559	1.4652	6.20269	5.73044
11:51:50				585	9.7213	0.7173146	2.559	1.41636	5.95849	5.72601
11:51:51				586	9.72033	0.7110551	2.6574	1.41636	5.71429	5.67258
11:51:51				587	9.71451	0.7036712	2.559	1.4652	6.10501	5.61035
11:51:52				588	9.71057	0.7076837	2.559	1.41636	5.90965	5.64528
11:51:52				589	9.70088	0.6765485	2.559	1.41636	5.90965	5.3809
11:51:53				590	9.69216	0.690511	2.559	1.41636	5.95849	5.50134
11:51:53				591	9.69506	0.6861782	2.559	1.41636	6.15385	5.46391
11:51:54				592	9.69022	0.7213279	2.559	1.41636	6.05617	5.76533
11:51:54				593	9.69216	0.70335	2.559	1.41636	6.78877	5.61107
11:51:55				594	9.69506	0.6837704	2.559	1.41636	6.34921	5.44336
11:51:55				595	9.6844	0.6523174	2.559	1.41636	6.20269	5.17706
11:51:56				596	9.65233	0.6739812	2.559	1.41636	6.73993	5.36623
11:51:56				597	9.65039	0.6726978	2.559	1.41636	6.73993	5.35557
11:51:57				598	9.65621	0.6428517	2.559	1.7094	6.59341	5.10062
11:51:57				599	9.64457	0.6296948	2.559	1.66056	6.64225	4.99054
11:51:58				600	9.61061	0.6131695	2.559	1.41636	6.93529	4.85506
11:51:58				601	9.60764	0.6648349	2.559	1.41636	6.88645	5.29479
11:51:59				602	9.5989	0.6455782	2.559	5.27473	7.42369	5.13193
11:51:59				603	9.5989	0.6094813	2.559	4.05372	7.66789	4.82538
11:52:00				604	9.59113	0.615577	2.559	4.44444	7.71673	4.87809
11:52:01				607	9.54348	0.5726127	2.559	5.61661	7.66789	4.52078
11:52:02				608	9.48023	0.5607432	2.559	5.66545	7.81441	4.42844
11:52:02				609	9.4179	0.5103887	2.559	5.86081	8.10745	4.01196
11:52:03				610	9.39934	0.5633107	2.559	5.71429	8.35165	4.46013
11:52:03				611	9.39058	0.5286701	2.6574	5.07937	8.35165	4.16873
11:52:04				612	9.36714	0.5227369	2.559	4.6398	7.76557	4.12148

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:52:04				613	9.33011	0.4661406	2.559	5.32357	8.10745	3.65093
11:52:05				614	9.29105	0.5381311	2.559	5.90965	9.13309	4.26025
11:52:05				615	9.28422	0.500288	2.6574	6.00733	9.23077	3.9419
11:52:06				616	9.24611	0.4996465	2.6574	5.22589	8.20513	3.94069
11:52:06				617	9.20602	0.4422589	2.559	5.66545	8.79121	3.46388
11:52:07				618	9.21286	0.4731942	2.559	5.07937	9.23077	3.72199
11:52:07				619	9.12969	0.4752793	2.559	5.42125	9.23077	3.74816
11:52:08				620	9.14246	0.473516	2.6574	5.17705	8.54701	3.732
11:52:08				621	9.12187	0.4638979	2.559	4.884	8.40049	3.65334
11:52:09				622	9.13464	0.4643787	2.559	4.98168	9.13309	3.65607
11:52:09				623	9.12871	0.4877835	2.559	4.93284	9.91453	3.85354
11:52:10				624	9.13659	0.4783245	2.6574	4.24908	8.59585	3.77305
11:52:10				625	9.13659	0.5012502	2.6574	3.9072	8.10745	3.96628
11:52:11				626	9.12969	0.4844161	2.559	4.93284	8.44933	3.82506
11:52:11				627	9.15028	0.4635763	2.559	4.98168	8.59585	3.64775
11:52:12				628	9.13659	0.5111914	2.559	4.93284	9.96337	4.0503
11:52:12				629	9.10426	0.4666224	2.6574	5.07937	10.40293	3.67802
11:52:13				630	9.10622	0.4655002	2.6574	5.37241	8.84005	3.66839
11:52:13				631	9.08562	0.4499529	2.559	4.83516	9.37729	3.53999
11:52:14				632	9.08073	0.4393745	2.4606	3.36996	9.57265	3.45186
11:52:14				633	9.05333	0.4451439	2.6574	3.9072	9.96337	3.50284
11:52:15				634	9.05039	0.4441818	2.6574	4.34676	9.18193	3.49506
11:52:15				635	9.05235	0.4445029	2.559	4.1514	9.52381	3.49757
11:52:16				636	9.04354	0.4429009	2.559	3.1746	9.76801	3.485
11:52:16				637	9.03761	0.4430597	2.559	2.442	9.96337	3.48691
11:52:17				638	9.03858	0.4429009	2.559	1.4652	9.71917	3.48548
11:52:17				639	9.02488	0.4420988	2.559	1.4652	9.76801	3.48009
11:52:18				640	8.99746	0.4422592	2.559	1.41636	9.42613	3.4841
11:52:18				641	8.99641	0.4416178	2.559	1.4652	9.42613	3.47882
11:52:19				642	8.99746	0.4408163	2.559	1.4652	9.86569	3.47199
11:52:19				643	8.96114	0.4449833	2.559	1.41636	10.35409	3.51054
11:52:20				644	8.95624	0.4406562	2.559	1.4652	10.30525	3.47465
11:52:20				645	8.9533	0.439695	2.559	1.4652	9.42613	3.46687
11:52:21				646	8.94736	0.4454654	2.559	1.41636	10.25641	3.51594
11:52:21				647	8.92677	0.4352073	2.559	1.4652	10.30525	3.43174
11:52:22				648	8.91892	0.4324831	2.559	1.4652	9.76801	3.40961
11:52:22				649	8.90415	0.4379312	2.559	1.4652	9.96337	3.45681
11:52:23				650	8.87962	0.4329632	2.6574	1.4652	10.89133	3.4174
11:52:23				651	8.87472	0.4339253	2.559	1.4652	9.86569	3.42596
11:52:24				652	8.86294	0.4355284	2.559	1.41636	9.71917	3.44058
11:52:24				653	8.8649	0.4419387	2.559	1.4652	10.01221	3.49436
11:52:25				654	8.90611	0.43697	2.6574	1.4652	10.25641	3.44853
11:52:25				655	8.89924	0.4361691	2.6574	1.41636	9.86569	3.44246
11:52:26				656	8.87373	0.4339253	2.559	1.4652	10.15873	3.42605
11:52:26				657	8.86686	0.4340849	2.4606	1.41636	10.69597	3.42806

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:52:27				658	8.87079	0.4339253	2.559	1.4652	10.20757	3.42634
11:52:27				659	8.86883	0.4342461	2.559	1.41636	9.62149	3.42922
11:52:28				660	8.86883	0.4312	2.559	1.41636	10.06105	3.40361
11:52:28				661	8.88649	0.4244688	2.559	1.41636	9.96337	3.3454
11:52:29				662	8.85699	0.4310407	2.559	1.4652	10.06105	3.4034
11:52:29				663	8.85797	0.4267127	2.6574	1.41636	10.10989	3.36692
11:52:30				664	8.86392	0.4286366	2.3623	1.4652	9.91453	3.38254
11:52:30				665	8.84815	0.4262329	2.559	1.41636	10.25641	3.36382
11:52:31				666	8.84815	0.428476	2.559	1.41636	10.74481	3.38268
11:52:31				667	8.86883	0.4268732	2.559	1.41636	10.64713	3.36725
11:52:32				668	8.87177	0.4275138	2.559	1.41636	9.42613	3.37235
11:52:32				669	8.87275	0.4320017	2.559	1.41636	9.81685	3.40997
11:52:33				670	8.87864	0.427835	2.559	1.41636	9.37729	3.3744
11:52:33				671	8.86686	0.4291172	2.3623	1.4652	9.67033	3.3863
11:52:34				672	8.8757	0.4340849	2.559	1.41636	9.86569	3.42721
11:52:34				673	8.91892	0.4321626	2.6574	1.41636	10.30525	3.40691
11:52:35				674	8.92481	0.4313609	2.559	1.41636	9.76801	3.39963
11:52:35				675	8.90121	0.4316812	2.559	1.41636	10.01221	3.40457
11:52:36				676	8.9101	0.4400154	2.559	1.41636	9.86569	3.47376
11:52:36				677	8.90611	0.4283152	2.559	1.41636	9.76801	3.37584
11:52:37				678	8.90415	0.4326426	2.559	1.41636	9.18193	3.41236
11:52:37				679	8.8963	0.4086048	2.559	1.41636	9.86569	3.21159
11:52:38				680	8.85502	0.4195013	2.6574	1.41636	9.96337	3.30665
11:52:38				681	8.84226	0.4228669	2.559	1.41636	10.06105	3.33609
11:52:39				682	8.84324	0.4331244	2.559	1.41636	10.30525	3.42224
11:52:39				683	8.85502	0.4231871	2.559	1.41636	10.25641	3.33759
11:52:40				684	8.84521	0.4352074	2.559	1.41636	10.25641	3.43959
11:52:40				685	8.83735	0.4368102	2.559	1.41636	10.15873	3.45384
11:52:41				686	8.83833	0.4347267	2.559	1.4652	10.40293	3.4362
11:52:41				687	8.84521	0.4485102	2.559	1.41636	10.10989	3.55171
11:52:42				688	8.85404	0.4329632	2.559	1.4652	9.91453	3.41985
11:52:42				689	8.86091	0.4302395	2.559	1.41636	9.91453	3.39629
11:52:43				690	8.86686	0.4236676	2.559	1.41636	10.15873	3.34052
11:52:43				691	8.85601	0.4300787	2.559	1.4652	10.74481	3.3954
11:52:44				692	8.84815	0.4382528	2.559	1.4652	10.30525	3.46495
11:52:44				693	8.8511	0.490991	2.559	1.4652	10.25641	3.91084
11:52:45				694	8.9101	0.4491509	2.559	1.4652	10.30525	3.55065
11:52:45				695	8.90317	0.453319	2.559	1.4652	9.67033	3.58647
11:52:46				696	8.87275	0.4746389	2.559	1.4652	9.47497	3.76978
11:52:46				697	8.91304	0.4808899	2.559	1.4652	10.01221	3.81843
11:52:47				698	8.93559	0.4733563	2.559	1.4652	10.20757	3.7523
11:52:47				699	8.94638	0.4489915	2.6574	1.4652	9.57265	3.5457
11:52:48				700	8.91696	0.4504333	2.559	1.4652	10.30525	3.56077
11:52:48				701	8.89434	0.4315219	2.559	1.41636	10.06105	3.40388
11:52:49				702	8.89238	0.7191143	2.559	1.4652	9.81685	5.87558

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:52:49				703	8.85601	0.6924698	2.559	1.4652	10.01221	5.64821
11:52:50				704	8.97094	0.5036559	2.6574	1.41636	9.62149	4.0051
11:52:50				705	8.90513	0.5703681	2.559	1.41636	9.86569	4.58269
11:52:51				706	8.94344	0.6754572	2.559	1.41636	10.01221	5.48613
11:52:51				707	9.07975	0.6931122	2.559	1.41636	9.76801	5.61849
11:52:52				708	9.36324	0.5700471	2.6574	1.41636	9.18193	4.5217
11:52:52				709	9.21774	0.5684423	2.559	1.41636	7.86325	4.52641
11:52:53				710	9.04648	0.5535264	2.559	1.41636	9.32845	4.42066
11:52:53				711	9.06116	0.5960323	2.559	1.41636	9.81685	4.78261
11:52:54				712	9.12284	0.5241798	2.559	1.41636	9.62149	4.16186
11:52:54				713	9.11013	0.5179261	2.4606	1.41636	9.42613	4.11033
11:52:55				714	9.0984	0.5208131	2.559	1.41636	10.01221	4.13615
11:52:55				715	9.09253	0.5743772	2.559	1.41636	10.10989	4.59298
11:52:56				716	9.08862	0.56732	2.559	1.41636	8.93773	4.53317
11:52:56				717	9.10818	0.5014112	2.559	1.41636	8.84005	3.97079
11:52:57				718	9.14148	0.6842847	2.559	1.41636	9.67033	5.53226
11:52:57				719	9.16787	0.53749	2.559	1.41636	9.37729	4.26946
11:52:58				720	9.13757	0.5039762	2.3623	1.51404	9.08425	3.98921
11:52:58				721	9.09448	0.5730944	2.559	1.4652	9.47497	4.58176
11:52:59				722	9.03565	0.5143987	2.6574	1.41636	10.25641	4.08894
11:52:59				723	9.03565	0.4945176	2.6574	1.4652	9.96337	3.9205
11:53:00				724	9.01117	0.4695078	2.559	1.4652	9.96337	3.71192
11:53:01				727	8.97057	0.4614796	2.6574	1.4652	9.86569	3.64843
11:53:02				728	8.95097	0.4593965	2.559	1.41636	9.81685	3.63287
11:53:02				729	8.94607	0.4680516	2.559	1.4652	10.35409	3.70639
11:53:03				730	8.92836	0.4520231	2.6574	1.41636	10.35409	3.57302
11:53:03				731	8.93823	0.449138	2.559	1.51404	9.57265	3.54775
11:53:04				732	8.9313	0.430706	2.559	1.41636	10.01221	3.39351
11:53:04				733	8.91855	0.4363161	2.559	2.29548	10.15873	3.44184
11:53:05				734	8.90777	0.4359949	2.6574	1.56288	10.01221	3.44018
11:53:05				735	8.91757	0.437277	2.559	1.61172	10.01221	3.45001
11:53:06				736	8.92836	0.4364759	2.4606	1.41636	9.96337	3.44224
11:53:06				737	8.95195	0.4335917	2.559	1.41636	9.86569	3.41576
11:53:07				738	8.95783	0.4366358	2.6574	3.71184	9.57265	3.44074
11:53:07				739	8.95293	0.4367972	2.6574	3.51648	9.32845	3.44256
11:53:08				740	8.94999	0.4369571	2.559	3.51648	9.67033	3.44419
11:53:08				741	8.95293	0.4359949	2.6574	2.97924	9.96337	3.43583
11:53:09				742	8.96077	0.4371117	2.6574	3.61416	10.25641	3.44449
11:53:09				743	8.95587	0.4372769	2.7558	3.663	9.76801	3.4463
11:53:10				744	8.95685	0.441605	2.7558	3.85836	9.67033	3.48256
11:53:10				745	8.95489	0.4813573	2.7558	3.36996	9.76801	3.8179
11:53:11				746	8.96861	0.4467337	2.8542	3.36996	9.86569	3.5245
11:53:11				747	8.96273	0.4470538	2.8542	3.36996	9.67033	3.52777
11:53:12				748	8.95489	0.4414447	2.8542	3.27228	9.76801	3.48139
11:53:12				749	8.94803	0.45587	2.8542	2.63736	9.76801	3.60344

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:53:13				750	8.94705	0.4767074	2.8542	2.14896	10.15873	3.77941
11:53:13				751	8.95195	0.5201561	2.8542	1.80708	9.86569	4.14751
11:53:14				752	8.97449	0.5594463	2.9526	1.4652	10.45177	4.4802
11:53:14				753	9.02555	0.6191188	2.9526	1.41636	10.45177	4.98603
11:53:15				754	9.24769	0.6287455	3.0509	1.4652	9.32845	5.0377
11:53:15				755	9.42727	0.6157482	3.0509	1.4652	8.25397	4.90175
11:53:16				756	9.44381	0.6133423	3.1493	1.41636	7.13065	4.879
11:53:16				757	9.43797	0.728246	3.2477	1.41636	7.47253	5.86551
11:53:17				758	9.56552	0.7332212	3.3461	1.41636	6.83761	5.88761
11:53:17				759	9.66367	0.6773646	3.4445	1.41636	6.05617	5.39334
11:53:18				760	9.59077	0.6938949	3.4445	1.41636	5.86081	5.54572
11:53:18				761	9.57232	0.730171	3.4445	1.41636	6.59341	5.86022
11:53:19				762	9.61316	0.7308137	3.5428	1.41636	7.03297	5.85911
11:53:19				763	9.64518	0.6990322	3.4445	1.41636	7.17949	5.58133
11:53:20				764	9.63451	0.7007969	3.4445	1.41636	6.64225	5.59809
11:53:20				765	9.61801	0.7521654	3.4445	1.36752	6.88645	6.04218
11:53:21				766	9.65979	0.7113905	3.5428	1.4652	7.27717	5.68489
11:53:21				767	9.67628	0.7049694	3.5428	1.41636	6.49573	5.62732
11:53:22				768	9.63839	0.6946972	3.4445	1.41636	6.54457	5.54527
11:53:22				769	9.62286	0.7170084	3.4445	1.41636	7.17949	5.73893
11:53:23				770	9.62189	0.6894022	3.5428	1.4652	7.71673	5.50248
11:53:23				771	9.63354	0.6863514	3.5428	1.41636	7.27717	5.47462
11:53:24				772	9.62674	0.7381982	3.4445	1.4652	7.17949	5.92043
11:53:24				773	9.65397	0.6987099	3.4445	1.4652	6.88645	5.57721
11:53:25				774	9.65979	0.6892416	3.5428	1.41636	5.90965	5.49534
11:53:25				775	9.63839	0.6794512	3.4445	1.4652	6.05617	5.41493
11:53:26				776	9.65009	0.6831413	3.4445	1.4652	6.25153	5.44469
11:53:26				777	9.64912	0.6850679	3.4445	1.41636	6.15385	5.4613
11:53:27				778	9.65203	0.6921302	3.4445	1.4652	6.30037	5.52122
11:53:27				779	9.64712	0.6995122	3.4445	1.4652	6.34921	5.58514
11:53:28				780	9.65591	0.6921302	3.5428	1.41636	5.71429	5.52062
11:53:28				781	9.65591	0.6903652	3.4445	1.41636	5.81197	5.50554
11:53:29				782	9.64324	0.7017595	3.5428	1.41636	6.25153	5.60497
11:53:29				783	9.66173	0.6926105	3.4445	1.41636	5.95849	5.52385
11:53:30				784	9.67046	0.6937339	3.4445	1.41636	5.76313	5.53211
11:53:30				785	9.67143	0.7067352	3.5428	1.41636	5.76313	5.64319
11:53:31				786	9.68113	0.6881167	3.4445	1.41636	5.81197	5.48249
11:53:31				787	9.66561	0.6839452	3.4445	1.41636	5.76313	5.44922
11:53:32				788	9.66658	0.7043286	3.4445	1.41636	6.20269	5.62335
11:53:32				789	9.6821	0.7038457	3.5428	1.41636	6.15385	5.61679
11:53:33				790	9.69179	0.696945	3.5428	1.41636	5.71429	5.55628
11:53:33				791	9.68598	0.6905257	3.5428	1.41636	5.61661	5.50232
11:53:34				792	9.67337	0.6977467	3.4445	1.4652	6.10501	5.56598
11:53:34				793	9.67434	0.6982282	3.4445	1.4652	5.95849	5.56995
11:53:35				794	9.68113	0.6940555	3.5428	1.41636	6.15385	5.53322

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:53:35				795	9.67822	0.6900441	3.5428	1.4652	5.66545	5.49939
11:53:36				796	9.67434	0.6903652	3.4445	1.41636	6.05617	5.50273
11:53:36				797	9.66852	0.6914875	3.4445	1.41636	5.81197	5.51321
11:53:37				798	9.6724	0.6927712	3.5428	1.41636	6.20269	5.52358
11:53:37				799	9.67919	0.6913269	3.4445	1.41636	6.05617	5.51021
11:53:38				800	9.67531	0.6922908	3.5428	1.41636	6.00733	5.51903
11:53:38				801	9.66949	0.7065753	3.4445	1.41636	6.25153	5.64213
11:53:39				802	9.68016	0.7081804	3.5428	1.36752	6.30037	5.6542
11:53:39				803	9.70155	0.6956607	3.5428	1.41636	6.05617	5.54381
11:53:40				804	9.68598	0.6998346	3.4445	1.41636	5.81197	5.58189
11:53:40				805	9.6821	0.709945	3.4445	1.36752	5.86081	5.66901
11:53:41				806	9.69276	0.7049694	3.5428	1.4652	5.76313	5.62475
11:53:41				807	9.70058	0.6975874	3.4445	1.4652	5.61661	5.56043
11:53:42				808	9.68985	0.6993527	3.4445	1.41636	5.76313	5.57717
11:53:42				809	9.68985	0.6998346	3.4445	1.4652	5.76313	5.58129
11:53:43				810	9.68888	0.6977467	3.4445	1.4652	5.71429	5.56359
11:53:43				811	9.68985	0.6953389	3.5428	1.41636	6.00733	5.54285
11:53:44				812	9.68888	0.6935749	3.4445	1.4652	6.34921	5.52794
11:53:44				813	9.68888	0.6975874	3.4445	1.4652	6.44689	5.56223
11:53:45				814	9.68598	0.6958217	3.5428	1.41636	6.39805	5.54757
11:53:45				815	9.68307	0.6842653	3.4445	1.41636	6.25153	5.44932
11:53:46				816	9.65591	0.6704641	3.4445	1.41636	6.69109	5.33563
11:53:46				817	9.6248	0.6908452	3.4445	1.41636	6.88645	5.51439
11:53:47				818	9.64712	0.6662923	3.5428	1.41636	6.15385	5.30135
11:53:47				819	9.58883	0.6608361	3.4445	1.41636	6.05617	5.26335
11:53:48				820	9.56066	0.6930929	3.4445	1.41636	6.59341	5.54348
11:53:48				821	9.60733	0.6868341	3.4445	1.41636	7.03297	5.48274
11:53:49				822	9.64518	0.6776856	3.5428	1.41636	6.54457	5.39883
11:53:49				823	9.63645	0.6797726	3.5428	1.41636	6.49573	5.41796
11:53:50				824	9.62189	0.6794513	3.4445	1.4652	6.73993	5.41741
11:53:50				825	9.6248	0.660836	3.4445	1.4652	6.54457	5.25811
11:53:51				826	9.61219	0.6505654	3.4445	1.4652	6.98413	5.17243
11:53:51				827	9.57523	0.6499244	3.4445	1.41636	6.78877	5.17227
11:53:52				828	9.56552	0.6524916	3.5428	1.41636	6.54457	5.19554
11:53:52				829	9.57135	0.6483191	3.5428	1.4652	6.54457	5.15913
11:53:53				830	9.55872	0.6250531	3.3461	1.4652	6.30037	4.9629
11:53:53				831	9.55386	0.6232884	3.4445	1.41636	6.54457	4.94857
11:53:54				832	9.53048	0.6322747	3.4445	1.41636	6.69109	5.02824
11:53:54				833	9.50132	0.6345199	3.5428	1.41636	6.88645	5.05144
11:53:55				834	9.48959	0.6058017	3.5428	1.41636	6.54457	4.8087
11:53:55				835	9.46722	0.5783719	3.5428	1.4652	6.83761	4.57902
11:53:56				836	9.43408	0.6069254	3.4445	1.41636	7.71673	4.82568
11:53:56				837	9.42824	0.5915254	3.4445	1.4652	8.69353	4.69557
11:53:57				838	9.41851	0.6061225	3.5428	1.4652	7.27717	4.82093
11:53:57				839	9.42727	0.6040379	3.5428	1.41636	7.17949	4.80202

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:53:58				840	9.42824	0.5871942	3.5428	1.4652	6.73993	4.6588
11:53:58				841	9.37852	0.5506256	3.4445	1.41636	6.83761	4.35534
11:53:59				842	9.34924	0.6303498	3.4445	1.41636	8.10745	5.03716
11:53:59				843	9.38144	0.5945726	3.4445	1.41636	8.30281	4.72759
11:54:00				844	9.41169	0.5650591	3.5428	1.36752	7.32601	4.47332
11:54:01				847	9.32463	0.5212773	3.4445	1.41636	8.35165	4.114
11:54:02				848	9.28361	0.5679454	3.5428	1.41636	8.74237	4.51381
11:54:02				849	9.28849	0.5236824	3.5428	1.41636	8.79121	4.13842
11:54:03				850	9.27873	0.5342661	3.5428	1.4652	7.71673	4.22895
11:54:03				851	9.2641	0.4597137	3.4445	1.4652	7.71673	3.60386
11:54:04				852	9.25434	0.5490199	3.5428	1.41636	7.71673	4.35679
11:54:04				853	9.2045	0.5049218	3.4445	6.25153	8.98657	3.98968
11:54:05				854	9.18588	0.502196	3.4445	4.6398	8.69353	3.96875
11:54:05				855	9.20547	0.5020366	3.4445	4.44444	9.13309	3.96524
11:54:06				856	9.21719	0.5841449	3.4445	3.56532	8.59585	4.66023
11:54:06				857	9.23183	0.5060442	3.4445	2.49084	8.69353	3.9961
11:54:07				858	9.2455	0.5028384	3.4445	2.9304	8.64469	3.96757
11:54:07				859	9.24452	0.474622	3.4445	3.80952	8.88889	3.73062
11:54:08				860	9.23574	0.532983	3.5428	7.32601	9.91453	4.22316
11:54:08				861	9.23183	0.5052426	3.5428	9.42613	9.27961	3.98934
11:54:09				862	9.23183	0.4988296	3.5428	8.20513	8.84005	3.93532
11:54:09				863	9.23574	0.4872861	3.4445	8.05861	9.03541	3.83782
11:54:10				864	9.24062	0.5871929	3.4445	7.66789	9.71917	4.68319
11:54:10				865	9.27873	0.5095722	3.5428	6.25153	9.62149	4.02058
11:54:11				866	9.29434	0.5169467	3.5428	4.49328	8.59585	4.08095
11:54:11				867	9.25825	0.5326623	3.4445	4.6398	8.69353	4.21781
11:54:12				868	9.26508	0.5981012	3.4445	5.51893	9.08425	4.77305
11:54:12				869	9.30805	0.5086091	3.5428	3.80952	8.69353	4.00919
11:54:13				870	9.26995	0.5155049	3.4445	3.4188	8.15629	4.07157
11:54:13				871	9.26898	0.5944108	3.4445	4.44444	8.98657	4.74104
11:54:14				872	9.29336	0.5219181	3.5428	4.73748	9.67033	4.12298
11:54:14				873	9.29726	0.5179091	3.5428	3.56532	8.49817	4.08873
11:54:15				874	9.27971	0.5304174	3.4445	4.83516	8.79121	4.19632
11:54:15				875	9.30513	0.5754828	3.4445	6.49573	9.23077	4.57515
11:54:16				876	9.3812	0.5461331	3.5428	3.4188	8.84005	4.31705
11:54:16				877	9.35392	0.5353878	3.5428	1.4652	7.71673	4.22958
11:54:17				878	9.31293	0.5679453	3.4445	3.71184	8.44933	4.51013
11:54:17				879	9.33242	0.555274	3.4445	4.20024	9.23077	4.40028
11:54:18				880	9.37243	0.5358695	3.5428	1.41636	7.81441	4.23146
11:54:18				881	9.35782	0.5401987	3.5428	1.41636	7.76557	4.26973
11:54:19				882	9.34412	0.5519056	3.4445	1.4652	7.76557	4.37033
11:54:19				883	9.35392	0.5552739	3.4445	1.41636	7.76557	4.39764
11:54:20				884	9.38315	0.5336242	3.5428	2.88156	8.25397	4.21127
11:54:20				885	9.35977	0.5350667	3.4445	1.41636	7.37485	4.22619
11:54:21				886	9.35003	0.5546319	3.4445	3.32112	8.20513	4.39269

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:54:21				887	9.35782	0.5899202	3.4445	3.95604	8.84005	4.69112
11:54:22				888	9.38704	0.6574649	3.5428	1.51404	8.15629	5.264
11:54:22				889	9.45141	0.5835032	3.5428	1.41636	7.52137	4.62451
11:54:23				890	9.42313	0.5660189	3.4445	1.4652	7.32601	4.48003
11:54:23				891	9.39879	0.6465527	3.4445	1.4652	8.00977	5.1688
11:54:24				892	9.45336	0.6481583	3.4445	1.41636	7.96093	5.17469
11:54:24				893	9.50788	0.5907215	3.5428	2.6862	7.08181	4.67838
11:54:25				894	9.47768	0.5934488	3.5428	1.41636	6.69109	4.70543
11:54:25				895	9.48157	0.6094903	3.4445	1.41636	7.22833	4.84112
11:54:26				896	9.50691	0.6220039	3.5428	1.41636	8.25397	4.94408
11:54:26				897	9.52538	0.6165494	3.5428	1.85592	6.88645	4.89518
11:54:27				898	9.51663	0.6102927	3.5428	1.85592	6.83761	4.84321
11:54:27				899	9.50594	0.609169	3.5428	1.41636	7.08181	4.83511
11:54:28				900	9.50983	0.6337168	3.4445	1.4652	6.93529	5.04341
11:54:28				901	9.52343	0.6353215	3.5428	1.4652	6.59341	5.05517
11:54:29				902	9.54585	0.6324327	3.5428	1.41636	6.34921	5.02744
11:54:29				903	9.52829	0.6553778	3.4445	1.4652	6.64225	5.22556
11:54:30				904	9.55168	0.6467132	3.4445	1.4652	6.78877	5.14826
11:54:30				905	9.56139	0.6409365	3.5428	1.41636	6.49573	5.09765
11:54:31				906	9.56042	0.6791283	3.5428	1.41636	7.03297	5.42388
11:54:31				907	9.61583	0.6691793	3.5428	1.4652	6.73993	5.33058
11:54:32				908	9.62359	0.6574644	3.5428	1.41636	6.05617	5.22954
11:54:32				909	9.59835	0.6491206	3.4445	1.41636	6.15385	5.16211
11:54:33				910	9.58961	0.6929321	3.4445	1.4652	6.54457	5.53765
11:54:33				911	9.6265	0.6597116	3.5428	1.41636	6.20269	5.24827
11:54:34				912	9.61971	0.6521688	3.5428	1.4652	5.95849	5.185
11:54:34				913	9.61874	0.661637	3.4445	1.4652	6.10501	5.26582
11:54:35				914	9.62165	0.6531315	3.4445	1.41636	6.05617	5.19292
11:54:35				915	9.61194	0.6651668	3.4445	1.4652	6.25153	5.29692
11:54:36				916	9.6265	0.6778453	3.5428	1.41636	6.15385	5.40299
11:54:36				917	9.63523	0.664204	3.5428	1.41636	5.56777	5.28529
11:54:37				918	9.63038	0.6664511	3.5428	1.41636	5.56777	5.30516
11:54:37				919	9.62553	0.6823396	3.4445	1.41636	5.81197	5.44155
11:54:38				920	9.64597	0.7154023	3.4445	1.41636	6.15385	5.72148
11:54:38				921	9.68088	0.6921283	3.5428	1.41636	5.95849	5.51679
11:54:39				922	9.68088	0.6903633	3.5428	1.41636	5.66545	5.50171
11:54:39				923	9.67022	0.6833013	3.5428	1.4652	5.86081	5.44302
11:54:40				924	9.67701	0.6937339	3.5428	1.41636	5.81197	5.5311
11:54:40				925	9.68185	0.6879563	3.5428	1.4652	5.81197	5.481
11:54:41				926	9.67895	0.6879563	3.5428	1.4652	6.00733	5.48145
11:54:41				927	9.67895	0.6839433	3.4445	1.41636	5.61661	5.44719
11:54:42				928	9.67895	0.6828194	3.5428	1.41636	5.76313	5.43759
11:54:42				929	9.67604	0.6855484	3.5428	1.41636	5.95849	5.46132
11:54:43				930	9.67701	0.6861911	3.5428	1.41636	6.10501	5.46666
11:54:43				931	9.67701	0.6831413	3.5428	1.41636	6.05617	5.44063

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:54:44				932	9.67216	0.6823395	3.4445	1.4652	5.86081	5.43452
11:54:44				933	9.66634	0.7028822	3.4445	1.41636	6.05617	5.611
11:54:45				934	9.68379	0.6921283	3.5428	1.4652	5.76313	5.51635
11:54:45				935	9.68573	0.6884375	3.5428	1.4652	5.61661	5.48452
11:54:46				936	9.67798	0.6874753	3.4445	1.41636	5.61661	5.47749
11:54:46				937	9.67798	0.6961418	3.4445	1.41636	5.95849	5.55155
11:54:47				938	9.68088	0.6873131	3.5428	1.41636	5.66545	5.47566
11:54:47				939	9.68088	0.6919676	3.5428	1.41636	5.47009	5.51542
11:54:48				940	9.68185	0.6963009	3.4445	1.41636	5.81197	5.55231
11:54:48				941	9.69161	0.6930926	3.5428	1.41636	5.81197	5.52339
11:54:49				942	9.6887	0.6905239	3.4445	1.41636	5.76313	5.5019
11:54:49				943	9.68476	0.7154022	3.4445	1.4652	5.76313	5.71533
11:54:50				944	9.70131	0.7104255	3.5428	1.4652	5.86081	5.6701
11:54:50				945	9.71003	0.6959808	3.5428	1.4652	5.76313	5.54524
11:54:51				946	9.70131	0.7028821	3.4445	1.4652	5.51893	5.60558
11:54:51				947	9.70034	0.6839433	3.4445	1.4652	5.76313	5.44396
11:54:52				948	9.68967	0.6853882	3.4445	1.41636	5.86081	5.4579
11:54:52				949	9.68573	0.6849058	3.5428	1.41636	5.76313	5.45437
11:54:53				950	9.68379	0.6863513	3.5428	1.41636	5.86081	5.46701
11:54:53				951	9.68282	0.6868322	3.5428	1.41636	5.90965	5.47126
11:54:54				952	9.68379	0.6881167	3.4445	1.41636	5.71429	5.48209
11:54:54				953	9.68573	0.6866719	3.4445	1.41636	5.86081	5.46946
11:54:55				954	9.6887	0.687796	3.5428	1.4652	5.95849	5.4786
11:54:55				955	9.68573	0.6879563	3.5428	1.4652	5.81197	5.48042
11:54:56				956	9.6867	0.6887584	3.4445	1.4652	5.66545	5.48713
11:54:56				957	9.68282	0.6839433	3.4445	1.4652	6.00733	5.4466
11:54:57				958	9.68767	0.6921283	3.4445	1.41636	5.95849	5.51576
11:54:57				959	9.68573	0.6863513	3.5428	1.41636	6.05617	5.46671
11:54:58				960	9.68476	0.6869925	3.5428	1.41636	5.86081	5.47233
11:54:58				961	9.68379	0.6871528	3.4445	1.41636	5.86081	5.47386
11:54:59				962	9.68379	0.6913269	3.4445	1.4652	5.90965	5.50951
11:54:59				963	9.6867	0.6932516	3.5428	1.41636	5.86081	5.5255
11:55:00				964	9.6887	0.6881167	3.5428	1.4652	5.66545	5.48133
11:55:01				967	9.68707	0.6901936	3.4445	1.4652	5.81197	5.49933
11:55:02				968	9.68707	0.6890701	3.5428	1.41636	6.15385	5.48972
11:55:02				969	9.68901	0.6881076	3.5428	1.41636	5.71429	5.48121
11:55:03				970	9.6861	0.6865025	3.5428	1.41636	5.76313	5.46795
11:55:03				971	9.68513	0.6866628	3.4445	1.41636	5.71429	5.46947
11:55:04				972	9.6861	0.6937248	3.4445	1.4652	5.95849	5.52964
11:55:04				973	9.68901	0.6924406	3.5428	1.4652	5.86081	5.51822
11:55:05				974	9.68997	0.6890701	3.5428	1.41636	5.71429	5.48928
11:55:05				975	9.6861	0.6853791	3.4445	1.4652	5.71429	5.45837
11:55:06				976	9.68513	0.6945271	3.4445	1.4652	5.81197	5.53665
11:55:06				977	9.68707	0.688268	3.5428	1.41636	5.90965	5.48287
11:55:07				978	9.68707	0.6881076	3.5428	1.41636	5.86081	5.4815

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:55:07				979	9.6861	0.688268	3.4445	1.41636	5.81197	5.48303
11:55:08				980	9.68707	0.6879472	3.4445	1.41636	5.90965	5.48014
11:55:08				981	9.68707	0.6876265	3.5428	1.4652	5.90965	5.4774
11:55:09				982	9.68707	0.688268	3.4445	1.41636	6.00733	5.48288
11:55:09				983	9.68901	0.6889097	3.5428	1.4652	5.95849	5.48806
11:55:10				984	9.68901	0.6884284	3.5428	1.4652	5.86081	5.48395
11:55:10				985	9.68901	0.6877868	3.4445	1.4652	5.71429	5.47848
11:55:11				986	9.68997	0.6988618	3.4445	1.4652	5.90965	5.57295
11:55:11				987	9.69094	0.6900331	3.5428	1.41636	5.81197	5.49736
11:55:12				988	9.68901	0.6906753	3.5428	1.41636	5.56777	5.50314
11:55:12				989	9.68804	0.6908359	3.4445	1.41636	5.71429	5.50467
11:55:13				990	9.69288	0.6954906	3.5428	1.41636	5.81197	5.54368
11:55:13				991	9.69579	0.6948488	3.4445	1.4652	5.86081	5.53776
11:55:14				992	9.69579	0.6946879	3.5428	1.41636	5.71429	5.53638
11:55:14				993	9.69676	0.691639	3.5428	1.41636	5.95849	5.51019
11:55:15				994	9.69773	0.692762	3.5428	1.4652	5.56777	5.51963
11:55:15				995	9.69385	0.6943662	3.4445	1.4652	5.66545	5.53394
11:55:16				996	9.69579	0.7019098	3.4445	1.4652	5.71429	5.59812
11:55:16				997	9.6987	0.6985395	3.5428	1.41636	5.71429	5.56884
11:55:17				998	9.69967	0.6937247	3.5428	1.41636	5.76313	5.52756
11:55:17				999	9.69579	0.6937247	3.4445	1.41636	5.76313	5.52816
11:55:18				1000	9.69579	0.6974172	3.4445	1.41636	5.81197	5.55971
11:55:18				1001	9.69676	0.6980579	3.4445	1.41636	5.76313	5.56504
11:55:19				1002	9.6987	0.6948488	3.4445	1.4652	5.86081	5.53732
11:55:19				1003	9.69773	0.6943662	3.4445	1.4652	5.76313	5.53334
11:55:20				1004	9.6987	0.6953297	3.4445	1.4652	5.76313	5.54142
11:55:20				1005	9.69676	0.6885888	3.4445	1.41636	5.90965	5.48415
11:55:21				1006	9.69579	0.6911571	3.4445	1.41636	6.00733	5.50623
11:55:21				1007	9.69482	0.6930835	3.4445	1.41636	6.15385	5.52283
11:55:22				1008	9.69288	0.6930835	3.4445	1.4652	6.20269	5.52312
11:55:22				1009	9.69288	0.6908359	3.4445	1.41636	6.20269	5.50393
11:55:23				1010	9.69482	0.6922798	3.4445	1.4652	6.20269	5.51596
11:55:23				1011	9.69288	0.6914783	3.5428	1.4652	5.90965	5.50941
11:55:24				1012	9.69288	0.6905147	3.4445	1.41636	5.56777	5.50118
11:55:24				1013	9.69094	0.6938856	3.4445	1.41636	5.76313	5.53027
11:55:25				1014	9.69191	0.7020712	3.4445	1.41636	5.76313	5.6001
11:55:25				1015	9.69676	0.7036768	3.5428	1.41636	6.00733	5.61307
11:55:26				1016	9.70549	0.6950097	3.5428	1.41636	5.81197	5.53764
11:55:26				1017	9.70064	0.6961326	3.4445	1.41636	5.71429	5.54799
11:55:27				1018	9.69773	0.697095	3.4445	1.41636	5.76313	5.55666
11:55:27				1019	9.70064	0.6985394	3.4445	1.4652	5.86081	5.56855
11:55:28				1020	9.70161	0.6961326	3.5428	1.4652	6.00733	5.54783
11:55:28				1021	9.6987	0.6905147	3.4445	1.4652	5.76313	5.5003
11:55:29				1022	9.69482	0.6898726	3.4445	1.41636	6.00733	5.49541
11:55:29				1023	9.69191	0.6898726	3.4445	1.41636	6.00733	5.49585

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:55:30				1024	9.68997	0.6906753	3.4445	1.4652	6.15385	5.503
11:55:30				1025	9.68997	0.6892306	3.4445	1.36752	5.90965	5.49066
11:55:31				1026	9.68707	0.6881076	3.4445	1.41636	6.05617	5.48151
11:55:31				1027	9.67828	0.6905148	3.4445	1.4652	6.15385	5.50341
11:55:32				1028	9.68313	0.6945271	3.4445	1.41636	6.05617	5.53695
11:55:32				1029	9.6861	0.6911571	3.4445	1.4652	6.05617	5.50771
11:55:33				1030	9.68707	0.6911571	3.4445	1.4652	6.10501	5.50756
11:55:33				1031	9.6861	0.6917996	3.4445	1.41636	6.00733	5.51319
11:55:34				1032	9.68901	0.6792805	3.4445	1.41636	5.95849	5.40589
11:55:34				1033	9.66664	0.6757511	3.3461	1.41636	5.86081	5.37914
11:55:35				1034	9.65791	0.6964528	3.3461	1.41636	6.20269	5.5573
11:55:35				1035	9.67731	0.6895516	3.5428	1.41636	6.30037	5.49532
11:55:36				1036	9.67731	0.6828121	3.5428	1.41636	5.86081	5.43777
11:55:36				1037	9.64045	0.670616	3.3461	1.4652	5.90965	5.33922
11:55:37				1038	9.64724	0.6893912	3.3461	1.4652	6.30037	5.49854
11:55:37				1039	9.65694	0.6816889	3.4445	1.4652	6.25153	5.43126
11:55:38				1040	9.6647	0.6804044	3.4445	1.4652	5.90965	5.41912
11:55:38				1041	9.65985	0.6826522	3.4445	1.41636	5.86081	5.43904
11:55:39				1042	9.66373	0.6735033	3.4445	1.41636	6.10501	5.36039
11:55:39				1043	9.64918	0.6738256	3.4445	1.41636	6.15385	5.3653
11:55:40				1044	9.65015	0.6821705	3.4445	1.41636	6.20269	5.43639
11:55:40				1045	9.65985	0.6815271	3.4445	1.4652	6.25153	5.42944
11:55:41				1046	9.66373	0.6754303	3.5428	1.4652	6.05617	5.37682
11:55:41				1047	9.65694	0.6738256	3.4445	1.41636	5.86081	5.36414
11:55:42				1048	9.64918	0.6975765	3.3461	1.41636	6.00733	5.56826
11:55:42				1049	9.6744	0.7006264	3.4445	1.36752	6.54457	5.59045
11:55:43				1050	9.68513	0.6893911	3.5428	1.41636	6.05617	5.49276
11:55:43				1051	9.66664	0.6836141	3.4445	1.41636	5.81197	5.44623
11:55:44				1052	9.65306	0.6832941	3.3461	1.41636	6.10501	5.44556
11:55:44				1053	9.66955	0.683294	3.4445	1.4652	6.25153	5.44306
11:55:45				1054	9.67634	0.6858615	3.4445	1.4652	6.05617	5.46396
11:55:45				1055	9.65597	0.6821705	3.4445	1.4652	5.90965	5.43551
11:55:46				1056	9.66082	0.6958108	3.4445	1.41636	6.15385	5.55135
11:55:46				1057	9.66761	0.6840962	3.4445	1.41636	6.30037	5.4502
11:55:47				1058	9.66761	0.6820087	3.4445	1.41636	6.15385	5.43238
11:55:47				1059	9.66567	0.6839361	3.4445	1.41636	5.76313	5.44913
11:55:48				1060	9.66276	0.6844164	3.3461	1.41636	6.34921	5.45368
11:55:48				1061	9.66276	0.7251853	3.4445	1.4652	6.20269	5.80274
11:55:49				1062	9.67634	0.6924406	3.4445	1.4652	6.10501	5.52016
11:55:49				1063	9.68313	0.7006263	3.4445	1.41636	5.81197	5.5891
11:55:50				1064	9.67343	0.7027133	3.4445	1.4652	5.86081	5.60846
11:55:50				1065	9.68901	0.7091333	3.4445	1.41636	6.10501	5.66098
11:55:51				1066	9.69385	0.6998236	3.4445	1.41636	5.86081	5.58058
11:55:51				1067	9.68707	0.7072076	3.4445	1.41636	5.66545	5.6448
11:55:52				1068	9.69482	0.7385094	3.4445	1.41636	5.86081	5.91195

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:55:52				1069	9.71033	0.711862	3.5428	1.4652	5.90965	5.68098
11:55:53				1070	9.71712	0.7158746	3.4445	1.4652	5.61661	5.71426
11:55:53				1071	9.69676	0.7173203	3.3461	1.4652	5.47009	5.72988
11:55:54				1072	9.70549	0.7336934	3.4445	1.41636	5.61661	5.86886
11:55:54				1073	9.72196	0.7314453	3.4445	1.41636	5.61661	5.8469
11:55:55				1074	9.72487	0.7214926	3.5428	1.41636	5.42125	5.76113
11:55:55				1075	9.72293	0.7208506	3.4445	1.41636	5.37241	5.75595
11:55:56				1076	9.71227	0.7179612	3.4445	1.41636	5.51893	5.7329
11:55:56				1077	9.71712	0.7291976	3.4445	1.4652	5.76313	5.82841
11:55:57				1078	9.7239	0.7239011	3.4445	1.4652	5.86081	5.78192
11:55:57				1079	9.72099	0.7269503	3.4445	1.41636	5.42125	5.80852
11:55:58				1080	9.71809	0.7283956	3.4445	1.41636	5.37241	5.82138
11:55:58				1081	9.72099	0.7274326	3.4445	1.41636	5.37241	5.81265
11:55:59				1082	9.72293	0.7336933	3.4445	1.41636	5.27473	5.86603
11:55:59				1083	9.72971	0.7256671	3.4445	1.41636	5.56777	5.79612
11:56:00				1084	9.73262	0.7245421	3.4445	1.41636	5.61661	5.78602
11:56:01				1087	9.7351	0.7260082	3.4445	1.41636	5.37241	5.79818
11:56:02				1088	9.72929	0.7264884	3.4445	1.4652	5.37241	5.80323
11:56:02				1089	9.72444	0.7602023	3.3461	1.36752	5.66545	6.09352
11:56:03				1090	9.72929	0.7687112	3.4445	1.4652	5.51893	6.16594
11:56:03				1091	9.73413	0.7338738	3.4445	1.4652	5.56777	5.86576
11:56:04				1092	9.73317	0.7409361	3.4445	1.41636	5.37241	5.9265
11:56:04				1093	9.7322	0.7683901	3.4445	1.4652	5.56777	6.16268
11:56:05				1094	9.73801	0.746235	3.4445	1.4652	5.66545	5.97119
11:56:05				1095	9.74189	0.759079	3.4445	1.41636	5.17705	6.08092
11:56:06				1096	9.73995	0.7600423	3.4445	1.41636	5.07937	6.08953
11:56:06				1097	9.74189	0.7675876	3.4445	1.41636	5.27473	6.15412
11:56:07				1098	9.74189	0.7653401	3.4445	1.41636	5.37241	6.13477
11:56:07				1099	9.74285	0.77096	3.4445	1.41636	5.12821	6.18298
11:56:08				1100	9.74479	0.7627707	3.4445	1.4652	5.12821	6.11218
11:56:08				1101	9.74673	0.7579543	3.4445	1.4652	5.03053	6.07043
11:56:09				1102	9.74479	0.7571517	3.4445	1.41636	4.884	6.06386
11:56:09				1103	9.74382	0.7467158	3.4445	1.41636	5.12821	5.97436
11:56:10				1104	9.73898	0.7292179	3.3461	1.41636	5.27473	5.82507
11:56:10				1105	9.72832	0.7247237	3.1493	1.41636	5.37241	5.78829
11:56:11				1106	9.72444	0.7126838	3.0509	1.4652	5.42125	5.68583
11:56:11				1107	9.72057	0.7150921	2.9526	1.4652	5.56777	5.70706
11:56:12				1108	9.7196	0.7147711	2.9526	1.41636	5.51893	5.70447
11:56:12				1109	9.72154	0.7057831	2.7558	1.4652	5.61661	5.62729
11:56:13				1110	9.66816	0.6913378	2.6574	1.41636	5.51893	5.51205
11:56:13				1111	9.67204	0.6927821	2.4606	1.41636	5.86081	5.52382
11:56:14				1112	9.67495	0.6892506	2.4606	1.41636	5.76313	5.4932
11:56:14				1113	9.67398	0.6932625	2.4606	1.41636	5.76313	5.52763
11:56:15				1114	9.67979	0.6876465	2.4606	1.4652	5.90965	5.47876
11:56:15				1115	9.6827	0.6878068	2.4606	1.4652	5.86081	5.47969

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:56:16				1116	9.6827	0.6845964	2.4606	1.4652	5.81197	5.45228
11:56:16				1117	9.66816	0.6087	2.4606	1.4652	5.86081	4.80953
11:56:17				1118	9.63511	0.6696724	2.4606	1.41636	6.20269	5.33203
11:56:17				1119	9.60211	0.6717571	2.4606	1.41636	6.54457	5.35471
11:56:18				1120	9.59235	0.6473674	2.4606	1.4652	5.76313	5.14811
11:56:18				1121	9.59429	0.6537843	2.4606	1.41636	5.90965	5.2025
11:56:19				1122	9.5904	0.6284329	2.4606	1.4652	6.00733	4.98732
11:56:19				1123	9.57098	0.6582786	2.4606	1.4652	6.34921	5.24421
11:56:20				1124	9.55738	0.6558714	2.4606	1.4652	6.49573	5.22564
11:56:20				1125	9.57681	0.6319639	2.559	1.41636	6.10501	5.01921
11:56:21				1126	9.53303	0.6423934	2.4606	1.41636	5.86081	5.11417
11:56:21				1127	9.50387	0.6343706	2.3623	1.41636	6.44689	5.0499
11:56:22				1128	9.52526	0.64528	2.4606	1.4652	7.22833	5.13989
11:56:22				1129	9.54566	0.6253857	2.4606	1.41636	6.73993	4.9676
11:56:23				1130	9.52234	0.6290746	2.4606	1.4652	6.44689	5.00221
11:56:23				1131	9.5272	0.6427128	2.4606	1.4652	7.37485	5.11772
11:56:24				1132	9.53206	0.6216947	2.4606	1.4652	7.81441	4.93808
11:56:24				1133	9.52817	0.6141548	2.4606	1.41636	8.30281	4.87454
11:56:25				1134	9.51262	0.6393434	2.4606	1.41636	7.61905	5.09106
11:56:25				1135	9.49901	0.6048503	2.4606	1.4652	7.57021	4.79944
11:56:26				1136	9.4688	0.5653903	2.4606	1.4652	7.52137	4.46911
11:56:26				1137	9.39082	0.5984326	2.3623	1.4652	8.79121	4.75927
11:56:27				1138	9.37231	0.5716448	2.4606	1.4652	10.10989	4.53412
11:56:27				1139	9.39764	0.5856011	2.559	1.41636	8.30281	4.64931
11:56:28				1140	9.37621	0.5559281	2.4606	1.41636	8.20513	4.40052
11:56:28				1141	9.35965	0.5014074	2.4606	1.41636	9.47497	3.94304
11:56:29				1142	9.28446	0.5766187	2.3623	1.41636	9.91453	4.58752
11:56:29				1143	9.2073	0.6087009	2.4606	1.41636	9.42613	4.87153
11:56:30				1144	9.22	0.5105458	2.4606	1.4652	9.62149	4.03545
11:56:30				1145	9.23074	0.5163194	2.4606	1.4652	8.88889	4.08296
11:56:31				1146	9.21804	0.5079813	2.3623	1.4652	9.08425	4.01404
11:56:31				1147	9.20236	0.5430985	2.4606	1.41636	9.91453	4.31292
11:56:32				1148	9.20633	0.5083011	2.4606	1.41636	9.13309	4.01804
11:56:32				1149	9.20431	0.507179	2.4606	1.4652	8.59585	4.0088
11:56:33				1150	9.19552	0.5118286	2.4606	1.41636	8.98657	4.04903
11:56:33				1151	9.17501	0.4943537	2.4606	1.4652	9.18193	3.9039
11:56:34				1152	9.16133	0.4884207	2.4606	1.4652	9.32845	3.8554
11:56:34				1153	9.16035	0.4933905	2.4606	1.41636	9.37729	3.89738
11:56:35				1154	9.15834	0.4881012	2.4606	1.4652	9.57265	3.85304
11:56:35				1155	9.16524	0.4879398	2.4606	1.41636	9.13309	3.85094
11:56:36				1156	9.16817	0.485215	2.4606	1.41636	8.98657	3.82769
11:56:36				1157	9.15938	0.4834517	2.4606	1.41636	9.62149	3.81379
11:56:37				1158	9.15248	0.4834517	2.4606	1.4652	9.27961	3.81452
11:56:37				1159	9.14563	0.4834517	2.4606	1.4652	9.52381	3.81525
11:56:38				1160	9.14563	0.4812077	2.4606	1.4652	9.08425	3.79636

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:56:38				1161	9.13097	0.4818477	2.4606	1.4652	9.47497	3.8033
11:56:39				1162	9.11533	0.4975595	2.4606	1.4652	9.42613	3.93747
11:56:39				1163	9.11435	0.4932304	2.4606	1.41636	9.52381	3.90103
11:56:40				1164	9.12022	0.5103859	2.4606	1.4652	9.08425	4.04534
11:56:40				1165	9.12022	0.4832908	2.4606	1.4652	9.18193	3.8166
11:56:41				1166	9.11533	0.4789634	2.4606	1.4652	8.88889	3.78068
11:56:41				1167	9.10549	0.4669397	2.4606	1.4652	9.42613	3.68057
11:56:42				1168	9.10451	0.4565214	2.4606	1.4652	9.37729	3.5932
11:56:42				1169	9.10451	0.4621315	2.4606	1.41636	9.32845	3.64028
11:56:43				1170	9.10744	0.4579631	2.4606	13.96825	9.57265	3.605
11:56:43				1171	9.10842	0.4579631	2.4606	11.67277	9.67033	3.6049
11:56:44				1172	9.10353	0.4558794	2.4606	14.35897	9.76801	3.58791
11:56:44				1173	9.09668	0.457162	2.4606	5.86081	9.71917	3.59936
11:56:45				1174	9.09668	0.4568417	2.4606	5.66545	9.13309	3.59667
11:56:45				1175	9.08788	0.457162	2.4606	3.9072	9.32845	3.60024
11:56:46				1176	9.09864	0.4562012	2.4606	4.59096	9.18193	3.5911
11:56:46				1177	9.10255	0.4592456	2.4606	12.11233	9.57265	3.61625
11:56:47				1178	9.09179	0.4576426	2.4606	11.81929	9.86569	3.60388
11:56:47				1179	9.0869	0.4566816	2.559	3.71184	10.20757	3.5963
11:56:48				1180	9.08886	0.4560411	2.4606	2.78388	9.47497	3.59074
11:56:48				1181	9.09571	0.4565214	2.3623	4.24908	9.67033	3.59408
11:56:49				1182	9.10255	0.4557194	2.3623	6.05617	9.52381	3.58667
11:56:49				1183	9.08788	0.4600477	2.4606	5.71429	10.10989	3.62447
11:56:50				1184	9.0781	0.4552393	2.4606	3.36996	10.20757	3.58509
11:56:50				1185	9.08201	0.4560411	2.4606	1.9536	9.52381	3.59142
11:56:51				1186	9.08495	0.4587646	2.4606	2.29548	9.71917	3.61399
11:56:51				1187	9.08886	0.4662987	2.4606	5.07937	9.67033	3.67689
11:56:52				1188	9.09864	0.4562012	2.4606	3.61416	9.47497	3.5911
11:56:52				1189	9.09571	0.4553993	2.4606	3.4188	9.52381	3.58466
11:56:53				1190	9.09571	0.457162	2.3623	4.54212	9.52381	3.59946
11:56:53				1191	9.09473	0.459406	2.4606	6.44689	9.37729	3.61839
11:56:54				1192	9.09766	0.4584456	2.4606	6.30037	9.08425	3.61003
11:56:54				1193	9.09668	0.4570018	2.4606	5.47009	9.52381	3.59801
11:56:55				1194	9.09571	0.4576426	2.4606	5.95849	9.18193	3.60349
11:56:55				1195	9.09766	0.4618103	2.4606	7.61905	9.71917	3.63828
11:56:56				1196	9.09375	0.4568417	2.4606	4.78632	10.01221	3.59696
11:56:56				1197	9.09375	0.4549177	2.4606	2.24664	9.32845	3.58082
11:56:57				1198	9.09864	0.4606896	2.4606	5.03053	9.52381	3.62877
11:56:57				1199	9.09473	0.459406	2.4606	5.12821	9.86569	3.61839
11:56:58				1200	9.09473	0.4565214	2.4606	4.10256	9.81685	3.59418
11:56:58				1201	9.09375	0.4557194	2.4606	3.85836	9.23077	3.58755
11:56:59				1202	9.09571	0.457162	2.4606	3.85836	9.47497	3.59945
11:56:59				1203	9.09962	0.4592456	2.4606	3.95604	9.37729	3.61655
11:57:00				1204	9.10255	0.4624512	2.4606	3.76068	9.96337	3.64316
11:57:01				1207	9.11411	0.4739914	2.4606	1.66056	9.71917	3.73897

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:57:02				1208	9.11508	0.4664581	2.4606	1.41636	9.08425	3.67554
11:57:02				1209	9.10824	0.4701449	2.4606	2.10012	9.13309	3.70723
11:57:03				1210	9.11019	0.4751142	2.4606	1.7094	9.32845	3.74882
11:57:03				1211	9.12975	0.4683819	2.4606	1.41636	9.32845	3.69019
11:57:04				1212	9.12486	0.469343	2.3623	1.41636	8.79121	3.69878
11:57:04				1213	9.11508	0.463893	2.4606	2.00244	9.32845	3.654
11:57:05				1214	9.11802	0.4701449	2.4606	2.78388	9.42613	3.70622
11:57:05				1215	9.11997	0.4674197	2.4606	2.97924	9.13309	3.68312
11:57:06				1216	9.11899	0.4675792	2.4606	2.29548	9.03541	3.68456
11:57:06				1217	9.11997	0.4667786	2.4606	1.80708	9.23077	3.67773
11:57:07				1218	9.11899	0.4669397	2.4606	1.80708	8.74237	3.67918
11:57:07				1219	9.11802	0.4723894	2.4606	2.34432	9.27961	3.72509
11:57:08				1220	9.12095	0.4699851	2.4606	2.83272	9.81685	3.70457
11:57:08				1221	9.12388	0.4670991	2.4606	2.58852	9.13309	3.68002
11:57:09				1222	9.11899	0.4664581	2.3623	2.14896	8.93773	3.67514
11:57:09				1223	9.11997	0.4675792	2.4606	2.88156	9.18193	3.68446
11:57:10				1224	9.12095	0.4743133	2.4606	3.71184	9.32845	3.74096
11:57:10				1225	9.12388	0.470466	2.4606	2.78388	9.32845	3.70831
11:57:11				1226	9.12486	0.4685415	2.559	2.14896	9.27961	3.69203
11:57:11				1227	9.12095	0.4701449	2.4606	2.49084	9.13309	3.70591
11:57:12				1228	9.12584	0.4773585	2.4606	2.83272	8.98657	3.76606
11:57:12				1229	9.1317	0.4711069	2.4606	2.1978	9.27961	3.71289
11:57:13				1230	9.1317	0.4723894	2.4606	1.80708	9.08425	3.72366
11:57:13				1231	9.1317	0.4768773	2.4606	1.90476	9.08425	3.7614
11:57:14				1232	9.13659	0.4757551	2.4606	2.34432	9.32845	3.75145
11:57:14				1233	9.13855	0.4712668	2.4606	1.85592	9.03541	3.71352
11:57:15				1234	9.13366	0.476717	2.4606	1.80708	8.98657	3.75985
11:57:15				1235	9.14441	0.4951538	2.4606	2.53968	9.52381	3.91398
11:57:16				1236	9.15816	0.4805648	2.4606	1.9536	9.37729	3.78963
11:57:16				1237	9.15816	0.4842518	2.4606	1.4652	8.74237	3.82065
11:57:17				1238	9.14343	0.4666175	2.2639	1.85592	8.93773	3.67398
11:57:17				1239	9.14246	0.4800844	2.3623	3.22344	9.03541	3.78725
11:57:18				1240	9.14246	0.4770377	2.4606	2.24664	9.23077	3.76162
11:57:18				1241	9.14246	0.4749539	2.559	1.41636	8.84005	3.74409
11:57:19				1242	9.14148	0.4763963	2.4606	1.51404	9.03541	3.75633
11:57:19				1243	9.1405	0.4670991	2.4606	2.73504	9.27961	3.67831
11:57:20				1244	9.13561	0.4672602	2.4606	2.49084	9.42613	3.68017
11:57:20				1245	9.11997	0.4670991	2.4606	2.00244	9.81685	3.68042
11:57:21				1246	9.11411	0.4690221	2.4606	1.90476	9.08425	3.69718
11:57:21				1247	9.12291	0.4672602	2.4606	2.05128	9.47497	3.68147
11:57:22				1248	9.12779	0.4677404	2.4606	2.1978	9.47497	3.68501
11:57:22				1249	9.12584	0.4670991	2.4606	2.73504	9.67033	3.67982
11:57:23				1250	9.12291	0.4701449	2.4606	2.58852	8.93773	3.70571
11:57:23				1251	9.12486	0.5148749	2.4606	3.07692	9.18193	4.08281
11:57:24				1252	9.14441	0.4744734	2.4606	2.6862	9.52381	3.73986

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:57:24				1253	9.13464	0.4725494	2.559	1.90476	8.69353	3.7247
11:57:25				1254	9.12975	0.4712668	2.4606	2.39316	9.13309	3.71443
11:57:25				1255	9.12975	0.4711069	2.4606	3.36996	9.37729	3.71309
11:57:26				1256	9.13561	0.462771	2.4606	3.61416	9.42613	3.64249
11:57:26				1257	9.13268	0.4637322	2.4606	3.61416	9.67033	3.65085
11:57:27				1258	9.13268	0.4651751	2.4606	4.10256	9.47497	3.66296
11:57:27				1259	9.13464	0.4680611	2.4606	4.05372	9.13309	3.68699
11:57:28				1260	9.13659	0.4706258	2.4606	5.12821	9.23077	3.70834
11:57:28				1261	9.13561	0.4709471	2.4606	5.56777	10.25641	3.71114
11:57:29				1262	9.13757	0.4672602	2.4606	4.73748	9.42613	3.67997
11:57:29				1263	9.13659	0.4775189	2.4606	4.54212	9.47497	3.76628
11:57:30				1264	9.13561	0.4844128	2.4606	5.32357	9.57265	3.82441
11:57:30				1265	9.13952	0.4738313	2.4606	4.3956	9.03541	3.73497
11:57:31				1266	9.1405	0.4829688	2.4606	3.9072	8.74237	3.81173
11:57:31				1267	9.14734	0.4837704	2.4606	6.15385	9.71917	3.81775
11:57:32				1268	9.15028	0.4720678	2.4606	5.47009	9.23077	3.71903
11:57:32				1269	9.14832	0.4715881	2.4606	4.05372	8.93773	3.71521
11:57:33				1270	9.14539	0.473191	2.4606	6.39805	9.47497	3.72898
11:57:33				1271	9.14343	0.4711069	2.4606	9.42613	10.15873	3.71167
11:57:34				1272	9.13952	0.4666175	2.559	5.42125	9.62149	3.67437
11:57:34				1273	9.14441	0.461489	2.4606	4.05372	9.42613	3.63084
11:57:35				1274	9.13561	0.4691833	2.4606	7.13065	9.27961	3.69632
11:57:35				1275	9.11508	0.4680611	2.4606	9.57265	9.91453	3.68901
11:57:36				1276	9.11313	0.4640538	2.4606	5.56777	9.13309	3.65555
11:57:36				1277	9.12486	0.4581233	2.4606	5.90965	9.27961	3.60459
11:57:37				1278	9.12193	0.466297	2.4606	8.15629	9.71917	3.67348
11:57:37				1279	9.11704	0.4605275	2.3623	5.81197	9.81685	3.62555
11:57:38				1280	9.11802	0.4597252	2.4606	5.81197	9.27961	3.61871
11:57:38				1281	9.12584	0.4626103	2.3623	9.18193	9.62149	3.64214
11:57:39				1282	9.11802	0.4626103	2.4606	8.64469	9.81685	3.64293
11:57:39				1283	9.10628	0.45684	2.4606	5.22589	9.42613	3.59569
11:57:40				1284	9.11411	0.4594044	2.4606	4.24908	9.42613	3.61642
11:57:40				1285	9.11899	0.4579631	2.4606	6.73993	9.71917	3.60383
11:57:41				1286	9.11899	0.4685415	2.4606	7.91209	9.52381	3.69264
11:57:41				1287	9.11508	0.45684	2.4606	7.17949	9.67033	3.59481
11:57:42				1288	9.11313	0.4563597	2.4606	7.03297	9.81685	3.59098
11:57:42				1289	9.11899	0.4549177	2.4606	8.05861	9.47497	3.5783
11:57:43				1290	9.11704	0.4586042	2.4606	8.54701	9.37729	3.60941
11:57:43				1291	9.11411	0.4557177	2.4606	7.81441	10.35409	3.58549
11:57:44				1292	9.11313	0.4539549	2.4606	6.83761	9.52381	3.57081
11:57:44				1293	9.11411	0.4571604	2.4606	7.86325	9.32845	3.59759
11:57:45				1294	9.11411	0.4645347	2.4606	7.76557	9.52381	3.65948
11:57:45				1295	9.11117	0.4549177	2.4606	7.08181	9.42613	3.57908
11:57:46				1296	9.11019	0.4536352	2.4606	6.93529	9.71917	3.56842
11:57:46				1297	9.11117	0.4576426	2.4606	6.78877	9.81685	3.60193

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:57:47				1298	9.10922	0.4531541	2.4606	5.61661	9.47497	3.56449
11:57:47				1299	9.11508	0.4501091	2.4606	4.10256	9.57265	3.53839
11:57:48				1300	9.11508	0.4570002	2.4606	5.76313	9.67033	3.59615
11:57:48				1301	9.11215	0.4518712	2.4606	6.00733	9.71917	3.55344
11:57:49				1302	9.10922	0.4489864	2.4606	4.59096	9.27961	3.52956
11:57:49				1303	9.11508	0.4517115	2.4606	4.78632	9.81685	3.55182
11:57:50				1304	9.11117	0.4534737	2.4606	5.37241	9.91453	3.56697
11:57:50				1305	9.10433	0.4502687	2.4606	5.56777	10.01221	3.54079
11:57:51				1306	9.1053	0.4497885	2.4606	5.42125	9.47497	3.53667
11:57:51				1307	9.10922	0.4509101	2.4606	5.27473	10.01221	3.54568
11:57:52				1308	9.1053	0.4662971	2.4606	5.03053	9.52381	3.67519
11:57:52				1309	9.0984	0.4566799	2.4606	4.24908	9.81685	3.59514
11:57:53				1310	9.0984	0.4545962	2.4606	4.29792	9.32845	3.57766
11:57:53				1311	9.09742	0.4513906	2.3623	4.59096	9.27961	3.55088
11:57:54				1312	9.10231	0.453795	2.4606	4.3956	9.23077	3.57055
11:57:54				1313	9.10726	0.463893	2.4606	4.1514	10.40293	3.65479
11:57:55				1314	9.10726	0.4635731	2.4606	4.20024	9.71917	3.65211
11:57:55				1315	9.10922	0.4573206	2.4606	3.95604	9.76801	3.59943
11:57:56				1316	9.10628	0.4539549	2.4606	3.85836	9.47497	3.57149
11:57:56				1317	9.10035	0.4574808	2.4606	4.24908	9.81685	3.60166
11:57:57				1318	9.09351	0.4534737	2.559	3.46764	9.71917	3.56873
11:57:57				1319	9.09351	0.4536352	2.4606	2.9304	9.71917	3.57009
11:57:58				1320	9.09644	0.4563597	2.4606	3.02808	10.01221	3.59265
11:57:58				1321	9.09644	0.4651751	2.3623	3.12576	10.20757	3.66668
11:57:59				1322	9.10231	0.4667786	2.4606	3.1746	9.81685	3.67954
11:57:59				1323	9.11117	0.4550777	2.4606	2.78388	9.32845	3.58042
11:58:00				1324	9.10726	0.4578028	2.4606	2.83272	9.37729	3.60367
11:58:01				1327	9.09791	0.4589281	2.4606	2.63736	9.47497	3.61406
11:58:02				1328	9.09889	0.4586075	2.4606	2.63736	9.52381	3.61127
11:58:02				1329	9.09791	0.4619742	2.4606	2.53968	9.47497	3.63963
11:58:03				1330	9.10084	0.462935	2.4606	2.58852	10.20757	3.6474
11:58:03				1331	9.10378	0.4582869	2.559	2.6862	9.27961	3.60808
11:58:04				1332	9.10475	0.4584472	2.4606	2.73504	8.79121	3.60933
11:58:04				1333	9.1028	0.4701482	2.4606	2.63736	9.86569	3.70782
11:58:05				1334	9.1028	0.4848978	2.4606	2.73504	9.76801	3.832
11:58:05				1335	9.11453	0.479927	2.4606	2.73504	9.42613	3.78888
11:58:06				1336	9.12242	0.480409	2.4606	2.73504	9.47497	3.7921
11:58:06				1337	9.14295	0.4690269	2.4606	2.73504	9.32845	3.69425
11:58:07				1338	9.13904	0.4696673	2.4606	2.83272	9.08425	3.70003
11:58:07				1339	9.12633	0.4908289	2.4606	2.6862	9.91453	3.87948
11:58:08				1340	9.12437	0.4792862	2.4606	2.73504	9.86569	3.78244
11:58:08				1341	9.13415	0.4727142	2.4606	2.442	9.32845	3.72614
11:58:09				1342	9.12926	0.4675841	2.4606	2.24664	8.88889	3.68354
11:58:09				1343	9.12535	0.4720728	2.4606	2.6862	9.71917	3.72166
11:58:10				1344	9.13024	0.4852183	2.4606	2.6862	9.71917	3.83177

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:58:10				1345	9.13806	0.4725526	2.4606	2.14896	9.57265	3.72438
11:58:11				1346	9.13415	0.4688656	2.4606	1.7094	8.74237	3.6938
11:58:11				1347	9.11062	0.4611728	2.3623	2.14896	9.57265	3.63162
11:58:12				1348	9.05186	0.4382525	2.0671	2.53968	9.42613	3.44527
11:58:12				1349	9.0362	0.4483489	1.9687	2.78388	9.96337	3.53145
11:58:13				1350	9.02837	0.4374511	1.9687	2.88156	10.35409	3.44082
11:58:13				1351	9.00382	0.4302392	1.8703	2.97924	9.76801	3.38277
11:58:14				1352	8.9381	0.4231886	1.5752	3.07692	10.10989	3.3299
11:58:14				1353	8.92432	0.4164583	1.3784	2.53968	9.76801	3.27482
11:58:15				1354	8.91745	0.4142142	1.2801	2.58852	9.86569	3.25667
11:58:15				1355	8.90961	0.4156563	1.0833	2.34432	9.81685	3.26947
11:58:16				1356	8.92824	0.4153358	0.9849	2.83272	9.96337	3.26509
11:58:16				1357	8.93712	0.4164583	0.8865	4.34676	9.81685	3.27367
11:58:17				1358	8.97045	0.4161377	0.7881	4.29792	9.86569	3.26795
11:58:17				1359	8.99011	0.0744234	0.6898	4.83516	11.23321	0.53345
11:58:18				1360	9.00088	0.0306369	0.6898	4.83516	11.23321	0.21266
11:58:18				1361	9.01949	0.2743855	0.6898	0	0	2.09742
11:58:19				1362	9.03816	0.4166176	0.5914	0	0	3.26578
11:58:19				1363	9.05578	0.2711842	0.6898	0	0	2.06944
11:58:20	11:57:30 switch off			1364	9.07345	0.2364482	0.6898	0	0	1.78934
12:02:13	12:01:14 switch on	7.5	270	7	9.61	0.4104012	1.0833	0	0	3.16324
12:02:14				8	9.62462	0.4097609	1.0833	0	0	3.15671
12:02:14				9	9.645	0.4091193	1.1817	0	0	3.14967
12:02:15				10	9.61589	0.4091194	1.1817	0	0	3.1522
12:02:15				11	9.59156	0.4091194	1.1817	0	0	3.15433
12:02:16				12	9.60127	0.4081575	1.1817	0	0	3.14559
12:02:16				13	9.50399	0.4081577	1.1817	0	0	3.15407
12:02:17				14	9.57505	0.4083178	1.1817	0	0	3.14919
12:02:17				15	9.55362	0.4079973	1.2801	0	0	3.14842
12:02:18				16	9.54196	0.4063957	1.2801	0	0	3.13628
12:02:18				17	9.48163	0.4060756	1.2801	0	0	3.1389
12:02:19				18	9.42216	0.405114	1.2801	0	0	3.13616
12:02:19				19	9.36367	0.4068762	1.2801	0	0	3.1558
12:02:20				20	9.36562	0.4057541	1.2801	0	0	3.14637
12:02:20				21	9.36367	0.4044728	1.2801	0	0	3.13596
12:02:21				22	9.37633	0.4038318	1.2801	0	0	3.12958
12:02:21				23	9.50205	0.4060756	1.2801	0	0	3.13712
12:02:22				24	9.55168	0.4054338	1.2801	0	0	3.12754
12:02:22				25	9.50788	0.4047925	1.2801	0	0	3.12607
12:02:23				26	9.47385	0.4041513	1.1817	0	0	3.12375
12:02:23				27	9.53613	0.4055938	1.2801	0	0	3.13021
12:02:24				28	9.54293	0.4052739	1.2801	0	0	3.12699
12:02:24				29	9.51566	0.4031908	1.2801	0	0	3.11224
12:02:25				30	9.46698	0.4030295	1.1817	0	0	3.11512

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:02:25				31	9.36172	0.403672	1.2801	0	0	3.12953
12:02:26				32	9.16048	0.4043132	1.2801	0	0	3.15242
12:02:26				33	9.17025	0.4023895	1.2801	0	0	3.13561
12:02:27				34	9.27386	0.3991846	1.2801	0	0	3.10009
12:02:27				35	9.2084	0.4003069	1.2801	0	0	3.11503
12:02:28				36	9.08898	0.4023896	1.2801	0	0	3.14272
12:02:28				37	9.05957	0.3993458	1.3784	0	0	3.11999
12:02:29				38	9.10463	0.3974217	1.2801	0	0	3.10011
12:02:29				39	9.12229	0.400307	1.2801	0	0	3.12252
12:02:30				40	9.13305	0.3996661	1.2801	0	0	3.11627
12:02:30				41	9.14282	0.3988644	1.1817	0	0	3.10877
12:02:31				42	9.14869	0.3983834	1.2801	0	0	3.10427
12:02:31				43	9.15455	0.3993457	1.2801	0	0	3.11174
12:02:32				44	9.17611	0.3998254	1.2801	0	0	3.11385
12:02:32				45	9.18295	0.3987035	1.2801	0	0	3.10396
12:02:33				46	9.18295	0.3985442	1.2801	0	0	3.10264
12:02:33				47	9.18979	0.3991847	1.2801	0	0	3.10735
12:02:34				48	9.2641	0.3998253	1.2801	0	0	3.10623
12:02:34				49	9.25825	0.3988643	1.2801	0	0	3.09879
12:02:35				50	9.25727	0.3993455	1.2801	0	0	3.10285
12:02:35				51	9.34126	0.3999862	1.2801	0	0	3.1009
12:02:36				52	9.351	0.3993454	1.2801	0	0	3.09478
12:02:36				53	9.26995	0.3991846	1.2801	0	0	3.10043
12:02:37				54	9.26312	0.3998253	1.2801	0	0	3.10631
12:02:37				55	9.2641	0.3999863	1.3784	0	0	3.10755
12:02:38				56	9.2602	0.3995049	1.2801	0	0	3.10392
12:02:38				57	9.24751	0.3993455	1.2801	0	0	3.10369
12:02:39				58	9.23671	0.3999864	1.2801	0	0	3.10993
12:02:39				59	9.21719	0.3999864	1.2801	0	0	3.11162
12:02:40				60	9.21426	0.3993456	1.2801	0	0	3.10657
12:02:40				61	9.1976	0.3987035	1.2801	0	0	3.10269
12:02:41				62	9.23086	0.399505	1.2801	0	0	3.10645
12:02:41				63	9.31	0.3998253	1.2801	0	0	3.10226
12:02:42				64	9.33541	0.3990236	1.2801	0	0	3.09346
12:02:42				65	9.27581	0.3987034	1.2801	0	0	3.09595
12:02:43				66	9.3549	0.3995048	1.2801	0	0	3.09575
12:02:43				67	9.40463	0.3998251	1.2801	0	0	3.09412
12:02:44				68	9.4095	0.3991844	1.2801	0	0	3.08843
12:02:44				69	9.45336	0.3993453	1.2801	0	0	3.08599
12:02:45				70	9.54779	0.3995045	1.2801	0	0	3.07924
12:02:45				71	9.57311	0.3996655	1.2801	0	0	3.0784
12:02:46				72	9.56139	0.3998249	1.2801	0	0	3.0807
12:02:46				73	9.60903	0.3996654	1.2801	0	0	3.07534
12:02:47				74	9.63918	0.3998248	1.3784	0	0	3.07408
12:02:47				75	9.59447	0.4003064	1.2801	0	0	3.08183

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:02:48				76	9.61395	0.4001453	1.2801	0	0	3.07885
12:02:48				77	9.65082	0.3998248	1.2801	0	0	3.07309
12:02:49				78	9.65082	0.3998248	1.2801	0	0	3.07309
12:02:49				79	9.63821	0.3998248	1.2801	0	0	3.07416
12:02:50				80	9.63433	0.3998248	1.3784	0	0	3.07449
12:02:50				81	9.61686	0.3996654	1.2801	0	0	3.07468
12:02:51				82	9.61194	0.3998249	1.2801	0	0	3.0764
12:02:51				83	9.59932	0.3996655	1.2801	0	0	3.07617
12:02:52				84	9.58088	0.3996655	1.2801	0	0	3.07774
12:02:52				85	9.5935	0.3999859	1.2801	0	0	3.07929
12:02:53				86	9.59059	0.400627	1.2801	0	0	3.08479
12:02:53				87	9.59156	0.4001454	1.2801	0	0	3.08076
12:02:54				88	9.59932	0.4003064	1.3784	0	0	3.08141
12:02:54				89	9.60806	0.4004659	1.3784	0	0	3.08197
12:02:55				90	9.62462	0.3999859	1.3784	0	0	3.07663
12:02:55				91	9.63433	0.3999859	1.3784	0	0	3.07581
12:02:56				92	9.63238	0.4012667	1.3784	0	0	3.08645
12:02:56				93	9.5935	0.4007865	1.3784	0	0	3.08584
12:02:57				94	9.55265	0.400466	1.3784	0	0	3.0867
12:02:57				95	9.57311	0.4019084	1.3784	0	0	3.09678
12:02:58				96	9.57019	0.4028697	1.3784	0	0	3.10491
12:02:58				97	9.56333	0.4017487	1.3784	0	0	3.0963
12:02:59				98	9.56825	0.4025486	1.3784	0	0	3.10244
12:02:59				99	9.56528	0.4031907	1.3784	0.58608	0.2442	3.10796
12:03:00				100	9.56922	0.4031907	1.3784	0.39072	0.09768	3.10762
12:03:00				101	9.57893	0.4031907	1.3784	1.4652	5.22589	3.10679
12:03:01				102	9.5799	0.4030294	1.3784	1.41636	5.17705	3.10538
12:03:01				103	9.57699	0.4027099	1.3784	28.03419	10.30525	3.10301
12:03:02				104	9.57505	0.4033505	1.3784	22.22222	10.59829	3.10843
12:03:02				105	9.54682	0.4028697	1.3784	23.73626	10.74481	3.10692
12:03:03				106	9.5439	0.4030294	1.4768	25.64103	9.86569	3.10847
12:03:03				107	9.55945	0.4030294	1.3784	24.71306	9.96337	3.10714
12:03:04				108	9.53516	0.4031908	1.3784	19.68254	10.25641	3.11056
12:03:04				109	9.52544	0.4030295	1.4768	22.02686	10.10989	3.11006
12:03:05				110	9.51566	0.4030295	1.4768	24.66422	9.91453	3.11091
12:03:05				111	9.51274	0.4033506	1.3784	22.75946	10.50061	3.1138
12:03:06				112	9.5108	0.4031908	1.3784	21.53846	10.74481	3.11266
12:03:06				113	9.50108	0.4028697	1.3784	21.78266	9.91453	3.11086
12:03:07				114	9.49816	0.402389	1.3784	22.27106	10.59829	3.10716
12:03:07				115	9.49913	0.4030295	1.3784	22.36874	10.01221	3.11234
12:03:08				116	9.49913	0.40271	1.3784	22.27106	10.50061	3.10971
12:03:08				117	9.49233	0.4028698	1.3784	21.39194	10.20757	3.11161
12:03:09				118	9.49233	0.4030295	1.3784	20.8547	9.81685	3.11292
12:03:09				119	9.4933	0.4028698	1.3784	20.56166	9.91453	3.11153
12:03:10				120	9.47871	0.4030295	1.3784	20.80586	10.84249	3.1141

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:10				121	9.48455	0.40271	1.3784	20.51282	10.79365	3.11097
12:03:11				122	9.49038	0.4030295	1.3784	20.1221	10.54945	3.11309
12:03:11				123	9.47871	0.4030295	1.3784	20.07326	10.50061	3.1141
12:03:12				124	9.45822	0.4031909	1.3784	19.78022	10.10989	3.11719
12:03:13				127	9.46528	0.4026678	1.3784	20.31746	10.01221	3.11228
12:03:14				128	9.45652	0.4018663	1.3784	19.53602	9.81685	3.10645
12:03:14				129	9.45652	0.4023468	1.3784	19.6337	10.01221	3.1104
12:03:15				130	9.44971	0.4023468	1.3784	19.48718	10.15873	3.11099
12:03:15				131	9.44485	0.4020259	1.3784	19.1453	10.89133	3.10877
12:03:16				132	9.44582	0.4025065	1.3784	19.1453	10.01221	3.11264
12:03:16				133	9.43414	0.4021872	1.3784	18.94994	10.20757	3.11102
12:03:17				134	9.43609	0.4025065	1.3784	17.87546	9.81685	3.11348
12:03:17				135	9.44776	0.4023468	1.4768	18.26618	10.30525	3.11115
12:03:18				136	9.44387	0.4023468	1.4768	19.34066	9.86569	3.11149
12:03:18				137	9.43511	0.4013859	1.3784	18.31502	10.10989	3.10434
12:03:19				138	9.43025	0.4017067	1.3784	17.48474	10.64713	3.1074
12:03:19				139	9.42824	0.4017067	1.3784	17.9243	9.81685	3.10757
12:03:20				140	9.42629	0.4017067	1.3784	18.36386	9.76801	3.10774
12:03:20				141	9.42629	0.4018663	1.3784	17.6801	10.45177	3.10905
12:03:21				142	9.42629	0.4015455	1.3784	17.4359	10.06105	3.10641
12:03:21				143	9.42532	0.4012247	1.3784	17.48474	9.96337	3.10386
12:03:22				144	9.42435	0.4015455	1.3784	17.58242	11.03785	3.10658
12:03:22				145	9.42727	0.4017067	1.3784	17.6801	9.57265	3.10765
12:03:23				146	9.42629	0.4020259	1.4768	17.38706	10.10989	3.11036
12:03:23				147	9.42435	0.4021872	1.3784	17.33822	10.64713	3.11186
12:03:24				148	9.42927	0.4025065	1.2801	17.4359	10.20757	3.11407
12:03:24				149	9.43803	0.4020259	1.3784	17.24054	10.15873	3.10935
12:03:25				150	9.43414	0.4023468	1.3784	17.24054	9.96337	3.11233
12:03:25				151	9.42727	0.4021872	1.3784	17.28938	10.15873	3.11161
12:03:26				152	9.43317	0.4023468	1.3784	18.46154	10.59829	3.11241
12:03:26				153	9.43609	0.4025065	1.4768	17.53358	10.06105	3.11347
12:03:27				154	9.43219	0.4028276	1.3784	17.53358	9.86569	3.11646
12:03:27				155	9.42927	0.4037894	1.3784	17.58242	10.06105	3.12463
12:03:28				156	9.42435	0.4033084	1.3784	17.38706	11.08669	3.12109
12:03:28				157	9.41753	0.4039492	1.3784	17.58242	9.76801	3.12696
12:03:29				158	9.41267	0.4044304	1.3784	17.63126	10.79365	3.13135
12:03:29				159	9.40488	0.4044304	1.3784	17.6801	10.59829	3.13202
12:03:30				160	9.40877	0.4039493	1.3784	17.6801	9.76801	3.12772
12:03:30				161	9.41461	0.4041091	1.3784	17.77778	9.81685	3.12853
12:03:31				162	9.41267	0.4041091	1.3784	17.63126	10.06105	3.1287
12:03:31				163	9.41753	0.4041091	1.3784	17.87546	10.01221	3.12828
12:03:32				164	9.41364	0.404269	1.3784	17.63126	10.35409	3.12993
12:03:32				165	9.41267	0.404269	1.3784	17.14286	10.01221	3.13002
12:03:33				166	9.41753	0.404269	1.3784	16.7033	10.15873	3.12959
12:03:33				167	9.41656	0.4053917	1.3784	17.14286	10.01221	3.13893

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:34				168	9.40975	0.4045903	1.3784	17.04518	10.01221	3.13292
12:03:34				169	9.40488	0.4041091	1.3784	16.7033	9.62149	3.12938
12:03:35				170	9.41364	0.404269	1.3784	16.84982	9.76801	3.12993
12:03:35				171	9.40975	0.404269	1.3784	17.04518	9.76801	3.13027
12:03:36				172	9.40196	0.4039493	1.3784	17.09402	10.35409	3.12831
12:03:36				173	9.40196	0.4041091	1.3784	17.04518	9.81685	3.12963
12:03:37				174	9.41169	0.4039493	1.3784	17.09402	9.27961	3.12747
12:03:37				175	9.41656	0.4050717	1.3784	17.28938	10.35409	3.13629
12:03:38				176	9.41753	0.4050717	1.3784	17.33822	10.06105	3.13621
12:03:38				177	9.39709	0.4041091	1.4768	17.28938	10.06105	3.13005
12:03:39				178	9.4078	0.4044304	1.4768	17.14286	10.20757	3.13177
12:03:39				179	9.40975	0.404269	1.3784	17.53358	10.06105	3.13027
12:03:40				180	9.41072	0.4045903	1.3784	17.6801	10.25641	3.13283
12:03:40				181	9.40975	0.4044304	1.4768	16.80098	10.10989	3.1316
12:03:41				182	9.41072	0.4058717	1.3784	17.1917	9.81685	3.14339
12:03:41				183	9.4039	0.4053917	1.3784	17.14286	10.20757	3.14003
12:03:42				184	9.40975	0.4050717	1.3784	17.63126	10.79365	3.13688
12:03:42				185	9.40877	0.4052317	1.3784	17.77778	9.76801	3.13829
12:03:43				186	9.4039	0.4052317	1.3784	17.72894	9.76801	3.13871
12:03:43				187	9.40001	0.4052317	1.3784	16.65446	9.62149	3.13905
12:03:44				188	9.40098	0.4047503	1.3784	17.14286	9.91453	3.135
12:03:44				189	9.4039	0.4047503	1.3784	17.28938	9.86569	3.13474
12:03:45				190	9.41072	0.4050717	1.3784	17.48474	9.52381	3.1368
12:03:45				191	9.40877	0.4050717	1.3784	17.4359	9.62149	3.13697
12:03:46				192	9.41169	0.4041091	1.3784	17.33822	10.30525	3.12878
12:03:46				193	9.41559	0.4052317	1.4768	16.89866	10.40293	3.13769
12:03:47				194	9.41461	0.4050717	1.3784	16.9475	10.35409	3.13646
12:03:47				195	9.41169	0.4068338	1.3784	17.04518	10.10989	3.15124
12:03:48				196	9.41267	0.4049102	1.3784	16.89866	9.96337	3.1353
12:03:48				197	9.41461	0.4053917	1.3784	17.33822	9.91453	3.1391
12:03:49				198	9.41267	0.4058717	1.4768	17.87546	9.76801	3.14322
12:03:49				199	9.40877	0.4060318	1.3784	17.48474	9.67033	3.14488
12:03:50				200	9.40975	0.404269	1.3784	17.38706	10.01221	3.13027
12:03:50				201	9.4224	0.4045903	1.3784	17.53358	11.67277	3.13182
12:03:51				202	9.42435	0.4055516	1.4768	18.11966	9.76801	3.13956
12:03:51				203	9.41851	0.4053917	1.3784	17.82662	9.91453	3.13876
12:03:52				204	9.41851	0.4053917	1.3784	17.58242	9.67033	3.13876
12:03:52				205	9.41753	0.4053917	1.3784	17.33822	10.25641	3.13884
12:03:53				206	9.42143	0.4055516	1.3784	17.53358	9.96337	3.13982
12:03:53				207	9.42045	0.4053917	1.3784	17.6801	10.10989	3.13859
12:03:54				208	9.41753	0.4058717	1.3784	17.63126	9.86569	3.1428
12:03:54				209	9.41948	0.4050717	1.4768	17.1917	10.06105	3.13603
12:03:55				210	9.42143	0.4044304	1.3784	17.09402	9.71917	3.13059
12:03:55				211	9.42435	0.4052317	1.3784	17.24054	10.15873	3.13693
12:03:56				212	9.41948	0.4052317	1.3784	17.09402	10.25641	3.13735

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:56				213	9.42045	0.4053917	1.3784	17.33822	10.25641	3.13859
12:03:57				214	9.42045	0.4045903	1.4768	16.99634	10.10989	3.13198
12:03:57				215	9.43025	0.4052317	1.3784	17.1917	10.10989	3.13642
12:03:58				216	9.42824	0.4052317	1.4768	17.48474	9.62149	3.13659
12:03:58				217	9.42143	0.4053917	1.3784	17.58242	10.15873	3.1385
12:03:59				218	9.42045	0.4055517	1.3784	17.33822	9.91453	3.13991
12:03:59				219	9.41267	0.4053917	1.3784	16.99634	9.96337	3.13927
12:04:00				220	9.41072	0.4052317	1.3784	16.99634	9.67033	3.13812
12:04:00				221	9.41169	0.4066737	1.3784	16.89866	10.01221	3.14992
12:04:01				222	9.41072	0.4060318	1.3784	16.7033	10.20757	3.14471
12:04:01				223	9.40682	0.4057117	1.3784	16.9475	9.91453	3.14241
12:04:02				224	9.40877	0.4058717	1.3784	16.89866	9.91453	3.14356
12:04:02				225	9.41072	0.4061934	1.3784	16.4591	10.20757	3.14604
12:04:03				226	9.40293	0.4065136	1.4768	16.4591	10.15873	3.14936
12:04:03				227	9.39904	0.4061934	1.4768	16.80098	9.71917	3.14706
12:04:04				228	9.39806	0.4076347	1.3784	16.65446	10.06105	3.15903
12:04:04				229	9.38832	0.4076347	1.3784	16.16606	10.84249	3.15989
12:04:05				230	9.37755	0.4071541	1.3784	16.84982	10.35409	3.15687
12:04:05				231	9.3795	0.4073143	1.3784	16.89866	9.86569	3.15802
12:04:06				232	9.38248	0.4098776	1.3784	16.75214	10.40293	3.17891
12:04:06				233	9.37657	0.4085963	1.3784	16.36142	10.54945	3.16885
12:04:07				234	9.3717	0.4082757	1.3784	16.50794	10.25641	3.16664
12:04:07				235	9.37463	0.4079552	1.3784	16.50794	9.81685	3.16373
12:04:08				236	9.38053	0.4085963	1.3784	16.2149	10.35409	3.1685
12:04:08				237	9.38053	0.4092376	1.3784	16.36142	10.15873	3.1738
12:04:09				238	9.37073	0.4089169	1.3784	16.4591	9.96337	3.17201
12:04:09				239	9.37073	0.4095584	1.3784	16.7033	10.06105	3.17731
12:04:10				240	9.36294	0.4085963	1.3784	16.89866	10.06105	3.17005
12:04:10				241	9.36878	0.4105195	1.3784	16.75214	10.50061	3.18542
12:04:11				242	9.36391	0.4087566	1.3784	16.4591	10.25641	3.17129
12:04:11				243	9.35222	0.409398	1.3784	16.65446	10.15873	3.17762
12:04:12				244	9.35807	0.4092376	1.3784	16.50794	10.10989	3.17578
12:04:13				247	9.35709	0.4100255	1.3784	16.11722	9.96337	3.18237
12:04:14				248	9.35417	0.4100255	1.3784	16.16606	9.27961	3.18263
12:04:14				249	9.35514	0.410186	1.3784	15.92186	10.15873	3.18387
12:04:15				250	9.35319	0.4100255	1.3784	15.77534	10.79365	3.18272
12:04:15				251	9.35319	0.4098651	1.3784	15.67766	9.76801	3.18139
12:04:16				252	9.35222	0.4103465	1.3784	15.53114	9.37729	3.18545
12:04:16				253	9.35222	0.410507	1.3784	15.38462	10.59829	3.18678
12:04:17				254	9.35124	0.4100255	1.3784	15.2381	10.69597	3.18289
12:04:17				255	9.35124	0.4100255	1.3784	15.33578	10.06105	3.18289
12:04:18				256	9.3493	0.4103465	1.3784	15.33578	9.86569	3.18571
12:04:18				257	9.34637	0.410507	1.3784	14.74969	9.81685	3.1873
12:04:19				258	9.34247	0.410507	1.3784	14.84737	9.62149	3.18764
12:04:19				259	9.34247	0.4095459	1.3784	14.89621	9.81685	3.1797

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:04:20				260	9.34345	0.4097047	1.3784	15.14042	9.76801	3.18093
12:04:20				261	9.35319	0.410186	1.3784	15.28694	9.62149	3.18404
12:04:21				262	9.35027	0.410186	1.3784	15.4823	8.84005	3.1843
12:04:21				263	9.3493	0.4103465	1.3784	15.33578	9.76801	3.18571
12:04:22				264	9.3493	0.4095458	1.3784	15.04274	10.25641	3.1791
12:04:22				265	9.35807	0.410186	1.3784	15.53114	10.25641	3.18361
12:04:23				266	9.35027	0.410186	1.3784	15.53114	9.67033	3.1843
12:04:23				267	9.35027	0.4093854	1.3784	14.84737	9.96337	3.17769
12:04:24				268	9.35612	0.4095458	1.3784	14.26129	9.96337	3.1785
12:04:24				269	9.35904	0.4100255	1.4768	15.28694	10.01221	3.18219
12:04:25				270	9.35514	0.4097047	1.3784	15.38462	10.06105	3.17989
12:04:25				271	9.35904	0.4097047	1.3784	16.01954	10.15873	3.17955
12:04:26				272	9.36878	0.4098651	1.4768	16.31258	10.06105	3.18001
12:04:26				273	9.36489	0.4098651	1.3784	16.06838	9.42613	3.18036
12:04:27				274	9.35904	0.4098651	1.3784	16.4591	9.67033	3.18087
12:04:27				275	9.36001	0.4098651	1.3784	16.26374	9.91453	3.18079
12:04:28				276	9.35904	0.4098651	1.3784	16.16606	10.06105	3.18087
12:04:28				277	9.35319	0.4100255	1.3784	16.36142	10.06105	3.18272
12:04:29				278	9.3493	0.4098651	1.4768	16.16606	10.35409	3.18173
12:04:29				279	9.34637	0.4098651	1.3784	16.26374	9.91453	3.18199
12:04:30				280	9.33559	0.410186	1.4768	16.11722	10.06105	3.18559
12:04:30				281	9.33657	0.4100256	1.3784	16.01954	9.37729	3.18419
12:04:31				282	9.34735	0.4100255	1.3784	15.7265	9.67033	3.18323
12:04:31				283	9.34832	0.4084234	1.3784	15.4823	10.06105	3.16991
12:04:32				284	9.35124	0.4082631	1.3784	15.53114	10.30525	3.16833
12:04:32				285	9.35807	0.4100255	1.4768	16.01954	10.01221	3.18228
12:04:33				286	9.33364	0.4103465	1.4768	15.67766	9.86569	3.18709
12:04:33				287	9.32779	0.4095459	1.3784	15.04274	10.01221	3.181
12:04:34				288	9.26825	0.4101861	1.3784	14.99389	9.96337	3.19157
12:04:34				289	9.27508	0.4108265	1.4768	14.06593	10.20757	3.19626
12:04:35				290	9.26922	0.4109871	1.4768	14.40781	10.06105	3.19811
12:04:35				291	9.26825	0.4113082	1.3784	14.31013	10.01221	3.20086
12:04:36				292	9.25459	0.4111476	1.3784	14.74969	10.10989	3.20075
12:04:36				293	9.24776	0.4111476	1.3784	13.47985	9.52381	3.20136
12:04:37				294	9.2702	0.4113082	1.4768	12.84493	9.76801	3.20068
12:04:37				295	9.27508	0.4113082	1.4768	13.96825	10.25641	3.20025
12:04:38				296	9.26727	0.4109871	1.3784	13.47985	10.30525	3.19829
12:04:38				297	9.25361	0.4034559	1.3784	12.84493	9.91453	3.13716
12:04:39				298	9.19101	0.4092253	1.4768	10.98901	10.01221	3.19046
12:04:39				299	9.19589	0.4095461	1.4768	9.96337	10.30525	3.19269
12:04:40				300	9.2106	0.4089046	1.4768	10.89133	10.15873	3.18606
12:04:40				301	9.17635	0.4087443	1.4768	11.96581	10.30525	3.18778
12:04:41				302	9.17733	0.4097049	1.4768	11.67277	9.86569	3.19566
12:04:41				303	9.16365	0.4095461	1.4768	11.08669	10.10989	3.19556
12:04:42				304	9.16951	0.4082634	1.4768	11.67277	10.20757	3.18439

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:04:42				305	9.16561	0.4093857	1.4768	11.67277	9.96337	3.19406
12:04:43				306	9.16854	0.4095461	1.4768	11.08669	9.62149	3.19513
12:04:43				307	9.19394	0.4095461	1.4768	10.35409	10.01221	3.19287
12:04:44				308	9.17147	0.4092253	1.4768	11.08669	9.91453	3.1922
12:04:44				309	9.1744	0.4090649	1.4768	10.10989	9.86569	3.19061
12:04:45				310	9.18124	0.4093857	1.3784	10.06105	9.76801	3.19267
12:04:45				311	9.21451	0.4090649	1.4768	11.52625	9.86569	3.18705
12:04:46				312	9.18124	0.4084236	1.3784	12.11233	10.50061	3.18469
12:04:46				313	9.15974	0.4093857	1.4768	9.52381	10.25641	3.19458
12:04:47				314	9.18026	0.4092253	1.4768	8.69353	10.20757	3.19142
12:04:47				315	9.18319	0.4040969	1.3784	10.84249	10.10989	3.14863
12:04:48				316	9.14502	0.409065	1.4768	11.03785	10.35409	3.19322
12:04:48				317	9.12938	0.4082634	1.4768	8.25397	9.81685	3.18796
12:04:49				318	9.1617	0.4066614	1.3784	7.91209	10.40293	3.17179
12:04:49				319	9.13036	0.4095461	1.3784	8.59585	10.30525	3.19853
12:04:50				320	9.14209	0.409705	1.4768	8.05861	10.64713	3.1988
12:04:50				321	9.15388	0.409065	1.4768	6.78877	10.25641	3.19244
12:04:51				322	9.13623	0.4098654	1.4768	7.37485	10.25641	3.20066
12:04:51				323	9.16854	0.4076224	1.4768	8.05861	10.15873	3.17916
12:04:52				324	9.20669	0.4061811	1.4768	7.76557	10.20757	3.16383
12:04:52				325	9.20865	0.4079428	1.4768	7.27717	10.20757	3.17826
12:04:53				326	9.1979	0.4079428	1.4768	6.93529	10.01221	3.17921
12:04:53				327	9.19687	0.4082633	1.4768	7.08181	10.40293	3.18197
12:04:54				328	9.19687	0.4061811	1.4768	7.32601	10.20757	3.1647
12:04:54				329	9.16854	0.4082634	1.5752	7.91209	10.54945	3.18447
12:04:55				330	9.146	0.4081031	1.4768	7.91209	10.59829	3.18515
12:04:55				331	9.13134	0.4082634	1.4768	8.05861	9.62149	3.18778
12:04:56				332	9.13134	0.4087443	1.4768	8.35165	9.76801	3.19178
12:04:56				333	9.146	0.4092254	1.5752	8.59585	9.96337	3.19446
12:04:57				334	9.16561	0.4097049	1.4768	8.88889	10.15873	3.19671
12:04:57				335	9.17538	0.4098653	1.3784	9.52381	10.35409	3.19717
12:04:58				336	9.18417	0.4092253	1.4768	11.96581	9.81685	3.19107
12:04:58				337	9.19198	0.4097049	1.4768	12.45421	9.91453	3.19436
12:04:59				338	9.1871	0.4101862	1.4768	11.52625	10.20757	3.19879
12:04:59				339	9.20669	0.4108266	1.3784	11.81929	10.25641	3.20236
12:05:00				340	9.24184	0.4090649	1.4768	13.47985	10.74481	3.18462
12:05:00				341	9.26239	0.4098652	1.4768	14.06593	10.06105	3.18943
12:05:01				342	9.26044	0.409546	1.4768	13.96825	9.96337	3.18696
12:05:01				343	9.27508	0.4097048	1.4768	12.94261	10.01221	3.18698
12:05:02				344	9.29464	0.4133906	1.3784	13.28449	10.15873	3.21575
12:05:02				345	9.38339	0.4114686	1.3784	18.51038	9.81685	3.19196
12:05:03				346	9.38242	0.4111475	1.5752	17.1917	9.76801	3.18939
12:05:03				347	9.4224	0.4108263	1.4768	15.67766	10.20757	3.1832
12:05:04				348	9.43213	0.4130705	1.4768	16.7033	10.15873	3.20085
12:05:04				349	9.4536	0.4111474	1.4768	18.11966	10.79365	3.1831

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:05				350	9.45749	0.4106673	1.4768	18.11966	9.27961	3.1788
12:05:05				351	9.45847	0.4111474	1.4768	18.02198	9.86569	3.18267
12:05:06				352	9.44485	0.4113079	1.4768	18.51038	10.01221	3.18519
12:05:06				353	9.4429	0.4101859	1.4768	18.9011	9.57265	3.17612
12:05:07				354	9.43213	0.4122685	1.4768	19.34066	9.81685	3.19424
12:05:07				355	9.50132	0.4125898	1.4768	19.24298	10.40293	3.19076
12:05:08				356	9.55289	0.4114684	1.4768	19.29182	10.01221	3.17699
12:05:08				357	9.50618	0.4092249	1.4768	18.85226	9.62149	3.16265
12:05:09				358	9.49938	0.41932	1.3784	18.36386	10.30525	3.24637
12:05:09				359	9.4984	0.4124291	1.4768	17.09402	10.20757	3.18969
12:05:10				360	9.4984	0.4121094	1.4768	16.41026	9.96337	3.18706
12:05:10				361	9.48862	0.4114685	1.4768	16.60562	9.71917	3.18265
12:05:11				362	9.4643	0.4109868	1.4768	16.65446	9.86569	3.18083
12:05:11				363	9.46139	0.4119488	1.3784	16.75214	9.76801	3.18902
12:05:12				364	9.39611	0.406501	1.4768	17.24054	9.62149	3.14985
12:05:13				367	9.31341	0.4137185	1.4768	14.11477	9.81685	3.21678
12:05:14				368	9.34369	0.4117946	1.3784	15.4823	10.01221	3.19818
12:05:14				369	9.23922	0.412116	1.4768	15.77534	9.86569	3.21014
12:05:15				370	9.19033	0.4121161	1.4768	9.32845	9.91453	3.21452
12:05:15				371	9.21865	0.4124358	1.5752	9.52381	9.91453	3.21463
12:05:16				372	9.27922	0.4127571	1.4768	12.21001	9.86569	3.21188
12:05:16				373	9.31926	0.4033023	1.4768	13.13797	10.15873	3.13016
12:05:17				374	9.19424	0.4021812	1.6736	14.01709	9.91453	3.13177
12:05:17				375	8.98362	0.4073086	1.6736	8.84005	10.06105	3.19298
12:05:18				376	8.8668	0.4041036	1.8703	2.83272	10.30525	3.17661
12:05:18				377	8.8668	0.4037839	2.0671	1.41636	10.35409	3.17393
12:05:19				378	8.85693	0.4034627	2.0671	1.4652	10.40293	3.17212
12:05:19				379	8.853	0.4079496	2.1655	1.4652	10.40293	3.21002
12:05:20				380	8.8422	0.4210906	2.0671	1.41636	10.64713	3.32121
12:05:20				381	8.82354	0.4432061	2.3623	1.41636	10.89133	3.50911
12:05:21				382	8.90507	0.4212505	2.559	1.4652	10.74481	3.31668
12:05:21				383	8.86582	0.4143594	2.559	1.4652	9.91453	3.26254
12:05:22				384	8.83827	0.4141986	2.3623	1.4652	10.40293	3.26372
12:05:22				385	8.83336	0.4143594	2.4606	1.41636	10.94017	3.26551
12:05:23				386	8.84122	0.412597	2.4606	1.41636	10.40293	3.25001
12:05:23				387	8.83434	0.4180448	2.3623	1.4652	10.54945	3.29635
12:05:24				388	8.83238	0.4642021	2.4606	1.4652	10.54945	3.68563
12:05:24				389	8.96304	0.4242942	2.559	1.41636	10.45177	3.33678
12:05:25				390	8.9473	0.4234931	2.559	1.4652	9.76801	3.33154
12:05:25				391	8.86189	0.4186867	2.4606	1.4652	9.86569	3.29918
12:05:26				392	8.85594	0.4124363	2.3623	1.4652	10.01221	3.24733
12:05:26				393	8.83631	0.4508993	2.4606	1.36752	10.84249	3.57277
12:05:27				394	8.82452	0.4438465	2.4606	1.4652	10.59829	3.51441
12:05:27				395	8.82256	0.4252562	2.559	1.4652	9.57265	3.35802
12:05:28				396	8.81667	0.4199682	2.4606	1.41636	9.81685	3.31414

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:28				397	8.8117	0.4252562	2.4606	1.41636	10.06105	3.35905
12:05:29				398	8.80875	0.4246149	2.4606	1.41636	10.06105	3.35394
12:05:29				399	8.8206	0.4244546	2.4606	1.4652	10.45177	3.35147
12:05:30				400	8.82551	0.4430456	2.4606	1.4652	10.40293	3.50756
12:05:30				401	8.88839	0.4783085	2.4606	1.41636	10.69597	3.79921
12:05:31				402	8.9748	0.4311855	2.559	1.41636	10.10989	3.39341
12:05:31				403	8.96108	0.4212504	2.559	1.4652	9.52381	3.31148
12:05:32				404	8.87564	0.4175643	2.4606	1.4652	10.15873	3.2885
12:05:32				405	8.8776	0.4329488	2.3623	1.41636	10.54945	3.41748
12:05:33				406	8.95324	0.4452886	2.4606	1.41636	10.79365	3.51388
12:05:33				407	8.96696	0.4279812	2.559	1.4652	9.96337	3.36729
12:05:34				408	8.91886	0.4230126	2.559	1.4652	9.96337	3.33017
12:05:34				409	8.88447	0.4217305	2.4606	1.41636	10.69597	3.32262
12:05:35				410	8.87564	0.412597	2.4606	1.41636	10.35409	3.24688
12:05:35				411	8.85791	0.4130776	2.4606	1.41636	10.54945	3.25252
12:05:36				412	8.853	0.4180448	2.3623	1.41636	10.59829	3.29463
12:05:36				413	8.84809	0.4141985	2.4606	1.41636	10.74481	3.26281
12:05:37				414	8.83533	0.4097133	2.559	1.4652	10.15873	3.22637
12:05:37				415	8.82452	0.4117953	2.4606	1.41636	10.54945	3.24481
12:05:38				416	8.81268	0.4090718	2.3623	1.41636	10.59829	3.22305
12:05:38				417	8.81268	0.410994	2.4606	1.41636	10.89133	3.23917
12:05:39				418	8.8117	0.4100326	2.559	1.4652	10.89133	3.23119
12:05:39				419	8.81366	0.4082702	2.4606	1.4652	10.40293	3.21624
12:05:40				420	8.79991	0.4124364	2.4606	1.41636	10.79365	3.25243
12:05:40				421	8.81071	0.4210906	2.4606	1.41636	10.79365	3.32412
12:05:41				422	8.84318	0.4198083	2.4606	1.4652	10.84249	3.31033
12:05:41				423	8.85104	0.4108334	2.4606	1.4652	10.25641	3.23434
12:05:42				424	8.81765	0.4098721	2.4606	1.41636	10.20757	3.22931
12:05:42				425	8.79794	0.4127578	2.3623	1.41636	10.69597	3.25531
12:05:43				426	8.79008	0.4079497	2.4606	1.41636	10.84249	3.21567
12:05:43				427	8.79598	0.4039438	2.4606	1.41636	10.54945	3.18156
12:05:44				428	8.77338	0.4036242	2.4606	1.4652	10.79365	3.1809
12:05:44				429	8.74776	0.404585	2.4606	1.4652	10.59829	3.19125
12:05:45				430	8.76348	0.4009003	2.4606	1.4652	10.74481	3.15894
12:05:45				431	8.73891	0.4007392	2.4606	1.36752	10.94017	3.15977
12:05:46				432	8.73104	0.4013806	2.4606	1.41636	10.79365	3.16585
12:05:46				433	8.74776	0.4023415	2.4606	1.41636	11.52625	3.17242
12:05:47				434	8.78419	0.400098	2.559	1.4652	10.54945	3.15038
12:05:47				435	8.77632	0.4009002	2.559	1.41636	10.74481	3.15779
12:05:48				436	8.8206	0.400098	2.4606	1.41636	10.40293	3.14716
12:05:48				437	8.82747	0.4025027	2.4606	1.41636	10.94017	3.16668
12:05:49				438	8.81071	0.4025027	2.4606	1.41636	10.89133	3.16817
12:05:49				439	8.81366	0.4029834	2.4606	1.4652	10.64713	3.17194
12:05:50				440	8.84416	0.4037839	2.4606	1.51404	10.40293	3.17592
12:05:50				441	8.85496	0.4057062	2.4606	1.4652	10.35409	3.19105

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:51				442	8.853	0.4033029	2.4606	4.20024	10.98901	3.17111
12:05:51				443	8.85104	0.3997775	2.4606	4.20024	10.98901	3.1418
12:05:52				444	8.81366	0.4007391	2.4606	1.4652	10.74481	3.15314
12:05:52				445	8.82452	0.3952915	2.4606	1.41636	11.47741	3.10662
12:05:53				446	8.76742	0.3956127	2.4606	1.4652	11.08669	3.11429
12:05:53				447	8.75365	0.3965733	2.4606	1.4652	10.64713	3.12354
12:05:54				448	8.78222	0.395131	2.559	1.41636	10.79365	3.10896
12:05:54				449	8.87465	0.3944904	2.4606	1.41636	10.40293	3.09557
12:05:55				450	8.89232	0.3959321	2.4606	1.41636	10.40293	3.10607
12:05:55				451	8.86778	0.4093924	2.4606	23.2967	10.25641	3.22076
12:05:56				452	8.82354	0.4053862	2.4606	3.46764	11.86813	3.19118
12:05:56				453	8.8206	0.4015401	2.4606	3.4188	11.86813	3.15923
12:05:57				454	8.84809	0.3992977	2.4606	1.4652	10.69597	3.13805
12:05:57				455	8.82747	0.4050662	2.3623	1.4652	10.59829	3.18815
12:05:58				456	8.79598	0.412917	2.4606	1.36752	10.59829	3.25682
12:05:58				457	8.78222	0.4045849	2.4606	1.4652	10.40293	3.18816
12:05:59				458	8.78713	0.4031432	2.4606	1.4652	10.40293	3.17564
12:05:59				459	8.79598	0.4060279	2.4606	1.4652	10.64713	3.19903
12:06:00				460	8.80187	0.4121166	2.4606	1.41636	10.64713	3.24957
12:06:00				461	8.84122	0.4060278	2.4606	1.85592	10.94017	3.19497
12:06:01				462	8.83533	0.4053862	2.3623	1.85592	10.89133	3.19013
12:06:01				463	8.84122	0.4065081	2.3623	1.80708	10.89133	3.199
12:06:02				464	8.82354	0.4092321	2.4606	14.74969	10.94017	3.22341
12:06:02				465	8.82354	0.4069885	2.559	2.00244	10.84249	3.2046
12:06:03				466	8.8206	0.4068283	2.559	2.00244	10.84249	3.20352
12:06:03				467	8.8206	0.4061879	2.3623	1.41636	10.50061	3.19817
12:06:04				468	8.8206	0.4117953	2.3623	1.4652	10.45177	3.24517
12:06:04				469	8.83042	0.4151609	2.4606	3.85836	10.50061	3.2725
12:06:05				470	8.84122	0.4097133	2.559	3.80952	10.54945	3.22584
12:06:05				471	8.83729	0.4106745	2.4606	1.41636	10.10989	3.23425
12:06:06				472	8.82551	0.4097133	2.4606	1.4652	10.54945	3.22726
12:06:06				473	8.82551	0.4156422	2.4606	1.41636	10.64713	3.27699
12:06:07				474	8.85005	0.4113151	2.4606	1.4652	10.64713	3.23846
12:06:07				475	8.84515	0.410994	2.3623	3.95604	10.35409	3.23622
12:06:08				476	8.85398	0.4111545	2.4606	3.95604	10.30525	3.23676
12:06:08				477	8.85398	0.4154812	2.4606	1.41636	10.74481	3.27303
12:06:09				478	8.86877	0.4106744	2.4606	1.41636	10.74481	3.2314
12:06:09				479	8.87269	0.4105139	2.4606	2.34432	10.64713	3.2297
12:06:10				480	8.91003	0.4101929	2.4606	3.56532	10.35409	3.22364
12:06:10				481	8.90807	0.4108333	2.4606	7.61905	10.54945	3.22918
12:06:11				482	8.88741	0.4093924	2.4606	2.05128	10.89133	3.21898
12:06:11				483	8.91788	0.4101929	2.4606	2.24664	10.30525	3.22293
12:06:12				484	8.9218	0.4087509	2.4606	5.42125	10.35409	3.21052
12:06:13				487	8.90587	0.4064939	2.4606	6.15385	9.86569	3.19309
12:06:14				488	8.88618	0.4085765	2.4606	4.54212	9.76801	3.21227

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:14				489	8.8695	0.4074548	2.4606	1.4652	9.96337	3.20438
12:06:15				490	8.87146	0.4080957	2.4606	1.41636	9.86569	3.20957
12:06:15				491	8.92548	0.4021675	2.4606	2.73504	10.30525	3.1552
12:06:16				492	8.97063	0.4348575	2.4606	5.17705	10.69597	3.4246
12:06:16				493	8.95691	0.4113008	2.4606	4.54212	10.74481	3.22867
12:06:17				494	8.96574	0.4093781	2.559	3.32112	10.35409	3.21181
12:06:17				495	9.03436	0.4069741	2.4606	5.37241	10.40293	3.18563
12:06:18				496	9.03436	0.4056934	2.4606	7.57021	10.59829	3.17497
12:06:18				497	9.00009	0.4058535	2.4606	10.06105	10.84249	3.17934
12:06:19				498	9.04617	0.408897	2.4606	8.05861	10.54945	3.2006
12:06:19				499	9.05009	0.4066538	2.4606	4.44444	10.45177	3.18157
12:06:20				500	9.0814	0.4122628	2.4606	6.44689	10.20757	3.22547
12:06:20				501	9.11569	0.4064936	2.4606	8.30281	10.06105	3.17441
12:06:21				502	9.11863	0.4071341	2.4606	7.86325	9.81685	3.17948
12:06:21				503	9.11569	0.4085762	2.3623	9.71917	10.15873	3.19173
12:06:22				504	9.08434	0.4556919	2.4606	11.77045	10.59829	3.58826
12:06:22				505	9.0324	0.4092177	2.559	6.10501	10.25641	3.20449
12:06:23				506	9.02555	0.4098593	2.4606	4.6398	10.20757	3.21046
12:06:23				507	9.05498	0.4095384	2.4606	8.54701	10.30525	3.20515
12:06:24				508	9.06575	0.4090573	2.3623	11.03785	10.64713	3.20019
12:06:24				509	9.04323	0.408416	2.4606	9.47497	10.50061	3.19685
12:06:25				510	9.03534	0.4069741	2.4606	8.25397	10.15873	3.18554
12:06:25				511	9.00303	0.4072944	2.4606	4.00488	10.45177	3.19109
12:06:26				512	9.0324	0.4068139	2.4606	5.07937	10.74481	3.18447
12:06:26				513	9.03045	0.4076148	2.4606	5.07937	10.25641	3.19132
12:06:27				514	9.06966	0.4098592	2.4606	5.37241	10.50061	3.20651
12:06:27				515	9.14508	0.4076146	2.4606	5.07937	10.06105	3.18112
12:06:28				516	9.14117	0.4072942	2.4606	5.32357	9.81685	3.17881
12:06:28				517	9.18423	0.3939963	2.4606	7.27717	10.20757	3.06483
12:06:29				518	9.20572	0.4024881	2.4606	7.66789	9.62149	3.13327
12:06:29				519	9.21451	0.4064935	2.4606	7.08181	10.30525	3.16568
12:06:30				520	9.21451	0.4052116	2.4606	6.30037	10.25641	3.15506
12:06:30				521	9.26532	0.4066535	2.4606	6.15385	10.30525	3.16253
12:06:31				522	9.19204	0.4205945	2.4606	7.81441	10.98901	3.28475
12:06:31				523	9.15681	0.4069739	2.559	6.10501	10.25641	3.17476
12:06:32				524	9.16365	0.4114611	2.4606	6.10501	9.37729	3.21142
12:06:32				525	9.17928	0.4329341	2.4606	7.03297	10.20757	3.38866
12:06:33				526	9.16072	0.4372606	2.4606	5.95849	10.45177	3.42652
12:06:33				527	9.1529	0.4262039	2.4606	5.17705	9.96337	3.33505
12:06:34				528	9.15877	0.4766891	2.4606	4.68864	9.96337	3.75698
12:06:34				529	9.14411	0.4250811	2.4606	4.29792	9.81685	3.32651
12:06:35				530	9.14997	0.4266837	2.4606	5.32357	9.37729	3.33932
12:06:35				531	9.16854	0.4827816	2.4606	5.47009	10.06105	3.80718
12:06:36				532	9.19204	0.4614614	2.4606	8.05861	10.40293	3.62579
12:06:36				533	9.20181	0.4338961	2.4606	6.05617	10.30525	3.39455

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:37				534	9.14997	0.4040907	2.4606	4.73748	10.30525	3.15144
12:06:37				535	9.1284	0.4138639	2.4606	5.12821	11.03785	3.23456
12:06:38				536	9.11765	0.4145057	2.4606	5.42125	10.25641	3.24087
12:06:38				537	9.09124	0.4143449	2.4606	5.47009	10.20757	3.24192
12:06:39				538	9.12743	0.41114	2.4606	5.32357	10.15873	3.21199
12:06:39				539	9.15877	0.3983225	2.4606	7.08181	9.71917	3.10284
12:06:40				540	9.21353	0.4004055	2.4606	6.44689	10.15873	3.11535
12:06:40				541	9.16854	0.4077748	2.4606	4.83516	9.86569	3.18037
12:06:41				542	9.2419	0.4074543	2.4606	5.95849	10.10989	3.17123
12:06:41				543	9.3454	0.4106596	2.3623	7.22833	10.10989	3.1886
12:06:42				544	9.28099	0.4254017	2.4606	6.59341	10.50061	3.31651
12:06:42				545	9.25166	0.4167485	2.559	6.98413	10.20757	3.24738
12:06:43				546	9.25947	0.4138637	2.4606	6.73993	10.06105	3.22277
12:06:43				547	9.26044	0.4167485	2.4606	6.05617	10.79365	3.24659
12:06:44				548	9.25751	0.4473573	2.4606	5.61661	10.64713	3.50142
12:06:44				549	9.25849	0.4249206	2.4606	4.78632	9.76801	3.31459
12:06:45				550	9.26434	0.4582559	2.4606	4.44444	9.32845	3.59171
12:06:45				551	9.25947	0.485667	2.4606	5.12821	10.30525	3.82175
12:06:46				552	9.25751	0.4688345	2.4606	6.73993	10.45177	3.68086
12:06:46				553	9.25556	0.4680332	2.4606	6.88645	9.96337	3.67435
12:06:47				554	9.24092	0.4532878	2.4606	7.22833	10.06105	3.55254
12:06:47				555	9.23214	0.4327729	2.4606	7.86325	10.79365	3.38234
12:06:48				556	9.23214	0.4242795	2.4606	7.61905	10.40293	3.3117
12:06:48				557	9.21158	0.4137045	2.4606	5.51893	11.03785	3.22574
12:06:49				558	9.18026	0.4194724	2.4606	5.27473	10.69597	3.2765
12:06:49				559	9.20083	0.418672	2.4606	3.95604	10.15873	3.26797
12:06:50				560	9.18124	0.4254018	2.4606	3.51648	9.86569	3.32574
12:06:50				561	9.16365	0.4217158	2.4606	3.27228	10.06105	3.29668
12:06:51				562	9.14215	0.4279666	2.4606	2.63736	9.96337	3.35074
12:06:51				563	9.13036	0.4996135	2.559	1.56288	10.50061	3.95315
12:06:52				564	9.12938	0.4545703	2.4606	2.83272	9.96337	3.57435
12:06:52				565	9.13134	0.4173901	2.4606	5.22589	9.96337	3.26363
12:06:53				566	9.02947	0.4127433	2.4606	3.85836	9.76801	3.23416
12:06:53				567	8.98827	0.4268444	2.4606	3.56532	10.40293	3.35578
12:06:54				568	9.02065	0.4629042	2.4606	4.24908	10.45177	3.65532
12:06:54				569	9.07749	0.4462351	2.4606	4.29792	10.54945	3.50963
12:06:55				570	9.08831	0.4197937	2.4606	3.61416	10.79365	3.28759
12:06:55				571	9.03834	0.4260436	2.4606	3.663	9.52381	3.34439
12:06:56				572	9.01576	0.4366197	2.4606	3.71184	9.91453	3.43504
12:06:56				573	9.05204	0.4638671	2.4606	4.10256	10.01221	3.66022
12:06:57				574	9.14802	0.4598596	2.4606	4.20024	10.50061	3.61681
12:06:57				575	9.17147	0.4359786	2.4606	1.41636	8.64469	3.41479
12:06:58				576	9.11765	0.4289274	2.4606	1.4652	8.64469	3.36105
12:06:58				577	9.13036	0.5159683	2.4606	1.41636	8.59585	4.09143
12:06:59				578	9.22524	0.4968889	2.4606	8.20513	9.71917	3.91977

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:59				579	9.23702	0.48711	2.4606	1.56288	9.86569	3.83626
12:07:00				580	9.12449	0.4600201	2.4606	1.41636	9.96337	3.62053
12:07:00				581	9.1108	0.4592181	2.4606	1.4652	10.30525	3.61519
12:07:01				582	9.11863	0.4371008	2.4606	1.4652	11.18437	3.42921
12:07:01				583	9.08831	0.4441528	2.3623	1.4652	9.96337	3.49114
12:07:02				584	9.07553	0.4454346	2.4606	1.4652	10.50061	3.50312
12:07:02				585	9.08042	0.4433517	2.4606	2.1978	11.37973	3.48519
12:07:03				586	9.08531	0.4436711	2.4606	1.9536	10.40293	3.48739
12:07:03				587	9.08635	0.4382221	2.4606	1.4652	9.76801	3.44168
12:07:04				588	9.10885	0.4523262	2.4606	1.7094	9.71917	3.55758
12:07:04				589	9.11569	0.4497611	2.4606	1.9536	10.01221	3.53542
12:07:05				590	9.11276	0.490316	2.4606	1.90476	10.15873	3.87662
12:07:05				591	9.11276	0.4580958	2.4606	2.10012	10.15873	3.60557
12:07:06				592	9.11472	0.4451132	2.4606	3.32112	10.10989	3.49659
12:07:06				593	9.11765	0.4447935	2.4606	3.07692	9.96337	3.49363
12:07:07				594	9.12645	0.4375821	2.4606	3.36996	9.91453	3.43248
12:07:07				595	9.13726	0.438382	2.4606	3.76068	10.06105	3.43813
12:07:08				596	9.11765	0.4271653	2.4606	4.59096	9.86569	3.34635
12:07:08				597	9.06379	0.4334144	2.4606	3.4188	10.20757	3.40362
12:07:09				598	9.11472	0.4359786	2.4606	1.85592	10.64713	3.42021
12:07:09				599	9.15877	0.4193126	2.559	3.663	9.81685	3.27712
12:07:10				600	9.10396	0.4220375	2.4606	3.56532	9.76801	3.30486
12:07:10				601	9.02947	0.421236	2.3623	2.39316	10.01221	3.30505
12:07:11				602	9.05694	0.4430308	2.4606	1.41636	10.35409	3.48479
12:07:11				603	9.08434	0.4180302	2.4606	1.41636	10.30525	3.27325
12:07:12				604	9.01478	0.4180303	2.4606	1.41636	10.01221	3.27962
12:07:13				607	8.98239	0.4177206	2.4606	1.4652	10.10989	3.28
12:07:14				608	8.96279	0.4165989	2.4606	1.41636	10.10989	3.27242
12:07:14				609	8.97749	0.4044201	2.4606	1.41636	10.15873	3.1694
12:07:15				610	8.95489	0.4117904	2.4606	1.41636	10.59829	3.23294
12:07:15				611	8.94215	0.4124315	2.4606	1.41636	10.94017	3.23946
12:07:16				612	8.94019	0.4101882	2.4606	1.41636	10.54945	3.22088
12:07:16				613	8.9196	0.4097084	2.4606	1.4652	9.86569	3.21873
12:07:17				614	8.9058	0.4114709	2.4606	1.41636	10.10989	3.23471
12:07:17				615	8.92156	0.4132336	2.4606	1.41636	10.50061	3.24803
12:07:18				616	8.91862	0.4117905	2.4606	1.41636	10.64713	3.23623
12:07:18				617	8.9058	0.4119511	2.4606	1.41636	10.10989	3.23873
12:07:19				618	8.90482	0.4170791	2.4606	1.41636	10.40293	3.28175
12:07:19				619	8.92842	0.4183608	2.4606	1.4652	10.50061	3.29032
12:07:20				620	8.94019	0.4133943	2.4606	1.41636	10.06105	3.24768
12:07:20				621	8.91665	0.4109907	2.4606	1.41636	10.10989	3.22972
12:07:21				622	8.88815	0.4260533	2.4606	1.4652	10.35409	3.35855
12:07:21				623	8.92352	0.4164378	2.4606	1.41636	10.84249	3.27467
12:07:22				624	8.90679	0.4069837	2.559	1.41636	10.30525	3.19709
12:07:22				625	8.86159	0.4164379	2.4606	1.4652	10.25641	3.28035

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:23				626	8.87932	0.4557035	2.559	1.41636	10.30525	3.60899
12:07:23				627	8.94313	0.4327845	2.6574	1.4652	11.77045	3.40982
12:07:24				628	8.95985	0.4526572	2.7558	1.4652	9.86569	3.5752
12:07:24				629	8.96475	0.6484706	2.7558	1.4652	9.81685	5.24849
12:07:25				630	9.21255	0.7025529	2.9526	1.4652	9.57265	5.67943
12:07:25				631	9.53249	0.6357945	3.1493	1.4652	7.76557	5.05796
12:07:26				632	9.5422	0.6422115	3.2477	1.41636	5.76313	5.11125
12:07:26				633	9.4643	0.659381	3.2477	1.41636	6.30037	5.26913
12:07:27				634	9.49451	0.6778365	3.2477	1.4652	7.32601	5.42276
12:07:27				635	9.57135	0.6895518	3.4445	1.41636	6.88645	5.51149
12:07:28				636	9.62577	0.6553704	3.4445	1.4652	6.34921	5.2114
12:07:28				637	9.55483	0.6540857	3.3461	1.4652	6.25153	5.2107
12:07:29				638	9.53443	0.676712	3.3461	1.41636	6.78877	5.40711
12:07:29				639	9.55775	0.7230977	3.3461	1.4652	7.03297	5.8017
12:07:30				640	9.62869	0.6714171	3.4445	1.41636	6.15385	5.34779
12:07:30				641	9.61898	0.6463842	3.4445	1.4652	5.81197	5.13587
12:07:31				642	9.54706	0.6649974	3.3461	1.41636	5.86081	5.30502
12:07:31				643	9.53929	0.7108991	3.3461	1.41636	5.86081	5.69971
12:07:32				644	9.61024	0.6999832	3.4445	1.41636	5.95849	5.59488
12:07:32				645	9.66658	0.674626	3.4445	1.41636	5.86081	5.36954
12:07:33				646	9.60054	0.6982174	3.4445	1.4652	5.76313	5.58126
12:07:33				647	9.61898	0.7031942	3.4445	1.41636	5.90965	5.62105
12:07:34				648	9.65203	0.6794403	3.4445	1.41636	5.86081	5.41279
12:07:34				649	9.61898	0.6982173	3.3461	1.4652	5.71429	5.57841
12:07:35				650	9.63942	0.7129845	3.4445	1.41636	5.86081	5.70178
12:07:35				651	9.6841	0.6869833	3.4445	1.41636	5.95849	5.47236
12:07:36				652	9.66755	0.6887493	3.4445	1.41636	5.61661	5.48996
12:07:36				653	9.65203	0.7059229	3.3461	1.41636	5.95849	5.63928
12:07:37				654	9.68604	0.7094536	3.4445	1.41636	6.00733	5.66418
12:07:37				655	9.70155	0.7006263	3.4445	1.41636	5.76313	5.58625
12:07:38				656	9.68113	0.6942054	3.3461	1.41636	5.66545	5.53452
12:07:38				657	9.67725	0.703675	3.3461	1.41636	5.90965	5.6161
12:07:39				658	9.69476	0.7006263	3.4445	1.41636	6.10501	5.5873
12:07:39				659	9.70155	0.6962917	3.4445	1.41636	5.81197	5.54921
12:07:40				660	9.69379	0.697095	3.4445	1.41636	5.56777	5.55726
12:07:40				661	9.68991	0.7001443	3.3461	1.4652	5.81197	5.58394
12:07:41				662	9.69864	0.7108987	3.3461	1.41636	6.00733	5.67459
12:07:41				663	9.71318	0.7023904	3.4445	1.41636	5.95849	5.59953
12:07:42				664	9.71609	0.7014274	3.4445	1.41636	5.56777	5.59085
12:07:42				665	9.7093	0.7007858	3.4445	1.41636	5.56777	5.58642
12:07:43				666	9.70736	0.7022308	3.3461	1.41636	5.66545	5.59908
12:07:43				667	9.71027	0.70512	3.4445	1.41636	5.81197	5.62332
12:07:44				668	9.71318	0.6998235	3.4445	1.41636	5.76313	5.57759
12:07:44				669	9.71124	0.7003037	3.4445	1.41636	5.66545	5.582
12:07:45				670	9.70639	0.6974153	3.4445	1.41636	5.90965	5.55806

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:45				671	9.70833	0.6990211	3.4445	1.41636	5.86081	5.57148
12:07:46				672	9.7093	0.6985394	3.4445	1.4652	5.81197	5.56722
12:07:46				673	9.71027	0.6983783	3.4445	1.41636	5.66545	5.56569
12:07:47				674	9.71221	0.6978967	3.4445	1.41636	5.66545	5.56128
12:07:47				675	9.71027	0.6978967	3.4445	1.41636	5.56777	5.56158
12:07:48				676	9.70833	0.6975764	3.4445	1.41636	5.76313	5.55914
12:07:48				677	9.70833	0.6998235	3.4445	1.41636	5.56777	5.57834
12:07:49				678	9.70736	0.7009471	3.3461	1.4652	6.05617	5.5881
12:07:49				679	9.70736	0.7041559	3.4445	1.4652	6.00733	5.61553
12:07:50				680	9.7093	0.6996623	3.4445	1.41636	5.90965	5.57681
12:07:50				681	9.70833	0.7006263	3.4445	1.4652	5.66545	5.5852
12:07:51				682	9.70736	0.6996623	3.4445	1.4652	5.90965	5.57711
12:07:51				683	9.70639	0.6993417	3.4445	1.4652	5.90965	5.57452
12:07:52				684	9.70833	0.6985394	3.4445	1.4652	5.76313	5.56737
12:07:52				685	9.70833	0.7012679	3.4445	1.4652	5.71429	5.59069
12:07:53				686	9.71221	0.700465	3.4445	1.41636	6.10501	5.58322
12:07:53				687	9.71124	0.6972542	3.4445	1.4652	5.86081	5.55594
12:07:54				688	9.69961	0.6962917	3.3461	1.4652	5.76313	5.54951
12:07:54				689	9.70349	0.6998236	3.4445	1.41636	5.95849	5.57909
12:07:55				690	9.70833	0.6977356	3.4445	1.4652	5.90965	5.5605
12:07:55				691	9.71221	0.6956497	3.4445	1.4652	5.71429	5.54209
12:07:56				692	9.69767	0.6940445	3.4445	1.4652	5.76313	5.5306
12:07:56				693	9.69573	0.6972542	3.3461	1.4652	5.95849	5.55833
12:07:57				694	9.70736	0.6990211	3.3461	1.41636	5.90965	5.57164
12:07:57				695	9.71124	0.6985394	3.4445	1.4652	5.90965	5.56692
12:07:58				696	9.71221	0.6977356	3.4445	1.4652	5.76313	5.5599
12:07:58				697	9.7093	0.6977356	3.3461	1.4652	5.81197	5.56036
12:07:59				698	9.71124	0.7023904	3.3461	1.4652	5.86081	5.59984
12:07:59				699	9.71318	0.7125032	3.4445	1.4652	5.86081	5.68603
12:08:00				700	9.71996	0.7019098	3.4445	1.41636	5.76313	5.59437
12:08:00				701	9.71802	0.7007857	3.4445	1.41636	5.66545	5.58507
12:08:01				702	9.71706	0.6993417	3.3461	1.41636	5.86081	5.57289
12:08:01				703	9.71706	0.7038364	3.3461	1.41636	5.90965	5.6113
12:08:02				704	9.71996	0.7038364	3.4445	1.41636	5.90965	5.61084
12:08:02				705	9.72093	0.7015888	3.4445	1.4652	5.66545	5.59148
12:08:03				706	9.71609	0.7003037	3.3461	1.41636	5.66545	5.58126
12:08:03				707	9.71609	0.7062425	3.3461	1.41636	5.76313	5.63202
12:08:04				708	9.71899	0.7046388	3.4445	1.4652	5.86081	5.61785
12:08:04				709	9.71802	0.6977356	3.4445	1.41636	5.76313	5.55901
12:08:05				710	9.71124	0.6972542	3.4445	1.4652	5.71429	5.55594
12:08:05				711	9.71027	0.7088113	3.3461	1.4652	5.86081	5.6549
12:08:06				712	9.71609	0.7047985	3.4445	1.41636	6.15385	5.61967
12:08:06				713	9.71609	0.6991805	3.4445	1.4652	5.86081	5.57165
12:08:07				714	9.7093	0.6988599	3.4445	1.4652	5.86081	5.56996
12:08:07				715	9.70639	0.7168364	3.3461	1.41636	6.00733	5.7242

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:08:08				716	9.71318	0.7096136	3.4445	1.4652	5.81197	5.6613
12:08:08				717	9.71415	0.7028729	3.4445	1.4652	5.76313	5.6035
12:08:09				718	9.71027	0.7047986	3.4445	1.41636	5.76313	5.62057
12:08:09				719	9.71027	0.7136259	3.3461	1.4652	5.86081	5.6961
12:08:10				720	9.71609	0.7064042	3.3461	1.4652	5.66545	5.6334
12:08:10				721	9.71802	0.7044772	3.4445	1.41636	5.61661	5.61662
12:08:11				722	9.71996	0.7025518	3.4445	1.4652	5.47009	5.59986
12:08:11				723	9.71802	0.7009471	3.4445	1.41636	5.90965	5.58645
12:08:12				724	9.71512	0.6967729	3.4445	1.41636	5.71429	5.55123
12:08:13				727	9.70761	0.6991805	3.4445	1.41636	5.90965	5.57296
12:08:14				728	9.70858	0.6929209	3.4445	1.41636	6.00733	5.51934
12:08:14				729	9.68137	0.6792787	3.4445	1.41636	5.76313	5.40702
12:08:15				730	9.63766	0.6956499	3.3461	1.41636	6.39805	5.55355
12:08:15				731	9.66003	0.7153912	3.3461	1.4652	6.44689	5.71916
12:08:16				732	9.69204	0.6974153	3.4445	1.41636	5.95849	5.56027
12:08:16				733	9.70179	0.6945252	3.4445	1.4652	5.71429	5.53408
12:08:17				734	9.68137	0.6980561	3.3461	1.4652	6.00733	5.5674
12:08:17				735	9.6901	0.7003037	3.4445	1.4652	6.15385	5.58526
12:08:18				736	9.7047	0.7003037	3.3461	1.4652	6.00733	5.58301
12:08:18				737	9.70276	0.702229	3.4445	1.4652	5.90965	5.59977
12:08:19				738	9.7047	0.6983783	3.4445	1.4652	5.81197	5.56655
12:08:19				739	9.69979	0.6940445	3.4445	1.4652	5.81197	5.53028
12:08:20				740	9.69882	0.694847	3.4445	1.4652	5.95849	5.53728
12:08:20				741	9.70082	0.6943644	3.3461	1.4652	6.00733	5.53286
12:08:21				742	9.70276	0.6966119	3.4445	1.4652	6.15385	5.55176
12:08:21				743	9.70373	0.696934	3.4445	1.41636	5.86081	5.55436
12:08:22				744	9.70082	0.6954888	3.4445	1.41636	5.81197	5.54246
12:08:22				745	9.69882	0.6943644	3.4445	1.41636	6.20269	5.53316
12:08:23				746	9.70373	0.6861801	3.4445	1.41636	6.34921	5.46254
12:08:23				747	9.68525	0.6913159	3.3461	1.4652	6.20269	5.5092
12:08:24				748	9.693	0.7014275	3.3461	1.4652	6.83761	5.59443
12:08:24				749	9.69882	0.6863404	3.4445	1.36752	6.54457	5.46465
12:08:25				750	9.693	0.6873039	3.2477	1.4652	5.76313	5.47377
12:08:25				751	9.6804	0.6505545	3.3461	1.4652	6.20269	5.16258
12:08:26				752	9.66294	0.6908341	3.3461	1.41636	6.88645	5.50848
12:08:26				753	9.64542	0.6839343	3.4445	1.4652	7.13065	5.45217
12:08:27				754	9.66682	0.668527	3.4445	1.4652	6.05617	5.31751
12:08:27				755	9.63572	0.6744648	3.4445	1.41636	5.81197	5.37276
12:08:28				756	9.62505	0.661466	3.3461	1.4652	6.20269	5.26345
12:08:28				757	9.63184	0.6776748	3.4445	1.4652	6.78877	5.40074
12:08:29				758	9.65033	0.6696508	3.4445	1.41636	6.73993	5.32952
12:08:29				759	9.63669	0.6531225	3.4445	1.41636	6.39805	5.19068
12:08:30				760	9.60952	0.6467041	3.3461	1.41636	6.10501	5.13994
12:08:30				761	9.59884	0.6561712	3.3461	1.41636	6.64225	5.22212
12:08:31				762	9.61534	0.6436549	3.3461	1.4652	8.93773	5.11317

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:08:31				763	9.60466	0.6069163	3.4445	1.41636	7.71673	4.80282
12:08:32				764	9.53753	0.574994	3.4445	1.41636	7.42369	4.54157
12:08:32				765	9.35344	0.6160601	3.3461	1.4652	7.32601	4.91446
12:08:33				766	9.32706	0.6203922	3.4445	1.41636	8.59585	4.95509
12:08:33				767	9.40415	0.6099645	3.4445	1.4652	8.05861	4.85558
12:08:34				768	9.42751	0.5759572	3.3461	1.4652	8.05861	4.56363
12:08:34				769	9.36123	0.5318539	3.3461	1.4652	7.86325	4.19893
12:08:35				770	9.29093	0.5950451	3.4445	1.4652	8.93773	4.74355
12:08:35				771	9.36026	0.5842989	3.4445	1.4652	9.67033	4.64301
12:08:36				772	9.36903	0.5589562	3.4445	1.4652	9.71917	4.42696
12:08:36				773	9.32121	0.5164615	3.4445	2.10012	8.93773	4.07382
12:08:37				774	9.19809	0.5143768	3.3461	1.75824	9.32845	4.07021
12:08:37				775	9.2167	0.5972915	3.3461	1.7094	9.47497	4.77258
12:08:38				776	9.288	0.5390707	3.4445	2.442	10.35409	4.2685
12:08:38				777	9.2919	0.5190261	3.4445	3.46764	9.81685	4.09876
12:08:39				778	9.25093	0.4863201	3.3461	2.39316	10.25641	3.82809
12:08:39				779	9.248	0.5988957	3.3461	1.51404	10.15873	4.78212
12:08:40				780	9.28117	0.526723	3.4445	1.41636	9.32845	4.16494
12:08:40				781	9.28507	0.5488531	3.4445	1.4652	8.64469	4.35166
12:08:41				782	9.30854	0.5385898	3.4445	1.4652	8.59585	4.26199
12:08:41				783	9.31439	0.4802284	3.4445	1.41636	8.20513	3.7703
12:08:42				784	9.12181	0.4717334	3.2477	1.4652	8.79121	3.71913
12:08:42				785	8.9748	0.4100293	2.9526	1.4652	9.08425	3.21641
12:08:43				786	8.97676	0.4146763	2.8542	1.4652	9.91453	3.25505
12:08:43				787	8.94926	0.4041019	2.7558	1.4652	10.45177	3.16923
12:08:44				788	8.94043	0.4010564	2.4606	1.41636	10.64713	3.14461
12:08:44				789	8.93945	0.3914444	2.2639	17.1917	10.54945	3.0646
12:08:45				790	9.01502	0.3935262	2.0671	12.94261	11.03785	3.07544
12:08:45				791	9.12767	0.3919247	1.8703	12.01465	11.13553	3.05253
12:08:46				792	9.16683	0.3898417	1.6736	10.45177	10.89133	3.03197
12:08:46				793	9.2001	0.3900017	1.4768	9.57265	10.54945	3.0305
12:08:47				794	9.22744	0.3885591	1.2801	9.76801	10.25641	3.01629
12:08:47				795	9.24208	0.3882394	1.1817	9.37729	11.08669	3.01243
12:08:48				796	9.24599	0.3874373	1.0833	9.91453	10.54945	3.00549
12:08:48				797	9.25483	0.3856747	1.0833	9.47497	11.13553	2.99021
12:08:49				798	9.24599	0.3845534	0.8865	8.30281	11.42857	2.98171
12:08:49				799	9.22549	0.3832721	0.7881	6.83761	11.91697	2.97285
12:08:50				800	9.12767	0.3842331	0.6898	2.53968	9.13309	2.98892
12:08:50				801	9.09925	0.3847146	0.6898	2.53968	9.13309	2.99527
12:08:51				802	9.11301	0.0828822	0.5914	1.41636	3.80952	0.59478
12:08:51				803	9.12376	0.0705748	0.5914	1.4652	3.4188	0.5029
12:08:52				804	9.14331	0.2343529	0.5914	0	0	1.76915
12:08:52				805	9.16292	0.2578819	0.5914	0	0	1.95635
12:08:53				806	9.17953	0.0745706	0.6898	0	0	0.53177
12:08:53	12:08:04 switch off	7.5	270	807	9.19711	0.1732309	0.6898	0	0	1.28454

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:13:09	12:12:00 switch on	7.5	225	7	8.70024	0.3821454	1.1817	0	0	3.00739
12:13:10				8	8.70128	0.3815056	1.1817	0	0	3.00195
12:13:10				9	8.70915	0.3819862	1.2801	0	0	3.0053
12:13:11				10	8.70128	0.382467	1.2801	0	0	3.00999
12:13:11				11	8.69925	0.3829464	1.2801	0	0	3.01417
12:13:12				12	8.70719	0.3827871	1.2801	0	0	3.01217
12:13:12				13	8.70522	0.3835884	1.2801	0	0	3.01904
12:13:13				14	8.69827	0.3837477	1.2801	0	0	3.02096
12:13:13				15	8.69335	0.3839087	1.3784	0	0	3.02272
12:13:14				16	8.69433	0.3843885	1.3784	0	0	3.02666
12:13:14				17	8.69729	0.3843885	1.3784	0	0	3.02641
12:13:15				18	8.69532	0.3845495	1.3784	0	0	3.02792
12:13:15				19	8.6963	0.384709	1.3784	0	0	3.02917
12:13:16				20	8.69433	0.38487	1.3784	0	0	3.03069
12:13:16				21	8.68843	0.3850295	1.3784	0	0	3.03253
12:13:17				22	8.69433	0.3845495	1.3784	0	0	3.028
12:13:17				23	8.69335	0.3850295	1.3784	0	0	3.03211
12:13:18				24	8.68941	0.3851906	1.3784	0	0	3.03379
12:13:18				25	8.68941	0.3851906	1.3784	0	0	3.03379
12:13:19				26	8.69138	0.38487	1.3784	0	0	3.03094
12:13:19				27	8.69335	0.38487	1.3784	0	0	3.03077
12:13:20				28	8.69335	0.38487	1.3784	0	0	3.03077
12:13:20				29	8.68646	0.3855097	1.3784	0	0	3.03672
12:13:21				30	8.68351	0.3851906	1.3784	0	0	3.0343
12:13:21				31	8.68548	0.3832681	1.3784	0	0	3.01803
12:13:22				32	8.68351	0.3839087	1.3784	0	0	3.02356
12:13:22				33	8.68056	0.384709	1.3784	0	0	3.03051
12:13:23				34	8.67957	0.3827871	1.3784	0	0	3.0145
12:13:23				35	8.68252	0.3837478	1.3784	0	0	3.02229
12:13:24				36	8.68154	0.3839087	1.3784	0	0	3.02373
12:13:24				37	8.67957	0.3832681	1.3784	0	0	3.01853
12:13:25				38	8.68154	0.3839087	1.3784	0	0	3.02373
12:13:25				39	8.68154	0.3840681	1.3784	0	0	3.02506
12:13:26				40	8.68252	0.3834275	1.3784	0	0	3.01961
12:13:26				41	8.68449	0.3834275	1.3784	0	0	3.01945
12:13:27				42	8.6776	0.3839087	1.3784	0	0	3.02406
12:13:27				43	8.67662	0.3832682	1.4768	0	0	3.01877
12:13:28				44	8.67859	0.3819863	1.3784	0	0	3.00788
12:13:28				45	8.67465	0.3831073	1.3784	0	0	3.0176
12:13:29				46	8.67268	0.3831073	1.4768	0	0	3.01776
12:13:29				47	8.67465	0.381345	1.3784	0	0	3.00284
12:13:30				48	8.67465	0.3827871	1.3784	0	0	3.01492
12:13:30				49	8.67268	0.3827871	1.3784	0	0	3.01508
12:13:31				50	8.6717	0.3816648	1.3784	0	0	3.00577

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:13:31				51	8.67367	0.3823063	1.3784	0	0	3.01097
12:13:32				52	8.67367	0.3829464	1.3784	0	0	3.01633
12:13:32				53	8.67859	0.3831073	1.3784	0	0	3.01726
12:13:33				54	8.6776	0.3827871	1.3784	0	0	3.01467
12:13:33				55	8.67662	0.3834275	1.3784	0	0	3.02011
12:13:34				56	8.67859	0.3832682	1.3784	0	0	3.01861
12:13:34				57	8.67859	0.3835884	1.4768	0	0	3.02129
12:13:35				58	8.67662	0.3837478	1.4768	0	0	3.02279
12:13:35				59	8.67859	0.3835884	1.3784	0	0	3.02129
12:13:36				60	8.6776	0.3826263	1.3784	0	0	3.01332
12:13:36				61	8.67662	0.3829464	1.3784	0	0	3.01608
12:13:37				62	8.67367	0.3835884	1.3784	0	0	3.02171
12:13:37				63	8.67465	0.3819863	1.3784	0	0	3.00821
12:13:38				64	8.67268	0.3816648	1.3784	0	0	3.00569
12:13:38				65	8.67071	0.3824671	1.3784	0	0	3.01257
12:13:39				66	8.67268	0.3821455	1.4768	0	0	3.00971
12:13:39				67	8.67071	0.3810252	1.3784	0	0	3.0005
12:13:40				68	8.67071	0.3810252	1.3784	0	0	3.0005
12:13:40				69	8.67071	0.3823063	1.3784	0	0	3.01122
12:13:41				70	8.67071	0.3818255	1.4768	0	0	3.00719
12:13:41				71	8.66973	0.3794226	1.3784	0	0	2.98716
12:13:42				72	8.66973	0.3797436	1.3784	0	0	2.98985
12:13:42				73	8.66973	0.3807039	1.4768	0	0	2.99788
12:13:43				74	8.66874	0.3807039	1.4768	0	0	2.99797
12:13:43				75	8.66973	0.3815057	1.3784	0	0	3.0046
12:13:44				76	8.66973	0.3815057	1.3784	0	0	3.0046
12:13:44				77	8.66776	0.3816648	1.3784	0	0	3.0061
12:13:45				78	8.66776	0.3821455	1.3784	0	0	3.01013
12:13:45				79	8.66776	0.3818255	1.4768	0	0	3.00744
12:13:46				80	8.66973	0.3803842	1.3784	0	0	2.99521
12:13:46				81	8.66776	0.3821455	1.3784	0	0	3.01013
12:13:47				82	8.66678	0.3810252	1.3784	0	0	3.00083
12:13:47				83	8.66874	0.3807039	1.3784	0	0	2.99797
12:13:48				84	8.66776	0.3810252	1.4768	0	0	3.00074
12:13:48				85	8.66776	0.3807039	1.4768	0	0	2.99805
12:13:49				86	8.67662	0.3819863	1.3784	0	0	3.00804
12:13:49				87	8.67563	0.3818255	1.4768	0	0	3.00678
12:13:50				88	8.67268	0.3794226	1.3784	0	0	2.98691
12:13:50				89	8.68843	0.3800631	1.3784	0	0	2.99095
12:13:51				90	8.73571	0.3815056	1.4768	0	0	2.99903
12:13:51				91	8.73866	0.3803842	1.4768	0	0	2.98941
12:13:52				92	8.72096	0.3803842	1.3784	0	0	2.9909
12:13:52				93	8.71801	0.380063	1.3784	0	0	2.98847
12:13:53				94	8.74456	0.3807038	1.4768	0	0	2.99159
12:13:53				95	8.73473	0.3813449	1.4768	0	0	2.99777

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:13:54				96	8.74456	0.3821454	1.3784	0.58608	0.2442	3.00364
12:13:54				97	8.74161	0.3832681	1.3784	0.39072	0.09768	3.01327
12:13:55				98	8.73964	0.3843885	1.4768	1.4652	0.9768	3.0228
12:13:55				99	8.73079	0.3832681	1.4768	1.4652	11.52625	3.01418
12:13:56				100	8.73866	0.384068	1.4768	1.41636	10.74481	3.02021
12:13:56				101	8.73669	0.3826262	1.3784	1.41636	11.23321	3.00832
12:13:57				102	8.72981	0.38487	1.3784	1.41636	11.33089	3.02767
12:13:57				103	8.71112	0.3863108	1.3784	1.41636	11.28205	3.04132
12:13:58				104	8.69925	0.3840681	1.3784	1.41636	11.42857	3.02356
12:13:58				105	8.71112	0.3834275	1.4768	1.4652	10.89133	3.01718
12:13:59				106	8.73473	0.3839086	1.3784	1.4652	10.94017	3.01921
12:13:59				107	8.71407	0.3856708	1.3784	1.41636	11.03785	3.03571
12:14:00				108	8.70325	0.3850295	1.4768	1.36752	11.13553	3.03126
12:14:00				109	8.71014	0.3839087	1.4768	1.4652	10.89133	3.02129
12:14:01				110	8.71702	0.3839087	1.3784	1.4652	10.79365	3.02071
12:14:01				111	8.72686	0.3840681	1.3784	1.41636	11.03785	3.02121
12:14:02				112	8.72292	0.3832681	1.4768	1.41636	11.33089	3.01485
12:14:02				113	8.73374	0.3831072	1.4768	1.41636	10.89133	3.01259
12:14:03				114	8.73964	0.3832681	1.4768	1.4652	10.79365	3.01343
12:14:03				115	8.73473	0.3827871	1.3784	1.4652	11.18437	3.00983
12:14:04				116	8.73964	0.3832681	1.3784	1.41636	10.94017	3.01344
12:14:04				117	8.73473	0.384068	1.3784	1.4652	11.42857	3.02054
12:14:05				118	8.72292	0.3827871	1.4768	1.4652	11.57509	3.01083
12:14:05				119	8.72784	0.3851905	1.3784	1.41636	11.08669	3.03052
12:14:06				120	8.73079	0.3866316	1.3784	1.41636	11.42857	3.04232
12:14:06				121	8.71702	0.3867913	1.3784	1.4652	11.33089	3.04484
12:14:07				122	8.70915	0.3853501	1.4768	1.41636	11.23321	3.03344
12:14:07				123	8.70522	0.3858304	1.4768	1.41636	10.98901	3.0378
12:14:08				124	8.7062	0.3863108	1.3784	1.41636	11.18437	3.04174
12:14:09				127	8.70995	0.3871061	1.3784	1.4652	11.23321	3.04808
12:14:10				128	8.70405	0.3853439	1.4768	1.41636	11.23321	3.03382
12:14:10				129	8.70798	0.3855035	1.4768	1.41636	11.23321	3.03482
12:14:11				130	8.71094	0.3848623	1.4768	1.4652	11.08669	3.0292
12:14:11				131	8.707	0.3867851	1.3784	1.41636	10.79365	3.04564
12:14:12				132	8.70503	0.3855035	1.4768	1.4652	10.54945	3.03508
12:14:12				133	8.70405	0.3853439	1.4768	1.41636	10.84249	3.03382
12:14:13				134	8.70602	0.3863046	1.3784	1.41636	11.37973	3.0417
12:14:13				135	8.70208	0.3866254	1.3784	1.41636	11.08669	3.04473
12:14:14				136	8.7011	0.3864642	1.3784	1.4652	11.08669	3.04346
12:14:14				137	8.70208	0.3855035	1.4768	1.4652	11.08669	3.03533
12:14:15				138	8.70405	0.3858242	1.2801	1.4652	10.94017	3.03785
12:14:15				139	8.70208	0.3882276	1.3784	1.4652	11.52625	3.05815
12:14:16				140	8.7011	0.3869448	1.4768	1.41636	11.18437	3.04748
12:14:16				141	8.70503	0.3866254	1.3784	1.41636	10.84249	3.04447
12:14:17				142	8.707	0.3867851	1.3784	1.4652	11.13553	3.04564

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:14:17				143	8.70307	0.3861449	1.4768	1.4652	11.28205	3.04061
12:14:18				144	8.70995	0.3867851	1.3784	1.4652	10.98901	3.04539
12:14:18				145	8.707	0.3875869	1.3784	1.41636	11.28205	3.05236
12:14:19				146	8.70307	0.3866254	1.4768	1.4652	11.18437	3.04464
12:14:19				147	8.70405	0.3866254	1.4768	1.41636	10.98901	3.04455
12:14:20				148	8.70798	0.3864642	1.3784	1.4652	11.42857	3.04287
12:14:20				149	8.707	0.3866254	1.3784	1.41636	11.18437	3.04431
12:14:21				150	8.707	0.3864642	1.3784	1.4652	10.98901	3.04296
12:14:21				151	8.70995	0.3840619	1.3784	1.4652	11.18437	3.02259
12:14:22				152	8.70011	0.385663	1.3784	1.41636	11.42857	3.03684
12:14:22				153	8.69913	0.3853439	1.4768	1.41636	11.13553	3.03424
12:14:23				154	8.73657	0.3859837	1.4768	1.41636	10.89133	3.03641
12:14:23				155	8.75525	0.3861449	1.3784	1.4652	11.13553	3.03617
12:14:24				156	8.7405	0.3859837	1.4768	1.4652	10.98901	3.03607
12:14:24				157	8.75623	0.3858241	1.4768	1.41636	11.03785	3.0334
12:14:25				158	8.75427	0.385663	1.3784	1.4652	10.89133	3.03222
12:14:25				159	8.74444	0.385663	1.3784	1.4652	11.08669	3.03306
12:14:26				160	8.74247	0.3861449	1.3784	1.41636	10.94017	3.03726
12:14:26				161	8.78185	0.3851827	1.3784	1.4652	11.08669	3.02586
12:14:27				162	8.76416	0.3845417	1.4768	1.41636	10.54945	3.022
12:14:27				163	8.73559	0.3864642	1.4768	1.41636	10.79365	3.04051
12:14:28				164	8.76908	0.385663	1.4768	1.41636	10.69597	3.03096
12:14:28				165	8.77596	0.3850232	1.3784	1.4652	11.08669	3.02503
12:14:29				166	8.76318	0.3848622	1.3784	1.41636	11.28205	3.02477
12:14:29				167	8.73755	0.3850233	1.4768	1.41636	11.18437	3.02829
12:14:30				168	8.7523	0.3858241	1.5752	1.41636	10.79365	3.03373
12:14:30				169	8.7848	0.3850232	1.3784	1.41636	11.08669	3.02428
12:14:31				170	8.76809	0.3853438	1.3784	1.41636	10.98901	3.02838
12:14:31				171	8.75722	0.3855034	1.4768	1.41636	10.98901	3.03063
12:14:32				172	8.7789	0.3855034	1.4768	1.4652	11.03785	3.02879
12:14:32				173	8.79168	0.3853438	1.3784	1.41636	11.18437	3.02637
12:14:33				174	8.77989	0.3858241	1.4768	1.41636	10.89133	3.03138
12:14:33				175	8.79364	0.3845416	1.4768	1.41636	10.89133	3.0195
12:14:34				176	8.77399	0.3847027	1.4768	1.4652	11.18437	3.02252
12:14:34				177	8.74837	0.3848622	1.4768	1.4652	11.08669	3.02602
12:14:35				178	8.74739	0.3847027	1.4768	1.4652	11.08669	3.02477
12:14:35				179	8.76017	0.3851828	1.3784	1.41636	10.89133	3.0277
12:14:36				180	8.75034	0.3855034	1.4768	1.41636	11.37973	3.03122
12:14:36				181	8.72969	0.3851828	1.4768	1.4652	11.03785	3.03029
12:14:37				182	8.73657	0.3855034	1.4768	1.4652	10.69597	3.03239
12:14:37				183	8.73854	0.3861449	1.4768	1.4652	10.98901	3.03759
12:14:38				184	8.72772	0.385663	1.4768	1.41636	11.91697	3.03448
12:14:38				185	8.73559	0.3851828	1.4768	1.41636	10.79365	3.02979
12:14:39				186	8.73165	0.3859837	1.3784	1.4652	11.08669	3.03683
12:14:39				187	8.71684	0.385663	1.4768	1.4652	11.62393	3.0354

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:14:40				188	8.71887	0.3855035	1.4768	1.4652	10.98901	3.0339
12:14:40				189	8.71788	0.3853439	1.4768	1.4652	10.84249	3.03264
12:14:41				190	8.71788	0.385663	1.3784	1.41636	10.74481	3.03532
12:14:41				191	8.73264	0.387106	1.4768	1.41636	10.59829	3.04613
12:14:42				192	8.72674	0.3855034	1.4768	1.41636	10.74481	3.03323
12:14:42				193	8.73264	0.385663	1.4768	1.41636	10.89133	3.03406
12:14:43				194	8.7582	0.3851828	1.4768	1.41636	10.94017	3.02787
12:14:43				195	8.75525	0.3872657	1.3784	1.41636	11.57509	3.04554
12:14:44				196	8.74149	0.3858241	1.4768	1.41636	11.42857	3.03465
12:14:44				197	8.74149	0.385663	1.4768	1.41636	10.64713	3.0333
12:14:45				198	8.7582	0.3861449	1.3784	1.41636	10.98901	3.03591
12:14:45				199	8.7523	0.3845417	1.3784	1.4652	10.94017	3.02301
12:14:46				200	8.72379	0.3855034	1.4768	1.41636	10.79365	3.03348
12:14:46				201	8.72182	0.3858241	1.3784	1.4652	11.08669	3.03633
12:14:47				202	8.72575	0.3863045	1.4768	1.4652	11.08669	3.04001
12:14:47				203	8.70798	0.3858242	1.4768	1.4652	10.84249	3.03751
12:14:48				204	8.71094	0.3863046	1.4768	1.4652	10.89133	3.04128
12:14:48				205	8.71192	0.3885473	1.4768	1.4652	11.28205	3.05997
12:14:49				206	8.7011	0.3858242	1.4768	1.4652	11.08669	3.0381
12:14:49				207	8.71192	0.3853439	1.3784	1.4652	10.74481	3.03316
12:14:50				208	8.71887	0.3839009	1.2801	1.4652	11.08669	3.0205
12:14:50				209	8.71487	0.3826201	1.0833	1.4652	11.03785	3.01013
12:14:51				210	8.73067	0.3824592	0.9849	1.4652	10.98901	3.00745
12:14:51				211	8.74444	0.2297023	0.8865	1.4652	10.98901	1.75146
12:14:52				212	8.81237	0.3861448	0.6898	1.41636	12.50305	3.03134
12:14:52				213	8.83299	0.3866253	0.7881	1.41636	12.55189	3.03359
12:14:53				214	8.80445	0.385824	0.8865	10.89133	24.7619	3.02932
12:14:53				215	8.95483	0.3864639	0.6898	11.96581	31.94139	3.02192
12:14:54				216	8.97737	0.0908677	0.6898	11.91697	31.89255	0.65716
12:14:54				217	8.97443	0.262514	0.6898	11.96581	31.94139	2.00403
12:14:55				218	8.96757	0.3665992	0.5914	0	0	2.85606
12:14:55				219	8.95189	0.3839006	0.5914	0	0	3.00087
12:14:56				220	8.95973	0.3835803	0.493	0	0	2.99755
12:14:56				221	8.96659	0.0886302	0.5914	0	0	0.64046
12:14:57				222	8.97051	0.3856627	0.5914	0	0	3.01394
12:14:57				223	8.99409	0.322875	0.5914	0	0	2.49393
12:14:58				224	9.00486	0.2103391	0.5914	0	0	1.58444
12:14:58				225	9.0078	0.0453186	0.5914	0	0	0.31852
12:14:59				226	9.01466	0.3858238	0.5914	0	0	3.01156
12:14:59				227	8.97345	0.3308817	0.5914	0	0	2.56107
12:15:00				228	8.97345	0.1561064	0.5914	0	0	1.15852
12:15:00				229	8.98227	0.1722618	0.5914	0	0	1.28462
12:15:01				230	8.97835	0.2213803	0.5914	0	0	1.67357
12:15:01				231	8.92438	0.0982219	0.5914	0	0	0.71386
12:15:02				232	8.92536	0.0448394	0.5914	0	0	0.31574

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:15:02				233	8.92144	0.0804772	0.493	0	0	0.57985
12:15:03				234	8.89685	0.0481945	0.493	0	0	0.34051
12:15:03				235	8.90672	0.0440406	0.493	0	0	0.31008
12:15:04				236	8.91947	0.0328557	0.5914	0	0	0.22904
12:15:04				237	8.93418	0.028861	0.5914	0	0	0.20035
12:15:05				238	8.95091	0.0256663	0.6898	0	0	0.17753
12:15:05				239	8.96855	0.022791	0.5914	0	0	0.1571
12:15:06				240	8.97639	0.0181576	0.6898	0	0	0.12455
12:15:06				241	8.99311	0.0341339	0.6898	0	0	0.23776
12:15:07	12:14:50 switch off	7.5	225	242	9.00192	0.0310982	0.6898	0	0	0.21595
12:16:33	12:15:33 switch on	5.0	270	7	9.46284	0.3906788	1.1817	0	0	3.01402
12:16:34				8	9.37024	0.3911608	1.2801	0	0	3.02574
12:16:34				9	9.38589	0.3924424	1.2801	0	0	3.03496
12:16:35				10	9.43073	0.3926026	1.2801	0	0	3.0325
12:16:35				11	9.40828	0.3919616	1.2801	0	0	3.02912
12:16:36				12	9.36829	0.3926027	1.1817	0	0	3.03777
12:16:36				13	9.3566	0.3930836	1.2801	0	0	3.04271
12:16:37				14	9.33127	0.3924425	1.2801	0	0	3.03957
12:16:37				15	9.34686	0.3930836	1.2801	0	0	3.04353
12:16:38				16	9.40342	0.3930835	1.1817	0	0	3.03876
12:16:38				17	9.37615	0.3927629	1.1817	0	0	3.03843
12:16:39				18	9.35953	0.392763	1.2801	0	0	3.03982
12:16:39				19	9.35953	0.3929233	1.2801	0	0	3.04114
12:16:40				20	9.36732	0.392763	1.2801	0	0	3.03917
12:16:40				21	9.38102	0.3929232	1.2801	0	0	3.03933
12:16:41				22	9.36245	0.392763	1.2801	0	0	3.03958
12:16:41				23	9.30976	0.3929233	1.2801	0	0	3.04535
12:16:42				24	9.31951	0.392763	1.2801	0	0	3.04321
12:16:42				25	9.37712	0.3900388	1.2801	0	0	3.01593
12:16:43				26	9.22964	0.3924426	1.2801	0	0	3.04817
12:16:43				27	9.18661	0.3913212	1.2801	0	0	3.04256
12:16:44				28	9.25898	0.391161	1.2801	0	0	3.03511
12:16:44				29	9.35076	0.391321	1.1817	0	0	3.0287
12:16:45				30	9.38784	0.3919617	1.2801	0	0	3.03084
12:16:45				31	9.37122	0.3953266	1.2801	0	0	3.05994
12:16:46				32	9.38881	0.3929232	1.2801	0	0	3.03867
12:16:46				33	9.34394	0.3938839	1.2801	0	0	3.05037
12:16:47				34	9.40536	0.393563	1.2801	0	0	3.04254
12:16:47				35	9.39563	0.393563	1.2801	0	0	3.04336
12:16:48				36	9.36927	0.3937234	1.2801	0	0	3.04691
12:16:48				37	9.39563	0.393563	1.2801	0	0	3.04336
12:16:49				38	9.49889	0.3934041	1.2801	0	0	3.03335
12:16:49				39	9.51353	0.3934041	1.2801	0	0	3.03212
12:16:50				40	9.5145	0.3940441	1.2801	0	0	3.03729

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:16:50				41	9.47847	0.3986906	1.2801	0	0	3.07847
12:16:51				42	9.43365	0.3945255	1.2801	0	0	3.04806
12:16:51				43	9.39952	0.3940442	1.2801	0	0	3.04699
12:16:52				44	9.39076	0.4001331	1.2801	0	0	3.09785
12:16:52				45	9.41607	0.401896	1.2801	0	0	3.11018
12:16:53				46	9.38589	0.3977304	1.2801	0	0	3.07848
12:16:53				47	9.34101	0.3985315	1.2801	0	0	3.08892
12:16:54				48	9.33614	0.3998127	1.2801	0	0	3.09991
12:16:54				49	9.38978	0.4049416	1.2801	0	0	3.13756
12:16:55				50	9.41802	0.4065434	1.2801	0	0	3.14829
12:16:55				51	9.41705	0.4023766	1.2801	0	0	3.11406
12:16:56				52	9.4356	0.4049415	1.2801	0	0	3.13357
12:16:56				53	9.49208	0.4092673	1.2801	0	0	3.16424
12:16:57				54	9.49014	0.4084657	1.2801	0	0	3.15782
12:16:57				55	9.49208	0.4081451	1.2801	0	0	3.15501
12:16:58				56	9.495	0.4094277	1.2801	0	0	3.1653
12:16:58				57	9.51936	0.4087862	1.2801	0	0	3.15789
12:16:59				58	9.52228	0.4084656	1.2801	0	0	3.155
12:16:59				59	9.51645	0.4097485	1.2801	0	0	3.16606
12:17:00				60	9.41413	0.4083055	1.2801	0	0	3.16316
12:17:00				61	9.33711	0.4083056	1.2801	0	0	3.16993
12:17:01				62	9.42003	0.4062232	1.2801	0	0	3.14548
12:17:01				63	9.39368	0.4052615	1.2801	0	0	3.13985
12:17:02				64	9.2541	0.4067037	1.2801	0	0	3.164
12:17:02				65	9.20328	0.4060634	1.3784	0	0	3.16316
12:17:03				66	9.24141	0.4018963	1.2801	0	0	3.12532
12:17:03				67	9.15241	0.3877957	1.1817	0	0	3.01629
12:17:04				68	8.87974	0.3918021	1.2801	0	0	3.07276
12:17:04				69	8.88766	0.3958074	1.3784	0	0	3.10549
12:17:05				70	8.82373	0.3914818	1.2801	0	0	3.07491
12:17:05				71	8.83158	0.3898794	1.2801	0	0	3.06085
12:17:06				72	8.81783	0.3921226	1.2801	0	0	3.08077
12:17:06				73	8.84637	0.395968	1.2801	0	0	3.11043
12:17:07				74	8.9348	0.392443	1.2801	0	0	3.07336
12:17:07				75	8.9642	0.3879558	1.1817	0	0	3.03351
12:17:08				76	8.8198	0.3887583	1.2801	0	0	3.0525
12:17:08				77	8.77159	0.3916421	1.2801	0	0	3.08075
12:17:09				78	8.81194	0.3914818	1.2801	0	0	3.07592
12:17:09				79	8.86012	0.3964484	1.2801	0	0	3.11324
12:17:10				80	9.16805	0.3922824	1.2801	0	0	3.05208
12:17:10				81	9.21011	0.3935633	1.2801	0	0	3.0591
12:17:11				82	9.21206	0.3983708	1.1817	0	0	3.0987
12:17:11				83	9.17684	0.3954874	1.2801	0	0	3.07786
12:17:12				84	9.21792	0.3948452	1.2801	0	0	3.06903
12:17:12				85	9.21109	0.3988519	1.2801	0	0	3.10276

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:17:13				86	9.1788	0.3868341	1.1817	0	0	3.00613
12:17:13				87	8.8906	0.3879558	1.2801	0	0	3.03976
12:17:14				88	8.7824	0.3942054	1.3784	0	0	3.10125
12:17:14				89	8.78044	0.389558	1.2801	0	0	3.06255
12:17:15				90	8.78044	0.3897195	1.2801	0	0	3.0639
12:17:15				91	8.73516	0.3892381	1.2801	0	0	3.06377
12:17:16				92	8.72926	0.3913218	1.2801	0	0	3.08173
12:17:16				93	8.73221	0.3903596	1.2801	0	0	3.07341
12:17:17				94	8.73909	0.3887584	1.2801	0	0	3.05942
12:17:17				95	8.72335	0.3897196	1.2801	0	0	3.06882
12:17:18				96	8.72139	0.3897196	1.2801	0.58608	0.2442	3.06899
12:17:18				97	8.71942	0.3887584	1.2801	0.34188	0.09768	3.06111
12:17:19				98	8.7204	0.3945264	1.2801	1.41636	0.92796	3.10935
12:17:19				99	8.71942	0.3903597	1.2801	1.41636	10.79365	3.07452
12:17:20				100	8.7204	0.3905197	1.2801	1.41636	10.94017	3.07577
12:17:20				101	8.71844	0.3905197	1.2801	1.41636	10.98901	3.07594
12:17:21				102	8.7204	0.3897196	1.2801	1.4652	11.28205	3.06907
12:17:21				103	8.72237	0.3901996	1.2801	1.4652	11.23321	3.07292
12:17:22				104	8.72139	0.3901996	1.2801	1.41636	11.23321	3.07301
12:17:22				105	8.72335	0.3901996	1.2801	1.41636	11.18437	3.07284
12:17:23				106	8.72237	0.3919625	1.2801	1.41636	10.89133	3.08769
12:17:23				107	8.71647	0.3900396	1.2801	1.41636	11.33089	3.07209
12:17:24				108	8.71844	0.3884371	1.2801	1.4652	11.18437	3.0585
12:17:24				109	8.71745	0.3898796	1.2801	1.41636	11.23321	3.07067
12:17:25				110	8.71745	0.388597	1.2801	1.41636	11.37973	3.05992
12:17:25				111	8.71247	0.388597	1.2801	1.41636	11.42857	3.06035
12:17:26				112	8.71247	0.3882773	1.2801	1.4652	10.84249	3.05768
12:17:26				113	8.71549	0.3881174	1.2801	1.41636	11.13553	3.05608
12:17:27				114	8.71247	0.3882773	1.2801	1.41636	11.28205	3.05768
12:17:27				115	8.71051	0.3869944	1.2801	1.41636	11.03785	3.0471
12:17:28				116	8.70952	0.3873154	1.2801	1.41636	10.84249	3.04987
12:17:28				117	8.71051	0.3906798	1.2801	1.41636	11.03785	3.07797
12:17:29				118	8.70755	0.3876365	1.2801	1.4652	10.98901	3.05273
12:17:29				119	8.71051	0.3874752	1.2801	1.4652	11.08669	3.05113
12:17:30				120	8.70854	0.3868347	1.2801	1.41636	10.98901	3.04593
12:17:30				121	8.70657	0.3893981	1.2801	1.4652	10.94017	3.06757
12:17:31				122	8.70854	0.3873154	1.2801	1.4652	10.89133	3.04996
12:17:31				123	8.70755	0.3874752	1.2801	1.41636	10.98901	3.05138
12:17:32				124	8.70755	0.3861945	1.2801	1.41636	11.37973	3.04066
12:17:33				127	8.70546	0.3860039	1.2801	1.4652	11.37973	3.03924
12:17:34				128	8.70645	0.386965	1.2801	1.41636	11.08669	3.0472
12:17:34				129	8.70842	0.3856832	1.2801	1.41636	11.08669	3.0363
12:17:35				130	8.70842	0.3856832	1.3784	1.41636	10.84249	3.0363
12:17:35				131	8.70842	0.3853625	1.2801	1.41636	11.03785	3.03362
12:17:36				132	8.70842	0.3850419	1.2801	1.4652	11.18437	3.03093

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:17:36				133	8.7153	0.385522	1.2801	1.41636	11.08669	3.03437
12:17:37				134	8.71432	0.3856832	1.2801	1.41636	10.50061	3.0358
12:17:37				135	8.7094	0.3856832	1.3784	1.41636	10.84249	3.03621
12:17:38				136	8.71038	0.385522	1.2801	1.4652	11.03785	3.03478
12:17:38				137	8.70842	0.3860039	1.2801	1.41636	11.03785	3.03899
12:17:39				138	8.71038	0.387286	1.2801	1.4652	11.57509	3.04955
12:17:39				139	8.7094	0.3856832	1.3784	1.41636	11.03785	3.03621
12:17:40				140	8.71137	0.3860039	1.3784	1.41636	10.98901	3.03873
12:17:40				141	8.71235	0.3858427	1.2801	1.4652	11.03785	3.0373
12:17:41				142	8.71235	0.385522	1.2801	1.4652	11.52625	3.03462
12:17:41				143	8.71137	0.386644	1.2801	1.41636	11.47741	3.04409
12:17:42				144	8.71038	0.3858428	1.3784	1.4652	11.42857	3.03746
12:17:42				145	8.71432	0.385203	1.2801	1.41636	10.98901	3.03178
12:17:43				146	8.71432	0.3853625	1.2801	1.41636	11.13553	3.03311
12:17:43				147	8.7153	0.3850419	1.2801	1.41636	11.96581	3.03035
12:17:44				148	8.71733	0.3850419	1.3784	1.4652	10.94017	3.03017
12:17:44				149	8.7193	0.385522	1.2801	1.41636	10.89133	3.03402
12:17:45				150	8.72028	0.3946557	1.2801	1.4652	11.03785	3.11045
12:17:45				151	8.73995	0.3911306	1.3784	1.41636	11.23321	3.0792
12:17:46				152	8.73307	0.3906502	1.3784	1.41636	10.06105	3.07577
12:17:46				153	8.75667	0.3900085	1.2801	1.41636	10.98901	3.06837
12:17:47				154	8.798	0.4066729	1.2801	1.41636	11.03785	3.20431
12:17:47				155	8.93853	0.3943345	1.2801	1.4652	11.33089	3.0888
12:17:48				156	8.89041	0.3970583	1.2801	1.41636	10.35409	3.11569
12:17:48				157	8.83539	0.3860037	1.2801	1.4652	11.08669	3.02818
12:17:49				158	8.85999	0.3868051	1.2801	1.4652	11.33089	3.03277
12:17:49				159	8.81771	0.3888871	1.2801	1.41636	11.91697	3.05375
12:17:50				160	8.82557	0.389047	1.2801	1.41636	10.94017	3.05441
12:17:50				161	8.82753	0.3877651	1.2801	1.41636	11.37973	3.04354
12:17:51				162	8.81182	0.3880863	1.2801	1.41636	11.33089	3.04757
12:17:51				163	8.80488	0.3880863	1.2801	1.41636	11.13553	3.04816
12:17:52				164	8.79014	0.389207	1.2801	1.4652	11.72161	3.05879
12:17:52				165	8.77639	0.3880863	1.2801	1.41636	11.67277	3.0506
12:17:53				166	8.77737	0.3874456	1.3784	1.4652	10.69597	3.04515
12:17:53				167	8.76459	0.3861635	1.2801	1.4652	11.33089	3.03553
12:17:54				168	8.74683	0.3874457	1.2801	1.41636	11.52625	3.04777
12:17:54				169	8.74093	0.3871246	1.2801	1.41636	11.52625	3.04559
12:17:55				170	8.73995	0.3871246	1.2801	1.4652	10.74481	3.04567
12:17:55				171	8.737	0.3869649	1.2801	1.4652	11.42857	3.04459
12:17:56				172	8.73798	0.3872859	1.2801	1.41636	12.11233	3.04719
12:17:56				173	8.737	0.3868052	1.2801	1.41636	11.37973	3.04325
12:17:57				174	8.73798	0.3861635	1.2801	1.4652	10.98901	3.0378
12:17:57				175	8.73602	0.3864843	1.3784	1.4652	11.18437	3.04065
12:17:58				176	8.73798	0.3863231	1.2801	1.41636	10.69597	3.03913
12:17:58				177	8.73208	0.386644	1.2801	1.4652	11.52625	3.04232

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:17:59				178	8.72618	0.3856831	1.2801	1.4652	11.37973	3.03479
12:17:59				179	8.72815	0.3858427	1.2801	1.4652	11.28205	3.03595
12:18:00				180	8.72618	0.3877652	1.2801	1.4652	10.79365	3.05221
12:18:00				181	8.71733	0.3876055	1.1817	1.4652	11.13553	3.05164
12:18:01				182	8.71733	0.3872859	1.2801	1.41636	10.79365	3.04896
12:18:01				183	8.7193	0.3869649	1.2801	1.41636	11.37973	3.0461
12:18:02				184	8.71831	0.3876055	1.2801	1.4652	10.98901	3.05155
12:18:02				185	8.7193	0.3869649	1.2801	1.41636	11.08669	3.0461
12:18:03				186	8.71733	0.3868053	1.2801	1.41636	10.84249	3.04493
12:18:03				187	8.71831	0.3871247	1.3784	1.36752	10.89133	3.04752
12:18:04				188	8.7193	0.3872859	1.2801	1.41636	11.23321	3.04879
12:18:04				189	8.71831	0.3872859	1.2801	1.41636	11.37973	3.04887
12:18:05				190	8.71831	0.3871247	1.2801	1.41636	11.77045	3.04752
12:18:05				191	8.7153	0.3885675	1.2801	1.4652	11.62393	3.05986
12:18:06				192	8.7035	0.3874457	1.2801	1.4652	11.52625	3.05148
12:18:06				193	8.70448	0.387286	1.3784	1.4652	10.64713	3.05005
12:18:07				194	8.70842	0.3858428	1.2801	1.41636	11.08669	3.03764
12:18:07				195	8.70448	0.3839211	1.1817	1.4652	10.94017	3.02189
12:18:08				196	8.68972	0.3848824	1.2801	1.4652	11.52625	3.03119
12:18:08				197	8.68874	0.3848824	1.4768	1.41636	11.23321	3.03126
12:18:09				198	8.69169	0.3840805	1.2801	1.41636	10.94017	3.02431
12:18:09				199	8.69169	0.3840805	1.1817	1.41636	10.74481	3.02431
12:18:10				200	8.68874	0.3847214	1.2801	1.4652	11.33089	3.02992
12:18:10				201	8.68972	0.3847214	1.3784	1.4652	11.03785	3.02984
12:18:11				202	8.68972	0.3848824	1.3784	1.4652	11.03785	3.03118
12:18:11				203	8.69169	0.3853625	1.2801	1.4652	11.33089	3.03504
12:18:12				204	8.6907	0.3853625	1.2801	1.4652	11.67277	3.03513
12:18:12				205	8.6907	0.3853625	1.2801	1.4652	11.77045	3.03513
12:18:13				206	8.69464	0.3853625	1.2801	1.4652	10.89133	3.03479
12:18:13				207	8.69366	0.3853625	1.2801	1.4652	10.89133	3.03487
12:18:14				208	8.69169	0.385203	1.2801	1.4652	11.03785	3.03371
12:18:14				209	8.69267	0.3844009	1.2801	1.4652	10.50061	3.02691
12:18:15				210	8.69366	0.3842414	1.2801	1.4652	10.69597	3.02549
12:18:15				211	8.69169	0.3832805	1.2801	1.4652	11.67277	3.01761
12:18:16				212	8.68972	0.3842415	1.2801	1.4652	10.64713	3.02582
12:18:16				213	8.68972	0.3824794	1.2801	1.4652	10.84249	3.01107
12:18:17				214	8.68874	0.3839211	1.2801	1.4652	10.74481	3.02322
12:18:17				215	8.68972	0.3831196	1.2801	1.4652	10.64713	3.01643
12:18:18				216	8.68972	0.3840805	1.2801	1.4652	10.79365	3.02447
12:18:18				217	8.68382	0.3832805	1.2801	1.4652	11.18437	3.01828
12:18:19				218	8.68086	0.3832805	1.2801	1.4652	11.42857	3.01853
12:18:19				219	8.68283	0.3824794	1.2801	1.41636	11.03785	3.01165
12:18:20				220	8.68283	0.3827995	1.2801	1.4652	10.94017	3.01433
12:18:20				221	8.68382	0.3826387	1.2801	1.41636	10.98901	3.0129
12:18:21				222	8.6848	0.3826387	1.2801	1.41636	10.79365	3.01282

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:18:21				223	8.68382	0.3819986	1.2801	1.41636	10.74481	3.00754
12:18:22				224	8.68283	0.3824794	1.2801	1.4652	11.47741	3.01165
12:18:22				225	8.68283	0.3823186	1.2801	1.41636	10.54945	3.01031
12:18:23				226	8.68283	0.3823186	1.2801	1.4652	11.86813	3.01031
12:18:23				227	8.68086	0.3826387	1.2801	1.4652	11.52625	3.01315
12:18:24				228	8.68382	0.3827995	1.2801	1.4652	11.18437	3.01425
12:18:24				229	8.6848	0.3866441	1.2801	1.4652	11.33089	3.04637
12:18:25				230	8.6848	0.3836008	1.2801	1.41636	11.67277	3.02087
12:18:25				231	8.68382	0.3842415	1.2801	1.41636	11.03785	3.02632
12:18:26				232	8.6848	0.3827995	1.1817	1.41636	11.13553	3.01417
12:18:26				233	8.68382	0.3896886	1.2801	1.41636	10.94017	3.07197
12:18:27				234	8.68677	0.3840805	1.2801	1.4652	11.47741	3.02472
12:18:27				235	8.68677	0.3848824	1.2801	1.41636	11.52625	3.03144
12:18:28				236	8.68972	0.386965	1.2801	1.4652	11.28205	3.04863
12:18:28				237	8.69562	0.3850419	1.2801	1.4652	11.96581	3.03202
12:18:29				238	8.69366	0.3844009	1.2801	1.41636	11.28205	3.02682
12:18:29				239	8.69169	0.386965	1.2801	1.41636	11.47741	3.04847
12:18:30				240	8.69464	0.385203	1.2801	1.41636	11.86813	3.03345
12:18:30				241	8.69464	0.3855221	1.2801	1.41636	11.57509	3.03613
12:18:31				242	8.69366	0.3856832	1.1817	1.4652	11.62393	3.03756
12:18:31				243	8.69562	0.3880864	1.2801	1.4652	11.96581	3.05752
12:18:32				244	8.69956	0.3868053	1.2801	1.41636	12.01465	3.04645
12:18:33				247	8.70048	0.3916048	1.2801	1.4652	11.72161	3.08659
12:18:34				248	8.70048	0.3884014	1.2801	1.41636	14.60317	3.05975
12:18:34				249	8.6995	0.3906441	1.2801	1.41636	15.82418	3.07862
12:18:35				250	8.6995	0.3882416	1.2801	1.41636	13.13797	3.05849
12:18:35				251	8.7054	0.3867991	1.2801	1.4652	16.89866	3.0459
12:18:36				252	8.7054	0.3879204	1.2801	1.41636	13.52869	3.05529
12:18:36				253	8.70147	0.3879204	1.2801	1.41636	13.43101	3.05563
12:18:37				254	8.6995	0.3925662	1.2801	1.41636	11.33089	3.09474
12:18:37				255	8.7054	0.3898439	1.2801	1.4652	11.57509	3.07141
12:18:38				256	8.70639	0.3890425	1.2801	1.4652	11.33089	3.06461
12:18:38				257	8.70442	0.3887212	1.2801	1.41636	11.33089	3.06209
12:18:39				258	8.70442	0.3925662	1.2801	1.41636	11.28205	3.09431
12:18:39				259	8.70639	0.3896823	1.2801	1.4652	12.25885	3.06997
12:18:40				260	8.70934	0.3898439	1.3784	1.4652	10.59829	3.07106
12:18:40				261	8.70442	0.3895224	1.2801	1.41636	11.28205	3.0688
12:18:41				262	8.70442	0.3898439	1.2801	1.41636	11.57509	3.07149
12:18:41				263	8.70737	0.3895224	1.2801	1.41636	11.67277	3.06854
12:18:42				264	8.71032	0.3890425	1.2801	1.4652	10.79365	3.06427
12:18:42				265	8.7054	0.3895224	1.3784	1.41636	11.81929	3.06871
12:18:43				266	8.70639	0.3880802	1.2801	1.41636	11.62393	3.05655
12:18:43				267	8.70934	0.3887212	1.2801	1.4652	12.30769	3.06166
12:18:44				268	8.70737	0.3887212	1.2801	1.41636	10.89133	3.06183
12:18:44				269	8.70639	0.3880802	1.2801	1.4652	11.23321	3.05655

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:18:45				270	8.70639	0.3909643	1.2801	1.4652	11.13553	3.08071
12:18:45				271	8.70737	0.3896823	1.2801	1.41636	11.23321	3.06988
12:18:46				272	8.70934	0.3892024	1.2801	1.41636	11.13553	3.06569
12:18:46				273	8.70639	0.3884014	1.2801	1.4652	10.84249	3.05924
12:18:47				274	8.70639	0.3879204	1.2801	1.41636	11.47741	3.05521
12:18:47				275	8.70835	0.3874395	1.2801	1.4652	11.47741	3.05101
12:18:48				276	8.70835	0.3877606	1.2801	1.4652	11.18437	3.0537
12:18:48				277	8.70835	0.3874395	1.3784	1.41636	10.79365	3.05101
12:18:49				278	8.70737	0.3876008	1.2801	1.4652	11.57509	3.05245
12:18:49				279	8.70934	0.3866394	1.2801	1.4652	11.37973	3.04423
12:18:50				280	8.70934	0.3831134	1.1817	1.41636	11.33089	3.01472
12:18:50				281	8.7054	0.3861589	1.2801	1.41636	12.45421	3.04054
12:18:51				282	8.70737	0.3855174	1.2801	1.4652	12.45421	3.035
12:18:51				283	8.70737	0.3842352	1.2801	1.41636	11.67277	3.02427
12:18:52				284	8.70442	0.3845557	1.2801	1.4652	11.72161	3.0272
12:18:52				285	8.70343	0.3843962	1.2801	1.4652	11.23321	3.02595
12:18:53				286	8.70343	0.3843962	1.2801	1.41636	11.62393	3.02595
12:18:53				287	8.70442	0.3829541	1.2801	1.4652	11.52625	3.0138
12:18:54				288	8.6995	0.3823124	1.2801	1.41636	12.16117	3.00884
12:18:54				289	8.69753	0.3827933	1.2801	1.41636	12.25885	3.01304
12:18:55				290	8.6995	0.3837555	1.2801	1.41636	11.91697	3.02092
12:18:55				291	8.6995	0.382634	1.2801	1.41636	10.94017	3.01154
12:18:56				292	8.69753	0.3816725	1.2801	1.4652	11.37973	3.00366
12:18:56				293	8.69753	0.3824732	1.2801	1.4652	10.69597	3.01036
12:18:57				294	8.69458	0.3818332	1.2801	1.4652	11.37973	3.00525
12:18:57				295	8.69163	0.382634	1.3784	1.4652	10.20757	3.0122
12:18:58				296	8.69458	0.3823124	1.2801	1.41636	10.79365	3.00926
12:18:58				297	8.69458	0.3824732	1.2801	1.41636	10.84249	3.01061
12:18:59				298	8.69458	0.3816725	1.2801	1.41636	10.89133	3.00391
12:18:59				299	8.69458	0.3824732	1.2801	1.4652	11.86813	3.01061
12:19:00				300	8.6936	0.382634	1.2801	1.4652	10.94017	3.01204
12:19:00				301	8.69556	0.3827933	1.2801	1.41636	10.64713	3.0132
12:19:01				302	8.69655	0.3831134	1.2801	1.4652	11.13553	3.0158
12:19:01				303	8.69163	0.3827933	1.2801	1.41636	11.52625	3.01354
12:19:02				304	8.69261	0.3829541	1.2801	1.41636	11.62393	3.0148
12:19:02				305	8.69064	0.3827933	1.2801	1.41636	11.37973	3.01362
12:19:03				306	8.69458	0.3827933	1.2801	1.4652	11.08669	3.01329
12:19:03				307	8.69261	0.38712	1.2801	1.4652	11.81929	3.04969
12:19:04				308	8.69261	0.3835946	1.2801	1.4652	11.47741	3.02016
12:19:04				309	8.6936	0.3840758	1.2801	1.41636	10.84249	3.02411
12:19:05				310	8.69261	0.3829541	1.2801	1.41636	12.11233	3.0148
12:19:05				311	8.69163	0.3843962	1.2801	1.4652	11.42857	3.02696
12:19:06				312	8.69458	0.3834352	1.3784	1.41636	10.98901	3.01865
12:19:06				313	8.6936	0.3834352	1.2801	1.4652	11.23321	3.01874
12:19:07				314	8.6936	0.3829541	1.1817	1.41636	11.57509	3.01472

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:19:07				315	8.6936	0.3829541	1.2801	1.4652	11.86813	3.01472
12:19:08				316	8.69261	0.3831134	1.2801	1.41636	12.50305	3.01613
12:19:08				317	8.69261	0.3834352	1.2801	1.4652	11.52625	3.01883
12:19:09				318	8.6936	0.3837555	1.2801	1.41636	13.08913	3.02142
12:19:09				319	8.6936	0.3834352	1.2801	1.4652	12.11233	3.01874
12:19:10				320	8.6936	0.3835946	1.2801	1.41636	11.28205	3.02008
12:19:10				321	8.6936	0.3832743	1.2801	1.4652	12.50305	3.0174
12:19:11				322	8.6936	0.3834352	1.2801	1.41636	10.94017	3.01874
12:19:11				323	8.69556	0.3834352	1.2801	1.41636	11.67277	3.01858
12:19:12				324	8.69458	0.3835946	1.2801	1.41636	11.33089	3.01999
12:19:12				325	8.69655	0.3835946	1.2801	1.4652	11.42857	3.01983
12:19:13				326	8.69655	0.3835946	1.2801	1.41636	11.33089	3.01983
12:19:13				327	8.69852	0.3835946	1.2801	1.4652	12.06349	3.01966
12:19:14				328	8.70048	0.3843962	1.2801	1.36752	11.23321	3.0262
12:19:14				329	8.70737	0.3845557	1.2801	1.4652	11.77045	3.02695
12:19:15				330	8.71426	0.3874395	1.2801	1.41636	11.23321	3.05051
12:19:15				331	8.73301	0.39529	1.2801	1.4652	10.69597	3.11465
12:19:16				332	8.94926	0.3880799	1.2801	1.4652	11.62393	3.03581
12:19:16				333	9.00523	0.389522	1.3784	1.4652	10.79365	3.04304
12:19:17				334	9.01894	0.4026605	1.2801	1.41636	10.69597	3.15113
12:19:17				335	9.17269	0.3843956	1.1817	1.4652	10.98901	2.98649
12:19:18				336	9.27044	0.3936878	1.2801	1.4652	11.28205	3.05499
12:19:18				337	9.28312	0.393367	1.3784	1.4652	10.59829	3.05126
12:19:19				338	9.32024	0.3997768	1.2801	1.4652	11.57509	3.10098
12:19:19				339	9.37	0.389843	1.2801	1.4652	11.86813	3.01492
12:19:20				340	9.35636	0.3960906	1.2801	1.41636	11.13553	3.06749
12:19:20				341	9.32414	0.3949697	1.2801	1.41636	10.69597	3.061
12:19:21				342	9.26264	0.3975323	1.2801	1.4652	11.03785	3.08741
12:19:21				343	9.26849	0.4028199	1.2801	1.41636	11.33089	3.1306
12:19:22				344	9.50254	0.4033005	1.2801	1.4652	11.28205	3.11427
12:19:22				345	9.51031	0.3986547	1.3784	1.41636	10.89133	3.07545
12:19:23				346	9.38558	0.4042627	1.2801	1.4652	10.01221	3.13232
12:19:23				347	9.45676	0.3930461	1.1817	1.4652	10.35409	3.03396
12:19:24				348	9.47719	0.3941687	1.2801	1.41636	10.35409	3.04145
12:19:24				349	9.32804	0.3972123	1.3784	1.4652	10.50061	3.07915
12:19:25				350	9.4899	0.3973728	1.2801	1.41636	10.20757	3.06668
12:19:25				351	9.46941	0.4010573	1.2801	1.4652	10.30525	3.09869
12:19:26				352	9.44703	0.4065057	1.2801	1.41636	10.06105	3.14545
12:19:26				353	9.45774	0.4020196	1.2801	1.4652	10.35409	3.10761
12:19:27				354	9.47427	0.4049038	1.3784	1.4652	10.64713	3.12989
12:19:27				355	9.55605	0.4053836	1.2801	1.41636	10.89133	3.12675
12:19:28				356	9.65809	0.417402	1.2801	1.4652	10.69597	3.21641
12:19:28				357	9.72408	0.4188436	1.2801	1.41636	10.40293	3.22235
12:19:29				358	9.70858	0.4119532	1.2801	1.4652	10.20757	3.16732
12:19:29				359	9.70276	0.4119532	1.2801	1.4652	10.15873	3.16783

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:19:30				360	9.67458	0.4157989	1.2801	1.41636	9.86569	3.2018
12:19:30				361	9.65324	0.4140366	1.2801	1.4652	10.15873	3.18924
12:19:31				362	9.64742	0.4140366	1.2801	1.4652	10.59829	3.18975
12:19:31				363	9.65227	0.4156395	1.2801	1.4652	10.69597	3.20247
12:19:32				364	9.66585	0.4146769	1.2801	1.4652	10.06105	3.19338
12:19:33				367	9.65621	0.4207838	1.2801	1.41636	11.72161	3.24432
12:19:34				368	9.66979	0.4180594	1.2801	1.4652	10.25641	3.22076
12:19:34				369	9.67755	0.4195017	1.2801	1.4652	9.67033	3.23189
12:19:35				370	9.71154	0.4276748	1.2801	1.41636	10.30525	3.29588
12:19:35				371	9.70573	0.4204639	1.2801	1.4652	10.15873	3.23727
12:19:36				372	9.7193	0.4212651	1.2801	1.4652	9.81685	3.24262
12:19:36				373	9.74255	0.4312019	1.3784	1.41636	10.15873	3.32198
12:19:37				374	9.75036	0.423189	1.2801	1.4652	10.30525	3.25559
12:19:37				375	9.75424	0.4236695	1.2801	1.41636	10.06105	3.25918
12:19:38				376	9.7552	0.4243105	1.2801	1.41636	9.96337	3.26434
12:19:38				377	9.75811	0.4300789	1.2801	1.4652	10.94017	3.31135
12:19:39				378	9.76198	0.4255915	1.2801	1.41636	11.47741	3.27422
12:19:39				379	9.76198	0.4254311	1.2801	1.41636	9.71917	3.27291
12:19:40				380	9.76102	0.4260727	1.2801	1.41636	10.35409	3.27825
12:19:40				381	9.77748	0.4284762	1.2801	1.41636	10.06105	3.29645
12:19:41				382	9.78813	0.4263936	1.2801	1.4652	9.76801	3.27843
12:19:41				383	9.80271	0.4284762	1.2801	1.4652	10.06105	3.29416
12:19:42				384	9.84819	0.4263935	1.2801	1.41636	9.86569	3.273
12:19:42				385	9.81336	0.4307207	1.2801	1.41636	9.67033	3.31156
12:19:43				386	9.84141	0.4196629	1.2801	1.4652	9.81685	3.21863
12:19:43				387	10.04932	0.4254307	1.2801	1.41636	9.37729	3.24713
12:19:44				388	10.07927	0.4257515	1.2801	1.41636	9.18193	3.24706
12:19:44				389	10.00681	0.4134118	1.2801	1.4652	9.71917	3.15325
12:19:45				390	10.01266	0.3868129	1.2801	1.4652	9.62149	2.93741
12:19:45				391	9.62122	0.4017158	1.2801	1.4652	10.64713	3.09108
12:19:46				392	9.37006	0.4052411	1.3784	1.4652	10.20757	3.14174
12:19:46				393	9.66979	0.4074835	1.2801	1.41636	10.45177	3.13412
12:19:47				394	9.70379	0.4081244	1.2801	1.41636	10.84249	3.13642
12:19:47				395	9.74739	0.4094069	1.2801	1.4652	11.08669	3.14312
12:19:48				396	9.80174	0.4062023	1.3784	1.41636	9.86569	3.11227
12:19:48				397	9.75811	0.3906598	1.2801	1.41636	10.25641	2.98936
12:19:49				398	9.40713	0.3882562	1.2801	1.4652	10.64713	2.99878
12:19:49				399	9.0866	0.393224	1.3784	1.4652	10.89133	3.06683
12:19:50				400	9.09149	0.392102	1.2801	1.4652	10.74481	3.05711
12:19:50				401	9.12083	0.3877756	1.1817	1.4652	10.50061	3.01878
12:19:51				402	8.95128	0.3863337	1.2801	1.41636	10.69597	3.02111
12:19:51				403	8.82944	0.3896993	1.3784	1.41636	10.84249	3.05952
12:19:52				404	8.92867	0.3932242	1.2801	1.41636	10.69597	3.0804
12:19:52				405	9.14631	0.4082854	1.3784	1.4652	10.64713	3.18664
12:19:53				406	9.45293	0.4058811	1.2801	1.41636	10.45177	3.13979

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:19:53				407	9.4899	0.4025174	1.2801	1.41636	10.79365	3.10893
12:19:54				408	9.39636	0.3997923	1.2801	1.4652	10.74481	3.09456
12:19:54				409	9.23238	0.3880966	1.2801	1.4652	10.79365	3.01206
12:19:55				410	8.93847	0.3896991	1.2801	1.41636	10.74481	3.0502
12:19:55				411	8.85797	0.3925831	1.3784	1.41636	10.74481	3.08115
12:19:56				412	8.93945	0.3997929	1.2801	1.4652	10.94017	3.13422
12:19:56				413	9.01992	0.3925829	1.2801	1.4652	11.08669	3.06722
12:19:57				414	9.11985	0.3969098	1.2801	1.41636	10.98901	3.09455
12:19:57				415	9.11985	0.3964278	1.3784	1.4652	10.30525	3.09054
12:19:58				416	9.12676	0.3967491	1.2801	1.4652	11.03785	3.09262
12:19:58				417	9.10909	0.4074843	1.2801	1.41636	10.84249	3.18329
12:19:59				418	9.09247	0.3969098	1.2801	1.41636	11.33089	3.09691
12:19:59				419	9.10909	0.3978697	1.2801	1.4652	10.25641	3.10344
12:20:00				420	9.14435	0.3941847	1.2801	1.4652	10.64713	3.06985
12:20:00				421	9.07779	0.3965885	1.2801	1.41636	10.74481	3.09551
12:20:01				422	9.08073	0.3949856	1.2801	1.41636	10.74481	3.08195
12:20:01				423	9.07577	0.3933844	1.3784	1.4652	10.45177	3.06909
12:20:02				424	9.04054	0.3908208	1.2801	1.41636	10.89133	3.05082
12:20:02				425	8.95814	0.391942	1.2801	1.41636	11.28205	3.06719
12:20:03				426	8.92082	0.391942	1.1817	1.4652	10.74481	3.0704
12:20:03				427	8.92278	0.3916217	1.3784	1.41636	10.35409	3.06755
12:20:04				428	8.92475	0.3911412	1.2801	1.4652	11.08669	3.06338
12:20:04				429	8.92965	0.3909811	1.2801	1.4652	10.79365	3.06163
12:20:05				430	8.87564	0.3909811	1.2801	1.41636	10.84249	3.06626
12:20:05				431	8.83238	0.3913015	1.2801	1.4652	11.13553	3.07266
12:20:06				432	8.83336	0.3913015	1.3784	1.4652	10.84249	3.07257
12:20:06				433	8.86484	0.3905009	1.2801	1.41636	10.89133	3.06318
12:20:07				434	8.84024	0.3909812	1.2801	1.41636	10.69597	3.0693
12:20:07				435	8.8058	0.3911413	1.2801	1.4652	10.79365	3.07361
12:20:08				436	8.79205	0.3913015	1.2801	1.4652	10.15873	3.07613
12:20:08				437	8.79892	0.3909812	1.2801	1.4652	10.50061	3.07286
12:20:09				438	8.82354	0.3914616	1.2801	1.41636	10.59829	3.07475
12:20:09				439	8.8314	0.3913015	1.2801	1.4652	10.98901	3.07274
12:20:10				440	8.77731	0.3911414	1.2801	1.4652	11.77045	3.07607
12:20:10				441	8.78222	0.3908212	1.2801	1.41636	11.77045	3.07296
12:20:11				442	8.79696	0.3890579	1.2801	1.41636	11.33089	3.05696
12:20:11				443	8.75955	0.3892179	1.2801	1.41636	11.62393	3.0615
12:20:12				444	8.73989	0.3895394	1.2801	1.4652	11.42857	3.06589
12:20:12				445	8.75267	0.3896994	1.2801	1.4652	10.94017	3.06612
12:20:13				446	8.76054	0.3896993	1.2801	1.41636	11.13553	3.06545
12:20:13				447	8.75464	0.3895394	1.2801	1.4652	11.42857	3.06462
12:20:14				448	8.7566	0.3893794	1.2801	1.4652	10.69597	3.06311
12:20:14				449	8.75955	0.389058	1.2801	1.4652	11.08669	3.06017
12:20:15				450	8.74972	0.3892179	1.2801	1.41636	10.50061	3.06235
12:20:15				451	8.74677	0.389058	1.2801	1.41636	10.35409	3.06126

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:20:16				452	8.74481	0.3901794	1.2801	1.41636	10.98901	3.07082
12:20:16				453	8.74186	0.3893794	1.2801	1.4652	11.03785	3.06438
12:20:17				454	8.73891	0.3893794	1.2801	1.4652	10.59829	3.06463
12:20:17				455	8.73792	0.3896994	1.2801	1.4652	11.57509	3.06739
12:20:18				456	8.73399	0.3893794	1.2801	1.41636	11.28205	3.06505
12:20:18				457	8.73891	0.3893794	1.2801	1.41636	10.89133	3.06463
12:20:19				458	8.74284	0.3895394	1.2801	1.4652	10.89133	3.06563
12:20:19				459	8.73497	0.3893794	1.2801	1.4652	11.86813	3.06497
12:20:20				460	8.73399	0.3888981	1.2801	1.4652	10.69597	3.06102
12:20:20				461	8.73694	0.3888981	1.2801	1.41636	11.23321	3.06077
12:20:21				462	8.73202	0.389058	1.2801	1.41636	11.13553	3.06253
12:20:21				463	8.73104	0.3887382	1.3784	1.4652	10.89133	3.05994
12:20:22				464	8.73202	0.3885783	1.2801	1.4652	10.98901	3.05852
12:20:22				465	8.73202	0.3896994	1.1817	1.41636	11.18437	3.06791
12:20:23				466	8.73596	0.389058	1.2801	1.4652	11.72161	3.06219
12:20:23				467	8.73399	0.3893794	1.2801	1.4652	11.57509	3.06505
12:20:24				468	8.74186	0.3895394	1.2801	1.4652	11.28205	3.06572
12:20:24				469	8.75267	0.3906611	1.3784	1.41636	11.57509	3.07417
12:20:25				470	8.76447	0.390501	1.3784	1.41636	12.40537	3.07181
12:20:25				471	8.74874	0.3887382	1.2801	1.41636	11.37973	3.05842
12:20:26				472	8.74382	0.3895394	1.2801	1.41636	11.23321	3.06555
12:20:26				473	8.73989	0.3888981	1.2801	1.41636	11.52625	3.06052
12:20:27				474	8.73497	0.3885783	1.2801	1.4652	12.11233	3.05826
12:20:27				475	8.73301	0.3892179	1.2801	1.4652	11.18437	3.06379
12:20:28				476	8.73989	0.3929038	1.2801	1.41636	11.67277	3.09406
12:20:28				477	8.76944	0.3900193	1.3784	1.41636	11.52625	3.06735
12:20:29				478	8.74579	0.3888981	1.2801	1.41636	11.23321	3.06001
12:20:29				479	8.74087	0.3892179	1.1817	1.4652	11.18437	3.06312
12:20:30				480	8.73596	0.3901794	1.2801	1.4652	12.60073	3.07158
12:20:30				481	8.74186	0.3898594	1.3784	1.4652	11.91697	3.06839
12:20:31				482	8.74874	0.3893794	1.2801	1.4652	11.13553	3.06379
12:20:31				483	8.7507	0.3888981	1.2801	1.41636	11.18437	3.05959
12:20:32				484	8.74382	0.3908212	1.2801	1.4652	11.37973	3.07628
12:20:33				487	8.74063	0.3896745	1.2801	1.41636	10.89133	3.06695
12:20:34				488	8.74161	0.3903161	1.2801	1.4652	11.28205	3.07224
12:20:34				489	8.73768	0.3903161	1.2801	1.4652	11.13553	3.07258
12:20:35				490	8.73473	0.3898361	1.3784	1.41636	10.69597	3.06881
12:20:35				491	8.74358	0.3899961	1.2801	1.4652	10.50061	3.06939
12:20:36				492	8.74757	0.3949627	1.2801	1.4652	11.28205	3.11064
12:20:36				493	8.74855	0.3917572	1.2801	1.4652	11.18437	3.0837
12:20:37				494	8.75249	0.3914368	1.3784	1.41636	14.65201	3.08068
12:20:37				495	8.74161	0.3898361	1.2801	1.4652	12.30769	3.06822
12:20:38				496	8.74358	0.3933599	1.2801	1.41636	11.52625	3.09756
12:20:38				497	8.74554	0.3911165	1.2801	1.41636	12.16117	3.0786
12:20:39				498	8.74653	0.3909564	1.3784	1.41636	12.69841	3.07717

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:20:39				499	8.74358	0.3896745	1.2801	1.4652	12.01465	3.0667
12:20:40				500	8.74456	0.3901561	1.1817	1.4652	11.96581	3.07065
12:20:40				501	8.73964	0.3920776	1.2801	1.41636	12.69841	3.08716
12:20:41				502	8.73669	0.3898361	1.3784	1.41636	11.37973	3.06864
12:20:41				503	8.72686	0.3895146	1.2801	1.4652	11.67277	3.0668
12:20:42				504	8.73079	0.3975252	1.1817	1.41636	11.62393	3.13359
12:20:42				505	8.73374	0.3941619	1.2801	1.4652	11.47741	3.10513
12:20:43				506	8.73571	0.3919174	1.3784	1.4652	10.84249	3.08615
12:20:43				507	8.74161	0.3885535	1.2801	1.4652	10.94017	3.05749
12:20:44				508	8.73964	0.3927186	1.1817	1.41636	10.98901	3.09253
12:20:44				509	8.73866	0.3898361	1.2801	1.4652	11.33089	3.06847
12:20:45				510	8.78394	0.391597	1.2801	1.41636	11.33089	3.0793
12:20:45				511	8.81839	0.390316	1.2801	22.85714	12.11233	3.06563
12:20:46				512	8.83312	0.3944811	1.2801	2.58852	11.28205	3.09916
12:20:46				513	8.80267	0.3911165	1.2801	1.4652	11.57509	3.07367
12:20:47				514	8.80955	0.3909563	1.2801	1.4652	11.18437	3.07174
12:20:47				515	8.81937	0.3906361	1.2801	1.41636	10.98901	3.06822
12:20:48				516	8.83017	0.3907962	1.2801	1.4652	11.52625	3.06863
12:20:48				517	8.82919	0.3920775	1.2801	1.4652	11.23321	3.07941
12:20:49				518	8.81544	0.3919173	1.2801	3.663	11.28205	3.07926
12:20:49				519	8.84987	0.3927185	1.2801	3.71184	11.28205	3.08298
12:20:50				520	8.89508	0.3925582	1.2801	1.4652	11.47741	3.07774
12:20:50				521	8.86361	0.3915969	1.3784	1.4652	11.47741	3.07243
12:20:51				522	8.82723	0.3906361	1.2801	3.71184	11.28205	3.06754
12:20:51				523	8.78885	0.392398	1.0833	3.76068	11.28205	3.08559
12:20:52				524	8.77313	0.3912766	1.2801	1.41636	11.03785	3.07756
12:20:52				525	8.76035	0.3923981	1.2801	1.41636	11.13553	3.08805
12:20:53				526	8.78001	0.3927186	1.2801	1.41636	11.13553	3.08903
12:20:53				527	8.78296	0.3927186	1.2801	1.4652	11.28205	3.08877
12:20:54				528	8.78787	0.3935202	1.2801	1.4652	12.94261	3.09505
12:20:54				529	8.78591	0.3936806	1.2801	1.4652	11.62393	3.09656
12:20:55				530	8.78787	0.3936806	1.2801	1.4652	11.62393	3.09639
12:20:55				531	8.8174	0.3951231	1.2801	4.24908	11.72161	3.10589
12:20:56				532	8.87245	0.3943206	1.2801	5.47009	10.69597	3.0944
12:20:56				533	8.93241	0.3936804	1.2801	4.59096	11.62393	3.08388
12:20:57				534	8.90881	0.3946415	1.3784	3.56532	11.91697	3.09392
12:20:57				535	8.95201	0.3943205	1.2801	1.41636	11.72161	3.08752
12:20:58				536	8.96475	0.3940012	1.2801	1.4652	11.72161	3.08376
12:20:58				537	8.94221	0.3951229	1.2801	1.4652	11.37973	3.09505
12:20:59				538	8.99715	0.3973656	1.2801	1.4652	11.37973	3.10896
12:20:59				539	9.01576	0.3960832	1.2801	4.10256	11.13553	3.09668
12:21:00				540	9.10494	0.3978463	1.2801	5.61661	12.94261	3.10361
12:21:00				541	9.17446	0.3975246	1.2801	7.47253	11.33089	3.09493
12:21:01				542	9.25263	0.4029734	1.2801	7.76557	12.16117	3.13325
12:21:01				543	9.28587	0.3988065	1.2801	10.20757	12.45421	3.09593

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:21:02				544	9.25751	0.3978461	1.2801	12.55189	11.33089	3.09044
12:21:02				545	9.19302	0.4015301	1.3784	13.72405	11.72161	3.1265
12:21:03				546	9.2175	0.3973654	1.2801	10.06105	11.28205	3.08991
12:21:03				547	9.23995	0.3989674	1.2801	5.95849	11.47741	3.10122
12:21:04				548	9.21457	0.4004085	1.2801	9.18193	12.40537	3.11534
12:21:04				549	9.22823	0.4004085	1.2801	15.67766	12.16117	3.11415
12:21:05				550	9.25263	0.4021717	1.2801	22.95482	10.40293	3.12662
12:21:05				551	9.25556	0.4079396	1.2801	22.95482	10.50061	3.1741
12:21:06				552	9.30342	0.408741	1.2801	22.8083	9.96337	3.1765
12:21:06				553	9.34832	0.4130675	1.2801	23.88278	10.30525	3.20829
12:21:07				554	9.43998	0.4143491	1.2801	21.5873	10.40293	3.21071
12:21:07				555	9.4702	0.4058559	1.3784	14.79853	10.20757	3.13808
12:21:08				556	9.43998	0.4071383	1.3784	15.67766	10.84249	3.15127
12:21:08				557	9.48868	0.4157912	1.2801	20.65934	10.69597	3.21825
12:21:09				558	9.55386	0.4092217	1.2801	18.02198	10.59829	3.15845
12:21:09				559	9.56066	0.4114652	1.2801	10.79365	10.45177	3.17629
12:21:10				560	9.58694	0.4162726	1.2801	15.92186	11.03785	3.21346
12:21:10				561	9.6744	0.415952	1.2801	15.14042	10.54945	3.20307
12:21:11				562	9.68894	0.415952	1.2801	11.91697	10.06105	3.20178
12:21:11				563	9.72778	0.4132277	1.2801	11.37973	10.25641	3.17606
12:21:12				564	9.7365	0.4138677	1.2801	15.33578	10.45177	3.18053
12:21:12				565	9.71318	0.4148299	1.2801	16.55678	10.01221	3.19046
12:21:13				566	9.7365	0.4162724	1.2801	16.84982	9.96337	3.20021
12:21:13				567	9.76943	0.4367832	1.3784	17.82662	10.94017	3.36529
12:21:14				568	9.80531	0.4226816	1.2801	17.87546	10.69597	3.24651
12:21:14				569	9.87502	0.4244436	1.2801	17.14286	9.67033	3.25466
12:21:15				570	9.91664	0.4212395	1.2801	22.27106	10.20757	3.22482
12:21:15				571	9.53832	0.4228421	1.2801	22.3199	10.06105	3.27188
12:21:16				572	9.38151	0.422362	1.3784	7.32601	9.96337	3.28216
12:21:16				573	9.32298	0.4209188	1.2801	14.31013	10.06105	3.27555
12:21:17				574	9.29074	0.4116246	1.2801	17.48474	10.15873	3.20149
12:21:17				575	9.23507	0.420919	1.2801	15.38462	10.64713	3.28357
12:21:18				576	9.26831	0.4239637	1.2801	18.94994	9.57265	3.3058
12:21:18				577	9.41662	0.4271696	1.1817	15.09158	10.01221	3.31872
12:21:19				578	9.58597	0.4609856	1.2801	20.17094	10.06105	3.58245
12:21:19				579	9.79176	0.4329379	1.3784	16.7033	9.76801	3.3317
12:21:20				580	9.73746	0.4314951	1.3784	20.1221	9.57265	3.32485
12:21:20				581	9.85955	0.4374243	1.1817	16.4591	9.62149	3.3622
12:21:21				582	9.79079	0.4383859	1.2801	18.80342	9.96337	3.37646
12:21:21				583	9.74425	0.4322969	1.3784	14.11477	10.15873	3.33081
12:21:22				584	9.87702	0.4306935	1.2801	13.62637	10.01221	3.30553
12:21:22				585	9.98823	0.4393476	1.1817	17.77778	9.96337	3.36601
12:21:23				586	10.10216	0.4358222	1.2801	20.65934	10.06105	3.32682
12:21:23				587	10.10023	0.4334177	1.3784	18.1685	9.67033	3.30744
12:21:24				588	10.21685	0.4297312	1.2801	19.48718	9.96337	3.26704

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:21:24				589	10.25051	0.4348604	1.2801	23.49206	10.01221	3.30554
12:21:25				590	10.33423	0.4300527	1.3784	25.68987	10.25641	3.25916
12:21:25				591	10.29863	0.4329372	1.3784	24.07814	9.42613	3.28564
12:21:26				592	10.34576	0.4340588	1.2801	25.39683	9.67033	3.29047
12:21:26				593	10.30728	0.425405	1.2801	26.52015	9.91453	3.22405
12:21:27				594	10.20236	0.4308539	1.3784	24.81074	10.01221	3.27743
12:21:27				595	10.23609	0.4319758	1.3784	23.24786	9.03541	3.28348
12:21:28				596	10.27557	0.4340589	1.2801	25.49451	9.57265	3.29679
12:21:28				597	10.24571	0.4281288	1.2801	26.17827	10.15873	3.25151
12:21:29				598	10.11661	0.4305339	1.2801	20.3663	10.10989	3.28255
12:21:29				599	10.19947	0.4300528	1.3784	19.6337	9.96337	3.2712
12:21:30				600	10.17734	0.4322963	1.2801	19.6337	9.81685	3.29137
12:21:30				601	10.04233	0.4308542	1.2801	20.70818	9.76801	3.29185
12:21:31				602	10.05486	0.4273277	1.2801	21.3431	10.06105	3.26205
12:21:31				603	10.02104	0.4361419	1.2801	22.02686	10.30525	3.33684
12:21:32				604	9.91954	0.4306935	1.3784	16.80098	10.10989	3.30166
12:21:33				607	9.92546	0.4404897	1.1817	19.1453	10.30525	3.38116
12:21:34				608	9.87128	0.4335983	1.3784	16.31258	10.15873	3.3298
12:21:34				609	9.87617	0.4294308	1.2801	14.21245	9.86569	3.29529
12:21:35				610	9.91773	0.4310344	1.1817	18.02198	10.06105	3.30462
12:21:35				611	9.95353	0.4299115	1.2801	20.17094	9.67033	3.2922
12:21:36				612	9.9574	0.4284696	1.2801	15.14042	10.89133	3.2801
12:21:36				613	10.00476	0.4268668	1.2801	16.7033	10.54945	3.26279
12:21:37				614	9.81704	0.4380866	1.2801	16.26374	10.06105	3.37156
12:21:37				615	9.72402	0.4308737	1.3784	12.99145	9.57265	3.32098
12:21:38				616	9.7822	0.4377651	1.2801	15.04274	9.42613	3.37217
12:21:38				617	9.85097	0.4586015	1.2801	16.4591	10.25641	3.53673
12:21:39				618	10.05113	0.4517085	1.3784	16.50794	10.25641	3.46099
12:21:39				619	10.06559	0.4464201	1.3784	16.84982	9.71917	3.41648
12:21:40				620	9.96029	0.4462595	1.2801	16.55678	9.67033	3.42507
12:21:40				621	9.98063	0.4541134	1.1817	16.99634	9.81685	3.48739
12:21:41				622	10.01923	0.4493055	1.2801	17.82662	11.03785	3.4444
12:21:41				623	10.05209	0.4448178	1.3784	16.50794	9.62149	3.40468
12:21:42				624	10.03762	0.4452982	1.3784	16.36142	10.06105	3.40995
12:21:42				625	10.0038	0.4350412	1.2801	16.50794	10.20757	3.32945
12:21:43				626	9.99993	0.4390466	1.2801	16.55678	10.35409	3.36246
12:21:43				627	10.01248	0.4380863	1.3784	16.84982	10.79365	3.35347
12:21:44				628	10.02406	0.4377648	1.3784	17.09402	9.81685	3.34978
12:21:44				629	10.01923	0.4353606	1.2801	17.09402	9.81685	3.33064
12:21:45				630	10.05402	0.4355219	1.2801	17.72894	9.47497	3.32877
12:21:45				631	10.0492	0.4432139	1.2801	18.55922	9.76801	3.39188
12:21:46				632	10.00669	0.4364824	1.2801	18.99878	9.86569	3.34093
12:21:46				633	10.0009	0.4384064	1.2801	19.04762	9.57265	3.35715
12:21:47				634	9.94774	0.4419323	1.2801	18.99878	10.30525	3.39087
12:21:47				635	9.9158	0.4390467	1.2801	14.65201	10.01221	3.37025

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:21:48				636	9.8955	0.4422531	1.2801	17.1917	9.47497	3.39838
12:21:48				637	9.91387	0.4473821	1.2801	17.1917	9.62149	3.43864
12:21:49				638	9.73662	0.4425741	1.2801	18.31502	9.71917	3.41593
12:21:49				639	9.73468	0.4356821	1.2801	16.84982	9.71917	3.35948
12:21:50				640	9.91483	0.4267064	1.2801	14.89621	9.67033	3.26956
12:21:50				641	9.87714	0.4302332	1.2801	16.4591	10.45177	3.30176
12:21:51				642	9.77149	0.4278289	1.2801	14.50549	10.25641	3.29169
12:21:51				643	9.76374	0.4303926	1.2801	10.45177	10.35409	3.31341
12:21:52				644	9.78414	0.4313548	1.2801	11.37973	10.20757	3.31943
12:21:52				645	9.78123	0.4297525	1.3784	12.60073	9.71917	3.30656
12:21:53				646	9.77929	0.4307144	1.2801	12.84493	9.91453	3.31462
12:21:53				647	9.81801	0.4299117	1.2801	13.38217	9.71917	3.30451
12:21:54				648	9.80737	0.4294309	1.2801	14.45665	10.06105	3.30155
12:21:54				649	9.79188	0.4300725	1.2801	15.82418	9.81685	3.30821
12:21:55				650	9.79962	0.4297525	1.2801	15.57998	9.86569	3.30489
12:21:55				651	9.79962	0.4295917	1.2801	15.62882	9.52381	3.30357
12:21:56				652	9.79962	0.4302333	1.2801	16.75214	9.71917	3.30882
12:21:56				653	9.79962	0.4321565	1.2801	15.9707	9.81685	3.32458
12:21:57				654	9.80737	0.435682	1.2801	11.13553	10.06105	3.35275
12:21:57				655	9.82092	0.4327975	1.2801	6.98413	9.76801	3.32787
12:21:58				656	9.81898	0.4326365	1.2801	4.98168	10.59829	3.32673
12:21:58				657	9.81995	0.4316751	1.2801	6.10501	9.96337	3.31877
12:21:59				658	9.82775	0.4315157	1.2801	8.05861	9.76801	3.31675
12:21:59				659	9.84516	0.431836	1.2801	12.01465	10.06105	3.31778
12:22:00				660	9.83839	0.4315157	1.2801	12.74725	10.06105	3.31578
12:22:00				661	9.82968	0.4303925	1.2801	14.60317	10.40293	3.30739
12:22:01				662	9.83259	0.4315157	1.2801	16.26374	9.76801	3.31631
12:22:01				663	9.84323	0.4283091	1.2801	16.11722	9.91453	3.28911
12:22:02				664	9.79188	0.4305535	1.2801	15.28694	9.91453	3.31215
12:22:02				665	9.79285	0.4299117	1.2801	14.16361	9.76801	3.30681
12:22:03				666	9.81317	0.4319955	1.1817	14.40781	10.01221	3.32202
12:22:03				667	9.79478	0.4303926	1.2801	12.74725	10.10989	3.31057
12:22:04				668	9.79285	0.4299117	1.2801	11.52625	9.71917	3.30681
12:22:04				669	9.79478	0.4315158	1.2801	11.86813	9.42613	3.31977
12:22:05				670	9.77929	0.4302334	1.2801	12.94261	9.96337	3.31068
12:22:05				671	9.77348	0.4292718	1.2801	12.06349	9.67033	3.30333
12:22:06				672	9.76761	0.4289504	1.2801	12.94261	9.62149	3.30123
12:22:06				673	9.77736	0.4300725	1.2801	13.52869	9.76801	3.30954
12:22:07				674	9.79188	0.4295917	1.2801	12.21001	10.69597	3.30427
12:22:07				675	9.79575	0.4294309	1.3784	13.57753	9.52381	3.3026
12:22:08				676	9.78704	0.4307143	1.2801	13.13797	9.86569	3.31391
12:22:08				677	9.77833	0.4299117	1.2801	13.04029	10.35409	3.30813
12:22:09				678	9.77833	0.4287912	1.2801	12.45421	9.96337	3.29895
12:22:09				679	9.77833	0.4292718	1.2801	12.16117	10.10989	3.30289
12:22:10				680	9.78704	0.4308736	1.2801	12.60073	9.76801	3.31522

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:22:10				681	9.79478	0.4287912	1.2801	12.94261	9.81685	3.29745
12:22:11				682	9.79866	0.4289503	1.2801	13.23565	9.52381	3.29841
12:22:11				683	9.79575	0.4300725	1.2801	13.04029	9.62149	3.30786
12:22:12				684	9.75115	0.4307144	1.2801	12.60073	9.91453	3.3172
12:22:12				685	9.73855	0.4295918	1.3784	12.11233	9.42613	3.30914
12:22:13				686	9.7618	0.4297525	1.2801	11.86813	9.42613	3.30834
12:22:13				687	9.77052	0.4307144	1.2801	11.42857	10.45177	3.31542
12:22:14				688	9.77252	0.4326365	1.2801	9.76801	9.76801	3.331
12:22:14				689	9.77542	0.432477	1.2801	9.57265	10.10989	3.32942
12:22:15				690	9.75405	0.4299118	1.2801	10.98901	10.10989	3.31035
12:22:15				691	9.76955	0.4297525	1.2801	11.77045	9.71917	3.30763
12:22:16				692	9.76568	0.4292718	1.2801	12.01465	10.01221	3.30404
12:22:16				693	9.74631	0.4311939	1.2801	12.94261	9.71917	3.32157
12:22:17				694	9.73759	0.4300726	1.2801	12.84493	9.42613	3.31317
12:22:17				695	9.72208	0.4315159	1.2801	10.94017	10.79365	3.32644
12:22:18				696	9.71815	0.4303927	1.2801	10.84249	9.76801	3.31758
12:22:18				697	9.73274	0.4334389	1.2801	11.08669	9.62149	3.34124
12:22:19				698	9.69004	0.4297526	1.2801	11.23321	9.96337	3.3149
12:22:19				699	9.58221	0.4310348	1.2801	8.79121	9.96337	3.33536
12:22:20				700	9.57444	0.4302337	1.3784	8.64469	9.57265	3.32947
12:22:20				701	9.61328	0.4297527	1.2801	9.32845	9.91453	3.32194
12:22:21				702	9.58804	0.4279898	1.2801	9.52381	9.96337	3.30974
12:22:21				703	9.56758	0.4222207	1.2801	9.71917	10.01221	3.26411
12:22:22				704	9.57153	0.4279898	1.3784	9.86569	9.71917	3.31125
12:22:22				705	9.57056	0.427349	1.2801	10.25641	9.62149	3.30607
12:22:23				706	9.58512	0.4289506	1.2801	10.30525	9.91453	3.31792
12:22:23				707	9.5725	0.414849	1.2801	10.59829	10.25641	3.20305
12:22:24				708	9.55301	0.4239839	1.3784	10.69597	10.15873	3.27994
12:22:24				709	9.53747	0.4202979	1.3784	10.25641	10.01221	3.25099
12:22:25				710	9.52192	0.4087595	1.2801	9.62149	10.15873	3.15745
12:22:25				711	9.46734	0.4090803	1.2801	9.03541	10.30525	3.16487
12:22:26				712	9.39331	0.4102017	1.3784	6.83761	10.35409	3.18063
12:22:26				713	9.48491	0.4114842	1.2801	8.05861	10.25641	3.18312
12:22:27				714	9.49075	0.413887	1.2801	9.23077	10.20757	3.20238
12:22:27				715	9.48491	0.4130862	1.2801	9.42613	10.10989	3.19631
12:22:28				716	9.47421	0.4142071	1.2801	9.81685	10.06105	3.20649
12:22:28				717	9.48297	0.4148491	1.2801	10.01221	10.35409	3.211
12:22:29				718	9.47123	0.4183743	1.2801	9.71917	10.15873	3.2411
12:22:29				719	9.4401	0.4154898	1.2801	9.62149	10.10989	3.2201
12:22:30				720	9.43913	0.4148492	1.2801	8.84005	9.42613	3.21491
12:22:30				721	9.44983	0.4126056	1.2801	8.79121	9.91453	3.19546
12:22:31				722	9.43718	0.4121252	1.2801	8.98657	10.30525	3.19262
12:22:31				723	9.42252	0.4146883	1.3784	9.18193	10.59829	3.21506
12:22:32				724	9.44302	0.4129255	1.2801	9.76801	10.06105	3.1987
12:22:33				727	9.41388	0.4113174	1.2801	7.96093	10.15873	3.18802

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:22:34				728	9.40512	0.4082725	1.2801	8.30281	10.25641	3.16368
12:22:34				729	9.38078	0.4103559	1.1817	8.88889	10.45177	3.18302
12:22:35				730	9.36026	0.4105164	1.2801	7.81441	10.35409	3.18615
12:22:35				731	9.37493	0.4105164	1.2801	7.13065	10.45177	3.18485
12:22:36				732	9.39051	0.4103559	1.2801	8.15629	10.25641	3.18215
12:22:36				733	9.37591	0.4098745	1.2801	8.30281	10.98901	3.17947
12:22:37				734	9.37201	0.4114781	1.3784	5.81197	10.15873	3.19305
12:22:37				735	9.39344	0.4124387	1.2801	7.27717	9.91453	3.19908
12:22:38				736	9.39246	0.4113174	1.2801	7.96093	10.15873	3.18991
12:22:38				737	9.37785	0.4113175	1.2801	6.69109	10.50061	3.19121
12:22:39				738	9.38272	0.4111569	1.2801	6.30037	10.35409	3.18945
12:22:39				739	9.37883	0.4105164	1.2801	6.93529	10.20757	3.18451
12:22:40				740	9.3661	0.4105164	1.2801	6.44689	10.15873	3.18563
12:22:40				741	9.3661	0.4241365	1.2801	6.73993	10.30525	3.29826
12:22:41				742	9.33687	0.4234956	1.2801	7.22833	11.08669	3.29563
12:22:41				743	9.32712	0.4169253	1.3784	5.61661	10.30525	3.2421
12:22:42				744	9.35149	0.415804	1.2801	5.90965	10.06105	3.23063
12:22:42				745	9.34857	0.4323102	1.2801	6.98413	10.20757	3.36762
12:22:43				746	9.34077	0.4194895	1.2801	6.20269	10.10989	3.2621
12:22:43				747	9.34369	0.4196493	1.2801	4.59096	9.86569	3.26315
12:22:44				748	9.35733	0.4372779	1.2801	5.32357	9.96337	3.40802
12:22:44				749	9.40707	0.4270218	1.2801	5.42125	10.30525	3.31838
12:22:45				750	9.4168	0.4259001	1.3784	4.6398	10.01221	3.3082
12:22:45				751	9.39636	0.422213	1.2801	5.56777	10.06105	3.27958
12:22:46				752	9.38662	0.4281427	1.2801	6.10501	10.20757	3.32954
12:22:46				753	9.38759	0.4225347	1.3784	5.51893	10.45177	3.28303
12:22:47				754	9.3837	0.422053	1.3784	5.22589	10.40293	3.2794
12:22:47				755	9.38078	0.4303868	1.2801	6.05617	10.40293	3.34867
12:22:48				756	9.40317	0.4422458	1.2801	7.71673	10.50061	3.44489
12:22:48				757	9.40317	0.4249379	1.2801	3.46764	9.91453	3.30149
12:22:49				758	9.40901	0.4263798	1.2801	3.51648	9.47497	3.31289
12:22:49				759	9.40804	0.431188	1.2801	5.37241	10.30525	3.35277
12:22:50				760	9.41096	0.436317	1.2801	5.90965	10.98901	3.39499
12:22:50				761	9.41978	0.4273413	1.2801	6.10501	9.96337	3.31985
12:22:51				762	9.41881	0.4315083	1.2801	5.71429	9.62149	3.35442
12:22:51				763	9.41784	0.4324696	1.2801	6.25153	9.62149	3.36247
12:22:52				764	9.4373	0.4359957	1.2801	7.03297	10.01221	3.38984
12:22:52				765	9.46753	0.4319896	1.2801	6.39805	10.30525	3.35387
12:22:53				766	9.46357	0.4299058	1.2801	5.56777	9.67033	3.33701
12:22:53				767	9.44606	0.4270218	1.2801	6.15385	9.76801	3.31479
12:22:54				768	9.4519	0.4374377	1.2801	6.88645	10.45177	3.40041
12:22:54				769	9.46649	0.4356745	1.3784	6.88645	10.15873	3.38444
12:22:55				770	9.46357	0.4342325	1.3784	6.05617	9.67033	3.37278
12:22:55				771	9.45579	0.4334313	1.2801	6.15385	9.96337	3.36689
12:22:56				772	9.4519	0.4340729	1.2801	6.25153	9.81685	3.37256

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:22:56				773	9.4519	0.435355	1.2801	5.95849	10.06105	3.38317
12:22:57				774	9.45774	0.4356745	1.3784	5.76313	9.71917	3.38526
12:22:57				775	9.46163	0.4331107	1.3784	5.66545	9.67033	3.36368
12:22:58				776	9.44898	0.4249378	1.2801	5.95849	9.76801	3.2973
12:22:58				777	9.45385	0.4577926	1.2801	6.88645	10.30525	3.56906
12:22:59				778	9.51226	0.4371178	1.3784	5.95849	10.64713	3.39207
12:22:59				779	9.45871	0.4281426	1.3784	5.37241	9.57265	3.32288
12:23:00				780	9.43438	0.4236557	1.2801	6.05617	9.91453	3.28804
12:23:00				781	9.4412	0.4366366	1.2801	7.13065	10.79365	3.39479
12:23:01				782	9.44703	0.4289444	1.3784	6.59341	10.35409	3.33059
12:23:01				783	9.43828	0.4318287	1.3784	6.05617	10.01221	3.35525
12:23:02				784	9.44412	0.4287837	1.2801	6.44689	10.06105	3.32953
12:23:02				785	9.45968	0.4467345	1.2801	6.73993	10.40293	3.4767
12:23:03				786	9.43828	0.4693343	1.4768	6.54457	10.01221	3.66663
12:23:03				787	9.24019	0.4946643	1.6736	2.34432	9.91453	3.89947
12:23:04				788	9.33492	0.6231279	1.8703	2.34432	9.91453	4.97751
12:23:04				789	9.75999	0.6520089	2.0671	1.41636	9.32845	5.16367
12:23:05				790	9.7891	0.6178335	2.2639	1.41636	7.32601	4.8705
12:23:05				791	9.78813	0.6443061	2.3623	1.4652	6.34921	5.09438
12:23:06				792	9.80555	0.6829791	2.2639	1.51404	7.22833	5.42005
12:23:06				793	9.75708	0.6760789	2.559	1.41636	6.54457	5.36855
12:23:07				794	9.7222	0.6828193	2.7558	1.4652	6.05617	5.43115
12:23:07				795	9.71148	0.6699813	2.7558	1.4652	6.20269	5.32337
12:23:08				796	9.74158	0.6674127	2.7558	1.4652	6.10501	5.2971
12:23:08				797	9.74449	0.6582656	2.6574	1.4652	6.54457	5.21895
12:23:09				798	9.7348	0.6744736	2.8542	1.4652	6.78877	5.35816
12:23:09				799	9.72705	0.6537732	2.8542	1.4652	6.25153	5.18329
12:23:10				800	9.72511	0.6476766	2.8542	1.4652	6.10501	5.13181
12:23:10				801	9.71051	0.641578	2.7558	1.41636	6.44689	5.08214
12:23:11				802	9.71633	0.6879544	2.6574	1.4652	6.59341	5.47584
12:23:11				803	9.7173	0.6561799	2.8542	1.41636	6.49573	5.20513
12:23:12				804	9.71633	0.6630811	2.8542	1.41636	6.05617	5.26394
12:23:12				805	9.7173	0.687794	2.7558	1.4652	6.20269	5.47431
12:23:13				806	9.71633	0.6890791	2.7558	1.4652	6.44689	5.48542
12:23:13				807	9.71148	0.6741531	2.7558	1.4652	6.49573	5.3589
12:23:14				808	9.71245	0.6762403	2.7558	1.4652	6.25153	5.37654
12:23:14				809	9.71245	0.6903632	2.7558	1.4652	6.54457	5.49697
12:23:15				810	9.71245	0.6847456	2.7558	1.4652	6.10501	5.44904
12:23:15				811	9.70954	0.6860289	2.8542	1.41636	5.76313	5.46042
12:23:16				812	9.70858	0.6818559	2.7558	1.41636	5.86081	5.42498
12:23:16				813	9.70954	0.6890792	2.7558	1.41636	5.95849	5.48645
12:23:17				814	9.70954	0.6842634	2.7558	1.4652	5.95849	5.44537
12:23:17				815	9.71148	0.6820176	2.8542	1.41636	5.81197	5.42591
12:23:18				816	9.70858	0.679609	2.8542	1.4652	5.66545	5.40582
12:23:18				817	9.70761	0.677203	2.7558	1.4652	5.90965	5.38546

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:23:19				818	9.71051	0.681696	2.7558	1.4652	6.10501	5.42333
12:23:19				819	9.71148	0.687313	2.8542	1.4652	6.10501	5.47108
12:23:20				820	9.71148	0.6788067	2.8542	1.41636	6.05617	5.39854
12:23:20				821	9.70858	0.679609	2.8542	1.41636	5.86081	5.40582
12:23:21				822	9.71245	0.6874733	2.7558	1.41636	6.25153	5.47231
12:23:21				823	9.71051	0.6900421	2.7558	1.41636	6.15385	5.49453
12:23:22				824	9.71051	0.6876337	2.8542	1.4652	5.90965	5.47396
12:23:22				825	9.71245	0.6812145	2.8542	1.4652	5.90965	5.41892
12:23:23				826	9.71245	0.6810546	2.7558	1.41636	5.86081	5.41757
12:23:23				827	9.70954	0.6842634	2.7558	1.4652	5.90965	5.44537
12:23:24				828	9.71439	0.6903632	2.7558	1.4652	5.95849	5.49668
12:23:24				829	9.71148	0.6834612	2.8542	1.4652	5.81197	5.43822
12:23:25				830	9.71148	0.6813743	2.8542	1.4652	5.81197	5.42043
12:23:25				831	9.71536	0.6759195	2.7558	1.41636	5.86081	5.37337
12:23:26				832	9.7173	0.6892396	2.7558	1.41636	6.15385	5.48665
12:23:26				833	9.71439	0.6821776	2.8542	1.41636	5.86081	5.42684
12:23:27				834	9.71439	0.6836212	2.8542	1.41636	5.76313	5.43915
12:23:27				835	9.71827	0.685388	2.7558	1.4652	5.90965	5.45364
12:23:28				836	9.7173	0.688277	2.7558	1.4652	6.10501	5.47843
12:23:28				837	9.71148	0.6887583	2.8542	1.4652	6.05617	5.48341
12:23:29				838	9.70954	0.6860289	2.8542	1.4652	5.71429	5.46042
12:23:29				839	9.70954	0.6860289	2.8542	1.41636	6.10501	5.46042
12:23:30				840	9.70954	0.6892396	2.7558	1.4652	5.95849	5.48782
12:23:30				841	9.70761	0.6869924	2.7558	1.4652	5.90965	5.46894
12:23:31				842	9.70567	0.6866718	2.8542	1.41636	5.81197	5.46649
12:23:31				843	9.70858	0.6866718	2.7558	1.41636	5.86081	5.46606
12:23:32				844	9.70567	0.6866718	2.7558	1.4652	5.86081	5.4665
12:23:33				847	9.7047	0.6835812	2.7558	1.4652	5.95849	5.44028
12:23:34				848	9.70664	0.6872711	2.7558	1.4652	5.90965	5.47147
12:23:34				849	9.71245	0.6853462	2.8542	1.4652	5.90965	5.45416
12:23:35				850	9.71148	0.685024	2.8542	1.41636	5.71429	5.45155
12:23:35				851	9.71342	0.6834194	2.7558	1.4652	5.81197	5.43758
12:23:36				852	9.71342	0.6855064	2.6574	1.4652	5.90965	5.45539
12:23:36				853	9.71148	0.6867902	2.7558	1.41636	6.05617	5.46663
12:23:37				854	9.71245	0.685186	2.8542	1.4652	5.76313	5.45279
12:23:37				855	9.71051	0.6847037	2.8542	1.4652	5.81197	5.44897
12:23:38				856	9.71051	0.6861473	2.7558	1.4652	5.86081	5.46129
12:23:38				857	9.71148	0.6863093	2.8542	1.4652	5.81197	5.46252
12:23:39				858	9.71148	0.6847037	2.8542	1.41636	5.81197	5.44882
12:23:39				859	9.71245	0.6824575	2.8542	1.41636	5.76313	5.42952
12:23:40				860	9.71439	0.685186	2.7558	1.41636	5.81197	5.4525
12:23:40				861	9.71245	0.6837413	2.7558	1.41636	5.86081	5.44048
12:23:41				862	9.71439	0.6839014	2.8542	1.4652	5.76313	5.44154
12:23:41				863	9.71148	0.6842216	2.8542	1.4652	5.71429	5.44471
12:23:42				864	9.71439	0.6832593	2.8542	1.4652	5.95849	5.43607

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:23:42				865	9.71342	0.6835812	2.8542	1.4652	5.90965	5.43896
12:23:43				866	9.71342	0.6900002	2.8542	1.41636	5.86081	5.49372
12:23:43				867	9.71051	0.6882351	2.8542	1.4652	5.86081	5.4791
12:23:44				868	9.71245	0.6835812	2.8542	1.4652	5.71429	5.4391
12:23:44				869	9.71633	0.6835812	2.8542	1.41636	5.71429	5.43852
12:23:45				870	9.71342	0.6901607	2.7558	1.41636	5.86081	5.4951
12:23:45				871	9.71148	0.6900002	2.7558	1.4652	5.76313	5.49402
12:23:46				872	9.70858	0.6883955	2.8542	1.41636	5.47009	5.48076
12:23:46				873	9.71148	0.6866299	2.8542	1.4652	5.81197	5.46525
12:23:47				874	9.71439	0.6867901	2.7558	1.4652	5.76313	5.46619
12:23:47				875	9.71148	0.6900002	2.7558	1.4652	5.81197	5.49402
12:23:48				876	9.71051	0.6920862	2.7558	1.4652	5.76313	5.51197
12:23:48				877	9.70954	0.6893582	2.8542	1.41636	5.71429	5.48883
12:23:49				878	9.71051	0.6880747	2.8542	1.4652	5.51893	5.47773
12:23:49				879	9.71148	0.6882351	2.7558	1.4652	5.86081	5.47896
12:23:50				880	9.71245	0.6912829	2.7558	1.4652	5.95849	5.50482
12:23:50				881	9.71342	0.6885559	2.8542	1.4652	5.86081	5.48139
12:23:51				882	9.71245	0.6880747	2.8542	1.4652	5.66545	5.47743
12:23:51				883	9.71245	0.6839014	2.7558	1.4652	5.66545	5.44184
12:23:52				884	9.70954	0.6874314	2.7558	1.4652	5.90965	5.47239
12:23:52				885	9.71439	0.6867902	2.8542	1.41636	6.00733	5.46618
12:23:53				886	9.71439	0.6813344	2.8542	1.4652	5.71429	5.41965
12:23:53				887	9.71827	0.6830993	2.8542	1.4652	5.71429	5.43412
12:23:54				888	9.72021	0.6797288	2.7558	1.41636	5.95849	5.40511
12:23:54				889	9.71827	0.6766808	2.8542	1.4652	6.20269	5.37942
12:23:55				890	9.7173	0.6818159	2.8542	1.4652	6.00733	5.42332
12:23:55				891	9.7173	0.6787668	2.7558	1.41636	5.76313	5.39734
12:23:56				892	9.72021	0.6750751	2.7558	1.41636	5.95849	5.36546
12:23:56				893	9.71924	0.6707423	2.7558	1.41636	6.05617	5.32871
12:23:57				894	9.72311	0.6726687	2.8542	1.4652	5.86081	5.34453
12:23:57				895	9.72214	0.6749156	2.8542	1.4652	6.15385	5.3638
12:23:58				896	9.71924	0.672828	2.7558	1.4652	6.20269	5.34647
12:23:58				897	9.71924	0.6718654	2.8542	1.4652	5.86081	5.33826
12:23:59				898	9.72214	0.6681747	2.8542	1.41636	6.34921	5.30642
12:23:59				899	9.72214	0.6684962	2.8542	1.41636	5.95849	5.30916
12:24:00				900	9.72117	0.6717062	2.8542	1.4652	5.86081	5.33662
12:24:00				901	9.72505	0.6752363	2.7558	1.41636	5.95849	5.36611
12:24:01				902	9.72311	0.6835812	2.7558	1.41636	6.15385	5.43751
12:24:01				903	9.7173	0.6720264	2.7558	1.4652	6.39805	5.33993
12:24:02				904	9.71827	0.6763599	2.8542	1.4652	5.95849	5.37668
12:24:02				905	9.72021	0.6712233	2.8542	1.4652	5.86081	5.33265
12:24:03				906	9.72311	0.6734705	2.7558	1.41636	6.10501	5.35136
12:24:03				907	9.73086	0.685024	2.7558	1.41636	6.10501	5.44864
12:24:04				908	9.72214	0.6842215	2.7558	1.41636	6.30037	5.44311
12:24:04				909	9.71439	0.6766808	2.8542	1.41636	6.05617	5.37999

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:24:05				910	9.71827	0.6758778	2.8542	1.41636	6.05617	5.37258
12:24:05				911	9.71536	0.6725077	2.7558	1.4652	6.00733	5.34431
12:24:06				912	9.71924	0.6845436	2.7558	1.4652	6.20269	5.4463
12:24:06				913	9.71148	0.6786053	2.8542	1.4652	5.81197	5.39683
12:24:07				914	9.71439	0.6694591	2.8542	1.41636	5.81197	5.31849
12:24:07				915	9.72796	0.675075	2.7558	1.41636	5.90965	5.36431
12:24:08				916	9.73183	0.6879143	2.7558	1.4652	6.34921	5.47314
12:24:08				917	9.71924	0.6734705	2.8542	1.41636	6.00733	5.35193
12:24:09				918	9.71827	0.6778033	2.8542	1.4652	5.95849	5.38898
12:24:09				919	9.71827	0.679569	2.8542	1.4652	6.15385	5.40403
12:24:10				920	9.7173	0.6872711	2.7558	1.4652	6.25153	5.46985
12:24:10				921	9.71245	0.6877521	2.9526	1.41636	6.15385	5.47467
12:24:11				922	9.70858	0.6853462	2.8542	1.41636	5.95849	5.45474
12:24:11				923	9.70858	0.6827775	2.8542	1.41636	5.76313	5.43283
12:24:12				924	9.71342	0.6840614	2.7558	1.4652	5.66545	5.44306
12:24:12				925	9.71051	0.6879143	2.7558	1.41636	6.05617	5.47637
12:24:13				926	9.71148	0.685186	2.8542	1.4652	6.15385	5.45294
12:24:13				927	9.70761	0.6843835	2.8542	1.4652	5.86081	5.44667
12:24:14				928	9.70858	0.6861473	2.8542	1.4652	5.81197	5.46157
12:24:14				929	9.70954	0.6863093	2.8542	1.4652	5.81197	5.46281
12:24:15				930	9.70858	0.6834194	2.7558	1.41636	5.76313	5.43831
12:24:15				931	9.70761	0.6853462	2.7558	1.4652	5.61661	5.4549
12:24:16				932	9.70954	0.6896791	2.7558	1.4652	5.81197	5.49157
12:24:16				933	9.70664	0.685987	2.8542	1.4652	5.86081	5.4605
12:24:17				934	9.7047	0.6864696	2.8542	1.4652	5.66545	5.46491
12:24:17				935	9.7027	0.6906424	2.7558	1.4652	5.76313	5.50084
12:24:18				936	9.70367	0.6903213	2.8542	1.41636	5.86081	5.49794
12:24:18				937	9.70761	0.6883955	2.8542	1.41636	5.81197	5.48091
12:24:19				938	9.70761	0.6872711	2.8542	1.41636	5.76313	5.47131
12:24:19				939	9.70567	0.6896791	2.6574	1.4652	5.86081	5.49217
12:24:20				940	9.70664	0.6911223	2.8542	1.4652	6.00733	5.50433
12:24:20				941	9.70954	0.6893582	2.8542	1.4652	5.86081	5.48883
12:24:21				942	9.70761	0.6879143	2.8542	1.4652	5.66545	5.4768
12:24:21				943	9.70761	0.6912829	2.7558	1.41636	5.81197	5.50556
12:24:22				944	9.70664	0.6901607	2.8542	1.41636	5.86081	5.49612
12:24:22				945	9.70858	0.6896791	2.8542	1.4652	5.66545	5.49171
12:24:23				946	9.70664	0.6900002	2.8542	1.41636	5.71429	5.49475
12:24:23				947	9.70761	0.6912829	2.7558	1.4652	5.71429	5.50556
12:24:24				948	9.70858	0.6901607	2.7558	1.4652	5.66545	5.49583
12:24:24				949	9.70761	0.6922469	2.7558	1.4652	5.66545	5.51379
12:24:25				950	9.70954	0.6917649	2.7558	1.4652	6.00733	5.50938
12:24:25				951	9.70858	0.6906424	2.8542	1.41636	5.66545	5.49994
12:24:26				952	9.70761	0.6909636	2.7558	1.41636	5.56777	5.50283
12:24:26				953	9.70954	0.6882351	2.7558	1.41636	5.66545	5.47925
12:24:27				954	9.70858	0.6917649	2.8542	1.4652	6.00733	5.50952

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:24:27				955	9.70954	0.6893582	2.8542	1.4652	5.76313	5.48883
12:24:28				956	9.70954	0.6885559	2.8542	1.41636	5.51893	5.48198
12:24:28				957	9.70664	0.6864696	2.7558	1.41636	5.81197	5.46463
12:24:29				958	9.70858	0.6890372	2.7558	1.4652	5.90965	5.48624
12:24:29				959	9.71051	0.6869505	2.8542	1.41636	5.71429	5.46813
12:24:30				960	9.70954	0.6866299	2.8542	1.4652	5.61661	5.46555
12:24:30				961	9.71051	0.6903212	2.7558	1.4652	5.95849	5.49691
12:24:31				962	9.70664	0.6909636	2.8542	1.4652	5.86081	5.50297
12:24:31				963	9.70664	0.6877521	2.8542	1.4652	5.71429	5.47556
12:24:32				964	9.70567	0.6883955	2.8542	1.41636	5.66545	5.4812
12:24:33				967	9.7073	0.6889005	2.8542	1.41636	5.81197	5.48526
12:24:34				968	9.70827	0.6889005	2.7558	1.4652	5.76313	5.48512
12:24:34				969	9.70827	0.6890609	2.7558	1.4652	5.71429	5.48649
12:24:35				970	9.70633	0.6901844	2.7558	1.4652	5.76313	5.49638
12:24:35				971	9.70633	0.6890609	2.8542	1.4652	5.86081	5.48678
12:24:36				972	9.70633	0.6889005	2.8542	1.41636	5.71429	5.48541
12:24:36				973	9.7073	0.6889005	2.7558	1.4652	5.71429	5.48527
12:24:37				974	9.70536	0.6893819	2.8542	1.4652	5.71429	5.48966
12:24:37				975	9.70536	0.6890609	2.8542	1.41636	5.81197	5.48692
12:24:38				976	9.70633	0.6885796	2.8542	1.4652	5.76313	5.48267
12:24:38				977	9.70633	0.6868138	2.7558	1.4652	5.66545	5.46761
12:24:39				978	9.70536	0.687938	2.7558	1.41636	5.81197	5.47735
12:24:39				979	9.7073	0.6911479	2.7558	1.41636	5.81197	5.50445
12:24:40				980	9.7044	0.68874	2.8542	1.41636	5.71429	5.48433
12:24:40				981	9.70633	0.6885796	2.8542	1.4652	5.76313	5.48267
12:24:41				982	9.70633	0.6924313	2.7558	1.4652	5.86081	5.51556
12:24:41				983	9.7073	0.6919493	2.8542	1.4652	5.81197	5.51129
12:24:42				984	9.70827	0.6908267	2.8542	1.4652	5.51893	5.50156
12:24:42				985	9.70633	0.6905055	2.8542	1.41636	5.66545	5.49911
12:24:43				986	9.70633	0.6911479	2.7558	1.4652	5.51893	5.5046
12:24:43				987	9.70924	0.6906661	2.7558	1.4652	5.76313	5.50005
12:24:44				988	9.70633	0.6906661	2.7558	1.41636	5.71429	5.50049
12:24:44				989	9.70633	0.6906661	2.7558	1.4652	5.76313	5.50049
12:24:45				990	9.70633	0.6905055	2.7558	1.4652	5.71429	5.49912
12:24:45				991	9.70633	0.6908267	2.8542	1.4652	5.81197	5.50185
12:24:46				992	9.70633	0.683765	2.8542	1.41636	5.71429	5.44159
12:24:46				993	9.70343	0.6795927	2.7558	1.41636	5.81197	5.40645
12:24:47				994	9.69955	0.6913085	2.7558	1.4652	6.10501	5.50701
12:24:47				995	9.70536	0.6840869	2.8542	1.4652	5.95849	5.44448
12:24:48				996	9.7073	0.6802336	2.8542	1.41636	5.61661	5.41133
12:24:48				997	9.70343	0.6604957	2.7558	1.4652	5.90965	5.24384
12:24:49				998	9.70633	0.6874569	2.7558	1.41636	6.25153	5.4731
12:24:49				999	9.70536	0.6770253	2.8542	1.4652	5.95849	5.38427
12:24:50				1000	9.70633	0.6768639	2.8542	1.4652	5.66545	5.38275
12:24:50				1001	9.7073	0.6698042	2.7558	1.41636	5.86081	5.32248

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:24:51				1002	9.7073	0.6860125	2.6574	1.4652	6.10501	5.46063
12:24:51				1003	9.7044	0.6893819	2.7558	1.4652	5.95849	5.48982
12:24:52				1004	9.70343	0.6805551	2.8542	1.4652	5.56777	5.41465
12:24:52				1005	9.70536	0.6811981	2.8542	1.4652	5.71429	5.41984
12:24:53				1006	9.70246	0.6856903	2.7558	1.41636	5.86081	5.45861
12:24:53				1007	9.70246	0.6845673	2.7558	1.4652	5.95849	5.44903
12:24:54				1008	9.70246	0.6789501	2.8542	1.41636	5.90965	5.40111
12:24:54				1009	9.70536	0.6803952	2.7558	1.4652	5.81197	5.41301
12:24:55				1010	9.70536	0.687938	2.7558	1.4652	5.86081	5.47735
12:24:55				1011	9.70343	0.6784692	2.8542	1.41636	6.05617	5.39687
12:24:56				1012	9.70536	0.6738146	2.8542	1.4652	6.15385	5.35691
12:24:56				1013	9.70633	0.6767044	2.7558	1.4652	6.44689	5.3814
12:24:57				1014	9.70343	0.6741369	2.8542	1.41636	6.05617	5.35995
12:24:57				1015	9.7044	0.6730126	2.8542	1.4652	5.86081	5.35023
12:24:58				1016	9.70343	0.674778	2.7558	1.4652	6.10501	5.36542
12:24:58				1017	9.7044	0.6717298	2.7558	1.4652	6.05617	5.33931
12:24:59				1018	9.70536	0.6797524	2.7558	1.41636	5.86081	5.40753
12:24:59				1019	9.70343	0.6763835	2.8542	1.41636	6.05617	5.37909
12:25:00				1020	9.7044	0.6659529	2.8542	1.4652	6.05617	5.29012
12:25:00				1021	9.70633	0.6646689	2.7558	1.4652	6.05617	5.27891
12:25:01				1022	9.7073	0.6829629	2.8542	1.4652	5.90965	5.4346
12:25:01				1023	9.70536	0.683283	2.7558	1.4652	5.95849	5.43763
12:25:02				1024	9.70827	0.6787904	2.8542	1.41636	5.76313	5.39888
12:25:02				1025	9.7044	0.6779884	2.8542	1.4652	5.76313	5.39263
12:25:03				1026	9.7044	0.6811981	2.8542	1.41636	5.90965	5.41999
12:25:03				1027	9.70246	0.6746168	2.8542	1.41636	5.81197	5.36418
12:25:04				1028	9.70343	0.6840869	2.8542	1.4652	5.86081	5.44477
12:25:04				1029	9.70633	0.6821594	2.8542	1.4652	6.05617	5.4279
12:25:05				1030	9.7044	0.6720499	2.7558	1.4652	5.81197	5.34203
12:25:05				1031	9.70246	0.6872966	2.7558	1.41636	5.95849	5.47232
12:25:06				1032	9.70149	0.6890609	2.7558	1.41636	6.39805	5.48752
12:25:06				1033	9.7044	0.6866536	2.7558	1.4652	5.95849	5.46653
12:25:07				1034	9.7044	0.6823212	2.8542	1.4652	5.90965	5.42957
12:25:07				1035	9.70343	0.6807167	2.8542	1.4652	5.81197	5.41603
12:25:08				1036	9.7044	0.6786289	2.7558	1.4652	5.86081	5.39809
12:25:08				1037	9.7044	0.6821594	2.7558	1.41636	6.15385	5.4282
12:25:09				1038	9.70343	0.6763835	2.8542	1.41636	6.30037	5.37909
12:25:09				1039	9.70246	0.676543	2.7558	1.4652	6.25153	5.3806
12:25:10				1040	9.70246	0.6852097	2.8542	1.41636	6.15385	5.4545
12:25:10				1041	9.70246	0.67205	2.8542	1.4652	6.30037	5.34231
12:25:11				1042	9.70246	0.6653108	2.8542	1.4652	6.05617	5.28493
12:25:11				1043	9.70536	0.6885796	2.7558	1.4652	6.39805	5.48283
12:25:12				1044	9.70633	0.6649898	2.8542	1.4652	6.34921	5.28164
12:25:12				1045	9.70924	0.6677179	2.8542	1.41636	5.95849	5.30443
12:25:13				1046	9.71124	0.6641875	2.7558	1.4652	6.15385	5.2741

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:25:13				1047	9.71221	0.6808766	2.8542	1.4652	6.49573	5.41608
12:25:14				1048	9.70827	0.6584095	2.8542	1.4652	5.86081	5.22539
12:25:14				1049	9.70827	0.661779	2.8542	1.4652	5.81197	5.25404
12:25:15				1050	9.70827	0.6476587	2.7558	1.41636	6.00733	5.13406
12:25:15				1051	9.7073	0.6897029	2.7558	1.4652	6.25153	5.49212
12:25:16				1052	9.7073	0.6760627	2.8542	1.4652	6.10501	5.37578
12:25:16				1053	9.70536	0.674778	2.8542	1.4652	5.81197	5.36512
12:25:17				1054	9.70536	0.6877776	2.7558	1.4652	6.00733	5.47598
12:25:17				1055	9.70536	0.6877776	2.7558	1.4652	6.00733	5.47598
12:25:18				1056	9.70633	0.686333	2.8542	1.41636	5.81197	5.4635
12:25:18				1057	9.70536	0.6860125	2.8542	1.41636	5.71429	5.46091
12:25:19				1058	9.70246	0.6824812	2.8542	1.41636	5.71429	5.43122
12:25:19				1059	9.70343	0.6641876	2.7558	1.4652	5.86081	5.27524
12:25:20				1060	9.72384	0.6584095	2.559	1.4652	6.05617	5.22316
12:25:20				1061	9.80041	0.6033789	2.2639	1.4652	6.59341	4.74719
12:25:21				1062	9.89726	0.5846099	2.0671	1.4652	7.13065	4.57717
12:25:21				1063	9.98721	0.4944879	1.772	3.56532	7.22833	3.81821
12:25:22				1064	9.94273	0.4379057	1.6736	11.47741	9.32845	3.35842
12:25:22				1065	9.70827	0.4484831	1.5752	11.13553	9.18193	3.46724
12:25:23				1066	9.52757	0.4613068	1.5752	10.50061	9.08425	3.5909
12:25:23				1067	9.51007	0.4568184	1.5752	9.03541	9.27961	3.5554
12:25:24				1068	9.50126	0.4409518	1.5752	8.54701	9.57265	3.42481
12:25:24				1069	9.41169	0.4464002	1.5752	7.52137	9.52381	3.47854
12:25:25				1070	9.3795	0.4481633	1.5752	8.10745	9.18193	3.49631
12:25:25				1071	9.40682	0.4451176	1.5752	8.30281	9.13309	3.46836
12:25:26				1072	9.37657	0.4444767	1.5752	7.86325	9.03541	3.46595
12:25:26				1073	9.35216	0.446561	1.5752	7.32601	9.08425	3.48564
12:25:27				1074	9.34436	0.4455997	1.5752	7.57021	9.08425	3.4784
12:25:27				1075	9.34144	0.4428747	1.5752	7.08181	9.13309	3.45602
12:25:28				1076	9.34046	0.4398289	1.4768	6.20269	9.08425	3.4308
12:25:28				1077	9.2516	0.442554	1.5752	4.6398	9.27961	3.46199
12:25:29				1078	9.28093	0.4443179	1.5752	2.73504	9.27961	3.47386
12:25:29				1079	9.32877	0.440952	1.5752	3.02808	9.62149	3.44125
12:25:30				1080	9.28483	0.4403112	1.5752	3.4188	9.62149	3.44012
12:25:30				1081	9.24379	0.4417521	1.5752	3.51648	9.81685	3.45606
12:25:31				1082	9.22329	0.4431958	1.5752	3.56532	9.52381	3.47008
12:25:31				1083	9.22915	0.4406317	1.5752	2.1978	10.06105	3.44813
12:25:32				1084	9.27508	0.4371053	1.5752	2.00244	9.96337	3.41438
12:25:33				1087	9.16402	0.4398564	1.5752	1.90476	9.86569	3.44792
12:25:34				1088	9.17184	0.4366514	1.5752	1.56288	10.06105	3.42042
12:25:34				1089	9.13861	0.4374525	1.5752	2.442	10.79365	3.43028
12:25:35				1090	9.11704	0.438094	1.5752	1.4652	9.71917	3.43771
12:25:35				1091	9.14643	0.4363301	1.5752	1.66056	9.81685	3.42016
12:25:36				1092	9.12682	0.4547625	1.5752	3.36996	9.86569	3.57627
12:25:36				1093	9.09357	0.4390559	1.5752	4.29792	9.91453	3.44801

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:25:37				1094	9.11606	0.4364916	1.4768	2.1978	9.76801	3.42442
12:25:37				1095	9.11313	0.4600525	1.5752	1.4652	10.10989	3.62201
12:25:38				1096	9.04947	0.4412987	1.5752	1.4652	10.45177	3.47105
12:25:38				1097	9.0573	0.439216	1.5752	1.4652	9.81685	3.45284
12:25:39				1098	9.11704	0.4371327	1.5752	1.41636	9.91453	3.42968
12:25:39				1099	9.12095	0.4422606	1.5752	1.41636	9.96337	3.47217
12:25:40				1100	9.12291	0.4411383	1.5752	1.4652	10.06105	3.4626
12:25:40				1101	9.12975	0.4404972	1.5752	1.4652	10.35409	3.45658
12:25:41				1102	9.13763	0.4404972	1.5752	1.4652	10.10989	3.45582
12:25:41				1103	9.13959	0.4542811	1.5752	1.4652	10.10989	3.57096
12:25:42				1104	9.12877	0.4515567	1.5752	1.41636	9.91453	3.54921
12:25:42				1105	9.15425	0.442421	1.5752	1.4652	9.91453	3.47029
12:25:43				1106	9.13665	0.4421002	1.5752	1.4652	10.01221	3.46931
12:25:43				1107	9.14838	0.4587693	1.5752	1.4652	9.91453	3.60769
12:25:44				1108	9.1885	0.4515566	1.5752	1.4652	9.86569	3.5433
12:25:44				1109	9.20608	0.4464278	1.5752	8.40049	10.10989	3.49872
12:25:45				1110	9.19436	0.4449846	1.5752	2.83272	9.32845	3.48781
12:25:45				1111	9.17086	0.4440242	1.5752	2.29548	10.01221	3.48207
12:25:46				1112	9.19339	0.4513969	1.5752	3.61416	9.76801	3.54149
12:25:46				1113	9.24617	0.4473895	1.5752	7.81441	10.01221	3.50284
12:25:47				1114	9.24715	0.443703	1.5752	4.93284	9.42613	3.472
12:25:47				1115	9.1885	0.4497932	1.4768	4.6398	9.76801	3.52857
12:25:48				1116	9.19436	0.4632579	1.4768	3.95604	10.15873	3.64066
12:25:48				1117	9.32335	0.4582881	1.5752	2.88156	9.96337	3.58614
12:25:49				1118	9.35648	0.4562056	1.5752	2.78388	9.47497	3.56548
12:25:49				1119	9.27355	0.4578074	1.5752	2.97924	9.42613	3.58709
12:25:50				1120	9.33699	0.4683881	1.5752	2.05128	9.91453	3.66905
12:25:50				1121	9.40622	0.4600521	1.5752	3.9072	9.37729	3.59257
12:25:51				1122	9.38674	0.4597312	1.5752	4.78632	8.93773	3.59184
12:25:51				1123	9.40135	0.4869829	1.5752	4.20024	9.37729	3.81776
12:25:52				1124	9.52216	0.4967626	1.5752	3.51648	9.18193	3.88655
12:25:52				1125	9.58634	0.4845781	1.5752	2.83272	8.44933	3.77822
12:25:53				1126	9.4978	0.4720738	1.5752	2.73504	8.40049	3.68336
12:25:53				1127	9.49877	0.5440654	1.5752	2.83272	9.32845	4.2857
12:25:54				1128	9.62426	0.4850597	1.5752	4.29792	9.18193	3.77825
12:25:54				1129	9.68834	0.4842575	1.6736	2.78388	8.54701	3.7649
12:25:55				1130	9.59119	0.4882652	1.772	4.1514	8.79121	3.80836
12:25:55				1131	9.58925	0.4999691	1.5752	4.98168	9.13309	3.90606
12:25:56				1132	9.61552	0.5402168	1.5752	5.76313	8.93773	4.23958
12:25:56				1133	9.64269	0.5238597	1.5752	3.61416	8.98657	4.09954
12:25:57				1134	9.62911	0.5124754	1.6736	1.41636	7.96093	4.006
12:25:57				1135	9.57468	0.4836169	1.4768	3.02808	8.49817	3.77144
12:25:58				1136	9.52799	0.4513964	1.3784	4.00488	9.32845	3.50871
12:25:58				1137	9.47835	0.4581276	1.2801	4.10256	9.37729	3.56941
12:25:59				1138	9.45883	0.4393756	1.1817	4.6398	9.08425	3.41581

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:25:59				1139	9.42283	0.4379336	0.9849	4.44444	9.91453	3.40728
12:26:00				1140	9.43743	0.0598712	0.7881	4.1514	9.81685	0.42024
12:26:00				1141	9.41699	0.076493	0.5914	11.03785	17.4359	0.54253
12:26:01				1142	9.43159	0.198838	0.6898	0	0	1.47566
12:26:01				1143	9.44813	0.2793452	0.6898	0	0	2.11227
12:26:02				1144	9.45883	0.2895925	0.6898	0	0	2.19377
12:26:02				1145	9.47543	0.4239903	0.6898	0	0	3.28709
12:26:03				1146	9.48418	0.1917979	0.6898	0	0	1.41859
12:26:03				1147	9.49002	0.1030304	0.6898	0	0	0.73884
12:26:04				1148	9.50363	0.0804892	0.6898	0	0	0.57074
12:26:04				1149	9.51244	0.3040044	0.6898	0	0	2.30619
12:26:05	12:25:12 switch off	5.0	270	1150	9.52119	0.2465285	0.6898	0	0	1.84697
12:27:35	12:26:35 switch on	2.5	270	7	9.62729	0.4688941	0.9849	0	0	3.64385
12:27:36				8	9.66131	0.4711387	1.0833	0	0	3.659
12:27:36				9	9.61953	0.4685733	1.0833	0	0	3.64197
12:27:37				10	9.68264	0.4700168	1.1817	0	0	3.64756
12:27:37				11	9.81166	0.4741847	1.2801	0	0	3.66895
12:27:38				12	9.8136	0.487812	1.3784	0	0	3.7813
12:27:38				13	9.74576	0.4871717	1.2801	0	0	3.78309
12:27:39				14	9.7477	0.4844447	1.2801	0	0	3.76031
12:27:39				15	9.77094	0.4822011	1.2801	0	0	3.73933
12:27:40				16	9.95975	0.48204	1.3784	0	0	3.7186
12:27:40				17	9.91139	0.4857285	1.3784	0	0	3.75395
12:27:41				18	9.92492	0.48204	1.2801	0	0	3.72217
12:27:41				19	10.00229	0.4825208	1.2801	0	0	3.71821
12:27:42				20	10.1239	0.4820397	1.3784	0	0	3.70186
12:27:42				21	10.13545	0.4879712	1.4768	0	0	3.74927
12:27:43				22	10.11619	0.4850868	1.3784	0	0	3.72761
12:27:43				23	10.13449	0.4842847	1.2801	0	0	3.71918
12:27:44				24	10.20007	0.4847645	1.3784	0	0	3.71641
12:27:44				25	10.20007	0.4822004	1.3784	0	0	3.69545
12:27:45				26	10.16344	0.476429	1.3784	0	0	3.65197
12:27:45				27	9.84268	0.4823602	1.3784	0	0	3.73325
12:27:46				28	9.7506	0.4693762	1.3784	0	0	3.63541
12:27:46				29	9.7923	0.4629631	1.3784	0	0	3.57837
12:27:47				30	9.63505	0.4729028	1.3784	0	0	3.67627
12:27:47				31	9.45117	0.4709792	1.3784	0	0	3.67902
12:27:48				32	9.52131	0.4594361	1.2801	0	0	3.57602
12:27:48				33	9.67876	0.4637654	1.3784	0	0	3.59624
12:27:49				34	9.80682	0.4709786	1.4768	0	0	3.64299
12:27:49				35	9.77869	0.4676124	1.3784	0	0	3.61805
12:27:50				36	9.77191	0.4629631	1.3784	0	0	3.58038
12:27:50				37	9.80682	0.4684134	1.3784	0	0	3.62184
12:27:51				38	9.80682	0.4672917	1.3784	0	0	3.6126

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:27:51				39	9.76997	0.4647271	1.3784	0	0	3.59512
12:27:52				40	9.72535	0.46136	1.3784	0	0	3.57176
12:27:52				41	9.69531	0.463124	1.3784	0	0	3.58929
12:27:53				42	9.60497	0.4674515	1.3784	0	0	3.63412
12:27:53				43	9.56024	0.4587962	1.3784	0	0	3.56686
12:27:54				44	9.6137	0.4573521	1.3784	0	0	3.54963
12:27:54				45	9.60011	0.4616813	1.3784	0	0	3.58681
12:27:55				46	9.55538	0.4602382	1.3784	0	0	3.57929
12:27:55				47	9.57772	0.4560711	1.3784	0	0	3.54257
12:27:56				48	9.57092	0.458155	1.3784	0	0	3.56049
12:27:56				49	9.55149	0.4599173	1.3784	0	0	3.57701
12:27:57				50	9.57286	0.4595964	1.4768	0	0	3.57223
12:27:57				51	9.56995	0.4652085	1.3784	0	0	3.61904
12:27:58				52	9.604	0.4636048	1.2801	0	0	3.60236
12:27:58				53	9.62438	0.4636047	1.3784	0	0	3.60032
12:27:59				54	9.66713	0.4621615	1.3784	0	0	3.58413
12:27:59				55	9.68749	0.4647272	1.3784	0	0	3.60332
12:28:00				56	9.73795	0.4730627	1.3784	0	0	3.66715
12:28:00				57	9.75157	0.4700167	1.3784	0	0	3.64061
12:28:01				58	9.77869	0.4714598	1.3784	0	0	3.64979
12:28:01				59	9.72826	0.4735428	1.3784	0	0	3.6721
12:28:02				60	9.72051	0.4693763	1.3784	0	0	3.63844
12:28:02				61	9.64579	0.4746654	1.3784	0	0	3.68978
12:28:03				62	9.56315	0.4754682	1.3784	0	0	3.7049
12:28:03				63	9.66422	0.4722612	1.3784	0	0	3.66799
12:28:04				64	9.63699	0.4757886	1.4768	0	0	3.69999
12:28:04				65	9.54366	0.4770714	1.3784	0	0	3.72023
12:28:05				66	9.56606	0.4745054	1.3784	0	0	3.6966
12:28:05				67	9.55052	0.4754682	1.3784	0	0	3.7062
12:28:06				68	9.55149	0.4727429	1.3784	0	0	3.68345
12:28:06				69	9.51645	0.4711389	1.3784	0	0	3.67369
12:28:07				70	9.49694	0.4717801	1.3784	0	0	3.68101
12:28:07				71	9.48625	0.4746657	1.3784	0	0	3.70613
12:28:08				72	9.49889	0.4725814	1.3784	0	0	3.68748
12:28:08				73	9.5077	0.4706578	1.3784	0	0	3.67058
12:28:09				74	9.48333	0.473865	1.3784	0	0	3.69976
12:28:09				75	9.47069	0.4717801	1.3784	0	0	3.6837
12:28:10				76	9.47458	0.4706579	1.3784	0	0	3.67396
12:28:10				77	9.44533	0.4724215	1.3784	0	0	3.69163
12:28:11				78	9.43073	0.4709792	1.3784	0	0	3.68111
12:28:11				79	9.42879	0.4706579	1.3784	0	0	3.67863
12:28:12				80	9.41321	0.4704982	1.3784	0	0	3.67889
12:28:12				81	9.39952	0.4724216	1.3784	0	0	3.69633
12:28:13				82	9.39076	0.4708194	1.3784	0	0	3.68386
12:28:13				83	9.3566	0.4743455	1.3784	0	0	3.71682

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:28:14				84	9.38394	0.4733833	1.3784	0	0	3.70596
12:28:14				85	9.39855	0.4729032	1.3784	0	0	3.70045
12:28:15				86	9.37323	0.4733833	1.2801	0	0	3.70707
12:28:15				87	9.39368	0.4717802	1.3784	0	0	3.69158
12:28:16				88	9.39465	0.4730632	1.4768	0	0	3.70218
12:28:16				89	9.3966	0.4722616	1.3784	0	0	3.6953
12:28:17				90	9.3781	0.4732233	1.3784	0	0	3.70523
12:28:17				91	9.39563	0.4714604	1.3784	0	0	3.68871
12:28:18				92	9.41613	0.4729032	1.4768	0	0	3.69864
12:28:18				93	9.40147	0.4716203	1.3784	0	0	3.68945
12:28:19				94	9.40244	0.4721017	1.3784	0	0	3.69336
12:28:19				95	9.40634	0.4724216	1.3784	0	0	3.69563
12:28:20				96	9.41029	0.4724216	1.3784	0	0	3.69523
12:28:20				97	9.41127	0.4709792	1.4768	0.58608	0.2442	3.68309
12:28:21				98	9.39757	0.4714604	1.3784	0.39072	0.09768	3.68851
12:28:21				99	9.38978	0.4746658	1.3784	1.41636	0.9768	3.71606
12:28:22				100	9.40835	0.4762698	1.3784	1.41636	0.9768	3.72753
12:28:22				101	9.4502	0.473865	1.4768	1.4652	9.08425	3.70316
12:28:23				102	9.44047	0.4743454	1.3784	1.4652	9.13309	3.70817
12:28:23				103	9.43073	0.4741853	1.3784	1.9536	9.13309	3.70783
12:28:24				104	9.47263	0.474986	1.4768	1.41636	9.42613	3.71019
12:28:24				105	9.50284	0.4751478	1.3784	2.49084	8.93773	3.70843
12:28:25				106	9.49306	0.4756286	1.3784	2.58852	9.18193	3.71344
12:28:25				107	9.50284	0.4836449	1.3784	1.7094	9.13309	3.7792
12:28:26				108	9.52714	0.4825216	1.3784	1.75824	9.67033	3.7673
12:28:26				109	9.54366	0.4802772	1.3784	1.85592	9.27961	3.7469
12:28:27				110	9.53783	0.4890956	1.3784	1.9536	9.18193	3.82094
12:28:27				111	9.55538	0.481399	1.3784	2.442	10.06105	3.75501
12:28:28				112	9.55635	0.4781928	1.3784	2.73504	10.06105	3.72825
12:28:28				113	9.54075	0.4815598	1.3784	2.63736	9.76801	3.75788
12:28:29				114	9.52325	0.4797969	1.4768	2.24664	9.18193	3.74501
12:28:29				115	9.52617	0.4796362	1.3784	2.39316	9.37729	3.74338
12:28:30				116	9.51548	0.4761094	1.3784	2.14896	9.03541	3.71513
12:28:30				117	9.51936	0.4841246	1.3784	1.9536	9.37729	3.78147
12:28:31				118	9.57092	0.4788349	1.4768	4.44444	9.03541	3.73207
12:28:31				119	9.54366	0.4791544	1.4768	6.49573	8.69353	3.73755
12:28:32				120	9.51936	0.4889341	1.3784	3.80952	9.08425	3.82155
12:28:32				121	9.59623	0.4892553	1.3784	2.442	9.08425	3.81609
12:28:33				122	9.61953	0.4866897	1.4768	5.71429	8.88889	3.7923
12:28:33				123	9.54955	0.473063	1.3784	3.85836	8.88889	3.68631
12:28:34				124	9.495	0.5030438	1.3784	2.53968	9.27961	3.942
12:28:35				127	9.55198	0.4898454	1.3784	2.73504	8.93773	3.82569
12:28:36				128	9.57238	0.4957782	1.3784	1.66056	9.32845	3.87295
12:28:36				129	9.57141	0.4855168	1.3784	3.22344	9.13309	3.7876
12:28:37				130	9.56558	0.4859987	1.4768	3.51648	8.98657	3.79222

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:28:37				131	9.55392	0.4845551	1.3784	3.71184	9.18193	3.78143
12:28:38				132	9.55587	0.4832736	1.3784	12.99145	8.54701	3.77056
12:28:38				133	9.54518	0.4827925	1.3784	10.01221	8.69353	3.76767
12:28:39				134	9.54615	0.4997852	1.3784	8.49817	8.54701	3.9092
12:28:39				135	9.56169	0.4847162	1.4768	3.4188	9.42613	3.78195
12:28:40				136	9.54032	0.4831127	1.4768	2.29548	9.13309	3.77084
12:28:40				137	9.50624	0.4843958	1.1817	2.63736	9.03541	3.78511
12:28:41				138	9.50819	0.5005877	1.3784	1.56288	8.98657	3.92003
12:28:41				139	9.49555	0.4864792	1.3784	1.80708	8.88889	3.8036
12:28:42				140	9.48874	0.483594	1.3784	1.4652	8.44933	3.78025
12:28:42				141	9.47701	0.4795855	1.3784	1.4652	8.69353	3.74806
12:28:43				142	9.45172	0.4851964	1.3784	1.4652	8.84005	3.79752
12:28:43				143	9.43317	0.4848758	1.3784	1.4652	8.54701	3.79679
12:28:44				144	9.43615	0.4898456	1.3784	1.41636	8.98657	3.838
12:28:44				145	9.45366	0.4900071	1.3784	1.41636	9.23077	3.83749
12:28:45				146	9.47798	0.4853575	1.4768	6.25153	8.69353	3.79609
12:28:45				147	9.45853	0.4859989	1.4768	1.4652	8.64469	3.80349
12:28:46				148	9.46631	0.4888848	1.3784	1.66056	8.59585	3.82677
12:28:46				149	9.4809	0.4890446	1.3784	1.90476	8.88889	3.82655
12:28:47				150	9.48284	0.4853575	1.3784	1.4652	8.88889	3.79558
12:28:47				151	9.4702	0.4863197	1.3784	1.4652	8.79121	3.80494
12:28:48				152	9.4702	0.4843958	1.3784	1.51404	8.59585	3.78889
12:28:48				153	9.48874	0.487442	1.3784	2.29548	8.54701	3.81235
12:28:49				154	9.52763	0.4872806	1.3784	2.49084	8.40049	3.8069
12:28:49				155	9.54129	0.4848757	1.3784	4.1514	8.44933	3.78542
12:28:50				156	9.51305	0.4848757	1.3784	4.884	8.54701	3.78839
12:28:50				157	9.48971	0.4826316	1.3784	4.44444	8.79121	3.77213
12:28:51				158	9.50333	0.4845552	1.3784	2.24664	9.76801	3.78674
12:28:51				159	9.51013	0.4843958	1.4768	1.4652	9.23077	3.78469
12:28:52				160	9.51013	0.4845552	1.3784	1.9536	9.03541	3.78602
12:28:52				161	9.44004	0.4845553	1.3784	1.41636	9.13309	3.79339
12:28:53				162	9.44685	0.4874421	1.3784	1.41636	8.98657	3.81678
12:28:53				163	9.4809	0.4925709	1.3784	1.4652	9.03541	3.856
12:28:54				164	9.40202	0.493694	1.3784	1.4652	8.98657	3.87385
12:28:54				165	9.38936	0.4967396	1.3784	1.41636	9.03541	3.90073
12:28:55				166	9.35715	0.4949765	1.3784	1.4652	8.88889	3.88944
12:28:55				167	9.34838	0.4944955	1.4768	1.4652	8.74237	3.88635
12:28:56				168	9.33468	0.4986637	1.3784	1.4652	8.88889	3.92281
12:28:56				169	9.34546	0.5220723	1.3784	1.4652	9.37729	4.11844
12:28:57				170	9.34936	0.5159796	1.3784	1.41636	9.13309	4.06671
12:28:57				171	9.35131	0.5177432	1.3784	1.4652	8.54701	4.08133
12:28:58				172	9.34254	0.5203096	1.3784	1.4652	8.54701	4.10393
12:28:58				173	9.34643	0.5082842	1.3784	1.4652	8.88889	4.00232
12:28:59				174	9.3552	0.4972213	1.3784	1.4652	8.35165	3.90847
12:28:59				175	9.40202	0.4993048	1.4768	1.41636	9.37729	3.92084

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:29:00				176	9.41662	0.499144	1.4768	1.41636	9.23077	3.9179
12:29:00				177	9.38741	0.4938543	1.3784	2.10012	9.18193	3.87677
12:29:01				178	9.38443	0.4964186	1.3784	1.4652	8.84005	3.89857
12:29:01				179	9.49263	0.4935336	1.4768	1.4652	8.79121	3.86277
12:29:02				180	9.41273	0.5005879	1.3784	1.41636	8.79121	3.93043
12:29:02				181	9.37761	0.4914487	1.2801	5.76313	8.64469	3.85768
12:29:03				182	9.45172	0.4893643	1.3784	1.51404	8.74237	3.83232
12:29:03				183	9.47312	0.490327	1.4768	1.41636	8.69353	3.83808
12:29:04				184	9.42733	0.501389	1.3784	7.81441	8.98657	3.93554
12:29:04				185	9.40104	0.490487	1.2801	1.4652	8.84005	3.84712
12:29:05				186	9.37761	0.4970607	1.4768	1.4652	8.84005	3.90469
12:29:05				187	9.37274	0.4967397	1.4768	1.41636	8.93773	3.90252
12:29:06				188	9.36592	0.4986636	1.4768	1.41636	8.93773	3.9194
12:29:06				189	9.36982	0.4943352	1.3784	1.4652	9.03541	3.88269
12:29:07				190	9.41857	0.495618	1.3784	1.4652	8.98657	3.88817
12:29:07				191	9.44393	0.4964185	1.3784	1.4652	8.69353	3.89213
12:29:08				192	9.44783	0.5001069	1.3784	1.4652	8.88889	3.92257
12:29:08				193	9.43025	0.4993047	1.3784	1.4652	9.08425	3.91777
12:29:09				194	9.41565	0.5058791	1.4768	1.4652	8.59585	3.97445
12:29:09				195	9.41565	0.495618	1.3784	1.4652	9.86569	3.88849
12:29:10				196	9.37664	0.5004271	1.3784	1.4652	8.49817	3.93302
12:29:10				197	9.39617	0.515819	1.3784	1.41636	8.88889	4.06007
12:29:11				198	9.42733	0.5037946	1.4768	1.41636	8.69353	3.95569
12:29:11				199	9.42733	0.5037946	1.4768	1.4652	8.49817	3.95569
12:29:12				200	9.41175	0.5129332	1.3784	1.41636	8.64469	4.03408
12:29:12				201	9.41662	0.5119717	1.3784	1.4652	9.03541	4.02546
12:29:13				202	9.41759	0.5061985	1.3784	1.4652	8.44933	3.97692
12:29:13				203	9.39617	0.500908	1.3784	1.41636	8.49817	3.93492
12:29:14				204	9.37566	0.5315333	1.3784	1.4652	8.84005	4.19467
12:29:14				205	9.40202	0.5126126	1.4768	1.4652	9.23077	4.03247
12:29:15				206	9.38644	0.5097269	1.4768	1.41636	8.25397	4.00998
12:29:15				207	9.40494	0.5340986	1.3784	1.41636	8.74237	4.21287
12:29:16				208	9.41175	0.5199877	1.3784	1.41636	8.64469	4.09334
12:29:16				209	9.42149	0.525601	1.3784	1.41636	8.49817	4.13942
12:29:17				210	9.41078	0.5535035	1.3784	1.4652	8.59585	4.37588
12:29:17				211	9.41954	0.552862	1.3784	1.4652	8.59585	4.3694
12:29:18				212	9.42733	0.5538243	1.4768	1.4652	8.30281	4.37657
12:29:18				213	9.44004	0.6176649	1.2801	1.4652	8.30281	4.91647
12:29:19				214	9.47117	0.6033865	1.3784	1.41636	8.05861	4.7908
12:29:19				215	9.52082	0.5899111	1.3784	1.4652	8.25397	4.66999
12:29:20				216	9.50333	0.5780416	1.3784	1.41636	7.86325	4.5718
12:29:20				217	9.48874	0.5969698	1.3784	1.4652	8.15629	4.734
12:29:21				218	9.49749	0.5794851	1.4768	1.4652	9.47497	4.58474
12:29:21				219	9.48485	0.5599177	1.3784	1.4652	8.20513	4.42099
12:29:22				220	9.45561	0.5525413	1.3784	1.4652	8.15629	4.36232

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:29:22				221	9.45853	0.5592759	1.3784	1.41636	8.59585	4.4188
12:29:23				222	9.46242	0.5668141	1.4768	1.4652	7.96093	4.482
12:29:23				223	9.47215	0.5724284	1.3784	1.41636	7.86325	4.52826
12:29:24				224	9.46826	0.6045088	1.3784	1.4652	8.15629	4.80072
12:29:24				225	9.50624	0.5971303	1.3784	1.4652	8.10745	4.73306
12:29:25				226	9.50721	0.5867044	1.4768	1.4652	7.17949	4.64459
12:29:25				227	9.47895	0.5850996	1.3784	1.41636	7.32601	4.63465
12:29:26				228	9.46728	0.6064343	1.3784	1.41636	7.66789	4.81722
12:29:26				229	9.48874	0.627611	1.3784	1.4652	7.81441	4.99449
12:29:27				230	9.52179	0.5916764	1.4768	1.4652	7.47253	4.68481
12:29:27				231	9.49069	0.577881	1.3784	1.4652	7.32601	4.57204
12:29:28				232	9.47701	0.5741919	1.3784	1.4652	7.47253	4.54257
12:29:28				233	9.46534	0.5757965	1.3784	1.4652	7.47253	4.55762
12:29:29				234	9.46534	0.5818921	1.3784	1.41636	7.32601	4.60923
12:29:29				235	9.48284	0.5974514	1.2801	1.4652	7.27717	4.73887
12:29:30				236	9.50041	0.6033865	1.3784	1.4652	7.13065	4.78691
12:29:30				237	9.51207	0.608681	1.3784	1.4652	6.98413	4.8303
12:29:31				238	9.51499	0.6053109	1.3784	1.41636	6.64225	4.8013
12:29:31				239	9.52082	0.6308194	1.3784	1.4652	6.93529	5.01736
12:29:32				240	9.52763	0.6261679	1.3784	1.41636	7.22833	4.97682
12:29:32				241	9.53838	0.6056315	1.4768	1.4652	7.47253	4.8009
12:29:33				242	9.50624	0.6106052	1.3784	1.41636	7.27717	4.84743
12:29:33				243	9.51791	0.6189484	1.3784	1.4652	7.57021	4.91675
12:29:34				244	9.5286	0.6154186	1.4768	1.4652	7.32601	4.88529
12:29:35				247	9.52969	0.6073863	1.3784	1.41636	7.27717	4.81695
12:29:36				248	9.53261	0.6048204	1.3784	1.4652	7.66789	4.7948
12:29:36				249	9.53163	0.6001685	1.3784	1.41636	7.37485	4.75548
12:29:37				250	9.51991	0.6004883	1.3784	1.4652	7.47253	4.75974
12:29:37				251	9.52283	0.6046593	1.3784	1.41636	7.37485	4.79473
12:29:38				252	9.52872	0.5984043	1.3784	1.4652	7.47253	4.74091
12:29:38				253	9.52483	0.5955169	1.4768	1.41636	6.98413	4.71695
12:29:39				254	9.51505	0.5778723	1.3784	1.4652	7.47253	4.56888
12:29:39				255	9.4995	0.5881369	1.3784	1.4652	7.61905	4.65773
12:29:40				256	9.4995	0.5740229	1.3784	1.41636	7.52137	4.5383
12:29:40				257	9.49172	0.6014516	1.4768	1.41636	7.47253	4.77163
12:29:41				258	9.50436	0.595517	1.3784	1.41636	7.47253	4.71963
12:29:41				259	9.4888	0.5844476	1.3784	1.4652	7.17949	4.62786
12:29:42				260	9.48005	0.613803	1.3784	1.4652	7.52137	4.87815
12:29:42				261	9.49755	0.6086705	1.3784	1.4652	7.57021	4.83216
12:29:43				262	9.51116	0.5993666	1.3784	1.41636	7.03297	4.75138
12:29:43				263	9.51602	0.5948737	1.3784	1.41636	6.93529	4.71265
12:29:44				264	9.50047	0.5911858	1.3784	1.4652	7.08181	4.68343
12:29:44				265	9.49269	0.5881369	1.3784	1.4652	7.32601	4.65861
12:29:45				266	9.50241	0.5931108	1.3784	1.4652	7.66789	4.69949
12:29:45				267	9.50436	0.5911858	1.4768	1.41636	7.13065	4.68292

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:29:46				268	9.49464	0.5619938	1.3784	1.41636	7.42369	4.43731
12:29:46				269	9.47908	0.5765889	1.3784	1.4652	7.42369	4.56258
12:29:47				270	9.46734	0.5724181	1.4768	1.4652	7.42369	4.52877
12:29:47				271	9.45372	0.566163	1.3784	1.41636	7.52137	4.47759
12:29:48				272	9.4401	0.5422684	1.3784	1.41636	7.52137	4.27756
12:29:48				273	9.4255	0.5473996	1.4768	1.41636	7.86325	4.32256
12:29:49				274	9.41181	0.5478811	1.3784	1.4652	7.52137	4.32828
12:29:49				275	9.40987	0.5421073	1.3784	1.4652	7.61905	4.27979
12:29:50				276	9.4011	0.5318453	1.3784	1.41636	7.71673	4.19433
12:29:50				277	9.39429	0.5074732	1.3784	1.4652	7.96093	3.99019
12:29:51				278	9.37189	0.5076347	1.4768	1.4652	8.15629	3.99403
12:29:51				279	9.35429	0.5134058	1.4768	1.4652	8.44933	4.04449
12:29:52				280	9.33577	0.509397	1.3784	1.4652	8.05861	4.01287
12:29:52				281	9.32798	0.4957703	1.3784	1.41636	8.30281	3.89925
12:29:53				282	9.32603	0.5044279	1.3784	1.41636	8.00977	3.97218
12:29:53				283	9.31719	0.5074733	1.4768	1.4652	7.81441	3.99875
12:29:54				284	9.31037	0.4989768	1.3784	1.4652	8.15629	3.92809
12:29:54				285	9.31622	0.5063517	1.3784	1.41636	8.25397	3.98943
12:29:55				286	9.31427	0.5138869	1.3784	1.4652	8.88889	4.05306
12:29:55				287	9.31914	0.5127647	1.4768	1.41636	8.40049	4.04305
12:29:56				288	9.3231	0.5174151	1.3784	1.4652	8.25397	4.08177
12:29:56				289	9.3309	0.5472399	1.3784	1.4652	8.35165	4.3326
12:29:57				290	9.35234	0.5473998	1.2801	1.41636	8.74237	4.33138
12:29:57				291	9.38552	0.5483626	1.4768	1.4652	8.49817	4.3355
12:29:58				292	9.40792	0.5469184	1.3784	1.4652	8.15629	4.32062
12:29:58				293	9.41181	0.5695324	1.2801	1.41636	8.00977	4.51134
12:29:59				294	9.41279	0.5584649	1.3784	1.4652	7.86325	4.41757
12:29:59				295	9.42356	0.5632763	1.4768	1.4652	7.71673	4.45692
12:30:00				296	9.41084	0.5494843	1.3784	1.4652	7.76557	4.34193
12:30:00				297	9.40695	0.5765891	1.3784	1.4652	8.10745	4.57174
12:30:01				298	9.41181	0.5485225	1.4768	1.4652	7.91209	4.33368
12:30:01				299	9.40695	0.5550978	1.3784	1.41636	7.96093	4.38982
12:30:02				300	9.41473	0.5817208	1.3784	1.4652	7.42369	4.61426
12:30:02				301	9.45664	0.6110762	1.3784	1.4652	7.52137	4.85812
12:30:03				302	9.48783	0.5822021	1.3784	1.4652	6.98413	4.60897
12:30:03				303	9.46832	0.5759467	1.3784	1.41636	6.59341	4.55851
12:30:04				304	9.46053	0.6107564	1.3784	1.4652	6.88645	4.85487
12:30:04				305	9.4781	0.6276004	1.3784	1.4652	7.32601	4.99588
12:30:05				306	9.51602	0.6109162	1.4768	1.41636	7.22833	4.84875
12:30:05				307	9.50533	0.5982438	1.4768	1.41636	7.13065	4.74262
12:30:06				308	9.50241	0.5783527	1.3784	1.4652	7.13065	4.57454
12:30:06				309	9.4781	0.5544557	1.2801	1.4652	7.22833	4.37574
12:30:07				310	9.43913	0.5408255	1.0833	1.4652	7.66789	4.26553
12:30:07				311	9.34065	0.5089171	0.9849	1.41636	8.35165	4.00831
12:30:08				312	9.29769	0.4960912	0.8865	1.4652	8.88889	3.90527

Table B-1. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Star Princess (7/10/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:30:08				313	9.29184	0.4847084	0.7881	1.4652	8.98657	3.81037
12:30:09				314	9.23421	0.5012217	0.6898	1.4652	11.18437	3.95538
12:30:09				315	9.22146	0.0560296	0.5914	1.4652	10.25641	0.39458
12:30:10				316	9.22445	0.309428	0.6898	1.41636	4.1514	2.36867
12:30:10				317	9.23031	0.2961389	0.6898	0	0	2.26062
12:30:11	12:29:20 switch off			318	9.24202	0.1593103	0.6898	0	0	1.17474

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:38	10:39:20 switch on			7	9.66713	0.5417575	1.1817	0	0	4.24646
10:40:39				8	9.65058	0.5419169	1.1817	0	0	4.24974
10:40:39				9	9.63214	0.5452863	1.2801	0	0	4.28015
10:40:40				10	9.62626	0.5451266	1.2801	0	0	4.27951
10:40:40				11	9.6302	0.541276	1.2801	0	0	4.24676
10:40:41				12	9.62923	0.5422375	1.2801	0	0	4.25493
10:40:41				13	9.62432	0.5441637	1.1817	0	0	4.27167
10:40:42				14	9.62826	0.544325	1.2801	0	0	4.27255
10:40:42				15	9.62826	0.541917	1.2801	0	0	4.25236
10:40:43				16	9.62529	0.5440041	1.2801	0	0	4.27021
10:40:43				17	9.62432	0.5451266	1.2801	0	0	4.27974
10:40:44				18	9.6302	0.5414354	1.2801	0	0	4.24809
10:40:44				19	9.6302	0.544967	1.2801	0	0	4.2777
10:40:45				20	9.62141	0.5451267	1.2801	0	0	4.28008
10:40:45				21	9.62826	0.5420781	1.2801	0	0	4.25371
10:40:46				22	9.62335	0.541115	1.2801	0	0	4.24621
10:40:46				23	9.62335	0.5440041	1.2801	0	0	4.27044
10:40:47				24	9.62729	0.544325	1.2801	0	0	4.27266
10:40:47				25	9.62826	0.5440041	1.2801	0	0	4.26986
10:40:48				26	9.63505	0.5415965	1.2801	0	0	4.24887
10:40:48				27	9.63602	0.541115	1.2801	0	0	4.24472
10:40:49				28	9.6302	0.5438428	1.2801	0	0	4.26827
10:40:49				29	9.61752	0.544325	1.2801	0	0	4.27382
10:40:50				30	9.61461	0.543522	1.2801	0	0	4.26743
10:40:50				31	9.62044	0.5401524	1.2801	0	0	4.23848
10:40:51				32	9.62335	0.5432012	1.2801	0	0	4.2637
10:40:51				33	9.61947	0.54304	1.2801	0	0	4.26281
10:40:52				34	9.61073	0.5415965	1.2801	0	0	4.25173
10:40:52				35	9.62141	0.5398305	1.2801	0	0	4.23567
10:40:53				36	9.62529	0.54304	1.2801	0	0	4.26212
10:40:53				37	9.61655	0.54304	1.2801	0	0	4.26315
10:40:54				38	9.61752	0.5420781	1.2801	0	0	4.25497
10:40:54				39	9.62141	0.541276	1.2801	0	0	4.24779
10:40:55				40	9.62044	0.541917	1.2801	0	0	4.25328
10:40:55				41	9.62044	0.5433607	1.2801	0	0	4.26538
10:40:56				42	9.61073	0.543522	1.2801	0	0	4.26788
10:40:56				43	9.61364	0.541115	1.2801	0	0	4.24735
10:40:57				44	9.61947	0.5404726	1.2801	0	0	4.24128
10:40:57				45	9.61752	0.5432012	1.2801	0	0	4.26439
10:40:58				46	9.61947	0.5427193	1.2801	0	0	4.26012
10:40:58				47	9.62141	0.5404726	1.2801	0	0	4.24106
10:40:59				48	9.62044	0.5398305	1.2801	0	0	4.23579
10:40:59				49	9.61655	0.5428805	1.2801	0	0	4.26182
10:41:00				50	9.61849	0.5425598	1.3784	0	0	4.25889
10:41:00				51	9.61655	0.540954	1.3784	0	0	4.24565

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:01				52	9.61752	0.5379054	1.2801	0	0	4.21999
10:41:01				53	9.60976	0.5383878	1.2801	0	0	4.22494
10:41:02				54	9.60102	0.5404727	1.2801	0	0	4.24345
10:41:02				55	9.60296	0.5415965	1.3784	0	0	4.25264
10:41:03				56	9.59811	0.5371034	1.2801	0	0	4.21554
10:41:03				57	9.59908	0.5369427	1.2801	0	0	4.21408
10:41:04				58	9.59908	0.538227	1.2801	0	0	4.22485
10:41:04				59	9.59908	0.5390294	1.2801	0	0	4.23157
10:41:05				60	9.60199	0.5401524	1.2801	0	0	4.24065
10:41:05				61	9.60005	0.538227	1.2801	0	0	4.22473
10:41:06				62	9.60102	0.5369427	1.2801	0	0	4.21385
10:41:06				63	9.60199	0.5393495	1.1817	0	0	4.23392
10:41:07				64	9.60296	0.5391903	1.2801	0	0	4.23247
10:41:07				65	9.60588	0.538227	1.2801	0	0	4.22405
10:41:08				66	9.60394	0.538227	1.2801	0	0	4.22428
10:41:08				67	9.60976	0.5390294	1.2801	0	0	4.23032
10:41:09				68	9.6117	0.5382269	1.2801	0	0	4.22337
10:41:09				69	9.6117	0.5390294	1.2801	0	0	4.2301
10:41:10				70	9.60782	0.5393495	1.2801	0	0	4.23323
10:41:10				71	9.60879	0.5390294	1.2801	0	0	4.23044
10:41:11				72	9.60879	0.5395104	1.2801	0	0	4.23447
10:41:11				73	9.61073	0.5391903	1.2801	0	0	4.23156
10:41:12				74	9.60879	0.5377446	1.2801	0	0	4.21967
10:41:12				75	9.60588	0.5396713	1.2801	0	0	4.23616
10:41:13				76	9.60491	0.5393495	1.2801	0	0	4.23358
10:41:13				77	9.60685	0.5369427	1.2801	0	0	4.21317
10:41:14				78	9.60685	0.5379054	1.2801	0	0	4.22124
10:41:14				79	9.60296	0.5391903	1.2801	0	0	4.23247
10:41:15				80	9.60296	0.5383878	1.2801	0	0	4.22574
10:41:15				81	9.60588	0.5366214	1.2801	0	0	4.21059
10:41:16				82	9.60199	0.5383878	1.2801	0	0	4.22585
10:41:16				83	9.60296	0.5390294	1.2801	0	0	4.23112
10:41:17				84	9.60005	0.5371034	1.2801	0	0	4.21531
10:41:17				85	9.60102	0.5380662	1.2801	0	0	4.22327
10:41:18				86	9.60199	0.5380662	1.2801	0	0	4.22316
10:41:18				87	9.60199	0.5363018	1.2801	0	0	4.20837
10:41:19				88	9.60102	0.5385469	1.2801	0	0	4.2273
10:41:19				89	9.59714	0.5387077	1.2801	0	0	4.2291
10:41:20				90	9.60491	0.53582	1.2801	0	0	4.20399
10:41:20				91	9.60394	0.5356594	1.2801	0	0	4.20276
10:41:21				92	9.59908	0.5371034	1.2801	0	0	4.21543
10:41:21				93	9.59714	0.5367821	1.2801	0	0	4.21296
10:41:22				94	9.60394	0.5354988	1.2801	0	0	4.20141
10:41:22				95	9.60199	0.5350172	1.2801	0	0	4.1976
10:41:23				96	9.60005	0.5342148	1.2801	0.58608	0.2442	4.1911

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:23				97	9.59714	0.5343752	1.2801	0.34188	0.04884	4.19278
10:41:24				98	9.60296	0.5345357	1.2801	1.4652	0.9768	4.19345
10:41:24				99	9.60491	0.5343752	1.2801	1.41636	6.59341	4.19188
10:41:25				100	9.60394	0.5340543	1.2801	1.4652	6.93529	4.18931
10:41:25				101	9.60296	0.5348567	1.2801	1.41636	6.83761	4.19614
10:41:26				102	9.60296	0.5343752	1.2801	1.41636	6.73993	4.19211
10:41:26				103	9.60394	0.5337335	1.2801	1.36752	6.88645	4.18662
10:41:27				104	9.59811	0.5345357	1.2801	1.41636	7.27717	4.19402
10:41:27				105	9.60005	0.5342148	1.2801	1.41636	6.78877	4.1911
10:41:28				106	9.60199	0.5342148	1.2801	1.41636	6.93529	4.19088
10:41:28				107	9.60394	0.5340543	1.2801	1.4652	7.08181	4.18931
10:41:29				108	9.60199	0.5345357	1.2801	1.41636	6.88645	4.19357
10:41:29				109	9.60296	0.5343752	1.2801	1.41636	6.69109	4.19211
10:41:30				110	9.60296	0.5351777	1.2801	1.41636	6.83761	4.19883
10:41:30				111	9.60199	0.5345357	1.2801	1.41636	6.93529	4.19357
10:41:31				112	9.60199	0.5348567	1.2801	1.41636	6.93529	4.19626
10:41:31				113	9.60199	0.5345357	1.2801	1.41636	6.73993	4.19357
10:41:32				114	9.60199	0.5345357	1.2801	1.41636	6.69109	4.19357
10:41:32				115	9.60199	0.5345357	1.2801	1.41636	6.78877	4.19357
10:41:33				116	9.59908	0.5342148	1.2801	1.4652	6.88645	4.19121
10:41:33				117	9.59617	0.5340543	1.2801	1.4652	6.93529	4.19021
10:41:34				118	9.59617	0.5342148	1.3784	1.41636	6.69109	4.19155
10:41:34				119	9.59908	0.5343752	1.2801	1.41636	6.69109	4.19256
10:41:35				120	9.59908	0.5337335	1.2801	1.41636	6.64225	4.18718
10:41:35				121	9.59714	0.5342148	1.2801	1.41636	6.64225	4.19144
10:41:36				122	9.59714	0.5343752	1.2801	1.41636	6.73993	4.19278
10:41:36				123	9.59811	0.5356594	1.2801	1.36752	6.83761	4.20343
10:41:37				124	9.59908	0.5345357	1.2801	1.41636	6.83761	4.1939
10:41:38				127	9.60218	0.5328253	1.2801	1.41636	6.69109	4.17921
10:41:39				128	9.59829	0.5315414	1.2801	1.41636	6.78877	4.16891
10:41:39				129	9.58955	0.5325046	1.2801	1.4652	6.88645	4.17799
10:41:40				130	9.59247	0.5317016	1.2801	1.41636	6.78877	4.17092
10:41:40				131	9.59053	0.5320221	1.2801	1.4652	6.73993	4.17383
10:41:41				132	9.58761	0.5323443	1.2801	1.4652	6.73993	4.17687
10:41:41				133	9.58858	0.5315414	1.2801	1.41636	6.73993	4.17003
10:41:42				134	9.59247	0.5323443	1.2801	1.41636	6.88645	4.17631
10:41:42				135	9.59247	0.5284946	1.2801	1.41636	6.73993	4.14406
10:41:43				136	9.58567	0.5288162	1.2801	1.41636	6.78877	4.14754
10:41:43				137	9.58373	0.5297781	1.2801	1.4652	6.78877	4.15582
10:41:44				138	9.58664	0.5294563	1.2801	1.41636	8.79121	4.15279
10:41:44				139	9.58276	0.5283346	1.2801	1.41636	6.93529	4.14384
10:41:45				140	9.5847	0.5284946	1.2801	1.41636	7.13065	4.14495
10:41:45				141	9.58179	0.5286546	1.2801	1.41636	7.03297	4.14663
10:41:46				142	9.58276	0.529618	1.2801	1.41636	6.64225	4.15459
10:41:46				143	9.58664	0.5292962	1.2801	1.41636	6.49573	4.15144

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:47				144	9.58567	0.5284946	1.2801	1.36752	6.83761	4.14484
10:41:47				145	9.58179	0.5284946	1.2801	1.41636	6.83761	4.14529
10:41:48				146	9.58179	0.5288162	1.2801	1.41636	6.78877	4.14798
10:41:48				147	9.58373	0.5291362	1.2801	1.41636	6.64225	4.15044
10:41:49				148	9.5847	0.5292962	1.2801	1.36752	6.83761	4.15167
10:41:49				149	9.58373	0.5292962	1.2801	1.41636	6.54457	4.15178
10:41:50				150	9.58567	0.5291362	1.2801	1.41636	6.69109	4.15022
10:41:50				151	9.58664	0.5289762	1.2801	1.41636	6.83761	4.14876
10:41:51				152	9.58567	0.5288162	1.2801	1.41636	6.88645	4.14754
10:41:51				153	9.58761	0.5291362	1.2801	1.41636	6.73993	4.14999
10:41:52				154	9.58858	0.5289762	1.2801	1.41636	6.73993	4.14854
10:41:52				155	9.58567	0.5292962	1.2801	1.41636	6.88645	4.15156
10:41:53				156	9.58567	0.529618	1.2801	1.41636	6.83761	4.15425
10:41:53				157	9.58761	0.529618	1.2801	1.41636	6.78877	4.15403
10:41:54				158	9.58664	0.5299381	1.2801	1.36752	6.78877	4.15682
10:41:54				159	9.58664	0.5313812	1.2801	1.36752	6.73993	4.16891
10:41:55				160	9.59053	0.5307404	1.2801	1.36752	6.64225	4.1631
10:41:55				161	9.59053	0.5313812	1.2801	1.41636	6.73993	4.16846
10:41:56				162	9.59053	0.5312209	1.2801	1.36752	6.78877	4.16712
10:41:56				163	9.58955	0.5307404	1.2801	1.41636	6.83761	4.16321
10:41:57				164	9.58955	0.5307404	1.2801	1.41636	6.88645	4.16321
10:41:57				165	9.5915	0.5302583	1.2801	1.41636	6.69109	4.15894
10:41:58				166	9.59053	0.5307404	1.2801	1.41636	6.88645	4.1631
10:41:58				167	9.58761	0.531221	1.2801	1.4652	7.13065	4.16746
10:41:59				168	9.58955	0.5313812	1.2801	1.41636	6.78877	4.16857
10:41:59				169	9.5915	0.5320221	1.2801	1.41636	6.69109	4.17372
10:42:00				170	9.59247	0.5325046	1.2801	1.41636	6.69109	4.17765
10:42:00				171	9.59344	0.5325046	1.2801	1.41636	7.08181	4.17754
10:42:01				172	9.5915	0.5326649	1.2801	1.41636	6.83761	4.17911
10:42:01				173	9.59538	0.5328253	1.2801	1.4652	6.78877	4.18
10:42:02				174	9.59635	0.532184	1.3784	1.41636	6.69109	4.17451
10:42:02				175	9.59635	0.5326649	1.2801	1.4652	6.78877	4.17855
10:42:03				176	9.59635	0.5323443	1.2801	1.41636	6.83761	4.17586
10:42:03				177	9.59635	0.5339479	1.2801	1.41636	6.83761	4.1893
10:42:04				178	9.59635	0.5345881	1.2801	1.4652	6.69109	4.19466
10:42:04				179	9.59635	0.5334667	1.2801	1.4652	6.88645	4.18526
10:42:05				180	9.59829	0.5337875	1.2801	1.41636	6.73993	4.18773
10:42:05				181	9.59926	0.5341084	1.2801	1.41636	6.73993	4.1903
10:42:06				182	9.60023	0.5352301	1.2801	1.41636	6.93529	4.19959
10:42:06				183	9.59926	0.5345881	1.2801	1.41636	6.93529	4.19432
10:42:07				184	9.6012	0.5345881	1.2801	1.4652	6.64225	4.1941
10:42:07				185	9.60218	0.5352301	1.2801	1.41636	6.59341	4.19936
10:42:08				186	9.60218	0.5350696	1.2801	1.41636	6.64225	4.19802
10:42:08				187	9.608	0.534909	1.2801	1.41636	6.88645	4.196
10:42:09				188	9.60509	0.5347485	1.2801	1.4652	6.83761	4.19499

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:09				189	9.61188	0.5352301	1.2801	1.41636	6.69109	4.19823
10:42:10				190	9.61577	0.5342688	1.3784	1.41636	6.83761	4.18972
10:42:10				191	9.61771	0.534909	1.3784	1.41636	6.78877	4.19486
10:42:11				192	9.61674	0.5350695	1.2801	1.41636	6.83761	4.19633
10:42:11				193	9.61771	0.534909	1.2801	1.41636	6.73993	4.19487
10:42:12				194	9.61577	0.534588	1.2801	1.36752	6.83761	4.1924
10:42:12				195	9.61577	0.5341083	1.2801	1.41636	6.83761	4.18839
10:42:13				196	9.61577	0.5341083	1.2801	1.41636	6.83761	4.18839
10:42:13				197	9.61188	0.5310607	1.2801	1.41636	6.73993	4.16331
10:42:14				198	9.60703	0.5323443	1.2801	1.41636	6.78877	4.17462
10:42:14				199	9.60897	0.5329856	1.2801	1.4652	6.78877	4.17977
10:42:15				200	9.60897	0.5329856	1.2801	1.41636	6.78877	4.17977
10:42:15				201	9.60994	0.5331459	1.2801	1.41636	6.93529	4.181
10:42:16				202	9.60897	0.5329856	1.2801	1.4652	6.73993	4.17977
10:42:16				203	9.60897	0.5331459	1.2801	1.41636	6.73993	4.18111
10:42:17				204	9.608	0.5333063	1.2801	1.41636	6.83761	4.18257
10:42:17				205	9.608	0.5337875	1.2801	1.41636	6.69109	4.1866
10:42:18				206	9.608	0.5339479	1.2801	1.41636	6.64225	4.18794
10:42:18				207	9.60897	0.5337875	1.2801	1.41636	6.73993	4.18649
10:42:19				208	9.61091	0.5341083	1.2801	1.4652	6.83761	4.18895
10:42:19				209	9.61188	0.5336271	1.2801	1.41636	6.73993	4.18481
10:42:20				210	9.61091	0.5341083	1.2801	1.41636	6.78877	4.18895
10:42:20				211	9.60897	0.5336271	1.2801	1.41636	6.88645	4.18514
10:42:21				212	9.608	0.5337875	1.2801	1.36752	6.88645	4.1866
10:42:21				213	9.61091	0.5339479	1.2801	1.41636	6.78877	4.18761
10:42:22				214	9.61091	0.5336271	1.2801	1.41636	6.59341	4.18492
10:42:22				215	9.60994	0.5313811	1.2801	1.41636	6.69109	4.16622
10:42:23				216	9.60218	0.532184	1.2801	1.41636	6.78877	4.17384
10:42:23				217	9.60315	0.532184	1.2801	1.41636	7.17949	4.17373
10:42:24				218	9.60412	0.5323443	1.2801	1.4652	6.88645	4.17496
10:42:24	10:41:09 start transect	10.0	180	219	9.60412	0.5342688	1.2801	1.41636	6.88645	4.19108
10:42:25				220	9.60703	0.5337875	1.2801	1.41636	7.13065	4.18671
10:42:25				221	9.60703	0.5333063	1.2801	1.41636	6.88645	4.18268
10:42:26				222	9.60606	0.5337875	1.2801	1.41636	6.88645	4.18683
10:42:26				223	9.60703	0.5337875	1.2801	1.4652	6.83761	4.18671
10:42:27				224	9.608	0.5339479	1.2801	1.41636	7.17949	4.18794
10:42:27				225	9.608	0.5307404	1.2801	1.4652	7.22833	4.16108
10:42:28				226	9.60509	0.5317016	1.1817	1.36752	7.08181	4.16947
10:42:28				227	9.60218	0.5313811	1.2801	1.41636	7.17949	4.16712
10:42:29				228	9.60218	0.5313811	1.2801	1.41636	7.08181	4.16712
10:42:29				229	9.60315	0.5312209	1.2801	1.41636	7.08181	4.16566
10:42:30				230	9.60412	0.5304184	1.1817	1.41636	6.78877	4.15884
10:42:30				231	9.60412	0.529778	1.1817	1.41636	6.88645	4.15348
10:42:31				232	9.60023	0.529618	1.1817	1.4652	7.76557	4.15258
10:42:31				233	9.59829	0.5284946	1.2801	1.41636	7.08181	4.14339

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:32				234	9.59344	0.5286545	1.2801	1.4652	6.88645	4.14529
10:42:32				235	9.59053	0.5262497	1.1817	1.41636	6.98413	4.1255
10:42:33				236	9.59053	0.5227214	1.1817	1.41636	7.22833	4.09597
10:42:33				237	9.58761	0.5219192	1.1817	1.41636	7.22833	4.08959
10:42:34				238	9.58761	0.5212784	1.1817	1.41636	7.03297	4.08422
10:42:34				239	9.58761	0.5195148	1.2801	1.41636	7.13065	4.06947
10:42:35				240	9.58858	0.5203159	1.2801	1.41636	6.98413	4.07606
10:42:35				241	9.58761	0.5198348	1.1817	1.41636	7.08181	4.07215
10:42:36				242	9.5847	0.5198348	1.1817	1.4652	7.17949	4.07248
10:42:36				243	9.58858	0.5195148	1.1817	1.41636	7.13065	4.06936
10:42:37				244	9.58761	0.5198348	1.1817	1.41636	7.03297	4.07215
10:42:38				247	9.5867	0.5199388	1.2801	1.4652	7.03297	4.07312
10:42:39				248	9.58476	0.5197779	1.2801	1.41636	7.27717	4.07199
10:42:39				249	9.58476	0.5192969	1.2801	1.41636	7.03297	4.06797
10:42:40				250	9.58767	0.5196187	1.2801	1.36752	7.03297	4.07033
10:42:40				251	9.58573	0.5200997	1.2801	1.41636	6.88645	4.07457
10:42:41				252	9.58476	0.5257117	1.2801	1.41636	6.98413	4.12164
10:42:41				253	9.58961	0.5231461	1.2801	1.4652	7.08181	4.09962
10:42:42				254	9.5867	0.5261926	1.2801	1.41636	7.03297	4.12545
10:42:42				255	9.5867	0.5265138	1.2801	1.41636	6.93529	4.12814
10:42:43				256	9.58767	0.5298809	1.2801	1.41636	7.13065	4.15622
10:42:43				257	9.58864	0.5282774	1.1817	1.41636	6.88645	4.14269
10:42:44				258	9.58961	0.5273146	1.1817	1.4652	7.13065	4.13451
10:42:44				259	9.5867	0.5318045	1.1817	1.41636	6.93529	4.17246
10:42:45				260	9.5935	0.5284373	1.2801	1.41636	6.88645	4.14346
10:42:45				261	9.59156	0.529559	1.2801	1.41636	6.78877	4.15308
10:42:46				262	9.59059	0.529399	1.2801	1.41636	6.88645	4.15185
10:42:46				263	9.58961	0.5297208	1.2801	1.4652	6.78877	4.15466
10:42:47				264	9.58864	0.5298809	1.2801	1.41636	7.03297	4.15611
10:42:47				265	9.58961	0.529559	1.1817	1.41636	6.93529	4.15331
10:42:48				266	9.58961	0.5300409	1.2801	1.41636	6.93529	4.15734
10:42:48				267	9.58767	0.5303612	1.2801	1.41636	6.83761	4.16025
10:42:49				268	9.59059	0.5305213	1.2801	1.4652	6.93529	4.16125
10:42:49				269	9.59059	0.5327662	1.1817	1.41636	6.73993	4.18007
10:42:50				270	9.59738	0.5346911	1.2801	1.41636	6.69109	4.1954
10:42:50				271	9.60224	0.5361344	1.2801	1.41636	6.88645	4.20694
10:42:51				272	9.60321	0.5350121	1.2801	1.41636	6.73993	4.19742
10:42:51				273	9.60321	0.5350121	1.2801	1.4652	6.78877	4.19742
10:42:52				274	9.60418	0.533568	1.2801	1.41636	6.78877	4.1852
10:42:52				275	9.60224	0.5356526	1.2801	1.41636	6.88645	4.2029
10:42:53				276	9.60224	0.5350121	1.2801	1.41636	6.73993	4.19753
10:42:53				277	9.60612	0.5353315	1.2801	1.41636	6.78877	4.19975
10:42:54				278	9.60612	0.5366146	1.2801	1.41636	6.78877	4.21051
10:42:54				279	9.61	0.536295	1.2801	1.4652	6.83761	4.20738
10:42:55				280	9.61	0.5372573	1.2801	1.41636	6.69109	4.21544

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:55				281	9.61	0.5366146	1.2801	1.41636	6.59341	4.21005
10:42:56				282	9.61194	0.5380577	1.2801	1.4652	6.78877	4.22192
10:42:56				283	9.61291	0.5404642	1.2801	1.41636	6.73993	4.24198
10:42:57				284	9.61583	0.5388601	1.2801	1.41636	6.98413	4.22819
10:42:57				285	9.61971	0.5391801	1.2801	1.41636	6.78877	4.23042
10:42:58				286	9.61874	0.5382185	1.3784	1.41636	6.64225	4.22247
10:42:58				287	9.6168	0.5375771	1.2801	1.4652	6.78877	4.21733
10:42:59				288	9.61874	0.5374164	1.1817	1.4652	6.88645	4.21576
10:42:59				289	9.6168	0.5378986	1.2801	1.41636	6.88645	4.22002
10:43:00				290	9.61777	0.5382185	1.2801	1.41636	6.98413	4.22259
10:43:00				291	9.61874	0.5377378	1.2801	1.4652	6.83761	4.21845
10:43:01				292	9.61874	0.5377378	1.2801	1.41636	6.88645	4.21845
10:43:01				293	9.61971	0.5420679	1.2801	1.41636	6.78877	4.25463
10:43:02				294	9.61971	0.5383793	1.3784	1.41636	6.83761	4.2237
10:43:02				295	9.62268	0.5378986	1.3784	1.41636	6.69109	4.21933
10:43:03				296	9.61874	0.5374164	1.1817	1.41636	6.78877	4.21576
10:43:03				297	9.61971	0.5374163	0.9849	1.4652	7.03297	4.21566
10:43:04				298	9.61874	0.5375771	0.8865	1.41636	6.78877	4.21713
10:43:04				299	9.61874	0.5375771	0.8865	1.41636	6.83761	4.21713
10:43:05				300	9.62268	0.5324455	0.7881	1.4652	7.66789	4.17369
10:43:05	10:41:50 end transect	10.0	270	301	9.62268	0.5375771	0.6898	1.41636	11.57509	4.21668
10:43:06				302	9.62656	0.1367164	0.5914	1.41636	5.27473	0.9899
10:43:06				303	9.6285	0.123444	0.3946	1.41636	3.80952	0.88934
10:43:07				304	9.63238	0.4380244	0.5914	0	0	3.38832
10:43:07				305	9.64015	0.537577	0.5914	0	0	4.21465
10:43:08				306	9.64791	0.537577	0.5914	0	0	4.21374
10:43:08	10:42:09 switch off			307	9.6547	0.537577	0.6898	0	0	4.21294
10:44:49	10:43:33 switch on	0.5	180	7	9.6259	0.5363	0.8865	0	0	4.20559
10:44:50				8	9.6259	0.5361394	0.8865	0	0	4.20425
10:44:50				9	9.62298	0.5348566	0.9849	0	0	4.19384
10:44:51				10	9.62687	0.5348566	0.9849	0	0	4.19339
10:44:51				11	9.61807	0.5351777	0.9849	0	0	4.1971
10:44:52				12	9.6171	0.5353382	1.0833	0	0	4.19855
10:44:52				13	9.61419	0.5350172	1.1817	0	0	4.19619
10:44:53				14	9.62201	0.5330936	1.1817	0	0	4.17917
10:44:53				15	9.61904	0.5334143	1.1817	0	0	4.1822
10:44:54				16	9.61419	0.5338955	1.1817	0	0	4.18679
10:44:54				17	9.61613	0.5330936	1.2801	0	0	4.17985
10:44:55				18	9.61904	0.5330936	1.1817	0	0	4.17952
10:44:55				19	9.61516	0.533254	1.2801	0	0	4.1813
10:44:56				20	9.61516	0.5337351	1.2801	0	0	4.18533
10:44:56				21	9.61613	0.533254	1.1817	0	0	4.1812
10:44:57				22	9.61904	0.5335747	1.1817	0	0	4.18354
10:44:57				23	9.61516	0.5338955	1.1817	0	0	4.18668

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:44:58				24	9.61516	0.5337351	1.2801	0	0	4.18533
10:44:58				25	9.61613	0.5335747	1.2801	0	0	4.18388
10:44:59				26	9.61322	0.5337351	1.2801	0	0	4.18556
10:44:59				27	9.61419	0.5337351	1.2801	0	0	4.18544
10:45:00				28	9.61419	0.5337351	1.3784	0	0	4.18544
10:45:00				29	9.61613	0.534056	1.3784	0	0	4.1879
10:45:01				30	9.61807	0.5345357	1.3784	0	0	4.19169
10:45:01				31	9.61904	0.5346961	1.3784	0	0	4.19292
10:45:02				32	9.61807	0.5343752	1.3784	0	0	4.19035
10:45:02				33	9.61516	0.5345357	1.3784	0	0	4.19203
10:45:03				34	9.61613	0.5346962	1.3784	0	0	4.19326
10:45:03				35	9.61516	0.5345357	1.4768	0	0	4.19202
10:45:04				36	9.6171	0.5346962	1.3784	0	0	4.19315
10:45:04				37	9.61613	0.5345357	1.3784	0	0	4.19192
10:45:05				38	9.61322	0.5345357	1.3784	0	0	4.19226
10:45:05				39	9.61322	0.5346962	1.4768	0	0	4.19359
10:45:06				40	9.61419	0.5345357	1.3784	0	0	4.19214
10:45:06				41	9.61419	0.5346962	1.3784	0	0	4.19349
10:45:07				42	9.61322	0.5346962	1.3784	0	0	4.1936
10:45:07				43	9.61419	0.5346962	1.3784	0	0	4.19349
10:45:08				44	9.61322	0.5346962	1.3784	0	0	4.1936
10:45:08				45	9.61225	0.5346962	1.3784	0	0	4.19371
10:45:09				46	9.61128	0.5346962	1.3784	0	0	4.19383
10:45:09				47	9.61225	0.5345357	1.3784	0	0	4.19237
10:45:10				48	9.61322	0.5343752	1.2801	0	0	4.19092
10:45:10				49	9.61322	0.5345357	1.3784	0	0	4.19226
10:45:11				50	9.61031	0.5345357	1.3784	0	0	4.19259
10:45:11				51	9.61225	0.534056	1.3784	0	0	4.18835
10:45:12				52	9.61225	0.5343752	1.3784	0	0	4.19102
10:45:12				53	9.61225	0.5342147	1.3784	0	0	4.18968
10:45:13				54	9.61419	0.534056	1.3784	0	0	4.18812
10:45:13				55	9.61128	0.5343752	1.3784	0	0	4.19114
10:45:14				56	9.61419	0.5343752	1.3784	0	0	4.1908
10:45:14				57	9.61031	0.534056	1.3784	0	0	4.18858
10:45:15				58	9.61128	0.5337351	1.3784	0	0	4.18578
10:45:15				59	9.61128	0.5335747	1.2801	0	0	4.18444
10:45:16				60	9.61322	0.534056	1.3784	0	0	4.18824
10:45:16				61	9.61516	0.5338956	1.3784	0	0	4.18667
10:45:17				62	9.61225	0.5337351	1.3784	0	0	4.18566
10:45:17				63	9.61419	0.5338956	1.3784	0	0	4.18678
10:45:18				64	9.61322	0.534056	1.3784	0	0	4.18824
10:45:18				65	9.61516	0.5338956	1.3784	0	0	4.18667
10:45:19				66	9.61516	0.534056	1.3784	0	0	4.18801
10:45:19				67	9.61516	0.534056	1.3784	0	0	4.18801
10:45:20				68	9.61419	0.5337351	1.3784	0	0	4.18544

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:20				69	9.61516	0.5337351	1.3784	0	0	4.18533
10:45:21				70	9.61516	0.5338955	1.2801	0	0	4.18668
10:45:21				71	9.61322	0.5338956	1.3784	0	0	4.18689
10:45:22				72	9.61225	0.5337351	1.3784	0	0	4.18566
10:45:22				73	9.61516	0.5338956	1.3784	0	0	4.18667
10:45:23				74	9.61419	0.5338956	1.4768	0	0	4.18677
10:45:23				75	9.61225	0.5337351	1.3784	0	0	4.18566
10:45:24				76	9.61322	0.5335747	1.3784	0	0	4.18421
10:45:24				77	9.61128	0.5338956	1.3784	0	0	4.18712
10:45:25				78	9.61322	0.5337351	1.3784	0	0	4.18555
10:45:25				79	9.61225	0.5334143	1.3784	0	0	4.18298
10:45:26				80	9.61225	0.5329333	1.3784	0	0	4.17895
10:45:26				81	9.61225	0.533254	1.3784	0	0	4.18163
10:45:27				82	9.61031	0.533254	1.4768	0	0	4.18185
10:45:27				83	9.61322	0.5326126	1.3784	0	0	4.17615
10:45:28				84	9.61128	0.5327729	1.2801	0	0	4.17772
10:45:28				85	9.61031	0.5329333	1.3784	0	0	4.17917
10:45:29				86	9.61128	0.5324523	1.4768	0	0	4.17502
10:45:29				87	9.61031	0.5321317	1.3784	0	0	4.17246
10:45:30				88	9.60836	0.5326126	1.3784	0	0	4.17671
10:45:30				89	9.60739	0.532292	1.3784	0	0	4.17414
10:45:31				90	9.61031	0.5324523	1.3784	0	0	4.17514
10:45:31				91	9.61031	0.5326126	1.3784	0	0	4.17649
10:45:32				92	9.61128	0.5321317	1.3784	0	0	4.17235
10:45:32				93	9.61225	0.532292	1.3784	0	0	4.17358
10:45:33				94	9.61031	0.532292	1.3784	0	0	4.1738
10:45:33				95	9.61128	0.5327729	1.4768	0	0	4.17771
10:45:34				96	9.60933	0.5321317	1.3784	0.53724	0.2442	4.17257
10:45:34				97	9.60254	0.5324523	1.3784	0.39072	0.09768	4.17604
10:45:35				98	9.61031	0.532292	1.3784	1.41636	0.92796	4.1738
10:45:35				99	9.60836	0.532292	1.3784	1.41636	6.73993	4.17403
10:45:36				100	9.61031	0.532292	1.4768	1.41636	7.13065	4.17379
10:45:36				101	9.61128	0.532292	1.3784	1.41636	7.27717	4.17369
10:45:37				102	9.61128	0.5324523	1.3784	1.41636	7.81441	4.17503
10:45:37				103	9.60933	0.532292	1.3784	1.41636	7.52137	4.17391
10:45:38				104	9.61031	0.532292	1.3784	1.41636	6.88645	4.1738
10:45:38				105	9.61128	0.5324523	1.3784	1.41636	6.93529	4.17503
10:45:39				106	9.60836	0.5324523	1.2801	1.41636	7.17949	4.17537
10:45:39				107	9.60836	0.5324523	1.3784	1.41636	7.22833	4.17537
10:45:40				108	9.60836	0.5324523	1.3784	1.41636	6.93529	4.17537
10:45:40				109	9.60933	0.5324523	1.2801	1.41636	6.93529	4.17526
10:45:41				110	9.60933	0.5324523	1.2801	1.41636	6.93529	4.17526
10:45:41				111	9.60836	0.5324523	1.3784	1.41636	7.08181	4.17537
10:45:42				112	9.60836	0.5324523	1.3784	1.41636	6.83761	4.17537
10:45:42				113	9.60836	0.5324523	1.3784	1.41636	6.98413	4.17537

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:43				114	9.60739	0.5324523	1.3784	1.41636	7.03297	4.17548
10:45:43				115	9.60933	0.5324523	1.2801	1.41636	6.88645	4.17526
10:45:44				116	9.61031	0.5326126	1.2801	1.4652	6.93529	4.17649
10:45:44				117	9.61031	0.5324523	1.3784	1.41636	6.93529	4.17514
10:45:45				118	9.61031	0.5324523	1.3784	1.41636	6.83761	4.17514
10:45:45				119	9.61128	0.5324523	1.2801	1.4652	6.83761	4.17504
10:45:46				120	9.60933	0.5324523	1.2801	1.41636	7.03297	4.17526
10:45:46				121	9.60933	0.5324523	1.3784	1.41636	6.93529	4.17526
10:45:47				122	9.60836	0.5324523	1.3784	1.41636	6.98413	4.17537
10:45:47				123	9.61031	0.5324523	1.2801	1.41636	7.17949	4.17515
10:45:48				124	9.61031	0.5324523	1.2801	1.41636	7.13065	4.17515
10:45:49				127	9.60982	0.5322869	1.4768	1.41636	7.13065	4.17381
10:45:50				128	9.60982	0.5324472	1.4768	1.4652	6.98413	4.17515
10:45:50				129	9.60885	0.5324472	1.5752	1.4652	7.17949	4.17526
10:45:51				130	9.60982	0.5324472	1.5752	1.41636	6.69109	4.17514
10:45:51				131	9.61079	0.5324472	1.5752	1.41636	6.98413	4.17503
10:45:52				132	9.61176	0.5322869	1.5752	1.41636	6.83761	4.17358
10:45:52				133	9.60982	0.532287	1.5752	1.41636	6.98413	4.1738
10:45:53				134	9.61079	0.5324472	1.5752	1.41636	7.13065	4.17503
10:45:53				135	9.61079	0.5324472	1.5752	1.41636	7.03297	4.17503
10:45:54				136	9.61176	0.5326075	1.5752	1.41636	6.88645	4.17626
10:45:54				137	9.61079	0.5324472	1.5752	1.4652	6.88645	4.17503
10:45:55				138	9.61079	0.5324472	1.5752	1.4652	6.78877	4.17503
10:45:55				139	9.61176	0.5327679	1.5752	1.41636	7.13065	4.1776
10:45:56				140	9.61176	0.5326075	1.5752	1.41636	6.98413	4.17626
10:45:56				141	9.61273	0.5326076	1.6736	1.41636	6.93529	4.17614
10:45:57				142	9.61176	0.5327679	1.5752	1.4652	7.03297	4.1776
10:45:57				143	9.61176	0.5326075	1.5752	1.4652	7.22833	4.17626
10:45:58				144	9.61176	0.5327679	1.6736	1.4652	6.93529	4.1776
10:45:58				145	9.61079	0.5327679	1.6736	1.41636	6.78877	4.17771
10:45:59				146	9.61176	0.5329282	1.5752	1.41636	6.88645	4.17895
10:45:59				147	9.61079	0.5329282	1.5752	1.41636	7.08181	4.17906
10:46:00				148	9.60788	0.5329282	1.6736	1.41636	6.93529	4.17939
10:46:00				149	9.61079	0.5329282	1.6736	1.4652	6.83761	4.17905
10:46:01				150	9.61079	0.5327679	1.5752	1.41636	6.88645	4.17772
10:46:01				151	9.61079	0.5326076	1.5752	1.41636	6.93529	4.17637
10:46:02				152	9.60885	0.5327679	1.6736	1.41636	7.13065	4.17794
10:46:02				153	9.60982	0.5327679	1.6736	1.36752	6.83761	4.17782
10:46:03				154	9.61079	0.5329282	1.6736	1.41636	7.17949	4.17905
10:46:03				155	9.61176	0.5329282	1.5752	1.41636	7.13065	4.17895
10:46:04				156	9.61176	0.5327679	1.5752	1.41636	6.98413	4.1776
10:46:04				157	9.60982	0.5327679	1.5752	1.41636	7.27717	4.17783
10:46:05				158	9.61079	0.5327679	1.6736	1.41636	6.98413	4.17771
10:46:05				159	9.60982	0.5327679	1.6736	1.41636	6.88645	4.17782
10:46:06				160	9.60982	0.5326076	1.5752	1.41636	6.98413	4.17649

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:06				161	9.60982	0.5324472	1.5752	1.4652	7.22833	4.17514
10:46:07				162	9.61176	0.5326076	1.6736	1.4652	6.93529	4.17626
10:46:07				163	9.61079	0.5326076	1.6736	1.4652	6.78877	4.17637
10:46:08				164	9.61176	0.5327679	1.5752	1.4652	7.03297	4.1776
10:46:08				165	9.61176	0.5326075	1.5752	1.4652	7.22833	4.17626
10:46:09				166	9.61079	0.5327679	1.6736	1.4652	6.93529	4.17771
10:46:09				167	9.61079	0.5327679	1.5752	1.4652	6.88645	4.17772
10:46:10				168	9.61176	0.5324472	1.5752	1.4652	6.98413	4.17492
10:46:10				169	9.61079	0.5326076	1.5752	1.4652	7.22833	4.17637
10:46:11				170	9.61176	0.5327679	1.6736	1.4652	6.93529	4.1776
10:46:11				171	9.61176	0.5327679	1.6736	1.41636	6.93529	4.1776
10:46:12				172	9.61273	0.5326075	1.4768	1.4652	7.08181	4.17616
10:46:12				173	9.60982	0.5326076	1.5752	1.4652	7.27717	4.17649
10:46:13				174	9.61079	0.5326076	1.6736	1.4652	6.88645	4.17637
10:46:13				175	9.61176	0.5329282	1.5752	1.4652	7.03297	4.17895
10:46:14				176	9.61176	0.5329282	1.5752	1.41636	7.13065	4.17895
10:46:14				177	9.61079	0.5329282	1.6736	1.41636	6.98413	4.17905
10:46:15				178	9.61176	0.5329282	1.6736	1.41636	6.93529	4.17894
10:46:15				179	9.61176	0.5329282	1.5752	1.41636	6.78877	4.17895
10:46:16				180	9.61079	0.5330886	1.5752	1.41636	6.88645	4.1804
10:46:16				181	9.61079	0.5330886	1.6736	1.41636	6.98413	4.1804
10:46:17				182	9.61176	0.5330886	1.6736	1.41636	6.88645	4.18028
10:46:17				183	9.61079	0.5330886	1.6736	1.41636	6.83761	4.1804
10:46:18				184	9.61176	0.5329282	1.5752	1.41636	6.98413	4.17895
10:46:18				185	9.61079	0.5326076	1.5752	1.41636	7.03297	4.17637
10:46:19				186	9.61273	0.5329282	1.6736	1.41636	6.88645	4.17883
10:46:19				187	9.61176	0.5329282	1.6736	1.41636	6.73993	4.17894
10:46:20				188	9.61176	0.5329282	1.5752	1.41636	6.88645	4.17895
10:46:20				189	9.61079	0.5329282	1.5752	1.41636	6.98413	4.17906
10:46:21				190	9.61079	0.5329282	1.5752	1.41636	6.98413	4.17906
10:46:21				191	9.61176	0.5330886	1.6736	1.41636	6.73993	4.18028
10:46:22				192	9.61176	0.5329282	1.5752	1.4652	6.69109	4.17895
10:46:22				193	9.61273	0.5330886	1.5752	1.4652	6.93529	4.18018
10:46:23				194	9.61176	0.5329282	1.5752	1.41636	7.17949	4.17895
10:46:23				195	9.61176	0.5330886	1.6736	1.41636	6.98413	4.18028
10:46:24				196	9.61176	0.5329282	1.5752	1.41636	6.73993	4.17895
10:46:24				197	9.61273	0.5329282	1.6736	1.41636	6.93529	4.17883
10:46:25				198	9.61273	0.5321267	1.5752	1.4652	7.03297	4.17212
10:46:25				199	9.61079	0.5327679	1.5752	1.41636	6.98413	4.17772
10:46:26				200	9.61176	0.5327679	1.6736	1.41636	6.73993	4.1776
10:46:26				201	9.61176	0.5329282	1.6736	1.36752	7.13065	4.17894
10:46:27				202	9.61176	0.5318062	1.5752	1.41636	7.03297	4.16955
10:46:27				203	9.61079	0.5324472	1.6736	1.41636	7.03297	4.17503
10:46:28				204	9.60982	0.5327679	1.6736	1.41636	6.88645	4.17782
10:46:28				205	9.61079	0.5330886	1.6736	1.41636	6.93529	4.1804

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:29				206	9.6137	0.5327679	1.5752	1.41636	7.03297	4.17738
10:46:29				207	9.61079	0.5321267	1.5752	1.41636	7.13065	4.17235
10:46:30				208	9.61176	0.5326076	1.6736	1.4652	7.08181	4.17626
10:46:30				209	9.61176	0.5326076	1.6736	1.41636	6.88645	4.17626
10:46:31				210	9.61079	0.5321267	1.5752	1.41636	7.03297	4.17235
10:46:31				211	9.61079	0.5324472	1.5752	1.41636	7.17949	4.17503
10:46:32				212	9.61176	0.532287	1.6736	1.41636	6.93529	4.17357
10:46:32				213	9.61176	0.5324472	1.5752	1.41636	6.98413	4.17492
10:46:33				214	9.61079	0.532287	1.5752	1.41636	6.98413	4.17369
10:46:33				215	9.61079	0.5324472	1.5752	1.41636	6.98413	4.17503
10:46:34				216	9.61176	0.5326076	1.6736	1.41636	6.83761	4.17626
10:46:34				217	9.61176	0.5324472	1.6736	1.41636	6.83761	4.17491
10:46:35				218	9.61176	0.5326076	1.6736	1.41636	6.93529	4.17626
10:46:35				219	9.61273	0.5326075	1.5752	1.4652	6.83761	4.17615
10:46:36				220	9.61176	0.5326075	1.5752	1.41636	6.93529	4.17626
10:46:36				221	9.61176	0.5322869	1.5752	1.41636	6.93529	4.17358
10:46:37				222	9.61079	0.5324472	1.6736	1.4652	6.98413	4.17503
10:46:37				223	9.61176	0.5326075	1.5752	1.41636	6.83761	4.17626
10:46:38				224	9.61176	0.5321267	1.5752	1.41636	6.93529	4.17224
10:46:38				225	9.61176	0.5321267	1.6736	1.41636	6.88645	4.17223
10:46:39				226	9.61079	0.5324472	1.6736	1.41636	6.98413	4.17503
10:46:39				227	9.60982	0.5324472	1.5752	1.41636	6.88645	4.17514
10:46:40				228	9.61176	0.5324472	1.6736	1.4652	6.93529	4.17491
10:46:40				229	9.61273	0.5324472	1.6736	1.41636	6.98413	4.1748
10:46:41				230	9.61273	0.5324472	1.6736	1.41636	6.98413	4.1748
10:46:41				231	9.61176	0.5326075	1.5752	1.4652	6.78877	4.17626
10:46:42				232	9.61079	0.5326076	1.6736	1.36752	6.83761	4.17637
10:46:42				233	9.61176	0.5327679	1.6736	1.41636	6.88645	4.1776
10:46:43				234	9.6137	0.5324472	1.5752	1.41636	6.78877	4.1747
10:46:43				235	9.6137	0.5326075	1.5752	1.41636	7.08181	4.17604
10:46:44				236	9.61273	0.5327679	1.6736	1.4652	6.98413	4.17749
10:46:44	10:45:29 dye on			237	9.61273	0.5329282	1.6736	1.41636	6.88645	4.17883
10:46:45				238	9.6137	0.5327679	1.5752	1.4652	6.98413	4.17738
10:46:45				239	9.6137	0.5327679	1.5752	1.41636	7.22833	4.17738
10:46:46				240	9.61079	0.5330886	1.5752	1.41636	7.03297	4.1804
10:46:46				241	9.61273	0.5330886	1.6736	1.41636	7.03297	4.18017
10:46:47				242	9.61273	0.5330886	1.6736	1.41636	6.78877	4.18017
10:46:47				243	9.61273	0.5338905	1.6736	1.41636	6.88645	4.18689
10:46:48				244	9.61273	0.5340509	1.5752	1.41636	6.83761	4.18824
10:46:49				247	9.61255	0.5327628	1.5752	1.41636	7.03297	4.17747
10:46:50				248	9.61158	0.5326025	1.6736	1.41636	6.98413	4.17623
10:46:50				249	9.61158	0.5327628	1.6736	1.41636	6.98413	4.17758
10:46:51				250	9.61158	0.5330835	1.6736	1.41636	6.83761	4.18026
10:46:51				251	9.61255	0.5330835	1.6736	1.41636	6.98413	4.18015
10:46:52				252	9.61255	0.5332438	1.5752	1.41636	6.93529	4.1815

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:52				253	9.61352	0.5332438	1.5752	1.41636	6.93529	4.18139
10:46:53				254	9.61546	0.5332438	1.6736	1.41636	6.83761	4.18116
10:46:53				255	9.61449	0.5332439	1.6736	1.41636	6.93529	4.18127
10:46:54				256	9.61352	0.5334042	1.6736	1.41636	6.83761	4.18272
10:46:54				257	9.61546	0.5335646	1.5752	1.4652	6.83761	4.18385
10:46:55				258	9.61546	0.5340459	1.5752	1.41636	7.13065	4.18788
10:46:55				259	9.61352	0.533725	1.6736	1.4652	7.03297	4.18541
10:46:56				260	9.61546	0.5348482	1.6736	1.36752	6.78877	4.19459
10:46:56				261	9.61643	0.5359704	1.6736	1.4652	7.08181	4.20388
10:46:57				262	9.61837	0.5350087	1.5752	1.41636	7.03297	4.19561
10:46:57				263	9.6174	0.5345272	1.5752	1.4652	6.83761	4.19169
10:46:58				264	9.6174	0.5356492	1.5752	1.41636	6.88645	4.20108
10:46:58				265	9.62031	0.5353298	1.6736	1.4652	9.67033	4.19806
10:46:59				266	9.61934	0.5354904	1.772	1.41636	7.42369	4.19951
10:46:59				267	9.62226	0.5350087	1.6736	1.41636	6.98413	4.19515
10:47:00				268	9.62129	0.5354903	1.5752	1.41636	6.93529	4.1993
10:47:00				269	9.62323	0.5353298	1.8703	1.41636	7.08181	4.19771
10:47:01				270	9.62226	0.5351693	1.8703	1.41636	7.03297	4.19648
10:47:01				271	9.62323	0.5350087	1.8703	1.4652	6.83761	4.19502
10:47:02				272	9.62226	0.5351693	1.6736	1.41636	6.93529	4.19649
10:47:02				273	9.62323	0.5356492	1.6736	1.4652	6.93529	4.2004
10:47:03				274	9.62226	0.5351693	1.8703	1.41636	6.93529	4.19648
10:47:03				275	9.62129	0.5351693	1.8703	1.4652	7.03297	4.19659
10:47:04				276	9.62226	0.5350087	1.772	1.4652	6.88645	4.19514
10:47:04				277	9.62129	0.5346877	1.6736	1.41636	7.03297	4.19257
10:47:05				278	9.62226	0.5346877	1.6736	1.41636	7.08181	4.19246
10:47:05				279	9.62031	0.5348482	1.772	1.41636	6.78877	4.19402
10:47:06				280	9.62031	0.5346877	1.8703	1.4652	7.08181	4.19267
10:47:06				281	9.62226	0.5346877	1.772	1.41636	6.93529	4.19245
10:47:07				282	9.62226	0.5346877	1.6736	1.4652	6.88645	4.19246
10:47:07				283	9.62031	0.5348482	1.772	1.41636	7.03297	4.19402
10:47:08				284	9.62226	0.5346877	1.8703	1.41636	6.88645	4.19245
10:47:08				285	9.62129	0.5346877	1.8703	1.4652	6.69109	4.19256
10:47:09				286	9.62031	0.5346877	1.772	1.41636	6.98413	4.19268
10:47:09				287	9.62226	0.5345272	1.772	1.41636	7.13065	4.19111
10:47:10				288	9.62031	0.5345272	1.772	1.41636	6.98413	4.19134
10:47:10				289	9.62129	0.5345272	1.8703	1.41636	6.98413	4.19122
10:47:11				290	9.62031	0.5346877	1.772	1.4652	6.83761	4.19268
10:47:11				291	9.62031	0.5348482	1.772	1.41636	6.93529	4.19402
10:47:12				292	9.62031	0.5346877	1.772	1.41636	6.78877	4.19268
10:47:12				293	9.61934	0.5346877	1.772	1.41636	6.83761	4.19279
10:47:13				294	9.61934	0.5353298	1.772	1.41636	6.98413	4.19817
10:47:13				295	9.62031	0.5350087	1.772	1.4652	6.88645	4.19537
10:47:14				296	9.62031	0.5350087	1.8703	1.41636	6.78877	4.19536
10:47:14				297	9.62129	0.5346877	1.772	1.4652	6.98413	4.19257

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:15				298	9.62323	0.5343668	1.772	1.41636	7.08181	4.18965
10:47:15				299	9.62031	0.5345272	1.8703	1.41636	7.22833	4.19133
10:47:16				300	9.62226	0.5345272	1.772	1.41636	6.93529	4.19111
10:47:16				301	9.62129	0.5340459	1.772	1.41636	6.93529	4.18719
10:47:17				302	9.61837	0.533725	1.772	1.4652	6.98413	4.18484
10:47:17				303	9.61837	0.5338854	1.772	1.41636	7.22833	4.18619
10:47:18				304	9.6174	0.5340459	1.8703	1.41636	6.88645	4.18764
10:47:18				305	9.61643	0.5342063	1.8703	1.4652	6.78877	4.18909
10:47:19				306	9.62031	0.5343668	1.772	1.41636	6.73993	4.18999
10:47:19				307	9.62031	0.5340459	1.6736	1.41636	6.83761	4.18731
10:47:20				308	9.6174	0.5340459	1.772	1.41636	6.98413	4.18764
10:47:20				309	9.6174	0.5340459	1.8703	1.41636	7.13065	4.18764
10:47:21				310	9.61934	0.5342063	1.8703	1.4652	6.83761	4.18875
10:47:21				311	9.62031	0.5343668	1.6736	1.4652	6.73993	4.19
10:47:22				312	9.6174	0.533725	1.6736	1.36752	6.88645	4.18496
10:47:22				313	9.6174	0.5338854	1.772	1.41636	7.08181	4.1863
10:47:23				314	9.61837	0.5340459	1.9687	1.41636	7.08181	4.18752
10:47:23				315	9.62031	0.5340459	1.772	1.41636	6.83761	4.1873
10:47:24				316	9.62226	0.5340459	1.6736	1.4652	6.88645	4.18709
10:47:24				317	9.61837	0.533725	1.6736	1.41636	7.03297	4.18485
10:47:25				318	9.61934	0.5338854	1.8703	1.41636	7.22833	4.18607
10:47:25				319	9.62129	0.5338854	1.8703	1.4652	6.83761	4.18584
10:47:26				320	9.61837	0.5340459	1.772	1.41636	6.93529	4.18753
10:47:26				321	9.61934	0.5340459	1.6736	1.41636	6.98413	4.18742
10:47:27				322	9.62031	0.5334042	1.6736	1.4652	6.93529	4.18194
10:47:27				323	9.61837	0.5335646	1.8703	1.4652	7.08181	4.18349
10:47:28				324	9.62031	0.533725	1.8703	1.41636	6.88645	4.18461
10:47:28				325	9.61837	0.5326025	1.772	1.41636	6.88645	4.17544
10:47:29				326	9.62031	0.5334042	1.772	1.41636	7.13065	4.18193
10:47:29				327	9.61837	0.5335646	1.772	1.41636	6.88645	4.1835
10:47:30				328	9.61837	0.5334042	1.772	1.41636	6.98413	4.18216
10:47:30				329	9.6174	0.5335646	1.772	1.4652	6.83761	4.18361
10:47:31				330	9.61837	0.5335646	1.772	1.41636	6.98413	4.1835
10:47:31				331	9.61837	0.533725	1.772	1.41636	6.93529	4.18484
10:47:32				332	9.61837	0.5335646	1.772	1.4652	6.93529	4.1835
10:47:32				333	9.62031	0.5335646	1.772	1.41636	6.93529	4.18327
10:47:33				334	9.61837	0.5335646	1.772	1.41636	6.88645	4.1835
10:47:33				335	9.61837	0.5335646	1.772	1.41636	6.98413	4.1835
10:47:34				336	9.62031	0.5335646	1.772	1.4652	6.88645	4.18327
10:47:34				337	9.62031	0.5335646	1.772	1.41636	6.83761	4.18327
10:47:35				338	9.62031	0.5334042	1.772	1.41636	6.93529	4.18193
10:47:35	10:46:20 dye no flow			339	9.62031	0.5334042	1.772	1.41636	6.83761	4.18193
10:47:36				340	9.62031	0.5335646	1.772	1.41636	6.98413	4.18327
10:47:36				341	9.61934	0.5335646	1.772	1.41636	7.03297	4.18339
10:47:37				342	9.61837	0.5335646	1.8703	1.41636	7.17949	4.18349

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:37				343	9.61837	0.5335646	1.772	1.41636	6.88645	4.1835
10:47:38				344	9.62031	0.5335646	1.6736	1.41636	7.08181	4.18328
10:47:38				345	9.61837	0.5332438	1.6736	1.41636	6.88645	4.18082
10:47:39				346	9.61934	0.5335646	1.8703	1.41636	7.22833	4.18338
10:47:39				347	9.61837	0.5335646	1.8703	1.4652	6.78877	4.18349
10:47:40				348	9.61934	0.5335646	1.772	1.41636	6.88645	4.18339
10:47:40				349	9.61934	0.5329231	1.6736	1.41636	7.17949	4.17802
10:47:41				350	9.61837	0.5332438	1.772	1.4652	7.08181	4.18081
10:47:41				351	9.61837	0.5334042	1.8703	1.41636	6.93529	4.18215
10:47:42				352	9.61934	0.5334042	1.8703	1.41636	6.93529	4.18204
10:47:42				353	9.62031	0.5334042	1.6736	1.41636	6.93529	4.18194
10:47:43				354	9.62129	0.5334042	1.6736	1.41636	6.88645	4.18182
10:47:43				355	9.6174	0.5334042	1.772	1.41636	6.98413	4.18227
10:47:44				356	9.61934	0.5334042	1.8703	1.41636	7.03297	4.18204
10:47:44				357	9.6174	0.5332439	1.772	1.41636	6.88645	4.18093
10:47:45				358	9.61934	0.5332438	1.6736	1.4652	7.03297	4.18071
10:47:45				359	9.6174	0.5334042	1.772	1.41636	7.03297	4.18227
10:47:46				360	9.6174	0.5334042	1.8703	1.41636	6.98413	4.18226
10:47:46				361	9.61837	0.5334042	1.8703	1.41636	7.08181	4.18215
10:47:47				362	9.6174	0.5334042	1.8703	1.41636	6.93529	4.18226
10:47:47				363	9.61934	0.5334042	1.6736	1.41636	6.93529	4.18205
10:47:48				364	9.61934	0.5334042	1.772	1.41636	6.83761	4.18204
10:47:49				367	9.61947	0.5334042	1.772	1.4652	6.98413	4.18203
10:47:50				368	9.61947	0.5334042	1.772	1.4652	6.69109	4.18203
10:47:50				369	9.61849	0.533725	1.772	1.41636	7.13065	4.18483
10:47:51				370	9.61752	0.5335646	1.772	1.41636	6.88645	4.1836
10:47:51				371	9.61947	0.5335646	1.772	1.41636	7.03297	4.18337
10:47:52				372	9.62141	0.5335646	1.772	1.4652	6.83761	4.18315
10:47:52				373	9.61947	0.5334042	1.772	1.41636	6.83761	4.18203
10:47:53				374	9.61947	0.5330835	1.772	1.41636	6.78877	4.17934
10:47:53				375	9.61752	0.5324422	1.772	1.41636	7.03297	4.1742
10:47:54				376	9.61752	0.5332439	1.8703	1.41636	7.13065	4.1809
10:47:54				377	9.61849	0.5332438	1.772	1.4652	6.83761	4.1808
10:47:55				378	9.62044	0.5334042	1.6736	1.41636	6.98413	4.18192
10:47:55				379	9.61947	0.5334042	1.6736	1.41636	7.27717	4.18204
10:47:56				380	9.61947	0.5334042	1.8703	1.41636	7.13065	4.18202
10:47:56				381	9.61752	0.5332439	1.8703	1.41636	6.78877	4.1809
10:47:57				382	9.61947	0.5321216	1.772	1.4652	6.78877	4.17129
10:47:57				383	9.61849	0.5322819	1.6736	1.4652	7.03297	4.17275
10:47:58				384	9.61655	0.5322819	1.772	1.41636	7.17949	4.17297
10:47:58				385	9.61752	0.5319613	1.772	1.41636	6.88645	4.17017
10:47:59				386	9.61849	0.530678	1.772	1.41636	6.83761	4.15932
10:47:59				387	9.61655	0.5313204	1.772	1.41636	6.88645	4.16492
10:48:00				388	9.61655	0.5314806	1.772	1.4652	6.83761	4.16626
10:48:00				389	9.61752	0.5316409	1.772	1.41636	7.03297	4.16749

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:01				390	9.61752	0.5318011	1.6736	1.41636	6.73993	4.16884
10:48:01				391	9.61655	0.5305179	1.772	1.41636	6.98413	4.1582
10:48:02				392	9.61655	0.5313204	1.8703	1.41636	6.93529	4.16491
10:48:02				393	9.61752	0.5313204	1.8703	1.41636	6.93529	4.1648
10:48:03				394	9.61752	0.5311602	1.6736	1.4652	7.03297	4.16347
10:48:03				395	9.61849	0.5292356	1.6736	1.41636	7.03297	4.14725
10:48:04				396	9.61558	0.5301976	1.772	1.41636	7.13065	4.15563
10:48:04				397	9.61461	0.5305179	1.8703	1.41636	6.88645	4.15842
10:48:05				398	9.61752	0.5305179	1.8703	1.41636	6.98413	4.15808
10:48:05				399	9.61655	0.530678	1.6736	1.4652	7.22833	4.15955
10:48:06				400	9.61558	0.5305179	1.6736	1.41636	7.17949	4.15832
10:48:06				401	9.61752	0.5303578	1.772	1.4652	7.17949	4.15675
10:48:07				402	9.61655	0.5303578	1.8703	1.4652	7.08181	4.15685
10:48:07				403	9.61655	0.5305179	1.772	1.36752	6.93529	4.1582
10:48:08				404	9.61461	0.5309984	1.6736	1.4652	6.93529	4.16245
10:48:08				405	9.61655	0.5308382	1.772	1.41636	6.98413	4.16088
10:48:09				406	9.61655	0.5305179	1.772	1.4652	6.93529	4.1582
10:48:09				407	9.61849	0.5305179	1.772	1.41636	6.93529	4.15798
10:48:10				408	9.61752	0.5311602	1.6736	1.41636	7.08181	4.16347
10:48:10	10:46:55 dye stopped			409	9.61655	0.5308382	1.772	1.41636	7.27717	4.16088
10:48:11				410	9.61655	0.5308382	1.772	1.41636	6.93529	4.16088
10:48:11				411	9.61655	0.5305179	1.6736	1.41636	6.98413	4.15821
10:48:12				412	9.61655	0.5305179	1.6736	1.4652	7.03297	4.15821
10:48:12				413	9.61752	0.530678	1.772	1.4652	6.98413	4.15943
10:48:13				414	9.61752	0.530678	1.6736	1.41636	7.08181	4.15944
10:48:13				415	9.61655	0.5309984	1.6736	1.41636	7.17949	4.16223
10:48:14				416	9.61752	0.5309983	1.6736	1.41636	7.32601	4.16212
10:48:14				417	9.61752	0.5309984	1.772	1.36752	6.83761	4.16211
10:48:15				418	9.61655	0.5309984	1.772	1.41636	6.98413	4.16222
10:48:15				419	9.61752	0.5311602	1.6736	1.4652	7.13065	4.16347
10:48:16				420	9.61752	0.5309983	1.6736	1.41636	7.03297	4.16212
10:48:16				421	9.61558	0.5318011	1.6736	1.41636	7.17949	4.16906
10:48:17				422	9.61752	0.5311602	1.772	1.41636	7.27717	4.16347
10:48:17				423	9.61655	0.5313204	1.772	1.41636	6.73993	4.16492
10:48:18				424	9.61849	0.5313204	1.6736	1.36752	6.93529	4.1647
10:48:18				425	9.61752	0.5316408	1.5752	1.41636	6.98413	4.1675
10:48:19				426	9.61752	0.5309983	1.6736	1.41636	7.17949	4.16212
10:48:19				427	9.61752	0.5311602	1.8703	1.41636	7.08181	4.16346
10:48:20				428	9.61849	0.5311602	1.8703	1.41636	6.93529	4.16335
10:48:20				429	9.61849	0.5309983	1.6736	1.4652	7.08181	4.162
10:48:21				430	9.61752	0.5303577	1.5752	1.4652	7.08181	4.15676
10:48:21				431	9.61752	0.5305179	1.6736	1.41636	7.08181	4.15809
10:48:22				432	9.61558	0.5303578	1.8703	1.41636	6.93529	4.15697
10:48:22				433	9.61655	0.5303578	1.8703	1.41636	6.98413	4.15685
10:48:23				434	9.61752	0.5303578	1.6736	1.36752	6.88645	4.15675

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:23				435	9.61752	0.5305179	1.6736	1.41636	7.22833	4.15809
10:48:24				436	9.61752	0.5305179	1.772	1.4652	7.13065	4.15809
10:48:24				437	9.61655	0.530678	1.8703	1.41636	6.88645	4.15953
10:48:25				438	9.61752	0.5305179	1.772	1.4652	7.03297	4.15809
10:48:25				439	9.61752	0.5305179	1.772	1.4652	7.08181	4.15809
10:48:26				440	9.61752	0.5305179	1.6736	1.41636	7.08181	4.15809
10:48:26				441	9.61752	0.5309983	1.6736	1.41636	7.08181	4.16212
10:48:27				442	9.61655	0.5311602	1.772	1.41636	7.13065	4.16358
10:48:27				443	9.61752	0.5308382	1.772	1.41636	6.83761	4.16077
10:48:28				444	9.61752	0.5308382	1.772	1.41636	6.93529	4.16077
10:48:28				445	9.61752	0.530678	1.6736	1.41636	7.03297	4.15944
10:48:29				446	9.61752	0.5308382	1.772	1.4652	7.32601	4.16077
10:48:29				447	9.61752	0.5308382	1.772	1.4652	6.93529	4.16077
10:48:30				448	9.61752	0.530678	1.6736	1.41636	7.13065	4.15944
10:48:30				449	9.61849	0.5308382	1.6736	1.41636	7.17949	4.16066
10:48:31				450	9.61849	0.5308382	1.772	1.4652	7.03297	4.16066
10:48:31				451	9.61752	0.5308382	1.772	1.41636	7.13065	4.16077
10:48:32				452	9.61655	0.5309984	1.772	1.41636	7.03297	4.16222
10:48:32				453	9.61752	0.5309984	1.772	1.4652	6.98413	4.16211
10:48:33				454	9.61752	0.5309983	1.6736	1.41636	6.98413	4.16212
10:48:33				455	9.61558	0.5309984	1.772	1.41636	7.52137	4.16233
10:48:34				456	9.61752	0.5309984	1.772	1.4652	7.13065	4.16211
10:48:34				457	9.61752	0.5309984	1.772	1.41636	7.03297	4.16211
10:48:35				458	9.61849	0.5305179	1.772	1.4652	7.13065	4.15798
10:48:35				459	9.61849	0.530678	1.772	1.4652	7.27717	4.15932
10:48:36				460	9.61655	0.530678	1.772	1.41636	6.83761	4.15954
10:48:36				461	9.61947	0.5311602	1.772	1.41636	7.08181	4.16324
10:48:37				462	9.61655	0.530678	1.772	1.4652	7.13065	4.15954
10:48:37				463	9.61655	0.530678	1.772	1.41636	6.93529	4.15954
10:48:38				464	9.61947	0.530678	1.772	1.41636	6.93529	4.15921
10:48:38				465	9.61752	0.5316408	1.6736	1.41636	6.93529	4.1675
10:48:39				466	9.61947	0.5308382	1.772	1.41636	6.98413	4.16055
10:48:39				467	9.61752	0.5311602	1.8703	1.41636	7.13065	4.16346
10:48:40				468	9.61752	0.5309984	1.772	1.41636	6.93529	4.16211
10:48:40				469	9.61849	0.5303578	1.6736	1.4652	6.93529	4.15664
10:48:41				470	9.61752	0.5301976	1.6736	1.4652	7.17949	4.15541
10:48:41				471	9.61558	0.5301976	1.772	1.41636	6.93529	4.15563
10:48:42				472	9.61655	0.5303578	1.772	1.4652	6.83761	4.15686
10:48:42				473	9.61849	0.530678	1.772	1.4652	7.17949	4.15932
10:48:43				474	9.62044	0.5305179	1.772	1.41636	6.98413	4.15775
10:48:43				475	9.61849	0.5298775	1.772	1.4652	7.08181	4.15262
10:48:44				476	9.61849	0.5301976	1.772	1.4652	7.17949	4.1553
10:48:44				477	9.61752	0.5303578	1.6736	1.41636	7.03297	4.15675
10:48:45				478	9.61849	0.5303578	1.772	1.4652	7.17949	4.15664
10:48:45				479	9.62044	0.5303578	1.772	1.41636	6.69109	4.15641

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:46				480	9.61655	0.5293956	1.772	1.36752	6.88645	4.14881
10:48:46				481	9.61558	0.5292356	1.772	1.41636	7.22833	4.14758
10:48:47				482	9.61752	0.5300375	1.772	1.41636	6.93529	4.15407
10:48:47				483	9.61655	0.5297157	1.772	1.36752	7.03297	4.15149
10:48:48				484	9.61655	0.5284339	1.772	1.41636	7.22833	4.14076
10:48:49				487	9.61704	0.5289257	1.772	1.4652	6.93529	4.14482
10:48:50				488	9.61607	0.5290857	1.772	1.41636	7.13065	4.14627
10:48:50				489	9.61704	0.5290857	1.772	1.41636	6.88645	4.14616
10:48:51				490	9.61704	0.5286057	1.772	1.4652	6.98413	4.14214
10:48:51				491	9.61704	0.5268418	1.772	1.4652	7.03297	4.12738
10:48:52				492	9.61704	0.5281241	1.772	1.4652	7.03297	4.13811
10:48:52				493	9.61607	0.5279642	1.772	1.41636	7.03297	4.13688
10:48:53				494	9.61607	0.5305297	1.6736	1.4652	7.08181	4.15836
10:48:53				495	9.61607	0.5294074	1.772	1.4652	7.32601	4.14896
10:48:54				496	9.61801	0.5297275	1.772	1.41636	7.32601	4.15142
10:48:54				497	9.61704	0.5298876	1.772	1.41636	6.93529	4.15287
10:48:55				498	9.61801	0.5311703	1.6736	1.41636	7.22833	4.1635
10:48:55				499	9.61898	0.53085	1.772	1.41636	7.22833	4.1607
10:48:56				500	9.61898	0.53085	1.772	1.41636	7.17949	4.1607
10:48:56				501	9.61995	0.5303696	1.772	1.41636	6.98413	4.15657
10:48:57				502	9.61898	0.5302078	1.6736	1.41636	7.08181	4.15533
10:48:57				503	9.61801	0.5300477	1.772	1.41636	7.13065	4.1541
10:48:58				504	9.61898	0.5300477	1.8703	1.41636	7.08181	4.15398
10:48:58				505	9.61704	0.5292457	1.772	1.41636	7.17949	4.1475
10:48:59				506	9.61801	0.5286057	1.772	1.41636	7.03297	4.14203
10:48:59				507	9.61704	0.5279642	1.772	1.41636	7.08181	4.13677
10:49:00				508	9.61607	0.53085	1.772	1.41636	6.88645	4.16104
10:49:00				509	9.61801	0.5303696	1.772	1.41636	7.47253	4.15679
10:49:01				510	9.61801	0.5297275	1.8703	1.4652	7.22833	4.15141
10:49:01				511	9.61801	0.5295674	1.772	1.41636	7.08181	4.15008
10:49:02				512	9.61801	0.5295674	1.6736	1.41636	6.98413	4.15008
10:49:02				513	9.61801	0.5300477	1.772	1.4652	7.37485	4.1541
10:49:03				514	9.61801	0.5292457	1.8703	1.4652	7.32601	4.14738
10:49:03				515	9.61898	0.5290857	1.8703	1.41636	6.93529	4.14593
10:49:04				516	9.61801	0.5282841	1.772	1.4652	7.08181	4.13934
10:49:04				517	9.61704	0.5289257	1.772	1.4652	7.08181	4.14482
10:49:05				518	9.61704	0.528444	1.772	1.41636	7.17949	4.14079
10:49:05				519	9.61607	0.5276427	1.772	1.4652	6.88645	4.13419
10:49:06				520	9.61704	0.5294074	1.772	1.4652	6.98413	4.14885
10:49:06				521	9.61413	0.5281242	1.8703	1.41636	7.17949	4.13844
10:49:07				522	9.6151	0.5290857	1.772	1.4652	7.08181	4.14638
10:49:07				523	9.61801	0.5286057	1.6736	1.4652	7.08181	4.14204
10:49:08				524	9.61607	0.5292457	1.772	1.41636	7.52137	4.14761
10:49:08				525	9.61704	0.5289257	1.8703	1.4652	6.98413	4.14481
10:49:09				526	9.61801	0.528444	1.772	1.4652	7.03297	4.14068

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:09				527	9.61801	0.5282841	1.6736	1.41636	7.03297	4.13934
10:49:10				528	9.61704	0.5287657	1.6736	1.4652	7.32601	4.14349
10:49:10				529	9.61607	0.5289257	1.772	1.4652	7.03297	4.14493
10:49:11				530	9.61607	0.528444	1.772	1.41636	6.93529	4.1409
10:49:11				531	9.61607	0.5287657	1.772	1.4652	7.08181	4.14359
10:49:12				532	9.61607	0.5289256	1.6736	1.4652	7.13065	4.14494
10:49:12				533	9.61704	0.5295674	1.772	1.41636	7.22833	4.15019
10:49:13				534	9.61607	0.5292457	1.772	1.41636	7.17949	4.14761
10:49:13				535	9.61607	0.5306898	1.772	1.4652	7.13065	4.1597
10:49:14				536	9.61607	0.5292457	1.772	1.41636	7.42369	4.14761
10:49:14				537	9.61704	0.5292457	1.772	1.4652	6.88645	4.1475
10:49:15				538	9.61801	0.5289256	1.6736	1.41636	7.13065	4.14471
10:49:15				539	9.61704	0.531651	1.6736	1.41636	7.13065	4.16764
10:49:16				540	9.61704	0.5298876	1.8703	1.41636	7.17949	4.15286
10:49:16				541	9.61704	0.5297275	1.8703	1.41636	6.93529	4.15152
10:49:17				542	9.61607	0.5292457	1.772	1.41636	6.98413	4.14761
10:49:17				543	9.61607	0.5298876	1.6736	1.41636	7.08181	4.15299
10:49:18				544	9.6151	0.5300477	1.772	1.41636	7.22833	4.15443
10:49:18				545	9.61801	0.5295674	1.772	1.36752	7.17949	4.15008
10:49:19				546	9.61704	0.5297275	1.772	1.41636	7.08181	4.15153
10:49:19				547	9.61607	0.5297275	1.6736	1.4652	7.17949	4.15165
10:49:20				548	9.61801	0.5305297	1.772	1.41636	7.17949	4.15813
10:49:20				549	9.61607	0.5300477	1.8703	1.41636	7.17949	4.15431
10:49:21				550	9.61801	0.5298876	1.772	1.41636	7.17949	4.15276
10:49:21				551	9.61801	0.5306898	1.6736	1.41636	6.98413	4.15948
10:49:22				552	9.61704	0.5302078	1.772	1.4652	7.03297	4.15555
10:49:22				553	9.61801	0.5300477	1.8703	1.41636	6.98413	4.15409
10:49:23				554	9.61801	0.5298876	1.772	1.41636	7.17949	4.15276
10:49:23				555	9.61801	0.5298876	1.6736	1.41636	7.03297	4.15276
10:49:24				556	9.61607	0.5300477	1.772	1.4652	7.13065	4.15432
10:49:24				557	9.61801	0.5297275	1.8703	1.41636	7.13065	4.15141
10:49:25				558	9.61704	0.5295674	1.772	1.41636	6.93529	4.15019
10:49:25				559	9.61704	0.5286057	1.6736	1.4652	7.17949	4.14215
10:49:26				560	9.61801	0.5290856	1.6736	1.41636	7.03297	4.14605
10:49:26				561	9.61413	0.5287657	1.772	1.41636	7.17949	4.14381
10:49:27				562	9.61704	0.5290857	1.772	1.41636	7.03297	4.14616
10:49:27				563	9.61801	0.5271615	1.6736	1.41636	7.13065	4.12995
10:49:28				564	9.61413	0.5276427	1.772	1.41636	7.17949	4.13442
10:49:28				565	9.61704	0.528444	1.772	1.4652	6.83761	4.14079
10:49:29				566	9.61704	0.5274829	1.772	1.41636	7.17949	4.13275
10:49:29				567	9.61607	0.5276427	1.772	1.4652	6.98413	4.13419
10:49:30				568	9.61607	0.5281242	1.772	1.4652	6.98413	4.13822
10:49:30				569	9.61607	0.5282841	1.772	1.41636	7.08181	4.13956
10:49:31				570	9.61801	0.5290857	1.772	1.4652	6.93529	4.14605
10:49:31				571	9.61704	0.5295674	1.772	1.4652	7.17949	4.15019

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:32				572	9.61607	0.5290857	1.772	1.41636	7.08181	4.14627
10:49:32				573	9.61704	0.5287657	1.772	1.4652	7.03297	4.14348
10:49:33				574	9.61607	0.5289257	1.772	1.4652	7.03297	4.14493
10:49:33				575	9.61704	0.5289257	1.772	1.41636	7.03297	4.14482
10:49:34				576	9.61704	0.5289257	1.772	1.4652	7.08181	4.14482
10:49:34				577	9.61704	0.5295674	1.772	1.4652	7.03297	4.15019
10:49:35				578	9.61607	0.5298876	1.772	1.41636	7.03297	4.15298
10:49:35				579	9.61801	0.5297275	1.8703	1.4652	7.37485	4.15141
10:49:36				580	9.61801	0.5295674	1.772	1.4652	7.08181	4.15008
10:49:36				581	9.61801	0.5287657	1.8703	1.41636	7.13065	4.14336
10:49:37				582	9.61607	0.5294074	1.772	1.4652	7.17949	4.14896
10:49:37				583	9.61995	0.5295674	1.772	1.4652	6.93529	4.14985
10:49:38				584	9.61898	0.5295674	1.772	1.41636	7.03297	4.14997
10:49:38				585	9.61801	0.5295674	1.8703	1.4652	7.27717	4.15007
10:49:39				586	9.61704	0.5294074	1.772	1.4652	6.98413	4.14885
10:49:39				587	9.61704	0.5290857	1.772	1.4652	7.03297	4.14616
10:49:40				588	9.61898	0.5289256	1.772	1.4652	7.17949	4.1446
10:49:40				589	9.61607	0.5290857	1.8703	1.41636	7.08181	4.14626
10:49:41				590	9.61607	0.5289257	1.8703	1.4652	6.83761	4.14492
10:49:41				591	9.61801	0.5282841	1.772	1.4652	7.13065	4.13934
10:49:42				592	9.61801	0.528444	1.772	1.4652	7.03297	4.14068
10:49:42				593	9.6151	0.5286057	1.772	1.41636	6.88645	4.14236
10:49:43				594	9.61801	0.5286057	1.8703	1.4652	6.93529	4.14202
10:49:43				595	9.61704	0.5286057	1.772	1.41636	7.42369	4.14214
10:49:44				596	9.61607	0.5286057	1.772	1.41636	6.78877	4.14225
10:49:44				597	9.61607	0.5287657	1.772	1.4652	6.98413	4.14359
10:49:45				598	9.61704	0.5289257	1.772	1.4652	7.22833	4.14482
10:49:45				599	9.61801	0.5289256	1.772	1.4652	6.98413	4.14471
10:49:46				600	9.61704	0.5281242	1.8703	1.4652	6.88645	4.1381
10:49:46				601	9.61607	0.5287657	1.8703	1.41636	7.03297	4.14358
10:49:47				602	9.61801	0.5286057	1.8703	1.41636	6.93529	4.14202
10:49:47				603	9.61607	0.5282841	1.772	1.41636	7.08181	4.13956
10:49:48				604	9.61704	0.5287657	1.772	1.41636	7.13065	4.14348
10:49:49				607	9.61231	0.5260429	1.772	1.41636	7.13065	4.12124
10:49:50				608	9.61425	0.5282891	1.6736	1.41636	7.42369	4.13982
10:49:50				609	9.61425	0.5274862	1.8703	1.41636	7.57021	4.13309
10:49:51				610	9.61425	0.525562	1.8703	1.41636	7.08181	4.11699
10:49:51				611	9.61037	0.5234786	1.772	1.41636	7.13065	4.10001
10:49:52				612	9.60551	0.5257234	1.772	1.41636	7.27717	4.11934
10:49:52				613	9.60745	0.5282892	1.772	1.41636	7.42369	4.14059
10:49:53				614	9.61328	0.5249216	1.8703	1.41636	7.27717	4.11174
10:49:53				615	9.61134	0.5234786	1.8703	1.4652	7.32601	4.09989
10:49:54				616	9.6094	0.524441	1.772	1.41636	7.37485	4.10817
10:49:54				617	9.60842	0.5226761	1.772	1.4652	7.52137	4.09352
10:49:55				618	9.60648	0.5164241	1.8703	1.4652	7.27717	4.04147

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:55				619	9.59678	0.5120949	1.772	1.4652	7.13065	4.0064
10:49:56				620	9.59095	0.5032761	1.772	1.4652	7.91209	3.93344
10:49:56				621	9.57638	0.5031167	1.8703	1.4652	8.35165	3.93369
10:49:57				622	9.57541	0.5021538	1.8703	1.41636	7.91209	3.92576
10:49:57				623	9.56758	0.4817944	1.772	1.4652	7.96093	3.75701
10:49:58				624	9.55787	0.4882076	1.772	1.4652	8.44933	3.8114
10:49:58				625	9.54718	0.4841985	1.8703	1.41636	8.35165	3.77914
10:49:59				626	9.5433	0.4846801	1.772	1.4652	8.15629	3.78356
10:49:59				627	9.53844	0.475223	1.772	1.41636	8.10745	3.70538
10:50:00				628	9.53455	0.4755435	1.8703	1.41636	8.20513	3.70844
10:50:00				629	9.53649	0.4750628	1.772	1.4652	8.20513	3.70424
10:50:01				630	9.53455	0.4741002	1.772	1.41636	8.10745	3.69644
10:50:01				631	9.53261	0.4726581	1.772	1.4652	8.20513	3.68465
10:50:02				632	9.52969	0.4728181	1.8703	1.41636	8.20513	3.68627
10:50:02				633	9.53066	0.4699323	1.8703	1.41636	8.20513	3.66219
10:50:03				634	9.52483	0.4702534	1.772	1.41636	8.40049	3.66546
10:50:03				635	9.52483	0.4720166	1.772	1.4652	8.59585	3.68011
10:50:04				636	9.52386	0.4708943	1.8703	1.41636	8.64469	3.67088
10:50:04				637	9.52483	0.4705746	1.8703	1.41636	8.15629	3.66812
10:50:05				638	9.52289	0.475864	1.772	1.4652	8.30281	3.71231
10:50:05				639	9.5258	0.4984662	1.772	1.41636	8.30281	3.90037
10:50:06				640	9.55204	0.4880462	1.8703	1.4652	8.35165	3.81067
10:50:06				641	9.55884	0.4814745	1.8703	1.4652	8.10745	3.75525
10:50:07				642	9.53941	0.4747424	1.8703	1.41636	8.10745	3.70128
10:50:07				643	9.53649	0.4848412	1.772	1.4652	8.20513	3.78562
10:50:08				644	9.53747	0.4766656	1.8703	1.4652	8.25397	3.71747
10:50:08				645	9.53649	0.4747424	1.8703	1.41636	8.15629	3.70158
10:50:09				646	9.53163	0.47378	1.772	1.4652	8.20513	3.69408
10:50:09				647	9.53163	0.4736199	1.8703	1.4652	8.44933	3.69274
10:50:10				648	9.53261	0.4734598	1.8703	1.4652	8.15629	3.69131
10:50:10				649	9.53163	0.47378	1.772	1.4652	8.10745	3.69408
10:50:11				650	9.52969	0.4715353	1.772	1.41636	8.25397	3.67562
10:50:11				651	9.52969	0.4731381	1.8703	1.41636	8.25397	3.68893
10:50:12				652	9.53066	0.47378	1.8703	1.41636	7.96093	3.69417
10:50:12				653	9.53163	0.475223	1.8703	1.41636	8.30281	3.70607
10:50:13				654	9.53261	0.4774675	1.772	1.41636	8.10745	3.72464
10:50:13				655	9.53163	0.4763449	1.772	1.41636	8.15629	3.71541
10:50:14				656	9.53261	0.4760243	1.772	1.41636	8.10745	3.71264
10:50:14				657	9.53455	0.4773071	1.8703	1.41636	8.05861	3.7231
10:50:15				658	9.53455	0.4755435	1.772	1.41636	7.91209	3.70844
10:50:15				659	9.53455	0.4747424	1.772	1.41636	8.10745	3.70178
10:50:16				660	9.53163	0.475223	1.8703	1.41636	8.05861	3.70607
10:50:16				661	9.53358	0.4757037	1.8703	1.4652	8.20513	3.70987
10:50:17				662	9.53261	0.4782682	1.772	1.41636	8.00977	3.73131
10:50:17				663	9.53552	0.4782682	1.772	1.41636	7.96093	3.731

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:18				664	9.53649	0.4782682	1.8703	1.41636	8.05861	3.7309
10:50:18				665	9.53552	0.4768259	1.8703	1.4652	8.15629	3.719
10:50:19				666	9.53552	0.4789087	1.772	1.4652	8.05861	3.73633
10:50:19				667	9.53455	0.4832375	1.772	1.4652	8.25397	3.77246
10:50:20				668	9.53941	0.4813137	1.772	1.4652	8.00977	3.75594
10:50:20				669	9.54135	0.4779472	1.8703	1.4652	8.15629	3.72773
10:50:21				670	9.53747	0.4784287	1.772	1.41636	7.96093	3.73214
10:50:21				671	9.53649	0.4827564	1.772	1.4652	8.15629	3.76826
10:50:22				672	9.53941	0.4898108	1.772	1.41636	8.05861	3.82671
10:50:22				673	9.54427	0.4891681	1.8703	1.41636	8.44933	3.82083
10:50:23				674	9.54815	0.4813137	1.8703	1.41636	8.05861	3.75503
10:50:23				675	9.54621	0.4850006	1.772	1.41636	7.81441	3.78592
10:50:24				676	9.54718	0.4886886	1.772	1.41636	7.96093	3.81654
10:50:24				677	9.55107	0.4914138	1.772	1.41636	8.05861	3.83883
10:50:25				678	9.55398	0.4874057	1.8703	1.4652	8.00977	3.80513
10:50:25				679	9.54815	0.4841985	1.8703	1.41636	7.86325	3.77904
10:50:26				680	9.54232	0.4808331	1.772	1.41636	8.05861	3.75164
10:50:26				681	9.53747	0.4825971	1.772	1.4652	8.44933	3.76683
10:50:27				682	9.53649	0.4793904	1.8703	1.41636	8.30281	3.74023
10:50:27				683	9.53552	0.4773071	1.8703	1.4652	8.15629	3.723
10:50:28				684	9.53261	0.4787498	1.8703	1.4652	8.00977	3.73531
10:50:28				685	9.53163	0.4803526	1.8703	1.4652	8.15629	3.74875
10:50:29				686	9.53649	0.4734598	1.8703	1.4652	8.15629	3.69091
10:50:29				687	9.53358	0.4739401	1.8703	1.4652	8.00977	3.6952
10:50:30				688	9.53261	0.4843596	1.8703	1.41636	8.25397	3.78201
10:50:30				689	9.53455	0.4763449	1.9687	1.41636	8.59585	3.71509
10:50:31				690	9.53358	0.4753832	1.9687	1.41636	8.15629	3.7072
10:50:31				691	9.52678	0.479551	1.8703	1.41636	8.30281	3.74258
10:50:32				692	9.52678	0.4707344	1.772	1.41636	8.15629	3.66926
10:50:32				693	9.53163	0.4691322	1.8703	1.41636	8.35165	3.65545
10:50:33				694	9.52386	0.4739401	1.9687	1.41636	8.15629	3.69619
10:50:33				695	9.52386	0.4692919	1.9687	1.41636	8.35165	3.65755
10:50:34				696	9.517	0.4566291	1.8703	1.41636	8.25397	3.55313
10:50:34				697	9.51116	0.4766656	1.8703	1.4652	8.25397	3.72018
10:50:35				698	9.517	0.4684904	1.8703	1.4652	8.44933	3.6516
10:50:35				699	9.52094	0.4673686	1.9687	1.41636	7.86325	3.64187
10:50:36				700	9.50825	0.4598348	1.9687	1.4652	7.96093	3.58058
10:50:36				701	9.50922	0.463842	1.8703	1.4652	8.49817	3.61376
10:50:37				702	9.51116	0.4632006	1.8703	1.4652	8.64469	3.60824
10:50:37				703	9.51116	0.4632006	1.8703	1.41636	8.35165	3.60824
10:50:38				704	9.51408	0.4724982	1.9687	1.41636	8.20513	3.6852
10:50:38				705	9.51894	0.4609565	1.9687	1.41636	8.25397	3.58883
10:50:39				706	9.50922	0.4579123	1.8703	1.41636	8.25397	3.56454
10:50:39				707	9.50825	0.4883675	1.8703	1.41636	8.54701	3.81797
10:50:40				708	9.53649	0.4822754	1.9687	1.41636	8.40049	3.76424

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:40				709	9.54038	0.4801919	1.9687	1.41636	7.91209	3.7465
10:50:41				710	9.53163	0.4774675	1.8703	1.41636	8.00977	3.72474
10:50:41				711	9.53358	0.4923744	1.8703	1.4652	8.49817	3.8487
10:50:42				712	9.54718	0.4824362	1.9687	1.4652	8.44933	3.76446
10:50:42				713	9.54815	0.4809938	1.9687	1.41636	7.96093	3.75236
10:50:43				714	9.54232	0.4559887	1.8703	1.4652	8.05861	3.54533
10:50:43				715	9.53163	0.4910922	1.8703	1.4652	8.30281	3.83821
10:50:44				716	9.53358	0.4782682	1.8703	1.4652	8.25397	3.7312
10:50:44				717	9.52872	0.4705746	1.9687	1.4652	8.10745	3.66772
10:50:45				718	9.52483	0.4718567	1.9687	1.41636	8.05861	3.67877
10:50:45				719	9.52094	0.4617577	1.8703	1.41636	8.10745	3.59529
10:50:46				720	9.51602	0.4696129	1.9687	1.41636	8.54701	3.66102
10:50:46				721	9.51019	0.4643229	1.9687	1.41636	8.35165	3.61765
10:50:47				722	9.50922	0.4659256	1.9687	1.41636	8.49817	3.63106
10:50:47				723	9.51116	0.4601556	1.9687	1.41636	8.10745	3.58296
10:50:48				724	9.5063	0.4569494	1.8703	1.41636	8.49817	3.55684
10:50:49				727	9.49701	0.4544001	1.9687	1.41636	8.59585	3.5366
10:50:50				728	9.49798	0.4664217	1.8703	1.4652	8.84005	3.63632
10:50:50				729	9.50673	0.463376	1.9687	1.4652	8.93773	3.61014
10:50:51				730	9.50867	0.4584061	1.9687	1.4652	8.64469	3.56869
10:50:51				731	9.50284	0.4540786	1.9687	1.4652	8.64469	3.53336
10:50:52				732	9.49992	0.4518351	1.9687	1.41636	8.84005	3.51505
10:50:52				733	9.49798	0.4492708	1.9687	1.4652	8.69353	3.49398
10:50:53				734	9.49506	0.4511949	1.8703	1.4652	8.59585	3.51022
10:50:53				735	9.49506	0.4500715	1.9687	1.41636	8.79121	3.5009
10:50:54				736	9.49409	0.4455851	1.9687	1.41636	8.98657	3.46382
10:50:54				737	9.49214	0.4473473	1.9687	1.4652	8.88889	3.47861
10:50:55				738	9.49117	0.4470272	1.9687	1.41636	8.64469	3.47605
10:50:55				739	9.48923	0.4495914	1.8703	1.4652	8.74237	3.49749
10:50:56				740	9.4902	0.448469	1.9687	1.4652	9.03541	3.48809
10:50:56				741	9.49409	0.4489504	1.9687	1.41636	8.98657	3.4917
10:50:57				742	9.49214	0.448469	1.9687	1.4652	8.64469	3.4879
10:50:57				743	9.49117	0.4479893	1.9687	1.4652	8.54701	3.48402
10:50:58				744	9.49117	0.4497525	1.9687	1.41636	8.79121	3.49864
10:50:58				745	9.4902	0.4495914	1.9687	1.4652	8.88889	3.49739
10:50:59				746	9.49409	0.4483096	1.9687	1.4652	8.59585	3.4864
10:50:59				747	9.48923	0.4524756	1.9687	1.41636	8.49817	3.5214
10:51:00				748	9.49214	0.4505533	1.9687	1.41636	8.74237	3.50518
10:51:00				749	9.49506	0.4508741	1.772	1.4652	8.93773	3.50757
10:51:01				750	9.49701	0.4518352	1.9687	1.41636	8.54701	3.51533
10:51:01				751	9.49506	0.4523159	1.9687	1.41636	8.64469	3.51951
10:51:02				752	9.49603	0.4609711	1.8703	1.41636	8.84005	3.59124
10:51:02				753	9.49798	0.4561634	1.9687	1.4652	8.74237	3.55113
10:51:03				754	9.50089	0.4560017	1.9687	1.4652	8.74237	3.54951
10:51:03				755	9.50187	0.4494319	1.9687	1.4652	8.59585	3.49494

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:04				756	9.50089	0.4527968	1.9687	1.4652	8.88889	3.52293
10:51:04				757	9.49895	0.4503922	1.9687	1.4652	8.54701	3.50318
10:51:05				758	9.49798	0.4521562	1.9687	1.4652	8.84005	3.5179
10:51:05				759	9.49409	0.4513546	1.9687	1.41636	8.84005	3.51163
10:51:06				760	9.49409	0.4507129	1.9687	1.41636	8.69353	3.50631
10:51:06				761	9.49214	0.4503922	1.8703	1.41636	8.74237	3.50385
10:51:07				762	9.49409	0.4523159	1.9687	1.41636	8.84005	3.5196
10:51:07				763	9.49506	0.4502326	2.0671	1.41636	8.98657	3.50223
10:51:08				764	9.49117	0.449912	1.9687	1.41636	8.74237	3.49996
10:51:08				765	9.49214	0.4502326	1.8703	1.4652	8.79121	3.50253
10:51:09				766	9.49409	0.4561634	1.9687	1.41636	8.74237	3.55152
10:51:09				767	9.49409	0.4515142	1.9687	1.4652	8.59585	3.51296
10:51:10				768	9.49312	0.4495914	1.9687	1.4652	8.59585	3.49711
10:51:10	10:49:55 dy stopped			769	9.4902	0.449912	1.8703	1.41636	8.59585	3.50006
10:51:11				770	9.49214	0.4592078	1.8703	1.4652	8.64469	3.57698
10:51:11				771	9.49798	0.4518352	1.9687	1.4652	8.54701	3.51524
10:51:12				772	9.49701	0.4531179	1.9687	1.41636	8.69353	3.52597
10:51:12				773	9.49895	0.4513546	1.9687	1.41636	8.59585	3.51116
10:51:13				774	9.49603	0.4564836	1.8703	1.41636	8.64469	3.55399
10:51:13				775	9.49798	0.4603307	1.9687	1.41636	8.69353	3.58572
10:51:14				776	9.50089	0.4553615	1.9687	1.41636	8.84005	3.5442
10:51:14				777	9.50089	0.45456	1.9687	1.41636	8.44933	3.53755
10:51:15				778	9.49701	0.4523159	1.9687	1.41636	8.69353	3.51932
10:51:15				779	9.49895	0.4550415	1.9687	1.41636	8.79121	3.54173
10:51:16				780	9.49701	0.4544001	1.9687	1.41636	8.84005	3.5366
10:51:16				781	9.49701	0.4544001	1.9687	1.4652	8.49817	3.5366
10:51:17				782	9.49798	0.4550415	1.9687	1.4652	8.59585	3.54183
10:51:17				783	9.49603	0.4540787	1.9687	1.4652	8.79121	3.53403
10:51:18				784	9.49701	0.4609711	1.9687	1.4652	8.79121	3.59114
10:51:18				785	9.49992	0.4606501	1.9687	1.41636	8.64469	3.58818
10:51:19				786	9.49992	0.4571242	1.9687	1.41636	8.79121	3.55891
10:51:19				787	9.50089	0.4587267	1.9687	1.41636	8.64469	3.57212
10:51:20				788	9.49895	0.4544001	1.8703	1.36752	8.54701	3.53642
10:51:20				789	9.50089	0.4544001	1.9687	1.41636	8.69353	3.53622
10:51:21				790	9.49992	0.4518351	1.9687	1.41636	8.54701	3.51505
10:51:21				791	9.49701	0.4500715	1.9687	1.41636	8.79121	3.50071
10:51:22				792	9.49603	0.4564836	1.9687	1.4652	8.74237	3.55398
10:51:22				793	9.49895	0.4552015	1.9687	1.4652	8.84005	3.54306
10:51:23				794	9.49798	0.4515142	1.9687	1.4652	8.44933	3.51258
10:51:23				795	9.49701	0.4507129	1.9687	1.41636	8.49817	3.50603
10:51:24				796	9.49214	0.4503922	1.8703	1.4652	8.79121	3.50385
10:51:24				797	9.49409	0.4552015	1.8703	1.41636	8.69353	3.54354
10:51:25				798	9.49506	0.4529565	1.9687	1.41636	8.93773	3.52482
10:51:25				799	9.49506	0.4529565	1.9687	1.41636	8.54701	3.52482
10:51:26				800	9.49409	0.452637	1.9687	1.41636	8.69353	3.52227

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:26				801	9.49506	0.4532778	1.8703	1.41636	8.93773	3.52749
10:51:27				802	9.49701	0.4534376	1.9687	1.41636	8.64469	3.52862
10:51:27				803	9.49798	0.453118	2.0671	1.41636	8.69353	3.52587
10:51:28				804	9.49506	0.4524756	1.9687	1.4652	8.64469	3.52083
10:51:28				805	9.49603	0.4532778	1.8703	1.4652	8.59585	3.52739
10:51:29				806	9.49701	0.4534376	1.9687	1.4652	8.84005	3.52862
10:51:29				807	9.49701	0.453599	1.9687	1.41636	8.69353	3.52996
10:51:30				808	9.49992	0.4527968	1.9687	1.4652	8.74237	3.52302
10:51:30				809	9.49701	0.45456	1.8703	1.4652	8.59585	3.53793
10:51:31				810	9.49895	0.4534376	1.9687	1.41636	8.59585	3.52843
10:51:31				811	9.49798	0.4534376	1.9687	1.41636	8.69353	3.52852
10:51:32				812	9.49798	0.4537589	1.9687	1.4652	8.64469	3.53119
10:51:32				813	9.49798	0.4539188	1.9687	1.41636	8.54701	3.53252
10:51:33				814	9.49992	0.4550415	1.9687	1.4652	9.13309	3.54164
10:51:33				815	9.49992	0.4555215	1.9687	1.4652	8.64469	3.54562
10:51:34				816	9.49992	0.4553615	1.9687	1.41636	8.79121	3.54429
10:51:34				817	9.50089	0.4542402	1.9687	1.4652	8.69353	3.53489
10:51:35				818	9.50284	0.45456	1.9687	1.41636	8.54701	3.53736
10:51:35				819	9.50187	0.4580855	1.8703	1.4652	8.64469	3.5667
10:51:36				820	9.50478	0.4564836	1.9687	1.41636	9.03541	3.55312
10:51:36				821	9.50576	0.4560017	2.0671	1.41636	8.64469	3.54902
10:51:37				822	9.50187	0.4561634	1.9687	1.41636	8.49817	3.55075
10:51:37				823	9.50381	0.457765	1.9687	1.41636	8.59585	3.56385
10:51:38				824	9.50284	0.4560017	1.9687	1.41636	8.74237	3.54931
10:51:38				825	9.50576	0.4555215	2.0671	1.41636	8.74237	3.54504
10:51:39				826	9.49895	0.4529565	1.9687	1.4652	8.79121	3.52444
10:51:39				827	9.49895	0.4483096	1.9687	1.4652	8.84005	3.48593
10:51:40				828	9.49895	0.4497525	1.9687	1.4652	8.79121	3.49788
10:51:40				829	9.49798	0.4515142	1.9687	1.41636	8.79121	3.51258
10:51:41				830	9.49798	0.4500715	1.9687	1.4652	8.44933	3.50062
10:51:41				831	9.49409	0.4497525	1.9687	1.4652	8.79121	3.49835
10:51:42				832	9.49214	0.4497525	1.9687	1.41636	9.23077	3.49854
10:51:42				833	9.48923	0.4489504	1.9687	1.41636	8.79121	3.49218
10:51:43				834	9.48923	0.4497525	1.9687	1.4652	8.74237	3.49882
10:51:43				835	9.48923	0.4502326	1.9687	1.41636	8.93773	3.5028
10:51:44				836	9.48923	0.4483096	1.9687	1.41636	8.74237	3.48687
10:51:44				837	9.4902	0.4478284	1.9687	1.4652	8.64469	3.48278
10:51:45				838	9.49117	0.4489504	1.9687	1.4652	8.69353	3.49199
10:51:45				839	9.4902	0.4481487	1.9687	1.4652	8.74237	3.48544
10:51:46				840	9.49117	0.4473473	1.9687	1.41636	8.79121	3.4787
10:51:46				841	9.48923	0.4455851	1.9687	1.41636	8.98657	3.46429
10:51:47				842	9.48625	0.4487894	1.9687	1.41636	8.93773	3.49113
10:51:47				843	9.49117	0.4518352	1.9687	1.41636	8.93773	3.5159
10:51:48				844	9.4902	0.4544001	1.8703	1.41636	8.88889	3.53728
10:51:49				847	9.48637	0.4478268	1.9687	1.41636	8.74237	3.48314

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:50				848	9.48734	0.4478268	1.772	1.4652	8.98657	3.48306
10:51:50				849	9.48831	0.4593665	1.9687	1.41636	9.03541	3.57868
10:51:51				850	9.49707	0.4515126	2.1655	1.4652	8.69353	3.51264
10:51:51				851	9.48929	0.4479861	1.9687	1.4652	8.64469	3.48418
10:51:52				852	9.48831	0.447505	1.772	1.4652	8.79121	3.4803
10:51:52				853	9.48929	0.4555199	1.8703	1.4652	9.08425	3.54666
10:51:53				854	9.48734	0.4500699	2.0671	1.41636	8.98657	3.50163
10:51:53				855	9.4922	0.4495898	2.0671	1.41636	8.74237	3.49718
10:51:54				856	9.49123	0.4484674	1.9687	1.41636	8.88889	3.48798
10:51:54				857	9.48929	0.4576032	1.8703	1.41636	8.88889	3.56395
10:51:55				858	9.49415	0.4527951	1.9687	1.4652	9.03541	3.52357
10:51:55				859	9.49707	0.4527951	2.0671	1.4652	8.64469	3.52328
10:51:56				860	9.49026	0.4487878	1.9687	1.4652	8.74237	3.49073
10:51:56				861	9.4922	0.4513529	1.8703	1.4652	8.84005	3.51181
10:51:57				862	9.49318	0.4516723	1.9687	1.4652	9.13309	3.51436
10:51:57				863	9.49609	0.4511917	2.0671	1.41636	8.74237	3.51008
10:51:58				864	9.49318	0.4492692	1.9687	1.41636	8.79121	3.49444
10:51:58				865	9.49123	0.4595269	1.8703	1.41636	8.74237	3.57972
10:51:59				866	9.49707	0.4577634	1.9687	1.4652	9.13309	3.5645
10:51:59				867	9.50193	0.453436	2.0671	1.41636	8.74237	3.52812
10:52:00				868	9.49415	0.4503905	1.9687	1.41636	8.69353	3.50364
10:52:00				869	9.49123	0.4537557	1.8703	1.4652	8.74237	3.53183
10:52:01				870	9.49512	0.4527951	1.8703	1.4652	9.08425	3.52348
10:52:01				871	9.49707	0.4527951	2.0671	1.4652	8.69353	3.52328
10:52:02				872	9.49804	0.4521529	1.9687	1.4652	8.69353	3.51787
10:52:02				873	9.49512	0.4579236	1.8703	1.41636	8.93773	3.56603
10:52:03				874	9.49804	0.4609695	1.8703	1.41636	8.84005	3.59102
10:52:03				875	9.5029	0.4551983	2.0671	1.41636	8.74237	3.54264
10:52:04				876	9.50096	0.4584045	1.9687	1.41636	8.44933	3.56944
10:52:04				877	9.5029	0.4574429	1.9687	1.4652	8.49817	3.56127
10:52:05				878	9.50484	0.4609695	1.9687	1.41636	8.74237	3.59034
10:52:05				879	9.50679	0.4566421	1.9687	1.41636	8.93773	3.55424
10:52:06				880	9.50782	0.45584	2.0671	1.4652	8.88889	3.54748
10:52:06				881	9.50582	0.4555199	1.9687	1.4652	8.69353	3.54503
10:52:07				882	9.50096	0.4515126	1.9687	1.41636	8.79121	3.51227
10:52:07				883	9.49707	0.4574429	1.8703	1.41636	8.88889	3.56185
10:52:08				884	9.49998	0.4563202	1.9687	1.41636	8.74237	3.55224
10:52:08				885	9.50096	0.4548783	2.0671	1.41636	8.79121	3.54018
10:52:09				886	9.49998	0.4537557	1.9687	1.41636	8.88889	3.53097
10:52:09				887	9.49707	0.454077	1.9687	1.41636	8.88889	3.53392
10:52:10				888	9.49707	0.4535958	1.9687	1.41636	8.79121	3.52993
10:52:10				889	9.49707	0.4531147	1.9687	1.4652	8.79121	3.52594
10:52:11				890	9.49415	0.4529549	2.0671	1.4652	8.74237	3.52489
10:52:11				891	9.49707	0.452474	1.9687	1.4652	8.64469	3.52062
10:52:12				892	9.49512	0.4519932	1.9687	1.41636	8.59585	3.51683

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:12				893	9.49415	0.4531147	1.9687	1.41636	8.69353	3.52622
10:52:13				894	9.49512	0.4547184	1.9687	1.41636	9.08425	3.53943
10:52:13				895	9.49707	0.4539172	1.9687	1.41636	9.42613	3.53259
10:52:14				896	9.49901	0.4511917	2.0671	1.41636	8.64469	3.5098
10:52:14				897	9.4922	0.4497492	1.8703	1.4652	8.69353	3.49851
10:52:15				898	9.49123	0.4527951	1.772	1.41636	8.79121	3.52387
10:52:15				899	9.4922	0.4537557	1.8703	1.4652	8.93773	3.53173
10:52:16				900	9.49318	0.4511917	1.8703	1.4652	8.88889	3.51038
10:52:16				901	9.49415	0.4491082	1.9687	1.4652	8.59585	3.49301
10:52:17				902	9.48831	0.4455819	1.772	1.4652	8.69353	3.46436
10:52:17				903	9.48248	0.4417357	1.6736	1.4652	8.84005	3.43308
10:52:18				904	9.48151	0.4449408	1.4768	1.41636	9.13309	3.45972
10:52:18				905	9.47956	0.4433383	1.4768	1.41636	8.84005	3.44664
10:52:19				906	9.47762	0.4425376	1.4768	1.41636	9.03541	3.44019
10:52:19				907	9.47956	0.4383703	1.3784	1.41636	9.18193	3.40551
10:52:20				908	9.47762	0.4401331	1.2801	1.4652	8.93773	3.42029
10:52:20				909	9.47859	0.4394924	1.1817	1.41636	8.84005	3.4149
10:52:21				910	9.47664	0.4382103	0.9849	1.4652	8.98657	3.40449
10:52:21				911	9.47373	0.4407739	0.9849	1.4652	9.08425	3.42598
10:52:22				912	9.47178	0.4383703	1.0833	1.4652	8.98657	3.40626
10:52:22				913	9.47081	0.3731582	0.9849	1.4652	8.98657	2.8699
10:52:23				914	9.47275	0.4378903	0.7881	1.41636	25.05495	3.40222
10:52:23				915	9.47373	0.437089	0.6898	1.41636	25.05495	3.3955
10:52:24				916	9.47178	0.4374088	0.7881	6.30037	43.71184	3.39832
10:52:24				917	9.47081	0.4374088	0.6898	9.37729	24.12698	3.39842
10:52:25				918	9.47373	0.4372489	0.6898	17.28938	36.77656	3.39682
10:52:25				919	9.48248	0.4374088	0.6898	4.98168	17.04518	3.39732
10:52:26				920	9.47859	0.4377303	0.5914	1.4652	4.29792	3.40035
10:52:26				921	9.47859	0.4382103	0.5914	1.41636	3.27228	3.40432
10:52:27				922	9.48637	0.4383703	0.5914	1.41636	2.49084	3.40491
10:52:27				923	9.49415	0.1567404	0.5914	1.36752	2.34432	1.14683
10:52:28				924	9.49998	0.0688056	0.5914	1.41636	2.14896	0.48479
10:52:28				925	9.51171	0.0660886	0.6898	0	0	0.46474
10:52:29	10:51:20 switch off			926	9.51949	0.0590567	0.6898	0	0	0.41338
10:56:08	10:54:50 switch on	0.5	180	7	10.67973	0.0114341	0.493	0	0	0.07515
10:56:09	dye started at switch on			8	10.68642	0.0138301	0.5914	0	0	0.09081
10:56:09	vertical profile			9	10.6912	0.0090382	0.493	0	0	0.05962
10:56:10				10	10.68069	0.3204822	0.493	0	0	2.36213
10:56:10				11	10.35182	0.4299061	0.5914	0	0	3.25645
10:56:11				12	9.73964	0.4308689	0.7881	0	0	3.31954
10:56:11				13	9.54828	0.3952936	0.9849	0	0	3.0447
10:56:12				14	9.50156	0.4299073	0.9849	0	0	3.33352
10:56:12				15	9.47628	0.430229	0.9849	0	0	3.33852
10:56:13				16	9.46941	0.4318302	1.1817	0	0	3.35238

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:13				17	9.46941	0.4308693	1.1817	0	0	3.34444
10:56:14				18	9.46941	0.4300682	1.0833	0	0	3.33782
10:56:14				19	9.46844	0.4299074	1.0833	0	0	3.33658
10:56:15				20	9.46455	0.4308693	1.1817	0	0	3.34489
10:56:15				21	9.4626	0.4315099	1.3784	0	0	3.35036
10:56:16				22	9.46455	0.4299074	1.2801	0	0	3.33693
10:56:16				23	9.46455	0.4294266	1.1817	0	0	3.33296
10:56:17				24	9.46455	0.4305491	1.1817	0	0	3.34224
10:56:17				25	9.46163	0.4311896	1.3784	0	0	3.3478
10:56:18				26	9.46066	0.4299074	1.3784	0	0	3.33729
10:56:18				27	9.46357	0.4291067	1.1817	0	0	3.33041
10:56:19				28	9.45871	0.4294266	1.1817	0	0	3.3335
10:56:19				29	9.45968	0.4305491	1.3784	0	0	3.34268
10:56:20				30	9.45676	0.4291067	1.4768	0	0	3.33102
10:56:20				31	9.45579	0.4291067	1.3784	0	0	3.33112
10:56:21				32	9.45482	0.4303883	1.4768	0	0	3.3418
10:56:21				33	9.45579	0.4291067	1.5752	0	0	3.33111
10:56:22				34	9.45774	0.4286262	1.4768	0	0	3.32696
10:56:22				35	9.45676	0.4292659	1.4768	0	0	3.33234
10:56:23				36	9.45774	0.4295874	1.4768	0	0	3.33491
10:56:23				37	9.45774	0.4286262	1.4768	0	0	3.32696
10:56:24				38	9.45871	0.4291067	1.5752	0	0	3.33084
10:56:24				39	9.45579	0.4291067	1.4768	0	0	3.33111
10:56:25				40	9.45482	0.4284655	1.4768	0	0	3.3259
10:56:25				41	9.45871	0.428946	1.4768	0	0	3.32952
10:56:26				42	9.45287	0.4297482	1.5752	0	0	3.33668
10:56:26				43	9.45385	0.4291068	1.5752	0	0	3.33129
10:56:27				44	9.45676	0.4283049	1.4768	0	0	3.3244
10:56:27				45	9.45579	0.4286262	1.3784	0	0	3.32715
10:56:28				46	9.45385	0.4292659	1.5752	0	0	3.3326
10:56:28				47	9.45482	0.428946	1.6736	0	0	3.32986
10:56:29				48	9.45871	0.4284655	1.5752	0	0	3.32554
10:56:29				49	9.45579	0.4284655	1.4768	0	0	3.32581
10:56:30				50	9.45774	0.428946	1.5752	0	0	3.3296
10:56:30				51	9.45774	0.4291067	1.5752	0	0	3.33093
10:56:31				52	9.45871	0.4284655	1.4768	0	0	3.32554
10:56:31				53	9.45579	0.4286262	1.4768	0	0	3.32714
10:56:32				54	9.45482	0.4291067	1.5752	0	0	3.3312
10:56:32				55	9.45676	0.4286262	1.5752	0	0	3.32705
10:56:33				56	9.45579	0.4286262	1.4768	0	0	3.32714
10:56:33				57	9.45482	0.428946	1.4768	0	0	3.32987
10:56:34				58	9.45774	0.428946	1.5752	0	0	3.3296
10:56:34				59	9.45579	0.428946	1.5752	0	0	3.32978
10:56:35				60	9.45482	0.4287853	1.5752	0	0	3.32854
10:56:35				61	9.45676	0.428946	1.4768	0	0	3.3297

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:36				62	9.45579	0.428946	1.4768	0	0	3.32979
10:56:36				63	9.45676	0.428946	1.5752	0	0	3.32969
10:56:37				64	9.45579	0.4291067	1.5752	0	0	3.33111
10:56:37				65	9.45676	0.4287853	1.5752	0	0	3.32836
10:56:38				66	9.45968	0.428946	1.4768	0	0	3.32943
10:56:38				67	9.45871	0.428946	1.5752	0	0	3.32951
10:56:39				68	9.45579	0.4291068	1.6736	0	0	3.3311
10:56:39				69	9.45968	0.428946	1.5752	0	0	3.32942
10:56:40				70	9.46066	0.428946	1.4768	0	0	3.32934
10:56:40				71	9.45871	0.428946	1.4768	0	0	3.32952
10:56:41				72	9.45871	0.4291067	1.5752	0	0	3.33084
10:56:41				73	9.45676	0.4291067	1.5752	0	0	3.33102
10:56:42				74	9.45676	0.4291067	1.5752	0	0	3.33102
10:56:42				75	9.45579	0.4291067	1.4768	0	0	3.33111
10:56:43				76	9.46066	0.4291067	1.4768	0	0	3.33066
10:56:43				77	9.45676	0.4292659	1.5752	0	0	3.33233
10:56:44				78	9.45968	0.4292659	1.6736	0	0	3.33206
10:56:44				79	9.45774	0.4292659	1.4768	0	0	3.33225
10:56:45				80	9.45774	0.428946	1.3784	0	0	3.32961
10:56:45				81	9.46066	0.4292659	1.5752	0	0	3.33197
10:56:46				82	9.45774	0.4291067	1.5752	0	0	3.33093
10:56:46				83	9.45676	0.4291067	1.5752	0	0	3.33102
10:56:47				84	9.45579	0.4291067	1.4768	0	0	3.33111
10:56:47				85	9.45676	0.4291067	1.5752	0	0	3.33102
10:56:48				86	9.45579	0.4291067	1.5752	0	0	3.33111
10:56:48				87	9.45871	0.4292659	1.5752	0	0	3.33215
10:56:49				88	9.45968	0.428946	1.4768	0	0	3.32943
10:56:49				89	9.45676	0.428946	1.5752	0	0	3.32969
10:56:50				90	9.45871	0.4291067	1.5752	0	0	3.33084
10:56:50				91	9.45482	0.4291068	1.6736	0	0	3.33119
10:56:51				92	9.45676	0.4284655	1.5752	0	0	3.32572
10:56:51				93	9.45871	0.4283049	1.5752	0	0	3.32421
10:56:52				94	9.45385	0.4287853	1.5752	0	0	3.32863
10:56:52				95	9.45774	0.4286262	1.5752	0	0	3.32696
10:56:53				96	9.45676	0.4281442	1.4768	0	0	3.32307
10:56:53				97	9.45579	0.4281442	1.5752	0	0	3.32315
10:56:54				98	9.45385	0.4284655	1.5752	0	0	3.32599
10:56:54				99	9.45676	0.4281442	1.5752	0	0	3.32306
10:56:55				100	9.45579	0.4278246	1.5752	0	0	3.32051
10:56:55				101	9.45287	0.4283049	1.5752	0	0	3.32475
10:56:56				102	9.44801	0.4281443	1.5752	0	0	3.32387
10:56:56				103	9.45093	0.4268628	1.5752	0.58608	0.2442	3.31301
10:56:57				104	9.44606	0.4271839	1.5752	0.34188	0.09768	3.31611
10:56:57				105	9.45093	0.4270234	1.5752	1.41636	0.92796	3.31434
10:56:58				106	9.44898	0.4273429	1.5752	1.41636	9.13309	3.31716

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:58				107	9.45093	0.4273429	1.5752	1.41636	9.47497	3.31698
10:56:59				108	9.44898	0.4271839	1.5752	1.41636	9.57265	3.31584
10:56:59				109	9.45093	0.4271839	1.5752	1.41636	9.42613	3.31566
10:57:00				110	9.45093	0.4270234	1.5752	1.41636	9.62149	3.31434
10:57:00				111	9.44995	0.4268628	1.5752	1.4652	9.52381	3.3131
10:57:01				112	9.45093	0.4268628	1.5752	1.41636	9.62149	3.31301
10:57:01				113	9.44703	0.4270234	1.5752	1.4652	9.52381	3.31469
10:57:02				114	9.45093	0.4270234	1.5752	1.4652	9.57265	3.31434
10:57:02				115	9.44995	0.4271839	1.5752	1.41636	9.52381	3.31575
10:57:03				116	9.45287	0.4275034	1.4768	1.4652	9.81685	3.31813
10:57:03				117	9.45482	0.4273428	1.5752	1.41636	9.86569	3.31662
10:57:04				118	9.45287	0.4275034	1.6736	1.41636	10.25641	3.31812
10:57:04				119	9.45482	0.4275034	1.6736	1.41636	9.47497	3.31794
10:57:05				120	9.45579	0.4273428	1.5752	1.41636	9.62149	3.31653
10:57:05				121	9.4519	0.4275034	1.4768	1.41636	9.47497	3.31822
10:57:06				122	9.45287	0.4273429	1.6736	1.4652	9.57265	3.31679
10:57:06				123	9.4519	0.4273429	1.6736	1.41636	9.37729	3.31688
10:57:07				124	9.4519	0.4273429	1.5752	1.41636	9.62149	3.31689
10:57:08				127	9.45391	0.4273158	1.6736	1.41636	9.67033	3.31647
10:57:09				128	9.45196	0.4273158	1.5752	1.41636	9.47497	3.31666
10:57:09				129	9.45683	0.4271569	1.4768	1.4652	9.62149	3.3149
10:57:10				130	9.45293	0.4271569	1.5752	1.41636	9.52381	3.31526
10:57:10				131	9.45585	0.4273158	1.5752	1.4652	9.57265	3.3163
10:57:11				132	9.45488	0.4273158	1.5752	1.41636	9.47497	3.31639
10:57:11				133	9.45293	0.4273158	1.4768	1.4652	9.57265	3.31657
10:57:12				134	9.45196	0.4273158	1.4768	1.41636	9.52381	3.31666
10:57:12				135	9.45196	0.4273158	1.5752	1.4652	9.42613	3.31666
10:57:13				136	9.45099	0.4273158	1.5752	1.41636	9.47497	3.31675
10:57:13				137	9.45293	0.4273158	1.5752	1.41636	9.47497	3.31657
10:57:14				138	9.45293	0.4273158	1.5752	1.4652	9.52381	3.31657
10:57:14				139	9.45391	0.4274764	1.5752	1.4652	9.47497	3.31781
10:57:15				140	9.45293	0.4274764	1.5752	1.41636	9.47497	3.3179
10:57:15				141	9.45391	0.427637	1.5752	1.41636	9.42613	3.31913
10:57:16				142	9.45293	0.4279582	1.5752	1.41636	9.37729	3.32188
10:57:16				143	9.45099	0.4273158	1.5752	1.41636	9.67033	3.31675
10:57:17				144	9.45391	0.4273158	1.5752	1.41636	9.08425	3.31648
10:57:17				145	9.45391	0.4274764	1.4768	1.4652	9.37729	3.31781
10:57:18				146	9.45585	0.427637	1.4768	1.41636	9.52381	3.31896
10:57:18				147	9.45293	0.427637	1.6736	1.4652	9.76801	3.31922
10:57:19				148	9.45391	0.4273158	1.5752	1.41636	9.37729	3.31648
10:57:19				149	9.45391	0.4271569	1.5752	1.41636	9.47497	3.31517
10:57:20				150	9.45585	0.4271569	1.4768	1.41636	9.62149	3.31499
10:57:20				151	9.45391	0.4273158	1.5752	1.41636	9.52381	3.31648
10:57:21				152	9.45391	0.4271569	1.6736	1.4652	9.57265	3.31516
10:57:21				153	9.45488	0.4271569	1.5752	1.41636	9.47497	3.31508

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:57:22				154	9.45683	0.4269963	1.4768	1.41636	9.42613	3.31358
10:57:22				155	9.45683	0.4268358	1.5752	1.41636	9.81685	3.31225
10:57:23				156	9.45488	0.4269963	1.5752	1.4652	9.47497	3.31375
10:57:23				157	9.45585	0.4269963	1.6736	1.36752	9.42613	3.31366
10:57:24				158	9.45293	0.4266753	1.4768	1.41636	9.67033	3.31128
10:57:24				159	9.45391	0.4268358	1.4768	1.4652	9.52381	3.31252
10:57:25				160	9.45488	0.4266753	1.5752	1.41636	9.42613	3.3111
10:57:25				161	9.45293	0.4271569	1.4768	1.41636	9.62149	3.31526
10:57:26				162	9.45391	0.4269963	1.5752	1.41636	9.76801	3.31384
10:57:26				163	9.45488	0.4277976	1.5752	1.4652	9.42613	3.32037
10:57:27				164	9.45391	0.4274764	1.5752	1.41636	9.47497	3.31781
10:57:27				165	9.45488	0.4271569	1.6736	1.41636	9.18193	3.31507
10:57:28				166	9.45585	0.4271569	1.5752	1.41636	9.42613	3.31499
10:57:28				167	9.45683	0.4273158	1.4768	1.4652	9.62149	3.31622
10:57:29				168	9.45585	0.4273158	1.5752	1.4652	9.81685	3.3163
10:57:29				169	9.45683	0.4273158	1.5752	1.41636	9.32845	3.31621
10:57:30				170	9.45683	0.4271569	1.5752	1.41636	9.47497	3.3149
10:57:30				171	9.45488	0.4271569	1.5752	1.41636	9.57265	3.31508
10:57:31				172	9.45585	0.4271569	1.5752	1.4652	9.32845	3.31499
10:57:31				173	9.45391	0.4271569	1.5752	1.41636	9.32845	3.31517
10:57:32				174	9.45391	0.4271569	1.5752	1.41636	9.81685	3.31517
10:57:32				175	9.45293	0.4271569	1.5752	1.41636	9.71917	3.31526
10:57:33				176	9.45585	0.4271569	1.5752	1.41636	9.32845	3.31499
10:57:33				177	9.45585	0.4271569	1.5752	1.41636	9.47497	3.31499
10:57:34				178	9.45585	0.4269963	1.5752	1.4652	9.67033	3.31366
10:57:34				179	9.45293	0.4273158	1.4768	1.4652	9.57265	3.31657
10:57:35				180	9.45585	0.4253934	1.5752	1.4652	10.06105	3.30042
10:57:35				181	9.45001	0.4261955	1.5752	1.41636	10.30525	3.30758
10:57:36				182	9.44904	0.4266753	1.5752	1.41636	9.32845	3.31163
10:57:36				183	9.45585	0.4271569	1.5752	1.41636	9.47497	3.31499
10:57:37				184	9.45585	0.4263544	1.5752	1.4652	9.57265	3.30836
10:57:37				185	9.45293	0.4268358	1.5752	1.41636	9.76801	3.3126
10:57:38				186	9.45391	0.4265148	1.5752	1.4652	9.37729	3.30986
10:57:38				187	9.45196	0.4266753	1.5752	1.4652	9.62149	3.31137
10:57:39				188	9.45488	0.4268358	1.5752	1.4652	9.42613	3.31242
10:57:39				189	9.45293	0.4269963	1.5752	1.4652	9.47497	3.31393
10:57:40				190	9.45683	0.4261955	1.5752	1.4652	9.27961	3.30695
10:57:40				191	9.45391	0.4268358	1.5752	1.4652	9.52381	3.31251
10:57:41				192	9.45391	0.4269963	1.5752	1.4652	9.47497	3.31384
10:57:41				193	9.45683	0.4271569	1.4768	1.4652	9.52381	3.3149
10:57:42				194	9.45391	0.4268358	1.4768	1.41636	9.27961	3.31252
10:57:42				195	9.45293	0.4268358	1.5752	1.4652	9.62149	3.3126
10:57:43				196	9.45196	0.4269963	1.5752	1.41636	9.47497	3.31402
10:57:43				197	9.45488	0.4266753	1.5752	1.4652	9.47497	3.3111
10:57:44				198	9.45488	0.4265148	1.4768	1.41636	9.71917	3.30978

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:57:44				199	9.45099	0.4266753	1.5752	1.41636	9.86569	3.31146
10:57:45				200	9.45196	0.4266753	1.5752	1.4652	9.47497	3.31137
10:57:45				201	9.45488	0.4266753	1.4768	1.4652	9.81685	3.3111
10:57:46				202	9.45293	0.4266753	1.4768	1.4652	9.57265	3.31128
10:57:46				203	9.45196	0.4266753	1.5752	1.4652	9.62149	3.31137
10:57:47				204	9.45391	0.4266753	1.5752	1.4652	9.47497	3.31119
10:57:47				205	9.45391	0.4263544	1.4768	1.4652	9.52381	3.30854
10:57:48				206	9.45293	0.4266753	1.5752	1.4652	9.67033	3.31128
10:57:48				207	9.45196	0.4266753	1.5752	1.4652	9.67033	3.31137
10:57:49				208	9.45391	0.4268358	1.5752	1.4652	9.81685	3.31251
10:57:49				209	9.45293	0.4266753	1.5752	1.41636	9.37729	3.31128
10:57:50				210	9.45196	0.4266753	1.5752	1.41636	9.27961	3.31137
10:57:50				211	9.45293	0.4266753	1.5752	1.41636	9.67033	3.31128
10:57:51				212	9.45293	0.4266753	1.5752	1.41636	9.57265	3.31128
10:57:51				213	9.45196	0.4269963	1.5752	1.41636	9.47497	3.31402
10:57:52				214	9.45293	0.4266753	1.5752	1.4652	9.81685	3.31128
10:57:52				215	9.45293	0.4268358	1.5752	1.4652	9.91453	3.3126
10:57:53				216	9.45293	0.4268358	1.4768	1.4652	9.57265	3.31261
10:57:53				217	9.45293	0.4273158	1.5752	1.41636	9.67033	3.31657
10:57:54				218	9.45683	0.4269963	1.5752	1.41636	9.71917	3.31357
10:57:54				219	9.45391	0.4269963	1.5752	1.41636	9.47497	3.31384
10:57:55				220	9.45293	0.4268358	1.5752	1.41636	9.52381	3.3126
10:57:55				221	9.45293	0.4269963	1.4768	1.41636	9.86569	3.31393
10:57:56				222	9.45293	0.4268358	1.5752	1.41636	9.81685	3.3126
10:57:56				223	9.45585	0.4268358	1.5752	1.41636	9.37729	3.31233
10:57:57				224	9.45293	0.4268358	1.5752	1.41636	9.47497	3.3126
10:57:57				225	9.45585	0.4261955	1.4768	1.41636	9.42613	3.30705
10:57:58				226	9.45293	0.4263544	1.5752	1.41636	9.57265	3.30862
10:57:58				227	9.45001	0.4263544	1.5752	1.41636	9.47497	3.30889
10:57:59				228	9.45099	0.4266753	1.5752	1.4652	9.57265	3.31146
10:57:59				229	9.45488	0.4263544	1.4768	1.41636	9.52381	3.30845
10:58:00				230	9.45488	0.4266753	1.5752	1.41636	9.62149	3.3111
10:58:00				231	9.45099	0.4266753	1.5752	1.41636	9.42613	3.31146
10:58:01				232	9.45391	0.4266753	1.5752	1.4652	9.57265	3.31119
10:58:01				233	9.45391	0.4268358	1.5752	1.4652	9.67033	3.31251
10:58:02				234	9.45293	0.4269963	1.5752	1.41636	9.47497	3.31393
10:58:02				235	9.45391	0.4268358	1.5752	1.41636	9.91453	3.31251
10:58:03				236	9.45391	0.4269963	1.5752	1.41636	9.32845	3.31384
10:58:03				237	9.45293	0.4269963	1.5752	1.41636	9.42613	3.31393
10:58:04				238	9.45293	0.4273158	1.5752	1.4652	9.96337	3.31657
10:58:04				239	9.45293	0.4271569	1.5752	1.4652	9.96337	3.31526
10:58:05				240	9.45391	0.4271569	1.5752	1.41636	9.32845	3.31517
10:58:05				241	9.45391	0.4271569	1.5752	1.4652	9.37729	3.31517
10:58:06				242	9.45585	0.4269963	1.5752	1.4652	9.67033	3.31366
10:58:06				243	9.45293	0.4269963	1.5752	1.41636	9.96337	3.31393

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:07				244	9.45683	0.4269963	1.5752	1.4652	9.62149	3.31357
10:58:08				247	9.45391	0.42699	1.5752	1.41636	9.32845	3.31379
10:58:09				248	9.45585	0.4274716	1.5752	1.41636	9.47497	3.31759
10:58:09				249	9.45488	0.4273111	1.5752	1.41636	9.52381	3.31635
10:58:10				250	9.45585	0.4273111	1.5752	1.41636	9.23077	3.31626
10:58:10				251	9.45683	0.4273111	1.5752	1.4652	9.47497	3.31617
10:58:11				252	9.45391	0.4277912	1.5752	1.4652	9.42613	3.32041
10:58:11				253	9.45585	0.4274716	1.5752	1.41636	9.18193	3.31759
10:58:12				254	9.45683	0.4276306	1.5752	1.4652	9.71917	3.31881
10:58:12				255	9.45683	0.4274716	1.5752	1.4652	9.86569	3.3175
10:58:13				256	9.45585	0.4271505	1.5752	1.41636	9.47497	3.31493
10:58:13				257	9.45488	0.4257079	1.4768	1.41636	9.42613	3.30311
10:58:14				258	9.45488	0.4268295	1.5752	1.41636	9.86569	3.31237
10:58:14				259	9.45585	0.4266705	1.5752	1.41636	9.47497	3.31097
10:58:15				260	9.45488	0.4271505	1.5752	1.4652	9.57265	3.31502
10:58:15				261	9.45585	0.4261891	1.5752	1.41636	9.57265	3.30699
10:58:16				262	9.45293	0.4265101	1.5752	1.41636	9.42613	3.30991
10:58:16				263	9.45488	0.4265101	1.5752	1.4652	9.67033	3.30973
10:58:17				264	9.45293	0.4260287	1.5752	1.41636	9.37729	3.30593
10:58:17				265	9.45585	0.4263496	1.5752	1.41636	9.62149	3.30832
10:58:18				266	9.45391	0.4265101	1.5752	1.4652	9.42613	3.30982
10:58:18				267	9.45488	0.4266705	1.4768	1.41636	9.47497	3.31106
10:58:19				268	9.45391	0.4257079	1.4768	1.4652	9.76801	3.3032
10:58:19				269	9.45488	0.4263496	1.5752	1.4652	9.67033	3.30841
10:58:20				270	9.45488	0.4265101	1.5752	1.4652	9.52381	3.30973
10:58:20				271	9.45683	0.4265101	1.5752	1.4652	9.08425	3.30955
10:58:21				272	9.45391	0.4258683	1.4768	1.36752	9.57265	3.30452
10:58:21				273	9.45488	0.4257079	1.4768	1.4652	9.42613	3.30311
10:58:22				274	9.45293	0.4255475	1.5752	1.41636	9.71917	3.30196
10:58:22				275	9.45293	0.4257079	1.6736	1.4652	9.47497	3.30328
10:58:23				276	9.45488	0.4261891	1.4768	1.4652	9.42613	3.30709
10:58:23				277	9.45585	0.4255475	1.2801	1.4652	9.76801	3.30171
10:58:24				278	9.45099	0.4257079	1.5752	1.41636	9.86569	3.30346
10:58:24				279	9.45293	0.4258683	1.6736	1.36752	9.47497	3.3046
10:58:25				280	9.45196	0.4261891	1.4768	1.41636	9.62149	3.30735
10:58:25				281	9.45196	0.4255475	1.3784	1.41636	9.57265	3.30206
10:58:26				282	9.45196	0.4257079	1.5752	1.4652	10.06105	3.30337
10:58:26				283	9.45099	0.4257079	1.5752	1.41636	9.62149	3.30346
10:58:27				284	9.45391	0.4260287	1.5752	1.4652	9.52381	3.30584
10:58:27				285	9.45196	0.4257079	1.4768	1.41636	9.52381	3.30338
10:58:28				286	9.45196	0.4255475	1.5752	1.41636	9.76801	3.30205
10:58:28				287	9.45099	0.4257079	1.5752	1.41636	9.71917	3.30346
10:58:29				288	9.45391	0.4257079	1.5752	1.41636	9.23077	3.30319
10:58:29				289	9.45099	0.4255475	1.5752	1.41636	9.37729	3.30214
10:58:30				290	9.45293	0.4257079	1.5752	1.41636	9.57265	3.30328

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:30				291	9.45196	0.4255475	1.5752	1.4652	9.76801	3.30205
10:58:31				292	9.45099	0.4255475	1.5752	1.41636	9.67033	3.30214
10:58:31				293	9.45391	0.4253871	1.5752	1.4652	9.47497	3.30054
10:58:32				294	9.45001	0.4253871	1.5752	1.41636	9.37729	3.3009
10:58:32				295	9.45196	0.4253871	1.5752	1.4652	9.62149	3.30072
10:58:33				296	9.45196	0.4253871	1.5752	1.41636	9.52381	3.30072
10:58:33				297	9.45099	0.4253871	1.5752	1.4652	9.47497	3.30081
10:58:34				298	9.45293	0.4253871	1.4768	1.41636	9.67033	3.30064
10:58:34				299	9.45293	0.4253871	1.5752	1.4652	9.42613	3.30063
10:58:35				300	9.45099	0.4253871	1.5752	1.41636	9.47497	3.30081
10:58:35				301	9.45099	0.4253871	1.5752	1.41636	9.27961	3.30081
10:58:36				302	9.45099	0.4253871	1.5752	1.4652	9.08425	3.30081
10:58:36				303	9.45196	0.4253871	1.4768	1.41636	9.62149	3.30073
10:58:37				304	9.45099	0.4253871	1.5752	1.41636	9.52381	3.30081
10:58:37				305	9.45099	0.4253871	1.5752	1.41636	9.57265	3.30081
10:58:38				306	9.45196	0.4253871	1.5752	1.4652	9.37729	3.30072
10:58:38				307	9.45099	0.4253871	1.5752	1.4652	9.62149	3.30081
10:58:39				308	9.45099	0.4253871	1.5752	1.4652	9.52381	3.30081
10:58:39				309	9.45099	0.4253871	1.5752	1.41636	9.57265	3.30081
10:58:40				310	9.45099	0.4253871	1.5752	1.41636	9.37729	3.30081
10:58:40				311	9.45293	0.4253871	1.5752	1.41636	9.27961	3.30063
10:58:41				312	9.45099	0.4253871	1.5752	1.41636	9.52381	3.30081
10:58:41				313	9.45099	0.4253871	1.5752	1.41636	9.32845	3.30081
10:58:42				314	9.45099	0.4255475	1.5752	1.41636	9.62149	3.30214
10:58:42				315	9.45099	0.4253871	1.5752	1.41636	9.57265	3.30081
10:58:43				316	9.45001	0.4253871	1.5752	1.41636	9.47497	3.3009
10:58:43				317	9.45099	0.4253871	1.4768	1.4652	9.57265	3.30082
10:58:44				318	9.45001	0.4255475	1.5752	1.41636	9.67033	3.30223
10:58:44				319	9.45391	0.4253871	1.5752	1.41636	9.96337	3.30054
10:58:45				320	9.45293	0.4253871	1.5752	1.41636	9.62149	3.30063
10:58:45				321	9.45099	0.4253871	1.4768	1.4652	9.52381	3.30082
10:58:46				322	9.45001	0.4253871	1.4768	1.4652	9.62149	3.30091
10:58:46				323	9.44904	0.4253871	1.5752	1.41636	9.52381	3.30099
10:58:47				324	9.45099	0.4253871	1.5752	1.41636	9.57265	3.30081
10:58:47				325	9.45099	0.4253871	1.5752	1.41636	9.52381	3.30081
10:58:48				326	9.45099	0.4253871	1.5752	1.41636	9.32845	3.30081
10:58:48				327	9.45099	0.4255475	1.4768	1.41636	9.42613	3.30214
10:58:49				328	9.45099	0.4253871	1.5752	1.41636	9.86569	3.30081
10:58:49				329	9.44807	0.4253871	1.5752	1.41636	9.57265	3.30108
10:58:50				330	9.44904	0.4253871	1.5752	1.41636	9.52381	3.30099
10:58:50				331	9.45001	0.4253871	1.4768	1.41636	9.42613	3.30091
10:58:51				332	9.45099	0.4253871	1.3784	1.4652	9.42613	3.30082
10:58:51				333	9.45099	0.4253871	1.5752	1.4652	9.76801	3.30081
10:58:52				334	9.45001	0.4253871	1.6736	1.41636	9.71917	3.30089
10:58:52				335	9.45293	0.4253871	1.6736	1.41636	9.47497	3.30063

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:53				336	9.45001	0.4252283	1.3784	1.41636	9.52381	3.2996
10:58:53				337	9.44904	0.4253871	1.2801	1.41636	9.42613	3.301
10:58:54				338	9.45001	0.4253871	1.4768	1.4652	9.91453	3.30091
10:58:54				339	9.45293	0.4253871	1.6736	1.41636	9.57265	3.30063
10:58:55				340	9.45196	0.4253871	1.5752	1.41636	9.37729	3.30072
10:58:55				341	9.45196	0.4253871	1.3784	1.4652	9.42613	3.30073
10:58:56				342	9.45196	0.4252283	1.4768	1.4652	9.76801	3.29942
10:58:56				343	9.44904	0.4253871	1.6736	1.41636	9.71917	3.30098
10:58:57				344	9.45293	0.4253871	1.6736	1.41636	9.62149	3.30063
10:58:57				345	9.45099	0.4253871	1.4768	1.41636	9.47497	3.30082
10:58:58				346	9.45099	0.4253871	1.3784	1.4652	9.81685	3.30082
10:58:58				347	9.44904	0.4253871	1.5752	1.41636	9.81685	3.30099
10:58:59				348	9.45099	0.4253871	1.6736	1.36752	9.47497	3.30081
10:58:59				349	9.45001	0.4253871	1.5752	1.4652	9.52381	3.3009
10:59:00				350	9.44904	0.4253871	1.5752	1.4652	9.42613	3.30099
10:59:00				351	9.44904	0.4253871	1.4768	1.41636	9.57265	3.30099
10:59:01				352	9.45196	0.4257079	1.4768	1.4652	9.47497	3.30338
10:59:01				353	9.45099	0.4253871	1.5752	1.41636	9.81685	3.30081
10:59:02				354	9.45099	0.4252283	1.5752	1.41636	9.57265	3.2995
10:59:02				355	9.44904	0.4252283	1.5752	1.4652	9.52381	3.29968
10:59:03				356	9.45001	0.4255475	1.4768	1.4652	9.71917	3.30223
10:59:03				357	9.4471	0.4252283	1.5752	1.41636	9.67033	3.29986
10:59:04				358	9.4471	0.4252283	1.5752	1.41636	9.71917	3.29986
10:59:04				359	9.44807	0.4252283	1.5752	1.4652	9.67033	3.29977
10:59:05				360	9.44807	0.4253871	1.4768	1.4652	9.52381	3.30108
10:59:05				361	9.45099	0.4253871	1.5752	1.41636	9.71917	3.30081
10:59:06				362	9.44904	0.4253871	1.6736	1.4652	9.47497	3.30098
10:59:06				363	9.44904	0.4252283	1.5752	1.41636	9.71917	3.29968
10:59:07				364	9.45001	0.4252283	1.4768	1.41636	9.57265	3.29959
10:59:08				367	9.4508	0.425222	1.5752	1.41636	9.47497	3.29946
10:59:09				368	9.4508	0.4255427	1.4768	1.4652	9.86569	3.30212
10:59:09				369	9.44983	0.4253823	1.5752	1.4652	9.91453	3.30088
10:59:10				370	9.45178	0.4253823	1.5752	1.41636	9.62149	3.3007
10:59:10				371	9.44983	0.4253823	1.4768	1.41636	9.37729	3.30088
10:59:11				372	9.45275	0.4258619	1.4768	1.4652	9.76801	3.30458
10:59:11				373	9.45275	0.4255427	1.5752	1.4652	9.96337	3.30194
10:59:12				374	9.45178	0.4255427	1.5752	1.41636	9.52381	3.30202
10:59:12				375	9.4508	0.4253823	1.5752	1.41636	9.47497	3.30079
10:59:13				376	9.45178	0.4253823	1.5752	1.4652	9.47497	3.3007
10:59:13				377	9.45178	0.4255427	1.5752	1.4652	9.91453	3.30202
10:59:14				378	9.4508	0.4257031	1.5752	1.41636	9.57265	3.30344
10:59:14				379	9.45275	0.4263432	1.5752	1.41636	9.47497	3.30855
10:59:15				380	9.45275	0.4257031	1.5752	1.4652	9.67033	3.30326
10:59:15				381	9.45275	0.4255427	1.5752	1.4652	9.37729	3.30194
10:59:16				382	9.45275	0.4255427	1.5752	1.41636	9.52381	3.30194

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:59:16				383	9.44983	0.4253823	1.4768	1.41636	9.67033	3.30088
10:59:17				384	9.44983	0.4250616	1.4768	1.4652	9.37729	3.29823
10:59:17				385	9.45275	0.4257031	1.5752	1.41636	9.37729	3.30326
10:59:18				386	9.45275	0.4253823	1.5752	1.41636	9.62149	3.30061
10:59:18				387	9.45178	0.4253823	1.5752	1.41636	9.27961	3.3007
10:59:19				388	9.45476	0.425222	1.4768	1.4652	9.57265	3.29911
10:59:19				389	9.45372	0.4257031	1.4768	1.4652	9.81685	3.30318
10:59:20				390	9.45275	0.4253823	1.5752	1.41636	9.62149	3.30061
10:59:20				391	9.45275	0.4253823	1.6736	1.41636	9.47497	3.3006
10:59:21				392	9.45178	0.4253823	1.5752	1.4652	9.52381	3.3007
10:59:21				393	9.45275	0.4253823	1.4768	1.4652	9.62149	3.30062
10:59:22				394	9.45275	0.4253823	1.4768	1.41636	9.81685	3.30062
10:59:22				395	9.4508	0.4276258	1.5752	1.41636	9.67033	3.31933
10:59:23				396	9.4508	0.4257031	1.5752	1.41636	9.86569	3.30344
10:59:23				397	9.4508	0.4253823	1.6736	1.4652	9.32845	3.30078
10:59:24				398	9.45178	0.4253823	1.5752	1.41636	9.71917	3.3007
10:59:24				399	9.44983	0.4250616	1.4768	1.41636	9.57265	3.29823
10:59:25				400	9.44983	0.4257031	1.4768	1.41636	9.86569	3.30353
10:59:25				401	9.45178	0.4258619	1.5752	1.41636	9.71917	3.30466
10:59:26				402	9.44983	0.4258619	1.5752	1.41636	9.67033	3.30484
10:59:26				403	9.45178	0.4253823	1.5752	1.41636	9.71917	3.3007
10:59:27				404	9.4508	0.4250616	1.4768	1.41636	9.71917	3.29814
10:59:27				405	9.45178	0.4282667	1.4768	1.4652	9.62149	3.32454
10:59:28				406	9.4508	0.4282667	1.5752	1.41636	9.91453	3.32462
10:59:28				407	9.45476	0.4263432	1.6736	1.4652	9.81685	3.30836
10:59:29				408	9.44983	0.4253823	1.5752	1.4652	9.52381	3.30088
10:59:29				409	9.44789	0.4253823	1.4768	1.41636	9.52381	3.30106
10:59:30				410	9.4508	0.425222	1.4768	1.41636	10.30525	3.29947
10:59:30				411	9.44983	0.4253823	1.4768	1.4652	9.67033	3.30088
10:59:31				412	9.44983	0.4253823	1.5752	1.4652	9.91453	3.30088
10:59:31				413	9.44983	0.425222	1.6736	1.41636	9.76801	3.29955
10:59:32				414	9.45178	0.4253823	1.5752	1.41636	9.67033	3.3007
10:59:32				415	9.4508	0.4253823	1.3784	1.4652	9.67033	3.3008
10:59:33				416	9.4508	0.4253823	1.4768	1.4652	9.81685	3.30079
10:59:33				417	9.4508	0.4253823	1.5752	1.41636	9.76801	3.30079
10:59:34				418	9.44886	0.4253823	1.6736	1.4652	9.57265	3.30096
10:59:34				419	9.45178	0.425222	1.5752	1.41636	9.62149	3.29937
10:59:35				420	9.4508	0.425222	1.4768	1.41636	9.52381	3.29947
10:59:35				421	9.44983	0.4253823	1.4768	1.4652	9.62149	3.30088
10:59:36				422	9.4508	0.4253823	1.4768	1.4652	9.42613	3.30079
10:59:36				423	9.44983	0.4253823	1.5752	1.41636	9.37729	3.30088
10:59:37				424	9.4508	0.4253823	1.5752	1.41636	9.67033	3.30079
10:59:37				425	9.44983	0.4271442	1.4768	1.41636	9.67033	3.31544
10:59:38				426	9.44789	0.4260224	1.5752	1.4652	9.57265	3.30634
10:59:38				427	9.4508	0.4253823	1.5752	1.4652	9.67033	3.30079

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:59:39				428	9.4508	0.4255427	1.5752	1.41636	9.76801	3.30211
10:59:39				429	9.44983	0.425222	1.4768	1.4652	9.52381	3.29956
10:59:40				430	9.44983	0.4253823	1.5752	1.41636	9.81685	3.30088
10:59:40				431	9.44983	0.4253823	1.5752	1.41636	9.47497	3.30088
10:59:41				432	9.4508	0.4253823	1.4768	1.4652	9.71917	3.30079
10:59:41				433	9.45178	0.4253823	1.5752	1.4652	9.71917	3.3007
10:59:42				434	9.45178	0.4253823	1.5752	1.4652	9.67033	3.3007
10:59:42				435	9.45178	0.4258619	1.4768	1.41636	9.57265	3.30467
10:59:43				436	9.4508	0.4258619	1.5752	1.41636	9.76801	3.30475
10:59:43				437	9.4508	0.4255427	1.5752	1.41636	9.57265	3.30211
10:59:44				438	9.45275	0.4253823	1.5752	1.41636	9.57265	3.30061
10:59:44				439	9.45178	0.4271441	1.4768	1.4652	9.52381	3.31526
10:59:45				440	9.45178	0.4258619	1.5752	1.4652	9.86569	3.30466
10:59:45				441	9.4508	0.4255427	1.5752	1.41636	9.57265	3.30211
10:59:46				442	9.4508	0.4250616	1.4768	1.41636	9.42613	3.29814
10:59:46				443	9.4508	0.4250616	1.4768	1.41636	9.67033	3.29814
10:59:47				444	9.45275	0.4250616	1.5752	1.41636	9.42613	3.29796
10:59:47				445	9.45178	0.425222	1.4768	1.4652	9.62149	3.29938
10:59:48				446	9.45275	0.425222	1.4768	1.41636	9.47497	3.29929
10:59:48				447	9.4508	0.4250616	1.5752	1.4652	9.57265	3.29814
10:59:49				448	9.4508	0.4250616	1.5752	1.41636	9.57265	3.29814
10:59:49				449	9.45275	0.4250616	1.4768	1.41636	9.62149	3.29797
10:59:50				450	9.45178	0.4250616	1.4768	1.41636	9.71917	3.29805
10:59:50				451	9.45275	0.4250616	1.5752	1.41636	9.67033	3.29796
10:59:51				452	9.45275	0.4250616	1.5752	1.4652	9.52381	3.29796
10:59:51				453	9.4508	0.4250616	1.3784	1.41636	9.47497	3.29815
10:59:52				454	9.44886	0.4250616	1.4768	1.4652	9.86569	3.29832
10:59:52				455	9.4508	0.4250616	1.5752	1.4652	9.96337	3.29814
10:59:53				456	9.45275	0.4250616	1.4768	1.41636	9.52381	3.29797
10:59:53				457	9.4508	0.4250616	1.3784	1.4652	9.67033	3.29815
10:59:54				458	9.44983	0.4250616	1.4768	1.41636	9.91453	3.29823
10:59:54				459	9.44983	0.4250616	1.4768	1.41636	9.71917	3.29823
10:59:55				460	9.4508	0.4250616	1.4768	1.4652	9.76801	3.29814
10:59:55				461	9.44886	0.4250616	1.4768	1.4652	9.81685	3.29832
10:59:56				462	9.44691	0.4250616	1.5752	1.4652	9.71917	3.29849
10:59:56				463	9.44789	0.4250616	1.5752	1.41636	9.62149	3.29841
10:59:57				464	9.4508	0.4250616	1.4768	1.41636	9.86569	3.29814
10:59:57				465	9.44886	0.4249013	1.4768	1.41636	9.76801	3.297
10:59:58				466	9.44789	0.4250616	1.5752	1.41636	9.67033	3.29841
10:59:58				467	9.44886	0.4250616	1.5752	1.41636	9.23077	3.29832
10:59:59				468	9.4508	0.4250616	1.4768	1.4652	9.96337	3.29814
10:59:59				469	9.44789	0.4249013	1.5752	1.4652	10.10989	3.29708
11:00:00				470	9.44886	0.4249013	1.4768	1.41636	9.71917	3.297
11:00:00				471	9.44983	0.4255427	1.5752	1.4652	9.67033	3.3022
11:00:01				472	9.4508	0.4250616	1.5752	1.4652	9.96337	3.29814

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:01				473	9.4508	0.4249013	1.5752	1.41636	9.27961	3.29681
11:00:02				474	9.4508	0.4249013	1.4768	1.41636	9.67033	3.29682
11:00:02				475	9.44886	0.4249013	1.4768	1.41636	9.71917	3.297
11:00:03				476	9.44983	0.4249013	1.4768	1.41636	9.71917	3.29691
11:00:03				477	9.44886	0.4249013	1.5752	1.4652	9.76801	3.29699
11:00:04				478	9.44983	0.4249013	1.5752	1.4652	9.81685	3.2969
11:00:04				479	9.44886	0.4250616	1.5752	1.4652	9.67033	3.29832
11:00:05				480	9.44983	0.4249013	1.4768	1.41636	9.67033	3.29691
11:00:05				481	9.4508	0.4250616	1.3784	1.41636	9.57265	3.29815
11:00:06				482	9.4508	0.425222	1.5752	1.41636	10.10989	3.29946
11:00:06				483	9.44789	0.4250616	1.6736	1.41636	9.81685	3.2984
11:00:07				484	9.44789	0.4249013	1.5752	1.41636	9.57265	3.29708
11:00:08				487	9.44849	0.4250727	1.4768	1.41636	9.62149	3.29845
11:00:09				488	9.44953	0.4252331	1.5752	1.4652	9.52381	3.29967
11:00:09				489	9.44849	0.4250727	1.5752	1.4652	9.67033	3.29844
11:00:10				490	9.4505	0.4250727	1.5752	1.41636	9.67033	3.29826
11:00:10				491	9.45147	0.4250727	1.3784	1.4652	9.42613	3.29818
11:00:11				492	9.4505	0.4255538	1.3784	1.41636	9.47497	3.30224
11:00:11				493	9.44953	0.4252331	1.5752	1.41636	9.76801	3.29967
11:00:12				494	9.45245	0.4250727	1.6736	1.41636	9.57265	3.29808
11:00:12				495	9.45147	0.4249124	1.4768	1.4652	9.52381	3.29685
11:00:13				496	9.45342	0.4250727	1.4768	1.41636	9.76801	3.298
11:00:13				497	9.45439	0.4249124	1.4768	1.41636	9.62149	3.29658
11:00:14				498	9.45147	0.4249124	1.5752	1.4652	9.62149	3.29684
11:00:14				499	9.45147	0.4250727	1.4768	1.4652	9.62149	3.29817
11:00:15				500	9.45147	0.4249124	1.4768	1.4652	9.76801	3.29685
11:00:15				501	9.45342	0.4252331	1.4768	1.4652	10.54945	3.29932
11:00:16				502	9.4505	0.4249124	1.5752	1.4652	9.81685	3.29693
11:00:16				503	9.45245	0.4249124	1.5752	1.41636	9.57265	3.29676
11:00:17				504	9.45245	0.4249124	1.4768	1.41636	9.71917	3.29676
11:00:17				505	9.4505	0.4252331	1.4768	1.4652	9.52381	3.29959
11:00:18				506	9.4505	0.4250727	1.5752	1.41636	9.57265	3.29826
11:00:18				507	9.45147	0.4250727	1.5752	1.41636	9.57265	3.29817
11:00:19				508	9.45147	0.4250727	1.4768	1.41636	9.67033	3.29817
11:00:19				509	9.4505	0.4250727	1.4768	1.41636	9.62149	3.29826
11:00:20				510	9.4505	0.4250727	1.5752	1.41636	9.42613	3.29826
11:00:20				511	9.4505	0.4249124	1.5752	1.4652	9.57265	3.29693
11:00:21				512	9.45147	0.4249124	1.4768	1.4652	9.71917	3.29685
11:00:21				513	9.45147	0.4249124	1.4768	1.41636	9.96337	3.29685
11:00:22				514	9.45439	0.4250727	1.5752	1.4652	9.62149	3.2979
11:00:22				515	9.45537	0.4249124	1.5752	1.4652	9.42613	3.29649
11:00:23				516	9.45342	0.4249124	1.5752	1.41636	9.47497	3.29667
11:00:23				517	9.45634	0.4250727	1.4768	1.4652	9.37729	3.29773
11:00:24				518	9.45245	0.4252331	1.4768	1.4652	9.96337	3.29941
11:00:24				519	9.45245	0.4255538	1.5752	1.41636	10.15873	3.30205

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:25				520	9.4505	0.4252331	1.5752	1.41636	9.42613	3.29958
11:00:25				521	9.45147	0.4252331	1.5752	1.4652	9.67033	3.29949
11:00:26				522	9.45147	0.4252331	1.4768	1.41636	9.57265	3.2995
11:00:26				523	9.45147	0.4250727	1.4768	1.41636	9.71917	3.29817
11:00:27				524	9.45147	0.4250727	1.4768	1.41636	9.52381	3.29817
11:00:27				525	9.44953	0.4252331	1.5752	1.41636	9.52381	3.29967
11:00:28				526	9.45147	0.4250727	1.4768	1.41636	9.81685	3.29817
11:00:28				527	9.4505	0.4250727	1.4768	1.4652	9.96337	3.29826
11:00:29				528	9.45245	0.4250727	1.5752	1.41636	9.86569	3.29808
11:00:29				529	9.45245	0.4250727	1.4768	1.4652	9.37729	3.29809
11:00:30				530	9.45342	0.4252331	1.4768	1.4652	9.62149	3.29932
11:00:30				531	9.45245	0.4255538	1.4768	1.4652	9.86569	3.30206
11:00:31				532	9.4505	0.4253934	1.5752	1.4652	9.47497	3.30091
11:00:31				533	9.45439	0.4250727	1.5752	1.4652	9.67033	3.2979
11:00:32				534	9.45245	0.4250727	1.4768	1.4652	9.67033	3.29809
11:00:32				535	9.45147	0.4250727	1.4768	1.4652	9.76801	3.29817
11:00:33				536	9.45342	0.4250727	1.5752	1.41636	9.42613	3.29799
11:00:33				537	9.45439	0.4250727	1.5752	1.4652	9.71917	3.2979
11:00:34				538	9.45342	0.4250727	1.5752	1.41636	9.67033	3.29799
11:00:34				539	9.45342	0.4249124	1.4768	1.4652	9.71917	3.29667
11:00:35				540	9.45634	0.4257142	1.4768	1.41636	9.76801	3.30303
11:00:35				541	9.45147	0.4253934	1.5752	1.41636	9.86569	3.30082
11:00:36				542	9.4505	0.4253935	1.6736	1.41636	9.52381	3.3009
11:00:36				543	9.45147	0.4252331	1.5752	1.41636	9.57265	3.29949
11:00:37				544	9.44953	0.4253934	1.3784	1.41636	9.91453	3.30101
11:00:37				545	9.44849	0.4255538	1.4768	1.41636	10.10989	3.30242
11:00:38				546	9.45147	0.4252331	1.5752	1.41636	9.76801	3.29949
11:00:38				547	9.45342	0.4250727	1.5752	1.41636	9.71917	3.29799
11:00:39				548	9.45245	0.4247521	1.3784	1.41636	9.62149	3.29544
11:00:39				549	9.45147	0.4252331	1.4768	1.4652	9.62149	3.2995
11:00:40				550	9.45245	0.4249124	1.5752	1.41636	9.91453	3.29676
11:00:40				551	9.45147	0.4247521	1.6736	1.41636	9.57265	3.29552
11:00:41				552	9.45245	0.4249124	1.5752	1.4652	9.47497	3.29676
11:00:41				553	9.45342	0.4250727	1.3784	1.4652	9.47497	3.298
11:00:42				554	9.4505	0.4245934	1.4768	1.4652	9.67033	3.2943
11:00:42				555	9.44953	0.4250727	1.6736	1.4652	9.81685	3.29834
11:00:43				556	9.44953	0.4249124	1.6736	1.4652	9.57265	3.29702
11:00:43				557	9.4505	0.4247521	1.3784	1.41636	9.76801	3.29562
11:00:44				558	9.45147	0.4250727	1.2801	1.4652	9.71917	3.29818
11:00:44				559	9.45147	0.4252331	1.5752	1.4652	9.86569	3.29949
11:00:45				560	9.45147	0.4250727	1.6736	1.41636	9.62149	3.29816
11:00:45				561	9.45245	0.4247521	1.5752	1.4652	9.67033	3.29543
11:00:46				562	9.45147	0.4249124	1.3784	1.4652	28.03419	3.29686
11:00:46				563	9.45245	0.4269963	1.4768	1.41636	12.16117	3.31398
11:00:47				564	9.45147	0.4253934	1.5752	1.4652	9.91453	3.30082

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:47				565	9.4505	0.4250727	1.6736	1.4652	9.71917	3.29825
11:00:48				566	9.44953	0.4250727	1.5752	1.41636	9.47497	3.29835
11:00:48				567	9.45245	0.4247521	1.4768	1.4652	9.62149	3.29544
11:00:49				568	9.44953	0.4245934	1.4768	1.4652	9.62149	3.29439
11:00:49				569	9.4505	0.4247521	1.5752	1.41636	9.91453	3.29561
11:00:50				570	9.44849	0.4247521	1.5752	1.4652	9.27961	3.29579
11:00:50				571	9.44953	0.4245934	1.5752	1.4652	9.62149	3.29439
11:00:51				572	9.45342	0.4245934	1.4768	1.41636	9.76801	3.29404
11:00:51				573	9.45147	0.4245934	1.5752	1.4652	9.86569	3.29421
11:00:52				574	9.4505	0.4245934	1.4768	1.4652	9.71917	3.2943
11:00:52				575	9.4505	0.4245934	1.5752	1.41636	9.67033	3.2943
11:00:53				576	9.4505	0.4245934	1.4768	1.4652	9.62149	3.2943
11:00:53				577	9.4505	0.4247521	1.4768	1.4652	9.52381	3.29561
11:00:54				578	9.4505	0.4245934	1.4768	1.41636	9.76801	3.2943
11:00:54				579	9.44752	0.4245934	1.4768	1.41636	9.47497	3.29458
11:00:55				580	9.4505	0.4245934	1.5752	1.4652	9.71917	3.2943
11:00:55				581	9.44849	0.4245934	1.5752	1.41636	9.81685	3.29448
11:00:56				582	9.4505	0.4245934	1.4768	1.4652	9.62149	3.2943
11:00:56				583	9.4505	0.4244331	1.4768	1.4652	9.42613	3.29298
11:00:57				584	9.44953	0.4245934	1.5752	1.41636	9.86569	3.29439
11:00:57				585	9.44849	0.4245934	1.5752	1.4652	9.42613	3.29448
11:00:58				586	9.44953	0.4245934	1.5752	1.4652	9.67033	3.29439
11:00:58				587	9.44849	0.4245934	1.4768	1.41636	9.76801	3.29449
11:00:59				588	9.45147	0.4245934	1.5752	1.4652	9.27961	3.29421
11:00:59				589	9.44752	0.4244331	1.4768	1.4652	9.76801	3.29325
11:01:00				590	9.44752	0.4244331	1.5752	1.41636	10.35409	3.29325
11:01:00				591	9.44849	0.4245934	1.5752	1.41636	9.86569	3.29448
11:01:01				592	9.44752	0.4244331	1.4768	1.4652	9.67033	3.29325
11:01:01				593	9.44752	0.4244331	1.4768	1.41636	9.71917	3.29325
11:01:02				594	9.44655	0.4244331	1.4768	1.4652	9.67033	3.29334
11:01:02				595	9.4505	0.4244331	1.4768	1.4652	9.57265	3.29298
11:01:03				596	9.44849	0.4244331	1.5752	1.41636	9.76801	3.29316
11:01:03				597	9.44558	0.4244331	1.5752	1.4652	9.52381	3.29342
11:01:04				598	9.44752	0.4244331	1.4768	1.4652	9.47497	3.29325
11:01:04				599	9.44558	0.4244331	1.4768	1.41636	9.81685	3.29343
11:01:05				600	9.44849	0.4244331	1.5752	1.4652	10.10989	3.29316
11:01:05				601	9.44558	0.4244331	1.5752	1.4652	9.76801	3.29342
11:01:06				602	9.44849	0.4244331	1.4768	1.41636	9.62149	3.29316
11:01:06				603	9.44655	0.4244331	1.3784	1.4652	9.62149	3.29335
11:01:07				604	9.44849	0.4247521	1.4768	1.4652	9.81685	3.2958
11:01:08				607	9.44661	0.4244299	1.3784	1.4652	9.62149	3.29331
11:01:09				608	9.44953	0.4245902	1.4768	1.41636	9.91453	3.29437
11:01:09				609	9.44466	0.4245902	1.5752	1.4652	9.81685	3.29481
11:01:10				610	9.44855	0.4245902	1.5752	1.4652	9.47497	3.29445
11:01:10				611	9.44953	0.4250712	1.5752	1.41636	9.67033	3.29833

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:11				612	9.44758	0.4247505	1.4768	1.4652	9.47497	3.29587
11:01:11				613	9.44953	0.4249108	1.4768	1.4652	9.62149	3.29701
11:01:12				614	9.44564	0.4250712	1.4768	1.4652	9.76801	3.2987
11:01:12				615	9.44661	0.4249108	1.5752	1.4652	9.67033	3.29728
11:01:13				616	9.44564	0.4249108	1.5752	1.4652	9.52381	3.29737
11:01:13				617	9.44855	0.4247505	1.4768	1.4652	9.62149	3.29578
11:01:14				618	9.44564	0.4250712	1.3784	1.4652	9.57265	3.2987
11:01:14				619	9.44272	0.4250712	1.5752	1.4652	9.67033	3.29896
11:01:15				620	9.44564	0.4250712	1.5752	1.4652	9.62149	3.29869
11:01:15				621	9.44661	0.4250712	1.4768	1.4652	9.57265	3.29861
11:01:16				622	9.44466	0.4253919	1.4768	1.4652	9.62149	3.30143
11:01:16				623	9.44466	0.4250712	1.4768	1.4652	9.57265	3.29878
11:01:17				624	9.44661	0.4249108	1.4768	1.4652	9.42613	3.29728
11:01:17				625	9.44466	0.4247505	1.4768	1.4652	9.71917	3.29614
11:01:18				626	9.44466	0.4249108	1.5752	1.41636	9.76801	3.29745
11:01:18				627	9.44466	0.4249108	1.4768	1.4652	9.47497	3.29746
11:01:19				628	9.44369	0.4252315	1.4768	1.4652	9.71917	3.3002
11:01:19				629	9.44369	0.4250712	1.4768	1.41636	9.67033	3.29887
11:01:20				630	9.44661	0.4249108	1.4768	1.4652	9.57265	3.29728
11:01:20				631	9.44564	0.4250712	1.4768	1.41636	9.67033	3.2987
11:01:21				632	9.44369	0.4250712	1.4768	1.4652	9.71917	3.29887
11:01:21				633	9.44758	0.4249108	1.4768	1.41636	9.76801	3.29719
11:01:22				634	9.44466	0.4245902	1.4768	1.41636	9.62149	3.29481
11:01:22				635	9.44758	0.4245902	1.4768	1.41636	10.10989	3.29454
11:01:23				636	9.44758	0.4245902	1.5752	1.41636	9.71917	3.29454
11:01:23				637	9.44855	0.4247505	1.4768	1.41636	9.57265	3.29578
11:01:24				638	9.44758	0.4247505	1.3784	1.41636	9.62149	3.29587
11:01:24				639	9.4505	0.4245902	1.5752	1.41636	9.81685	3.29427
11:01:25				640	9.44855	0.4245902	1.5752	1.41636	9.62149	3.29445
11:01:25				641	9.44661	0.4245902	1.4768	1.4652	9.57265	3.29463
11:01:26				642	9.44758	0.4245902	1.4768	1.4652	9.71917	3.29454
11:01:26				643	9.44758	0.4245902	1.3784	1.4652	9.76801	3.29455
11:01:27				644	9.44758	0.4245902	1.5752	1.4652	9.81685	3.29454
11:01:27				645	9.4505	0.4245902	1.5752	1.41636	9.67033	3.29427
11:01:28				646	9.44953	0.4245902	1.4768	1.41636	9.42613	3.29437
11:01:28				647	9.4505	0.4245902	1.4768	1.4652	9.76801	3.29428
11:01:29				648	9.44758	0.4245902	1.5752	1.4652	9.57265	3.29454
11:01:29				649	9.44758	0.4245902	1.4768	1.4652	9.71917	3.29454
11:01:30				650	9.4505	0.4245902	1.4768	1.4652	9.62149	3.29428
11:01:30				651	9.44758	0.4244299	1.4768	1.4652	10.15873	3.29322
11:01:31				652	9.44855	0.4245902	1.5752	1.4652	10.06105	3.29445
11:01:31				653	9.44758	0.4245902	1.5752	1.4652	9.47497	3.29454
11:01:32				654	9.44855	0.4244299	1.4768	1.4652	9.47497	3.29313
11:01:32				655	9.44855	0.4244299	1.4768	1.4652	9.76801	3.29313
11:01:33				656	9.44855	0.4244299	1.5752	1.4652	9.76801	3.29313

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:33				657	9.44953	0.4244299	1.5752	1.41636	9.47497	3.29304
11:01:34				658	9.45147	0.4244299	1.4768	1.4652	9.67033	3.29286
11:01:34				659	9.4505	0.4244299	1.4768	1.4652	9.71917	3.29295
11:01:35				660	9.44855	0.4245902	1.4768	1.41636	9.52381	3.29446
11:01:35				661	9.44758	0.4244299	1.5752	1.41636	9.86569	3.29321
11:01:36				662	9.44855	0.4244299	1.4768	1.4652	9.47497	3.29313
11:01:36				663	9.4505	0.4244299	1.4768	1.41636	9.76801	3.29295
11:01:37				664	9.44953	0.4244299	1.4768	1.4652	9.71917	3.29304
11:01:37				665	9.44953	0.4244299	1.5752	1.4652	9.81685	3.29304
11:01:38				666	9.4505	0.4244299	1.5752	1.41636	9.67033	3.29295
11:01:38				667	9.45147	0.4244299	1.5752	1.41636	9.71917	3.29286
11:01:39				668	9.4505	0.4244299	1.4768	1.4652	9.42613	3.29295
11:01:39				669	9.44855	0.4244299	1.4768	1.41636	9.47497	3.29313
11:01:40				670	9.44953	0.4244299	1.4768	1.4652	10.01221	3.29304
11:01:40				671	9.44661	0.4244299	1.5752	1.4652	9.96337	3.2933
11:01:41				672	9.44855	0.4245902	1.5752	1.41636	9.67033	3.29445
11:01:41				673	9.4505	0.4245902	1.4768	1.4652	9.62149	3.29428
11:01:42				674	9.44855	0.4250712	1.4768	1.4652	9.62149	3.29843
11:01:42				675	9.44855	0.4247505	1.6736	1.4652	9.91453	3.29577
11:01:43				676	9.44855	0.4245902	1.5752	1.4652	9.47497	3.29445
11:01:43				677	9.45147	0.4244299	1.3784	1.4652	9.62149	3.29287
11:01:44				678	9.44855	0.4249108	1.3784	1.41636	9.57265	3.29711
11:01:44				679	9.44953	0.4244299	1.5752	1.4652	9.91453	3.29304
11:01:45				680	9.44855	0.4245902	1.5752	1.41636	9.67033	3.29445
11:01:45				681	9.44953	0.4244299	1.4768	1.41636	9.76801	3.29304
11:01:46				682	9.44758	0.4244299	1.4768	1.4652	9.62149	3.29322
11:01:46				683	9.44661	0.4244299	1.4768	1.41636	9.96337	3.29331
11:01:47				684	9.44564	0.4244299	1.5752	1.41636	10.35409	3.29339
11:01:47				685	9.44466	0.4244299	1.5752	1.41636	9.67033	3.29348
11:01:48				686	9.44758	0.4244299	1.4768	1.41636	9.76801	3.29322
11:01:48				687	9.44661	0.4244299	1.4768	1.41636	10.06105	3.29331
11:01:49				688	9.44466	0.4244299	1.4768	1.41636	10.69597	3.29349
11:01:49				689	9.44661	0.4242697	1.4768	1.41636	9.96337	3.29198
11:01:50				690	9.44564	0.4244299	1.5752	1.4652	10.10989	3.29339
11:01:50				691	9.44564	0.4244299	1.4768	1.4652	9.71917	3.2934
11:01:51				692	9.44661	0.4244299	1.4768	1.4652	9.76801	3.29331
11:01:51				693	9.44758	0.4244299	1.5752	1.4652	9.91453	3.29321
11:01:52				694	9.44758	0.4244299	1.5752	1.4652	9.67033	3.29321
11:01:52				695	9.44661	0.4242697	1.3784	1.4652	9.71917	3.29199
11:01:53				696	9.44855	0.4244299	1.4768	1.4652	9.91453	3.29313
11:01:53				697	9.44855	0.4244299	1.5752	1.41636	9.81685	3.29313
11:01:54				698	9.44758	0.4244299	1.4768	1.4652	9.62149	3.29322
11:01:54				699	9.44661	0.4241094	1.4768	1.4652	9.81685	3.29066
11:01:55				700	9.44758	0.4242697	1.5752	1.41636	9.96337	3.29189
11:01:55				701	9.44661	0.4244299	1.5752	1.41636	9.76801	3.2933

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:56				702	9.44855	0.4242696	1.3784	1.4652	9.86569	3.29181
11:01:56				703	9.44855	0.4242697	1.4768	1.41636	10.15873	3.29181
11:01:57				704	9.44855	0.4242697	1.5752	1.4652	9.57265	3.2918
11:01:57				705	9.44758	0.4242697	1.5752	1.4652	9.67033	3.29189
11:01:58				706	9.44953	0.4242697	1.4768	1.41636	9.71917	3.29172
11:01:58				707	9.44758	0.4242697	1.4768	1.4652	10.15873	3.2919
11:01:59				708	9.44855	0.4242697	1.5752	1.4652	10.10989	3.2918
11:01:59				709	9.44661	0.4244299	1.5752	1.41636	9.76801	3.2933
11:02:00				710	9.44758	0.4242696	1.3784	1.4652	9.67033	3.2919
11:02:00				711	9.44758	0.4242697	1.4768	1.4652	10.10989	3.2919
11:02:01				712	9.44564	0.4242697	1.5752	1.4652	9.81685	3.29207
11:02:01				713	9.44758	0.4242697	1.5752	1.4652	9.81685	3.29189
11:02:02				714	9.44758	0.4242697	1.4768	1.41636	9.62149	3.2919
11:02:02				715	9.44855	0.4241094	1.4768	1.41636	9.81685	3.29048
11:02:03				716	9.44855	0.4242697	1.5752	1.4652	9.91453	3.2918
11:02:03				717	9.44758	0.4242697	1.5752	1.41636	9.76801	3.29189
11:02:04				718	9.44855	0.4241094	1.4768	1.41636	9.91453	3.29048
11:02:04				719	9.4505	0.4239492	1.4768	1.41636	9.91453	3.28898
11:02:05				720	9.44953	0.4239492	1.5752	1.41636	9.71917	3.28907
11:02:05				721	9.44855	0.4241094	1.4768	1.4652	9.62149	3.29048
11:02:06				722	9.45147	0.4242696	1.4768	1.4652	9.86569	3.29154
11:02:06				723	9.44758	0.4245902	1.4768	1.4652	10.01221	3.29454
11:02:07				724	9.44564	0.4244299	1.5752	1.4652	9.57265	3.29339
11:02:08				727	9.4474	0.4244299	1.4768	1.4652	10.01221	3.29324
11:02:09				728	9.4474	0.4245902	1.6736	1.41636	10.15873	3.29455
11:02:09				729	9.4474	0.4244299	1.772	1.41636	9.57265	3.29322
11:02:10				730	9.44843	0.4242697	1.6736	1.4652	9.71917	3.29181
11:02:10				731	9.44941	0.4244299	1.5752	1.41636	9.76801	3.29305
11:02:11				732	9.4474	0.4244299	1.6736	1.4652	9.96337	3.29323
11:02:11				733	9.44843	0.4244299	1.772	1.4652	9.62149	3.29313
11:02:12				734	9.44843	0.4241094	1.6736	1.41636	9.71917	3.29048
11:02:12				735	9.44843	0.4241094	1.6736	1.4652	10.01221	3.29048
11:02:13				736	9.4474	0.4241094	1.6736	1.4652	9.71917	3.29058
11:02:13				737	9.44843	0.4241094	1.772	1.41636	9.71917	3.29048
11:02:14				738	9.4474	0.4241094	1.772	1.4652	9.62149	3.29057
11:02:14				739	9.45038	0.4242697	1.6736	1.4652	10.06105	3.29163
11:02:15				740	9.4474	0.4242697	1.772	1.41636	9.81685	3.2919
11:02:15				741	9.44941	0.4241094	1.8703	1.4652	9.62149	3.29039
11:02:16				742	9.44941	0.4242697	1.8703	1.41636	9.57265	3.29171
11:02:16				743	9.44643	0.4249108	1.772	1.41636	9.81685	3.29728
11:02:17				744	9.4474	0.4249108	1.9687	1.41636	10.06105	3.29718
11:02:17				745	9.44643	0.4250712	1.9687	1.41636	9.57265	3.2986
11:02:18				746	9.44843	0.4255523	1.8703	1.41636	9.81685	3.30239
11:02:18				747	9.4474	0.4253919	1.8703	1.4652	9.81685	3.30116
11:02:19				748	9.44941	0.4253919	1.9687	1.41636	9.62149	3.30097

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:19				749	9.44941	0.4255523	1.9687	1.4652	9.52381	3.3023
11:02:20				750	9.44843	0.4239492	1.9687	1.4652	9.86569	3.28915
11:02:20				751	9.44843	0.4245902	1.9687	1.4652	10.01221	3.29444
11:02:21				752	9.44843	0.4249108	1.9687	1.4652	9.91453	3.29709
11:02:21				753	9.4474	0.4244299	1.9687	1.41636	9.71917	3.29321
11:02:22				754	9.45038	0.4244299	1.9687	1.4652	9.96337	3.29294
11:02:22				755	9.4474	0.4247505	1.9687	1.4652	9.86569	3.29586
11:02:23				756	9.45038	0.4239492	1.9687	1.41636	9.47497	3.28897
11:02:23				757	9.4474	0.4242697	1.9687	1.41636	9.86569	3.29189
11:02:24				758	9.44941	0.4244299	1.9687	1.4652	9.81685	3.29303
11:02:24				759	9.45038	0.4245902	1.9687	1.36752	9.81685	3.29426
11:02:25				760	9.44843	0.4245902	1.9687	1.41636	9.76801	3.29444
11:02:25				761	9.44843	0.4244299	1.9687	1.4652	9.96337	3.29312
11:02:26				762	9.4474	0.4244299	1.9687	1.41636	9.62149	3.29321
11:02:26				763	9.44843	0.4247505	1.9687	1.4652	10.10989	3.29577
11:02:27				764	9.44941	0.4245902	1.9687	1.4652	9.81685	3.29435
11:02:27				765	9.44941	0.4244299	1.9687	1.4652	9.81685	3.29303
11:02:28				766	9.44843	0.4253919	1.9687	1.4652	9.67033	3.30106
11:02:28				767	9.45038	0.4252315	1.9687	1.4652	10.15873	3.29956
11:02:29				768	9.44643	0.4252315	2.0671	1.41636	10.35409	3.29992
11:02:29				769	9.44545	0.4250712	2.0671	1.41636	9.52381	3.29868
11:02:30				770	9.44843	0.4245902	1.9687	1.41636	9.76801	3.29444
11:02:30				771	9.4474	0.4257127	1.9687	1.41636	9.91453	3.30381
11:02:31				772	9.4474	0.4249108	2.0671	1.41636	9.81685	3.29718
11:02:31				773	9.44643	0.4250712	1.9687	1.41636	9.42613	3.2986
11:02:32				774	9.44843	0.4244299	2.0671	1.41636	9.76801	3.29311
11:02:32				775	9.4474	0.4242697	1.9687	1.4652	9.86569	3.29189
11:02:33				776	9.44643	0.4249108	1.9687	1.4652	9.62149	3.29727
11:02:33				777	9.44843	0.4249108	1.9687	1.4652	9.71917	3.29709
11:02:34				778	9.44941	0.4249108	1.9687	1.41636	9.86569	3.297
11:02:34				779	9.44843	0.4247505	1.9687	1.4652	9.67033	3.29577
11:02:35				780	9.4474	0.4247505	1.9687	1.41636	9.57265	3.29586
11:02:35				781	9.44843	0.4252315	1.9687	1.41636	9.86569	3.29974
11:02:36				782	9.44843	0.4247505	2.0671	1.41636	9.96337	3.29576
11:02:36				783	9.44843	0.4247505	2.0671	1.41636	9.47497	3.29576
11:02:37				784	9.44843	0.4245902	1.9687	1.41636	9.47497	3.29444
11:02:37				785	9.44643	0.4241094	1.9687	1.41636	9.81685	3.29065
11:02:38				786	9.44843	0.4249108	1.9687	1.4652	9.76801	3.29709
11:02:38				787	9.44545	0.4244299	2.0671	1.41636	9.96337	3.29338
11:02:39				788	9.44545	0.4242697	2.0671	1.4652	9.62149	3.29206
11:02:39				789	9.44843	0.423789	1.8703	1.4652	9.81685	3.28783
11:02:40				790	9.44941	0.4239492	1.8703	1.4652	9.76801	3.28906
11:02:40				791	9.44843	0.4241094	1.9687	1.4652	10.20757	3.29047
11:02:41				792	9.4474	0.4241094	2.0671	1.41636	9.71917	3.29056
11:02:41				793	9.4474	0.423789	1.9687	1.41636	9.81685	3.28792

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:42				794	9.44643	0.4244299	1.9687	1.41636	9.76801	3.2933
11:02:42				795	9.44843	0.4239492	1.9687	1.41636	9.62149	3.28915
11:02:43				796	9.44843	0.4250712	1.9687	1.41636	9.57265	3.29841
11:02:43				797	9.4474	0.4247505	1.9687	1.41636	10.06105	3.29586
11:02:44				798	9.44643	0.4241094	2.0671	1.41636	10.10989	3.29065
11:02:44				799	9.44941	0.4241094	2.0671	1.4652	9.62149	3.29038
11:02:45				800	9.4474	0.423789	2.0671	1.4652	9.76801	3.28791
11:02:45				801	9.44545	0.4239492	2.0671	1.4652	9.62149	3.28941
11:02:46				802	9.4474	0.4239492	2.0671	1.4652	9.47497	3.28923
11:02:46				803	9.44545	0.4242697	1.9687	1.41636	9.86569	3.29206
11:02:47				804	9.44448	0.4241094	2.0671	1.41636	9.91453	3.29082
11:02:47				805	9.4474	0.4241094	2.1655	1.41636	9.57265	3.29055
11:02:48				806	9.4474	0.4241094	2.0671	1.41636	9.96337	3.29056
11:02:48				807	9.44843	0.4241094	2.0671	1.41636	9.76801	3.29046
11:02:49				808	9.4474	0.4245902	2.0671	1.4652	9.67033	3.29453
11:02:49				809	9.44643	0.4245902	2.0671	1.41636	9.86569	3.29462
11:02:50				810	9.44545	0.42443	2.1655	1.4652	9.81685	3.29338
11:02:50				811	9.4474	0.4245902	2.1655	1.4652	9.62149	3.29453
11:02:51				812	9.44545	0.4265133	2.2639	1.4652	9.47497	3.31059
11:02:51				813	9.44545	0.4261939	2.3623	1.41636	9.71917	3.30794
11:02:52				814	9.4474	0.4258731	2.3623	1.41636	9.71917	3.30511
11:02:52				815	9.44843	0.4300396	2.3623	1.41636	9.52381	3.33946
11:02:53				816	9.45038	0.4268343	2.4606	1.41636	9.91453	3.31278
11:02:53				817	9.44941	0.4266738	2.4606	1.41636	9.37729	3.31154
11:02:54				818	9.45135	0.427796	2.4606	1.41636	9.47497	3.32064
11:02:54				819	9.45135	0.4269948	2.4606	1.41636	9.71917	3.31402
11:02:55				820	9.4533	0.4268343	2.559	1.4652	9.62149	3.3125
11:02:55				821	9.44941	0.4265133	2.4606	1.4652	9.62149	3.31022
11:02:56				822	9.44941	0.4271553	2.4606	1.4652	9.42613	3.31552
11:02:56				823	9.44941	0.4273159	2.4606	1.4652	9.52381	3.31685
11:02:57				824	9.45233	0.4269948	2.559	1.4652	9.37729	3.31392
11:02:57				825	9.45135	0.4268343	2.4606	1.41636	9.62149	3.31269
11:02:58				826	9.45038	0.4319626	2.4606	1.41636	9.57265	3.35518
11:02:58				827	9.45135	0.4281157	2.559	1.4652	9.47497	3.32327
11:02:59				828	9.45233	0.4274748	2.559	1.41636	9.32845	3.31789
11:02:59				829	9.45038	0.4274748	2.4606	1.41636	9.52381	3.31807
11:03:00				830	9.44843	0.4292389	2.4606	1.4652	9.57265	3.33283
11:03:00				831	9.4533	0.428437	2.559	1.41636	9.52381	3.32575
11:03:01				832	9.45038	0.427796	2.4606	1.4652	9.42613	3.32073
11:03:01				833	9.45135	0.4268343	2.4606	1.4652	9.76801	3.31269
11:03:02				834	9.44843	0.4297196	2.4606	1.41636	9.57265	3.33681
11:03:02				835	9.4474	0.4276354	2.4606	1.4652	9.76801	3.31967
11:03:03				836	9.45038	0.4276354	2.559	1.41636	9.86569	3.31939
11:03:03				837	9.44643	0.4265133	2.4606	1.41636	9.71917	3.31049
11:03:04				838	9.45038	0.4261939	2.4606	1.41636	9.71917	3.30749

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:04				839	9.44843	0.4342054	2.4606	1.41636	9.62149	3.37392
11:03:05				840	9.4533	0.4295588	2.559	1.4652	9.71917	3.33502
11:03:05				841	9.4533	0.4279566	2.559	1.4652	9.37729	3.32178
11:03:06				842	9.45038	0.4292389	2.3623	1.4652	9.37729	3.33266
11:03:06				843	9.4533	0.4343666	2.4606	1.4652	9.81685	3.3748
11:03:07				844	9.45524	0.4313219	2.6574	1.41636	9.52381	3.34942
11:03:08				847	9.45269	0.432452	2.4606	1.41636	9.76801	3.35901
11:03:09				848	9.45464	0.4297275	2.6574	1.41636	9.52381	3.33629
11:03:09				849	9.45561	0.4290861	2.6574	1.4652	9.57265	3.3309
11:03:10				850	9.45269	0.4284449	2.559	1.41636	9.42613	3.32587
11:03:10				851	9.45366	0.4310096	2.4606	1.4652	9.32845	3.34699
11:03:11				852	9.45561	0.4327726	2.559	1.4652	9.62149	3.36139
11:03:11				853	9.45658	0.4298883	2.559	1.4652	9.52381	3.33744
11:03:12				854	9.45464	0.4308487	2.559	1.4652	9.37729	3.34557
11:03:12				855	9.45464	0.4300476	2.559	1.41636	9.42613	3.33894
11:03:13				856	9.45366	0.4338942	2.559	1.41636	9.62149	3.37085
11:03:13				857	9.45755	0.4306894	2.6574	1.41636	9.52381	3.34397
11:03:14				858	9.45464	0.4310096	2.559	1.41636	9.52381	3.3469
11:03:14				859	9.45269	0.4300476	2.559	1.41636	9.52381	3.33912
11:03:15				860	9.45561	0.434215	2.4606	1.4652	9.67033	3.37332
11:03:15				861	9.45755	0.4313298	2.6574	1.41636	9.42613	3.34927
11:03:16				862	9.45755	0.4308487	2.559	1.4652	9.32845	3.34529
11:03:16				863	9.45658	0.4326115	2.559	1.41636	9.57265	3.35996
11:03:17				864	9.45658	0.4314908	2.559	1.4652	9.62149	3.35069
11:03:17				865	9.45464	0.4306894	2.6574	1.4652	9.23077	3.34424
11:03:18				866	9.45464	0.4313298	2.559	1.41636	9.32845	3.34954
11:03:18				867	9.45658	0.4310096	2.559	1.41636	9.37729	3.34672
11:03:19				868	9.45658	0.4303692	2.559	1.4652	9.37729	3.34142
11:03:19				869	9.45561	0.4334138	2.559	1.41636	9.37729	3.36669
11:03:20				870	9.45658	0.4305285	2.559	1.4652	9.76801	3.34274
11:03:20				871	9.45269	0.4292468	2.559	1.4652	9.52381	3.3325
11:03:21				872	9.45074	0.4338942	2.559	1.4652	9.47497	3.37112
11:03:21				873	9.45366	0.4310096	2.559	1.4652	9.81685	3.34699
11:03:22				874	9.45366	0.4314908	2.6574	1.41636	9.47497	3.35096
11:03:22				875	9.45366	0.4303692	2.559	1.41636	9.52381	3.34169
11:03:23				876	9.45269	0.4319706	2.559	1.41636	9.47497	3.35502
11:03:23				877	9.45561	0.4326115	2.559	1.41636	9.62149	3.36005
11:03:24				878	9.45561	0.4321316	2.6574	1.4652	9.47497	3.35608
11:03:24				879	9.45366	0.4310096	2.559	1.41636	9.37729	3.34699
11:03:25				880	9.45464	0.4302084	2.559	1.4652	9.42613	3.34027
11:03:25				881	9.45464	0.4353359	2.559	1.4652	9.37729	3.38269
11:03:26				882	9.45658	0.4354973	2.6574	1.4652	9.76801	3.38383
11:03:26				883	9.45658	0.4313298	2.6574	1.4652	9.62149	3.34936
11:03:27				884	9.45658	0.4318111	2.6574	1.41636	9.52381	3.35334
11:03:27				885	9.45172	0.4332527	2.559	1.41636	9.47497	3.36572

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:28				886	9.45561	0.4422281	2.4606	1.4652	9.67033	3.43967
11:03:28				887	9.45853	0.4330932	2.6574	1.4652	9.27961	3.36376
11:03:29				888	9.45853	0.4326115	2.6574	1.41636	9.23077	3.35978
11:03:29				889	9.45366	0.4343746	2.559	1.4652	9.42613	3.37482
11:03:30				890	9.45658	0.4354973	2.559	1.4652	9.42613	3.38384
11:03:30				891	9.46047	0.4350165	2.559	1.4652	9.47497	3.3795
11:03:31				892	9.46242	0.4332527	2.6574	1.4652	9.18193	3.36472
11:03:31				893	9.4595	0.4321316	2.6574	1.41636	9.03541	3.35572
11:03:32				894	9.45755	0.4308487	2.559	1.41636	9.52381	3.34529
11:03:32				895	9.45658	0.4401444	2.559	1.41636	9.67033	3.42231
11:03:33				896	9.46242	0.4354973	2.6574	1.41636	9.57265	3.38329
11:03:33				897	9.46242	0.432452	2.6574	1.41636	9.32845	3.3581
11:03:34				898	9.45658	0.4303692	2.559	1.4652	9.27961	3.34142
11:03:34				899	9.45755	0.4380616	2.4606	1.4652	9.42613	3.40498
11:03:35				900	9.46242	0.4374201	2.559	1.4652	9.62149	3.3992
11:03:35				901	9.46534	0.435657	2.6574	1.41636	9.18193	3.38433
11:03:36				902	9.4595	0.4314908	2.559	1.41636	9.23077	3.35042
11:03:36				903	9.45853	0.439824	2.559	1.41636	9.52381	3.41947
11:03:37				904	9.46047	0.4369388	2.559	1.41636	9.62149	3.3954
11:03:37				905	9.46436	0.4364576	2.6574	1.41636	9.27961	3.39105
11:03:38				906	9.46242	0.4353359	2.559	1.4652	9.37729	3.38196
11:03:38				907	9.46242	0.4396638	2.559	1.41636	9.52381	3.41778
11:03:39				908	9.46047	0.4420677	2.559	1.4652	9.37729	3.43787
11:03:39				909	9.46631	0.4393436	2.6574	1.4652	9.37729	3.41475
11:03:40				910	9.46242	0.4330932	2.559	1.4652	9.18193	3.3634
11:03:40				911	9.46047	0.4362978	2.559	1.4652	9.42613	3.3901
11:03:41				912	9.46145	0.441747	2.559	1.41636	9.42613	3.43512
11:03:41				913	9.46242	0.4354973	2.6574	1.4652	9.52381	3.38329
11:03:42				914	9.46339	0.4364576	2.6574	1.41636	9.23077	3.39114
11:03:42				915	9.46242	0.4351762	2.559	1.41636	9.42613	3.38063
11:03:43				916	9.46047	0.4340538	2.6574	1.4652	9.57265	3.37153
11:03:43				917	9.46242	0.4374201	2.559	1.4652	9.37729	3.3992
11:03:44				918	9.46145	0.4359782	2.559	1.41636	9.96337	3.38736
11:03:44				919	9.45853	0.4385416	2.6574	1.4652	9.47497	3.40885
11:03:45				920	9.46145	0.4354973	2.6574	1.41636	9.32845	3.38338
11:03:45				921	9.46145	0.4332527	2.6574	1.41636	9.42613	3.36481
11:03:46				922	9.4595	0.4321316	2.559	1.4652	9.18193	3.35572
11:03:46				923	9.45658	0.4353359	2.559	1.41636	9.27961	3.3825
11:03:47				924	9.46145	0.4433496	2.559	1.4652	9.71917	3.4484
11:03:47				925	9.46728	0.436138	2.6574	1.4652	9.03541	3.38813
11:03:48				926	9.46047	0.4305285	2.559	1.41636	9.08425	3.34238
11:03:48				927	9.46145	0.4467153	2.559	1.4652	9.52381	3.4763
11:03:49				928	9.46631	0.4395037	2.6574	1.4652	9.47497	3.41608
11:03:49				929	9.46826	0.436619	2.6574	1.41636	8.98657	3.39202
11:03:50				930	9.46242	0.4362978	2.559	1.41636	9.13309	3.38991

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:50				931	9.46339	0.4422281	2.4606	1.41636	9.27961	3.43893
11:03:51				932	9.46631	0.4420677	2.559	1.41636	9.62149	3.43732
11:03:51				933	9.46728	0.4387016	2.6574	1.4652	8.98657	3.40935
11:03:52				934	9.46534	0.435657	2.559	1.4652	9.13309	3.38434
11:03:52				935	9.46534	0.4423885	2.559	1.4652	9.37729	3.44007
11:03:53				936	9.46826	0.4380616	2.6574	1.4652	9.42613	3.40396
11:03:53				937	9.46631	0.4383816	2.559	1.4652	9.13309	3.40679
11:03:54				938	9.46631	0.4396638	2.559	1.4652	9.27961	3.41741
11:03:54				939	9.46534	0.4393436	2.559	1.41636	9.42613	3.41485
11:03:55				940	9.46631	0.4390218	2.559	1.41636	9.03541	3.41209
11:03:55				941	9.46826	0.4382216	2.6574	1.4652	9.23077	3.40528
11:03:56				942	9.46534	0.4385416	2.559	1.41636	9.27961	3.40821
11:03:56				943	9.46631	0.4489585	2.559	1.4652	9.27961	3.49443
11:03:57				944	9.47117	0.441266	2.6574	1.4652	9.96337	3.43021
11:03:57				945	9.4702	0.4391835	2.6574	1.41636	8.88889	3.41306
11:03:58				946	9.46534	0.4353359	2.4606	1.4652	9.08425	3.38169
11:03:58				947	9.46436	0.4613004	2.4606	1.41636	9.37729	3.5971
11:03:59				948	9.47117	0.4423885	2.6574	1.41636	9.37729	3.43951
11:03:59				949	9.46826	0.4395037	2.6574	1.41636	8.98657	3.41589
11:04:00				950	9.46631	0.439824	2.559	1.41636	9.32845	3.41874
11:04:00				951	9.46534	0.4470353	2.559	1.4652	9.52381	3.47858
11:04:01				952	9.4702	0.4390218	2.6574	1.4652	9.13309	3.41172
11:04:01				953	9.46923	0.4395037	2.559	1.4652	9.03541	3.41581
11:04:02				954	9.46826	0.441747	2.559	1.4652	9.03541	3.43448
11:04:02				955	9.46631	0.439824	2.559	1.41636	9.52381	3.41874
11:04:03				956	9.46728	0.4399842	2.559	1.41636	9.03541	3.41997
11:04:03				957	9.46631	0.4518433	2.559	1.4652	9.13309	3.51836
11:04:04				958	9.47409	0.4515239	2.559	1.41636	9.47497	3.51495
11:04:04				959	9.47993	0.4435101	2.6574	1.4652	8.88889	3.44796
11:04:05				960	9.47312	0.4401443	2.559	1.4652	8.79121	3.42074
11:04:05				961	9.46923	0.4540884	2.559	1.41636	9.18193	3.53671
11:04:06				962	9.47409	0.4436706	2.6574	1.4652	9.52381	3.44985
11:04:06				963	9.47215	0.4447914	2.6574	1.41636	9.03541	3.45932
11:04:07				964	9.47215	0.4471962	2.559	1.41636	9.42613	3.47925
11:04:08				967	9.47263	0.4463872	2.559	1.4652	9.03541	3.4725
11:04:09				968	9.47361	0.4577667	2.559	1.4652	9.47497	3.56681
11:04:09				969	9.48145	0.445426	2.559	1.4652	9.32845	3.46369
11:04:10				970	9.47847	0.4483113	2.559	1.4652	9.08425	3.48789
11:04:10				971	9.47458	0.4513562	2.559	1.4652	9.13309	3.51351
11:04:11				972	9.48242	0.4536007	2.559	1.4652	9.13309	3.53137
11:04:11				973	9.48339	0.448952	2.559	1.4652	9.03541	3.49272
11:04:12				974	9.48242	0.4539204	2.559	1.41636	9.32845	3.53402
11:04:12				975	9.48534	0.4810104	2.559	1.4652	9.13309	3.759
11:04:13				976	9.4902	0.4497541	2.6574	1.4652	9.08425	3.49871
11:04:13				977	9.48339	0.4471897	2.559	1.41636	8.69353	3.47812

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:14				978	9.4775	0.5539625	2.4606	1.4652	8.93773	4.37158
11:04:14				979	9.51062	0.6384992	2.559	1.4652	9.27961	5.08413
11:04:15				980	9.55441	0.5223724	2.6574	1.41636	7.76557	4.09705
11:04:15				981	9.50187	0.4638583	2.559	1.4652	8.20513	3.6146
11:04:16				982	9.50089	0.5068207	2.4606	1.41636	8.98657	3.97287
11:04:16				983	9.50867	0.5121118	2.559	1.41636	9.13309	4.01629
11:04:17				984	9.52034	0.4909487	2.6574	1.4652	8.40049	3.83817
11:04:17				985	9.50381	0.4683455	2.559	1.4652	8.54701	3.65169
11:04:18				986	9.50964	0.598071	2.559	1.4652	8.69353	4.74051
11:04:18				987	9.51548	0.5048963	2.6574	1.4652	8.93773	3.95516
11:04:19				988	9.5145	0.501369	2.559	1.4652	8.54701	3.9258
11:04:19				989	9.51159	0.482612	2.559	1.4652	8.44933	3.76961
11:04:20				990	9.5145	0.5680773	2.559	1.41636	8.93773	4.48611
11:04:20				991	9.51645	0.5020112	2.6574	1.4652	8.64469	3.93094
11:04:21				992	9.51548	0.5250983	2.6574	1.4652	8.10745	4.12433
11:04:21				993	9.49895	0.4822919	2.559	1.41636	8.69353	3.76826
11:04:22				994	9.51353	0.9641454	2.559	1.4652	8.93773	7.91403
11:04:22				995	9.61467	0.6036856	2.6574	1.4652	8.25397	4.7742
11:04:23				996	9.60788	0.6492494	2.6574	1.41636	8.15629	5.1619
11:04:23				997	9.55635	0.5209297	2.559	2.83272	7.52137	4.08476
11:04:24				998	9.54081	0.7396062	2.559	2.1978	7.61905	5.94678
11:04:24				999	9.5816	0.5921358	2.559	1.4652	7.81441	4.68085
11:04:25				1000	9.57966	0.5624633	2.559	1.4652	8.10745	4.43073
11:04:25				1001	9.59526	0.6283904	2.559	1.41636	8.10745	4.98628
11:04:26				1002	9.60885	0.5544436	2.559	1.4652	8.44933	4.35972
11:04:26				1003	9.58943	0.7116762	2.559	1.4652	8.25397	5.69853
11:04:27				1004	9.5972	0.6125084	2.6574	1.4652	8.88889	4.85125
11:04:27				1005	9.59332	0.5947029	2.6574	1.41636	7.22833	4.70103
11:04:28				1006	9.54664	0.5416153	2.559	1.41636	7.71673	4.25936
11:04:28				1007	9.55635	0.7800629	2.559	1.41636	8.40049	6.29393
11:04:29				1008	9.66034	0.6123483	2.6574	1.4652	8.30281	4.84142
11:04:29				1009	9.63899	0.6417065	2.6574	1.41636	8.25397	5.09331
11:04:30				1010	9.58257	0.6656158	2.559	4.68864	6.73993	5.30514
11:04:30				1011	9.60302	0.7546967	2.559	1.4652	7.37485	6.06661
11:04:31				1012	9.64676	0.9459875	2.559	1.4652	7.37485	7.72501
11:04:31				1013	9.68949	0.7884115	2.6574	1.4652	8.10745	6.34283
11:04:32				1014	9.69531	0.7084654	2.6574	1.41636	6.88645	5.65434
11:04:32				1015	9.64773	0.6649737	2.559	1.41636	7.81441	5.2901
11:04:33				1016	9.62244	0.512432	2.559	1.4652	8.20513	4.00632
11:04:33				1017	9.60108	0.9316857	2.559	1.41636	8.74237	7.60896
11:04:34				1018	9.63705	0.6410664	2.6574	1.4652	7.37485	5.08815
11:04:34				1019	9.61467	0.660962	2.559	1.4652	7.42369	5.26073
11:04:35				1020	9.59526	0.8947341	2.559	1.4652	8.00977	7.28583
11:04:35				1021	9.6924	0.7741216	2.559	1.4652	8.00977	6.21897
11:04:36				1022	9.72342	0.7365563	2.559	1.41636	6.73993	5.89059

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:36				1023	9.64385	0.7542142	2.559	1.4652	7.37485	6.05559
11:04:37				1024	9.63802	0.7754076	2.559	1.4652	8.20513	6.23946
11:04:37				1025	9.69725	0.6630487	2.6574	1.41636	7.91209	5.26646
11:04:38				1026	9.62244	0.6282308	2.559	1.4652	7.91209	4.98117
11:04:38				1027	9.60108	0.8373914	2.559	1.90476	7.32601	6.78379
11:04:39				1028	9.604	0.6739596	2.559	1.85592	7.32601	5.37324
11:04:39				1029	9.61079	0.5728883	2.559	1.4652	8.69353	4.51468
11:04:40				1030	9.60497	0.5424174	2.6574	1.4652	8.84005	4.25921
11:04:40				1031	9.58361	0.5663123	2.6574	1.41636	8.74237	4.46265
11:04:41				1032	9.56704	0.5602173	2.559	1.4652	8.93773	4.41337
11:04:41				1033	9.54566	0.5345595	2.559	1.41636	9.37729	4.20023
11:04:42				1034	9.56606	0.5624634	2.559	1.4652	9.67033	4.4324
11:04:42				1035	9.56898	0.5483504	2.6574	1.4652	8.59585	4.3133
11:04:43				1036	9.55052	0.5097067	2.4606	1.4652	8.88889	3.99153
11:04:43				1037	9.54372	0.8057544	2.559	1.4652	9.13309	6.51913
11:04:44				1038	9.56606	0.5743315	2.6574	1.41636	8.93773	4.53244
11:04:44				1039	9.56218	0.5547646	2.6574	1.4652	8.15629	4.36805
11:04:45				1040	9.53303	0.5182033	2.559	1.4652	8.44933	4.06456
11:04:45				1041	9.50478	0.4768424	2.559	1.41636	8.69353	3.72227
11:04:46				1042	9.48534	0.4608123	2.559	1.4652	8.84005	3.59094
11:04:46				1043	9.47944	0.4439836	2.559	1.4652	9.03541	3.45193
11:04:47				1044	9.48436	0.4757202	2.6574	1.4652	9.32845	3.71503
11:04:47				1045	9.48825	0.4661013	2.559	1.4652	9.18193	3.6346
11:04:48				1046	9.47944	0.4497541	2.559	1.41636	9.32845	3.49975
11:04:48				1047	9.47458	0.4483113	2.4606	1.4652	9.47497	3.48827
11:04:49				1048	9.47263	0.4478301	2.6574	1.41636	9.37729	3.48446
11:04:49				1049	9.46777	0.4359702	2.559	1.41636	9.13309	3.3867
11:04:50				1050	9.46096	0.4467088	2.4606	1.4652	9.37729	3.4763
11:04:50				1051	9.4668	0.4422201	2.6574	1.4652	9.52381	3.43853
11:04:51				1052	9.46582	0.4383752	2.6574	1.4652	8.93773	3.40678
11:04:51				1053	9.4561	0.4358104	2.4606	1.4652	9.18193	3.38648
11:04:52				1054	9.45901	0.4425409	2.4606	1.41636	9.47497	3.44194
11:04:52				1055	9.46485	0.4396558	2.6574	1.4652	9.62149	3.41748
11:04:53				1056	9.46193	0.4390154	2.6574	1.4652	9.27961	3.41245
11:04:53				1057	9.4561	0.4377336	2.559	1.41636	9.37729	3.4024
11:04:54				1058	9.45999	0.4372522	2.559	1.4652	9.67033	3.39804
11:04:54				1059	9.45901	0.4374121	2.559	1.4652	9.76801	3.39946
11:04:55				1060	9.46096	0.4380536	2.6574	1.4652	9.42613	3.40458
11:04:55				1061	9.45901	0.4351698	2.6574	1.4652	9.52381	3.3809
11:04:56				1062	9.4561	0.4362914	2.559	1.41636	9.32845	3.39046
11:04:56				1063	9.4561	0.4380536	2.559	1.4652	9.62149	3.40504
11:04:57				1064	9.45707	0.4393356	2.559	1.4652	9.62149	3.41557
11:04:57				1065	9.45901	0.4370923	2.559	1.4652	9.57265	3.39681
11:04:58				1066	9.46193	0.4354893	2.6574	1.4652	9.67033	3.38327
11:04:58				1067	9.45804	0.4356506	2.559	1.4652	9.52381	3.38497

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:59				1068	9.45901	0.4350085	2.559	1.4652	9.42613	3.37957
11:04:59				1069	9.4561	0.4326051	2.559	1.4652	9.71917	3.35996
11:05:00				1070	9.45901	0.4338878	2.6574	1.41636	9.67033	3.37029
11:05:00				1071	9.4561	0.4327646	2.6574	1.4652	9.42613	3.36127
11:05:01				1072	9.45318	0.4321236	2.559	1.4652	9.47497	3.35624
11:05:01				1073	9.45415	0.4308423	2.559	1.4652	9.42613	3.34556
11:05:02				1074	9.4561	0.4300412	2.559	1.4652	9.81685	3.33875
11:05:02				1075	9.4522	0.4297212	2.6574	1.4652	10.30525	3.33646
11:05:03				1076	9.4522	0.4300412	2.559	1.41636	9.52381	3.33911
11:05:03				1077	9.45123	0.4326051	2.559	1.41636	9.52381	3.36041
11:05:04				1078	9.4522	0.4295604	2.559	1.41636	9.71917	3.33514
11:05:04				1079	9.45026	0.4292405	2.6574	1.4652	9.67033	3.33267
11:05:05				1080	9.44928	0.4285992	2.6574	1.4652	9.57265	3.32746
11:05:05				1081	9.45026	0.4279582	2.559	1.4652	9.57265	3.32207
11:05:06				1082	9.44831	0.4281173	2.6574	1.4652	9.76801	3.32356
11:05:06				1083	9.45026	0.4277976	2.6574	1.41636	9.67033	3.32074
11:05:07				1084	9.44831	0.4279582	2.559	1.4652	9.52381	3.32225
11:05:08				1087	9.45068	0.4282874	2.7558	1.4652	9.37729	3.32475
11:05:09				1088	9.44971	0.4284481	2.8542	1.4652	9.62149	3.32616
11:05:09				1089	9.45263	0.4290893	2.8542	1.4652	9.57265	3.33119
11:05:10				1090	9.45166	0.4287679	2.9526	1.4652	9.57265	3.32862
11:05:10				1091	9.44971	0.4292485	2.9526	1.41636	9.32845	3.33277
11:05:11				1092	9.45166	0.4287679	3.0509	1.41636	9.47497	3.32861
11:05:11				1093	9.44874	0.4289286	2.9526	1.4652	9.71917	3.33021
11:05:12				1094	9.4536	0.4332559	2.9526	1.41636	9.62149	3.36555
11:05:12				1095	9.45458	0.442711	2.9526	1.4652	9.67033	3.44375
11:05:13				1096	9.46139	0.4330948	3.0509	1.4652	9.57265	3.36349
11:05:13				1097	9.45944	0.4321332	3.0509	1.4652	9.32845	3.35572
11:05:14				1098	9.4536	0.4310112	3.0509	1.4652	9.52381	3.34698
11:05:14				1099	9.4536	0.439025	2.9526	1.41636	9.47497	3.4133
11:05:15				1100	9.45652	0.4486413	3.0509	1.41636	9.57265	3.49272
11:05:15				1101	9.46528	0.43582	3.1493	1.4652	9.42613	3.38566
11:05:16				1102	9.46333	0.4353391	3.1493	1.41636	9.23077	3.38187
11:05:16				1103	9.45652	0.430691	2.9526	1.4652	9.18193	3.34407
11:05:17				1104	9.45847	0.4361396	2.9526	1.4652	9.37729	3.38896
11:05:17				1105	9.45944	0.4356586	3.0509	1.4652	9.62149	3.38488
11:05:18				1106	9.45847	0.434057	3.1493	1.41636	9.08425	3.37171
11:05:18				1107	9.45944	0.4353391	3.0509	1.41636	9.18193	3.38224
11:05:19				1108	9.46041	0.4318127	2.9526	1.4652	9.32845	3.35298
11:05:19				1109	9.45944	0.4446341	3.0509	1.4652	9.37729	3.45921
11:05:20				1110	9.46236	0.4409471	3.0509	1.4652	9.27961	3.42839
11:05:20				1111	9.4643	0.4379032	3.0509	1.4652	9.03541	3.403
11:05:21				1112	9.46139	0.4353391	3.0509	1.41636	9.42613	3.38205
11:05:21				1113	9.46041	0.4459163	3.0509	1.41636	9.23077	3.46975
11:05:22				1114	9.46625	0.4462361	3.0509	1.4652	9.71917	3.47184

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:22				1115	9.47111	0.4399858	3.0509	1.41636	9.37729	3.41959
11:05:23				1116	9.46819	0.4403062	3.0509	1.4652	9.03541	3.42252
11:05:23				1117	9.46625	0.4435117	2.9526	1.4652	9.42613	3.44926
11:05:24				1118	9.46917	0.4576162	3.0509	1.4652	9.42613	3.56598
11:05:24				1119	9.47993	0.6970809	3.2477	1.4652	9.47497	5.59021
11:05:25				1120	9.5091	1.0544832	3.3461	1.4652	9.03541	8.71713
11:05:25				1121	9.73746	0.9325001	3.5428	1.41636	8.30281	7.58728
11:05:26				1122	9.75878	0.6526274	3.5428	1.4652	4.05372	5.16897
11:05:26				1123	9.63651	1.038408	3.5428	1.41636	5.07937	8.54359
11:05:27				1124	9.75878	0.9819925	3.6412	1.4652	7.47253	8.01713
11:05:27				1125	9.81499	0.9138622	3.838	1.4652	4.20024	7.40822
11:05:28				1126	9.73746	0.7051052	3.5428	1.4652	4.00488	5.61895
11:05:28				1127	9.6967	0.9916352	3.4445	1.4652	5.81197	8.11595
11:05:29				1128	9.78105	0.9349094	3.6412	1.41636	4.93284	7.5992
11:05:29				1129	9.80531	0.9490499	3.838	1.41636	3.71184	7.71784
11:05:30				1130	9.79176	0.9180394	3.6412	1.4652	3.9072	7.44948
11:05:30				1131	9.79176	0.9458352	3.6412	1.4652	4.34676	7.69259
11:05:31				1132	9.79563	1.0493384	3.6412	1.4652	5.27473	8.60262
11:05:31				1133	9.82176	1.0432294	3.6412	1.4652	5.12821	8.54244
11:05:32				1134	9.85665	1.0226553	3.7396	1.4652	4.54212	8.35285
11:05:32				1135	9.85665	0.9929213	3.7396	1.4652	4.24908	8.09137
11:05:33				1136	9.83144	0.9876161	3.5428	1.41636	4.24908	8.05043
11:05:33				1137	9.83531	1.049982	3.5428	1.4652	4.83516	8.59888
11:05:34				1138	9.85858	1.005778	3.7396	1.4652	3.85836	8.20391
11:05:34				1139	9.86148	1.0168693	3.7396	1.4652	3.4188	8.3008
11:05:35				1140	9.86632	1.0048127	3.6412	1.4652	3.46764	8.19368
11:05:35				1141	9.86825	1.0072245	3.6412	1.41636	3.76068	8.21444
11:05:36				1142	9.86729	1.0371207	3.5428	1.4652	3.80952	8.47785
11:05:36				1143	9.86729	1.0702373	3.6412	1.4652	4.05372	8.77019
11:05:37				1144	9.87889	1.0396942	3.7396	1.41636	4.24908	8.49779
11:05:37				1145	9.88276	1.0327815	3.7396	1.4652	3.80952	8.43598
11:05:38				1146	9.87212	1.040015	3.5428	1.4652	3.95604	8.50223
11:05:38				1147	9.87405	1.0617172	3.5428	1.41636	4.10256	8.69328
11:05:39				1148	9.88276	1.0411391	3.7396	1.4652	3.71184	8.50962
11:05:39				1149	9.88276	1.0440333	3.7396	1.41636	3.56532	8.53513
11:05:40				1150	9.88566	1.0511057	3.5428	1.41636	3.663	8.59684
11:05:40				1151	9.88759	1.0525543	3.6412	1.4652	3.663	8.60915
11:05:41				1152	9.88952	1.0498199	3.7396	1.41636	3.4188	8.58456
11:05:41				1153	9.88952	1.0692733	3.6412	1.4652	3.32112	8.75629
11:05:42				1154	9.88952	1.0845463	3.6412	1.4652	3.46764	8.89131
11:05:42				1155	9.89828	1.0740959	3.7396	1.4652	3.56532	8.79676
11:05:43				1156	9.90118	1.0679857	3.7396	1.4652	3.32112	8.74208
11:05:43				1157	9.89436	1.0644501	3.7396	1.41636	3.32112	8.71251
11:05:44				1158	9.89242	1.0715236	3.6412	1.41636	3.51648	8.77547
11:05:44				1159	9.89532	1.0731308	3.7396	1.4652	3.56532	8.78895

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:45				1160	9.90215	1.1007846	4.0348	1.41636	3.4188	9.03186
11:05:45				1161	9.90505	1.0938715	4.2315	1.4652	3.27228	8.96991
11:05:46				1162	9.90988	1.0978917	4.4283	1.41636	3.1746	9.00427
11:05:46				1163	9.91085	1.083582	4.4283	1.41636	3.1746	8.87745
11:05:47				1164	9.90698	1.1033567	4.4283	1.41636	3.22344	9.05338
11:05:47				1165	9.92244	1.1033567	4.5267	1.41636	3.27228	9.04951
11:05:48				1166	9.93983	1.0890485	4.6251	1.4652	3.02808	8.91862
11:05:48				1167	9.92824	1.0937113	4.6251	1.4652	3.07692	8.9627
11:05:49				1168	9.91858	1.0877609	4.5267	1.4652	3.02808	8.91248
11:05:49				1169	9.92148	1.0885645	4.5267	1.4652	3.1746	8.91887
11:05:50				1170	9.92148	1.0896904	4.5267	1.41636	3.1746	8.92883
11:05:50				1171	9.91954	1.0900125	4.6251	1.41636	3.12576	8.93214
11:05:51				1172	9.91954	1.0900125	4.5267	1.4652	3.07692	8.93215
11:05:51				1173	9.91954	1.0859923	4.6251	1.41636	2.97924	8.89659
11:05:52				1174	9.91858	1.0839034	4.5267	1.4652	3.07692	8.87838
11:05:52				1175	9.91664	1.0851894	4.5267	1.4652	3.1746	8.89022
11:05:53				1176	9.91568	1.0877609	4.5267	1.4652	3.1746	8.91319
11:05:53				1177	9.91568	1.0858326	4.6251	1.41636	3.36996	8.89613
11:05:54				1178	9.91568	1.084706	4.6251	1.41636	3.36996	8.88617
11:05:54				1179	9.91375	1.0839034	4.5267	1.41636	3.1746	8.87956
11:05:55				1180	9.91278	1.0850275	4.4283	1.4652	3.1746	8.88975
11:05:55				1181	9.91278	1.087601	4.5267	1.4652	3.32112	8.91249
11:05:56				1182	9.91375	1.0834202	4.5267	1.4652	3.07692	8.87529
11:05:56				1183	9.91568	1.0839034	4.5267	1.41636	2.9304	8.87909
11:05:57				1184	9.91471	1.0814905	4.5267	1.4652	3.07692	8.858
11:05:57				1185	9.91278	1.079883	4.5267	1.4652	3.12576	8.84427
11:05:58				1186	9.91471	1.0814905	4.4283	1.41636	3.07692	8.85801
11:05:58				1187	9.91568	1.0822946	4.5267	1.4652	3.4188	8.86487
11:05:59				1188	9.91664	1.079562	4.6251	1.4652	2.97924	8.84047
11:05:59				1189	9.91471	1.079562	4.5267	1.4652	2.9304	8.84096
11:06:00				1190	9.91375	1.079883	4.4283	1.4652	3.12576	8.84404
11:06:00				1191	9.91471	1.0861542	4.4283	1.41636	3.12576	8.89924
11:06:01				1192	9.91664	1.0896904	4.4283	1.4652	3.02808	8.93003
11:06:01				1193	9.93693	1.0901724	4.6251	1.4652	3.27228	8.92927
11:06:02				1194	9.9408	1.0880827	4.6251	1.4652	3.07692	8.90985
11:06:02				1195	9.93307	1.0871193	4.4283	1.4652	3.12576	8.90326
11:06:03				1196	9.92437	1.087601	4.3299	1.4652	3.12576	8.90967
11:06:03				1197	9.92727	1.0904946	4.5267	1.4652	3.36996	8.93451
11:06:04				1198	9.9321	1.0880827	4.6251	1.4652	3.27228	8.91199
11:06:04				1199	9.93597	1.0851893	4.5267	1.41636	3.12576	8.88548
11:06:05				1200	9.92824	1.0814904	4.3299	1.4652	3.22344	8.85472
11:06:05				1201	9.93114	1.0951575	4.4283	1.4652	3.32112	8.9748
11:06:06				1202	9.94949	1.0858325	4.6251	1.4652	3.36996	8.88783
11:06:06				1203	9.94466	1.0821349	4.6251	1.4652	3.27228	8.85636
11:06:07				1204	9.93114	1.0850275	4.4283	1.41636	3.1746	8.88525

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:08				1207	9.95154	1.0858239	4.6251	1.4652	3.4188	8.88726
11:06:09				1208	9.94768	1.0851807	4.5267	1.4652	3.1746	8.88253
11:06:09				1209	9.93705	1.0813224	4.4283	1.4652	3.1746	8.85107
11:06:10				1210	9.93319	1.0864673	4.3299	1.4652	3.36996	8.89748
11:06:10				1211	9.93416	1.0943457	4.5267	1.4652	3.27228	8.96686
11:06:11				1212	9.9583	1.0908081	4.8218	1.41636	3.12576	8.9296
11:06:11				1213	9.9583	1.0887179	4.7234	1.41636	2.97924	8.91114
11:06:12				1214	9.94382	1.090326	4.6251	1.4652	3.12576	8.92893
11:06:12				1215	9.94188	1.0993292	4.8218	1.4652	3.22344	9.00898
11:06:13				1216	9.97472	1.0986872	5.117	1.4652	3.1746	8.99511
11:06:13				1217	9.9796	1.0980434	5.2153	1.41636	3.07692	8.9882
11:06:14				1218	9.97671	1.0983642	5.2153	1.41636	3.02808	8.99175
11:06:14				1219	9.97574	1.097883	5.3137	1.41636	3.12576	8.98773
11:06:15				1220	9.97472	1.1351867	5.3137	1.4652	3.07692	9.31812
11:06:15				1221	9.9796	1.1310064	5.5105	1.4652	3.07692	9.27979
11:06:16				1222	9.98829	1.116373	5.6089	1.4652	2.6862	9.14802
11:06:16				1223	9.97671	1.1166958	5.5105	1.4652	2.6862	9.15381
11:06:17				1224	9.96699	1.1173394	5.5105	1.4652	2.97924	9.16196
11:06:17				1225	9.97375	1.1126763	5.6089	1.41636	3.07692	9.11898
11:06:18				1226	9.97472	1.1099416	5.6089	1.4652	2.6862	9.09454
11:06:18				1227	9.96217	1.0991687	5.4121	1.4652	2.88156	9.00244
11:06:19				1228	9.9583	1.1150866	5.5105	1.4652	2.97924	9.14421
11:06:19				1229	9.96023	1.1039931	5.6089	1.4652	3.1746	9.04555
11:06:20				1230	9.95927	1.1031896	5.6089	1.41636	2.9304	9.03869
11:06:20				1231	9.95541	1.1017416	5.5105	1.41636	2.97924	9.02686
11:06:21				1232	9.95541	1.1075312	5.4121	1.4652	2.97924	9.07809
11:06:21				1233	9.95637	1.1092996	5.5105	1.4652	2.97924	9.09348
11:06:22				1234	9.95734	1.1083337	5.5105	1.4652	2.88156	9.08469
11:06:22				1235	9.95734	1.1216799	5.5105	1.41636	2.83272	9.20284
11:06:23				1236	9.9641	1.1136393	5.6089	1.41636	2.97924	9.12993
11:06:23				1237	9.9641	1.111067	5.5105	1.4652	2.88156	9.10718
11:06:24				1238	9.95444	1.1019022	5.5105	1.41636	3.02808	9.02852
11:06:24				1239	9.95251	1.1147661	5.5105	1.4652	3.07692	9.14284
11:06:25				1240	9.9612	1.1065658	5.6089	1.4652	2.97924	9.06807
11:06:25				1241	9.95444	1.1086557	5.5105	1.4652	2.78388	9.08826
11:06:26				1242	9.95444	1.1041538	5.5105	1.41636	2.88156	9.04844
11:06:26				1243	9.95347	1.1062441	5.6089	1.41636	2.97924	9.06715
11:06:27				1244	9.95444	1.1017416	5.5105	1.41636	2.97924	9.0271
11:06:27				1245	9.95058	1.1075312	5.6089	1.4652	3.07692	9.07927
11:06:28				1246	9.94961	1.1019022	5.6089	1.4652	3.02808	9.02971
11:06:28				1247	9.94671	1.0999733	5.5105	1.4652	2.97924	9.01338
11:06:29				1248	9.94478	1.0988478	5.5105	1.41636	3.12576	9.00391
11:06:29				1249	9.94671	1.1025448	5.6089	1.41636	3.1746	9.03612
11:06:30				1250	9.95058	1.1044753	5.5105	1.4652	3.07692	9.05224
11:06:30				1251	9.94961	1.1023841	5.5105	1.41636	2.97924	9.03399

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:31				1252	9.94671	1.1044753	5.5105	1.4652	3.1746	9.05321
11:06:31				1253	9.94768	1.1057617	5.6089	1.4652	2.88156	9.06434
11:06:32				1254	9.94961	1.1023841	5.5105	1.41636	3.12576	9.03399
11:06:32				1255	9.95154	1.1004549	5.5105	1.41636	3.02808	9.01644
11:06:33				1256	9.94865	1.1028682	5.5105	1.41636	2.97924	9.03851
11:06:33				1257	9.94671	1.101581	5.6089	1.4652	3.07692	9.02759
11:06:34				1258	9.94671	1.1014204	5.6089	1.4652	2.97924	9.02617
11:06:34				1259	9.94575	1.1014205	5.6089	1.4652	3.12576	9.02641
11:06:35				1260	9.94671	1.1007781	5.5105	1.4652	2.83272	9.0205
11:06:35				1261	9.94575	1.1009387	5.5105	1.41636	3.32112	9.02216
11:06:36				1262	9.94382	1.1007782	5.5105	1.4652	2.88156	9.02122
11:06:36				1263	9.94382	1.1012599	5.5105	1.4652	2.9304	9.02548
11:06:37				1264	9.94382	1.1102638	5.6089	1.4652	2.88156	9.10515
11:06:37				1265	9.94671	1.0998128	5.6089	1.4652	2.97924	9.01195
11:06:38				1266	9.94478	1.0986874	5.5105	1.41636	2.9304	9.00249
11:06:38				1267	9.94092	1.1028683	5.5105	1.41636	2.9304	9.04044
11:06:39				1268	9.94092	1.1007782	5.5105	1.41636	3.07692	9.02195
11:06:39				1269	9.93899	1.1002944	5.5105	1.41636	3.12576	9.01815
11:06:40				1270	9.93899	1.1009387	5.5105	1.4652	3.07692	9.02385
11:06:40				1271	9.94092	1.0996523	5.5105	1.4652	2.9304	9.01199
11:06:41				1272	9.93899	1.1006155	5.5105	1.41636	2.97924	9.02099
11:06:41				1273	9.93899	1.1002944	5.5105	1.41636	2.97924	9.01815
11:06:42				1274	9.93995	1.0991688	5.5105	1.41636	2.88156	9.00795
11:06:42				1275	9.93899	1.1007782	5.5105	1.4652	3.02808	9.02243
11:06:43				1276	9.94092	1.1015811	5.5105	1.4652	3.12576	9.02905
11:06:43				1277	9.94865	1.1060833	5.7073	1.4652	2.97924	9.06693
11:06:44				1278	9.94961	1.1068876	5.7073	1.4652	2.6862	9.0738
11:06:44				1279	9.94478	1.1019022	5.4121	1.41636	2.88156	9.03094
11:06:45				1280	9.94478	1.1125152	5.4121	1.41636	3.02808	9.12487
11:06:45				1281	9.94961	1.1089777	5.6089	1.4652	3.12576	9.09231
11:06:46				1282	9.95347	1.1096196	5.7073	1.4652	2.83272	9.09701
11:06:46				1283	9.95058	1.1150866	5.6089	1.4652	2.9304	9.14615
11:06:47				1284	9.94961	1.111067	5.5105	1.41636	2.9304	9.11082
11:06:47				1285	9.95347	1.1088167	5.5105	1.41636	2.88156	9.08993
11:06:48				1286	9.95154	1.1057616	5.5105	1.4652	2.9304	9.06338
11:06:48				1287	9.94961	1.1162139	5.5105	1.41636	3.02808	9.15639
11:06:49				1288	9.95154	1.1231267	5.6089	1.4652	3.02808	9.21712
11:06:49				1289	9.96023	1.112354	5.7073	1.4652	3.02808	9.11951
11:06:50				1290	9.95734	1.111067	5.5105	1.41636	2.9304	9.10888
11:06:50				1291	9.95251	1.1105859	5.3137	1.41636	2.97924	9.10586
11:06:51				1292	9.95541	1.1282725	5.4121	1.41636	3.12576	9.26176
11:06:51				1293	9.96217	1.1194281	5.7073	1.4652	3.12576	9.18165
11:06:52				1294	9.96603	1.1150866	5.7073	1.4652	2.78388	9.14224
11:06:52				1295	9.9583	1.1120316	5.5105	1.4652	2.73504	9.11717
11:06:53				1296	9.95734	1.1174987	5.4121	1.4652	2.9304	9.16583

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:53				1297	9.96023	1.1215204	5.5105	1.41636	3.07692	9.2007
11:06:54				1298	9.96313	1.1144435	5.5105	1.4652	2.83272	9.1373
11:06:54				1299	9.96313	1.1162139	5.6089	1.4652	2.97924	9.15296
11:06:55				1300	9.96313	1.1121928	5.6089	1.41636	2.88156	9.11737
11:06:55				1301	9.96023	1.1131578	5.6089	1.4652	2.97924	9.12664
11:06:56				1302	9.9583	1.1192687	5.6089	1.41636	2.88156	9.18123
11:06:56				1303	9.95734	1.1134802	5.5105	1.41636	2.9304	9.13024
11:06:57				1304	9.95927	1.1146048	5.6089	1.41636	2.9304	9.13969
11:06:57				1305	9.95927	1.112354	5.6089	1.4652	2.9304	9.11977
11:06:58				1306	9.9612	1.1139618	5.6089	1.4652	2.88156	9.13351
11:06:58				1307	9.95927	1.1126763	5.5105	1.41636	2.83272	9.12263
11:06:59				1308	9.95734	1.1144435	5.5105	1.41636	2.88156	9.13876
11:06:59				1309	9.95927	1.1228054	5.5105	1.4652	2.88156	9.21232
11:07:00				1310	9.96313	1.1149274	5.6089	1.41636	2.78388	9.14157
11:07:00				1311	9.9583	1.1181425	5.6089	1.4652	2.73504	9.17126
11:07:01				1312	9.96023	1.1216799	5.5105	1.4652	2.88156	9.20211
11:07:01				1313	9.96506	1.1197512	5.6089	1.41636	2.9304	9.18379
11:07:02				1314	9.96796	1.1184633	5.6089	1.41636	2.78388	9.17165
11:07:02				1315	9.96506	1.1142843	5.4121	1.41636	2.73504	9.13542
11:07:03				1316	9.96313	1.1290762	5.4121	1.4652	3.02808	9.26691
11:07:03				1317	9.97182	1.1266656	5.6089	1.4652	3.02808	9.24331
11:07:04				1318	9.97574	1.1247359	5.7073	1.4652	2.88156	9.22521
11:07:04				1319	9.97375	1.1239312	5.5105	1.4652	2.88156	9.21861
11:07:05				1320	9.96699	1.114766	5.3137	1.41636	2.83272	9.13921
11:07:05				1321	9.96796	1.1540034	5.5105	1.4652	2.9304	9.48678
11:07:06				1322	9.97767	1.1303644	5.8056	1.4652	2.88156	9.27455
11:07:06				1323	9.97767	1.1252171	5.6089	1.4652	2.83272	9.22899
11:07:07				1324	9.9583	1.1136393	5.3137	1.4652	2.83272	9.13143
11:07:08				1327	9.97363	1.1247338	5.7073	1.4652	2.88156	9.22572
11:07:09				1328	9.96108	1.1170144	5.5105	1.41636	2.83272	9.16058
11:07:09				1329	9.96301	1.1219989	5.4121	1.4652	2.83272	9.20424
11:07:10				1330	9.96398	1.1208738	5.6089	1.41636	2.97924	9.19401
11:07:10				1331	9.96591	1.1208738	5.6089	1.4652	2.9304	9.19352
11:07:11				1332	9.96494	1.1195875	5.6089	1.4652	2.78388	9.18237
11:07:11				1333	9.96398	1.1202317	5.6089	1.41636	2.73504	9.18832
11:07:12				1334	9.96204	1.121999	5.5105	1.4652	2.78388	9.20447
11:07:12				1335	9.96108	1.1236077	5.5105	1.4652	2.78388	9.21897
11:07:13				1336	9.9688	1.1322911	5.6089	1.41636	2.88156	9.29393
11:07:13				1337	9.9717	1.1229649	5.6089	1.41636	2.97924	9.21056
11:07:14				1338	9.96977	1.1231245	5.6089	1.41636	2.83272	9.21247
11:07:14				1339	9.9688	1.1295581	5.5105	1.4652	2.78388	9.26972
11:07:15				1340	9.97267	1.1253769	5.6089	1.4652	2.97924	9.23168
11:07:15				1341	9.97466	1.1245719	5.6089	1.4652	2.73504	9.22404
11:07:16				1342	9.9688	1.123448	5.5105	1.41636	2.88156	9.21559
11:07:16				1343	9.9717	1.1298802	5.6089	1.41636	2.9304	9.27182

**Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:17				1344	9.97466	1.1258582	5.7073	1.4652	2.83272	9.23542
11:07:17				1345	9.97073	1.1237694	5.5105	1.4652	2.88156	9.21795
11:07:18				1346	9.9688	1.144192	5.5105	1.4652	2.88156	9.39947
11:07:18				1347	9.9717	1.1316487	5.6089	1.41636	2.97924	9.28749
11:07:19				1348	9.97363	1.1302001	5.6089	1.41636	2.78388	9.27416
11:07:19				1349	9.9717	1.1358299	5.5105	1.41636	2.83272	9.32457
11:07:20				1350	9.97363	1.1337386	5.6089	1.4652	2.88156	9.30552
11:07:20				1351	9.97466	1.1335784	5.6089	1.4652	2.83272	9.30384
11:07:21				1352	9.9717	1.1345416	5.6089	1.4652	2.73504	9.31313
11:07:21				1353	9.97466	1.1396893	5.6089	1.41636	2.78388	9.35801
11:07:22				1354	9.97562	1.1337386	5.6089	1.4652	2.9304	9.30501
11:07:22				1355	9.97466	1.1334161	5.6089	1.4652	2.78388	9.3024
11:07:23				1356	9.97562	1.1348642	5.6089	1.41636	2.9304	9.31498
11:07:23				1357	9.97363	1.1345416	5.6089	1.4652	2.9304	9.31264
11:07:24				1358	9.97267	1.1327735	5.5105	1.41636	2.83272	9.29723
11:07:24				1359	9.97363	1.134704	5.6089	1.41636	2.88156	9.31407
11:07:25				1360	9.97466	1.1359901	5.6089	1.41636	2.78388	9.32521
11:07:25				1361	9.97466	1.1313265	5.6089	1.41636	2.88156	9.28388
11:07:26				1362	9.9717	1.127307	5.5105	1.4652	2.73504	9.24904
11:07:26				1363	9.9717	1.1443527	5.5105	1.4652	2.83272	9.40015
11:07:27				1364	9.97073	1.1377579	5.6089	1.4652	2.88156	9.34189
11:07:27				1365	9.97562	1.1285922	5.7073	1.4652	2.83272	9.25939
11:07:28				1366	9.9717	1.1279506	5.5105	1.41636	2.6862	9.25474
11:07:28				1367	9.97073	1.1367937	5.5105	1.4652	2.83272	9.33336
11:07:29				1368	9.96977	1.1329336	5.6089	1.4652	2.83272	9.29937
11:07:29				1369	9.9717	1.1300401	5.6089	1.4652	2.83272	9.27324
11:07:30				1370	9.97073	1.1496583	5.5105	1.41636	2.83272	9.44748
11:07:30				1371	9.97562	1.1466033	5.6089	1.41636	3.02808	9.41908
11:07:31				1372	9.98721	1.1327735	5.7073	1.4652	2.78388	9.29347
11:07:31				1373	9.97852	1.1250553	5.5105	1.4652	2.73504	9.22735
11:07:32				1374	9.9717	1.1421015	5.5105	1.4652	2.88156	9.38018
11:07:32				1375	9.97466	1.1342212	5.6089	1.4652	2.97924	9.30953
11:07:33				1376	9.98045	1.1305221	5.7073	1.41636	2.83272	9.27526
11:07:33				1377	9.97466	1.129718	5.6089	1.41636	2.78388	9.26963
11:07:34				1378	9.9688	1.1223223	5.5105	1.4652	2.78388	9.20562
11:07:34				1379	9.9688	1.1289141	5.4121	1.4652	2.78388	9.26403
11:07:35				1380	9.9688	1.1279506	5.7073	1.4652	2.97924	9.25545
11:07:35				1381	9.9717	1.127307	5.8056	1.41636	3.02808	9.24899
11:07:36				1382	9.96977	1.123929	5.5105	1.41636	2.78388	9.21961
11:07:36				1383	9.96784	1.1226436	5.4121	1.4652	2.88156	9.20873
11:07:37				1384	9.96784	1.1303622	5.6089	1.4652	2.97924	9.27708
11:07:37				1385	9.96784	1.1261799	5.7073	1.4652	3.07692	9.24001
11:07:38				1386	9.96784	1.1239291	5.7073	1.41636	2.78388	9.22007
11:07:38				1387	9.96398	1.1211949	5.4121	1.41636	2.78388	9.19688
11:07:39				1388	9.96398	1.1228032	5.4121	1.4652	2.97924	9.21112

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:39				1389	9.96301	1.1252151	5.7073	1.41636	3.02808	9.23269
11:07:40				1390	9.96591	1.1231245	5.7073	1.4652	2.73504	9.21344
11:07:40				1391	9.96301	1.119105	5.5105	1.4652	2.73504	9.1786
11:07:41				1392	9.95722	1.1199107	5.4121	1.41636	2.88156	9.18722
11:07:41				1393	9.95915	1.1253769	5.6089	1.4652	2.9304	9.23512
11:07:42				1394	9.96301	1.1210355	5.8056	1.41636	2.9304	9.19565
11:07:42				1395	9.96108	1.1207144	5.6089	1.4652	2.88156	9.19333
11:07:43				1396	9.95722	1.1171759	5.4121	1.4652	2.83272	9.163
11:07:43				1397	9.95722	1.1181403	5.5105	1.4652	2.83272	9.17152
11:07:44				1398	9.95528	1.1187842	5.6089	1.4652	2.9304	9.1777
11:07:44				1399	9.95625	1.1176581	5.7073	1.41636	2.88156	9.16747
11:07:45				1400	9.95722	1.1176581	5.6089	1.4652	2.78388	9.16724
11:07:45				1401	9.95528	1.1176581	5.6089	1.4652	3.02808	9.16773
11:07:46				1402	9.95722	1.1168552	5.4121	1.4652	2.78388	9.16016
11:07:46				1403	9.95722	1.1189457	5.5105	1.41636	2.83272	9.17866
11:07:47				1404	9.95528	1.117981	5.6089	1.41636	3.02808	9.17059
11:07:47				1405	9.95625	1.1174966	5.7073	1.4652	2.83272	9.16604
11:07:48				1406	9.95432	1.117981	5.6089	1.4652	2.9304	9.17083
11:07:48				1407	9.95722	1.1171759	5.5105	1.4652	2.83272	9.16298
11:07:49				1408	9.95625	1.1174966	5.5105	1.4652	2.88156	9.16607
11:07:49				1409	9.95722	1.117981	5.5105	1.41636	2.73504	9.17011
11:07:50				1410	9.95528	1.1187842	5.6089	1.4652	2.78388	9.1777
11:07:50				1411	9.95722	1.1192666	5.6089	1.4652	2.97924	9.18149
11:07:51				1412	9.95722	1.1168552	5.6089	1.4652	2.78388	9.16013
11:07:51				1413	9.95625	1.1162117	5.5105	1.41636	2.83272	9.15469
11:07:52				1414	9.95528	1.1173373	5.5105	1.41636	2.9304	9.1649
11:07:52				1415	9.95722	1.1181403	5.7073	1.41636	2.97924	9.1715
11:07:53				1416	9.95722	1.1173373	5.6089	1.4652	2.78388	9.1644
11:07:53				1417	9.95625	1.1181403	5.5105	1.4652	2.83272	9.17177
11:07:54				1418	9.95432	1.1189457	5.5105	1.4652	2.97924	9.17939
11:07:54				1419	9.95528	1.1226437	5.6089	1.41636	2.88156	9.21189
11:07:55				1420	9.95915	1.117981	5.7073	1.41636	2.78388	9.1696
11:07:55				1421	9.95818	1.1191051	5.6089	1.4652	2.78388	9.17981
11:07:56				1422	9.95722	1.1152457	5.5105	1.4652	2.88156	9.1459
11:07:56				1423	9.95528	1.1424228	5.6089	1.4652	3.07692	9.38726
11:07:57				1424	9.96011	1.1226437	5.7073	1.41636	3.02808	9.21065
11:07:57				1425	9.96011	1.1207144	5.6089	1.41636	2.88156	9.19357
11:07:58				1426	9.95915	1.1224819	5.6089	1.4652	2.83272	9.20947
11:07:58				1427	9.96011	1.1293961	5.6089	1.4652	3.02808	9.27049
11:07:59				1428	9.96301	1.1269852	5.6089	1.4652	2.58852	9.24839
11:07:59				1429	9.96591	1.1256985	5.6089	1.41636	2.73504	9.23625
11:08:00				1430	9.97267	1.1216777	5.6089	1.4652	3.07692	9.19892
11:08:00				1431	9.9688	1.1226436	5.5105	1.4652	2.97924	9.20847
11:08:01				1432	9.96591	1.1338988	5.5105	1.41636	3.02808	9.30893
11:08:01				1433	9.97363	1.1305222	5.7073	1.4652	2.9304	9.277

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:02				1434	9.97659	1.1226436	5.7073	1.4652	2.58852	9.20646
11:08:02				1435	9.96784	1.1237694	5.4121	1.41636	2.73504	9.2187
11:08:03				1436	9.96011	1.1223223	5.3137	1.41636	2.78388	9.20786
11:08:03				1437	9.96591	1.1477293	5.7073	1.41636	2.9304	9.43159
11:08:04				1438	9.9717	1.1329336	5.8056	1.4652	2.97924	9.29885
11:08:04				1439	9.96591	1.1211949	5.5105	1.4652	2.73504	9.19637
11:08:05				1440	9.95915	1.1218394	5.2153	1.4652	2.78388	9.20384
11:08:05				1441	9.96204	1.1424227	5.6089	1.4652	2.9304	9.38551
11:08:06				1442	9.96977	1.1329337	5.8056	1.41636	2.88156	9.29935
11:08:06				1443	9.97073	1.1289142	5.7073	1.4652	2.73504	9.26349
11:08:07				1444	9.96301	1.1229649	5.4121	1.4652	2.78388	9.2128
11:08:08				1447	9.97568	1.1395549	5.8056	1.41636	2.83272	9.35652
11:08:09				1448	9.97568	1.1406826	5.7073	1.4652	2.78388	9.36654
11:08:09				1449	9.97472	1.1344095	5.4121	1.4652	2.83272	9.31121
11:08:10				1450	9.97568	1.1572466	5.5105	1.4652	2.78388	9.51355
11:08:10				1451	9.98341	1.1582106	5.6089	1.4652	3.02808	9.52007
11:08:11				1452	9.99209	1.1467924	5.7073	1.41636	2.83272	9.41647
11:08:11				1453	9.99209	1.1443809	5.6089	1.4652	2.63736	9.3951
11:08:12				1454	9.98437	1.1461491	5.6089	1.4652	2.73504	9.41278
11:08:12				1455	9.98244	1.144863	5.6089	1.41636	2.78388	9.40188
11:08:13				1456	9.98534	1.148562	5.6089	1.41636	2.78388	9.43394
11:08:13				1457	9.98727	1.1464707	5.6089	1.41636	2.78388	9.41488
11:08:14				1458	9.98534	1.1475966	5.7073	1.4652	2.78388	9.42536
11:08:14				1459	9.98534	1.1435753	5.6089	1.4652	2.63736	9.38971
11:08:15				1460	9.9863	1.1416458	5.5105	1.4652	2.6862	9.37236
11:08:15				1461	9.98341	1.1588542	5.5105	1.4652	2.58852	9.5258
11:08:16				1462	9.98341	1.155156	5.6089	1.41636	2.83272	9.49295
11:08:16				1463	9.98437	1.1530646	5.6089	1.4652	2.63736	9.47414
11:08:17				1464	9.98437	1.1469532	5.6089	1.4652	2.49084	9.41992
11:08:17				1465	9.98244	1.1466316	5.6089	1.4652	2.39316	9.41756
11:08:18				1466	9.97954	1.145506	5.5105	1.4652	2.53968	9.40834
11:08:18				1467	9.98051	1.1556376	5.5105	1.41636	2.63736	9.498
11:08:19				1468	9.98823	1.15789	5.7073	1.4652	2.6862	9.51594
11:08:19				1469	9.99595	1.1488838	5.7073	1.4652	2.6862	9.43401
11:08:20				1470	9.9892	1.1519388	5.5105	1.4652	2.58852	9.4629
11:08:20				1471	9.9863	1.1578899	5.4121	1.4652	2.6862	9.51649
11:08:21				1472	10.00078	1.1681824	5.5105	1.41636	2.73504	9.60406
11:08:21				1473	10.05872	1.1606239	5.7073	1.4652	2.83272	9.52171
11:08:22				1474	10.05486	1.1591769	5.6089	1.4652	2.53968	9.50991
11:08:22				1475	10.03364	1.1668958	5.6089	1.4652	2.63736	9.58393
11:08:23				1476	10.03654	1.1601416	5.6089	1.4652	2.63736	9.52326
11:08:23				1477	10.03654	1.1590154	5.5105	1.41636	2.53968	9.51329
11:08:24				1478	10.03172	1.1668958	5.5105	1.41636	2.58852	9.58446
11:08:24				1479	10.04908	1.1622311	5.7073	1.4652	2.63736	9.53848
11:08:25				1480	10.051	1.1585332	5.7073	1.4652	2.53968	9.5052

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:25				1481	10.02882	1.1561192	5.4121	1.4652	2.39316	9.48965
11:08:26				1482	10.02786	1.1593362	5.4121	1.41636	2.442	9.51843
11:08:26				1483	10.04233	1.1765465	5.5105	1.41636	2.49084	9.6673
11:08:27				1484	10.10216	1.1749383	5.6089	1.4652	2.49084	9.63712
11:08:27				1485	10.13202	1.1709164	5.7073	1.4652	2.34432	9.59358
11:08:28				1486	10.12528	1.1667335	5.5105	1.4652	2.39316	9.55837
11:08:28				1487	10.10697	1.1623925	5.3137	1.4652	2.58852	9.52478
11:08:29				1488	10.08192	1.164805	5.3137	1.41636	2.53968	9.55272
11:08:29				1489	10.06836	1.1636795	5.3137	1.4652	2.63736	9.54631
11:08:30				1490	10.05583	1.1623927	5.4121	1.4652	2.53968	9.53818
11:08:30				1491	10.04908	1.16191	5.4121	1.4652	2.442	9.53568
11:08:31				1492	10.04715	1.1625522	5.2153	1.41636	2.58852	9.54191
11:08:31				1493	10.04522	1.1611064	5.2153	1.41636	2.58852	9.5296
11:08:32				1494	10.03075	1.1640009	5.3137	1.4652	2.58852	9.55906
11:08:32				1495	10.02207	1.1615891	5.4121	1.41636	2.63736	9.53993
11:08:33				1496	10.02207	1.1614275	5.4121	1.4652	2.39316	9.5385
11:08:33				1497	10.01622	1.1567645	5.0186	1.41636	2.39316	9.49872
11:08:34				1498	9.99692	1.1479182	4.5267	1.41636	2.49084	9.42537
11:08:34				1499	9.99113	1.1387525	4.2315	1.41636	2.63736	9.34565
11:08:35				1500	9.98727	1.1205805	3.9364	1.4652	2.78388	9.18574
11:08:35				1501	9.95921	1.0800613	3.5428	1.4652	2.6862	8.83465
11:08:36				1502	9.92347	1.0329591	3.0509	1.41636	3.07692	8.42815
11:08:36				1503	9.81602	0.8753209	2.559	1.41636	3.80952	7.07254
11:08:37				1504	9.7753	0.839341	2.1655	1.4652	5.81197	6.76808
11:08:37				1505	9.74715	0.569377	1.9687	1.41636	7.57021	4.46825
11:08:38				1506	9.56169	0.4683633	1.4768	1.4652	8.44933	3.64604
11:08:38				1507	9.49749	0.4306972	1.0833	1.4652	9.42613	3.34042
11:08:39				1508	9.47409	0.427974	0.9849	1.41636	9.76801	3.32009
11:08:39				1509	9.47409	0.4306972	0.9849	1.41636	9.67033	3.34259
11:08:40				1510	9.46923	0.4254093	0.7881	1.51404	10.15873	3.29937
11:08:40				1511	9.46534	0.4247679	0.7881	1.4652	35.3602	3.29443
11:08:41				1512	9.46145	0.4254093	0.6898	1.4652	35.3602	3.30008
11:08:41				1513	9.46826	0.42573	0.5914	1.4652	35.31136	3.30211
11:08:42				1514	9.47409	0.4258904	0.6898	1.4652	11.67277	3.3029
11:08:42				1515	9.47798	0.4268516	0.5914	1.41636	4.00488	3.31048
11:08:43				1516	9.47215	0.427974	0.5914	1.4652	3.663	3.32029
11:08:43				1517	9.47993	0.4306972	0.5914	1.4652	3.32112	3.34207
11:08:44				1518	9.49749	0.4460833	0.5914	1.4652	3.27228	3.4677
11:08:44				1519	9.51499	0.4656377	0.5914	1.41636	2.88156	3.62817
11:08:45				1520	9.52374	0.1126147	0.6898	1.41636	2.83272	0.81013
11:08:45				1521	9.55004	0.0911914	0.6898	1.4652	2.73504	0.64931
11:08:46				1522	9.56752	0.0899123	0.6898	0	0	0.6395
11:08:46				1523	9.58112	0.0400486	0.6898	0	0	0.27602
11:08:47				1524	9.59083	0.0739277	0.6898	0	0	0.52111
11:08:47				1525	9.60157	0.0587447	0.6898	0	0	0.4102

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:48				1526	9.60642	0.0291834	0.6898	0	0	0.1991
11:08:48				1527	9.61225	0.0544304	0.6898	0	0	0.37887
11:08:49				1528	9.62098	0.0443627	0.6898	0	0	0.30647
11:08:49				1529	9.6268	0.0641786	0.6898	0	0	0.44938
11:08:50				1530	9.63166	0.0426045	0.6898	0	0	0.29384
11:08:50				1531	9.63651	0.0571468	0.6898	0	0	0.39825
11:08:51				1532	9.6433	0.0603429	0.6898	0	0	0.42132
11:08:51				1533	9.64918	0.0370121	0.6898	0	0	0.25399
11:08:52				1534	9.65403	0.0422852	0.6898	0	0	0.29139
11:08:52				1535	9.65985	0.0264681	0.6898	0	0	0.17987
11:08:53				1536	9.66179	0.0333376	0.6898	0	0	0.22797
11:08:53				1537	9.66761	0.047559	0.6898	0	0	0.32894
11:08:54				1538	9.67052	0.0325386	0.6898	0	0	0.2223
11:08:54				1539	9.66858	0.0216749	0.6898	0	0	0.1466
11:08:55				1540	9.67731	0.0469193	0.6898	0	0	0.32427
11:08:55				1541	9.67925	0.041966	0.6898	0	0	0.28892
11:08:56				1542	9.68798	0.029343	0.6898	0	0	0.19979
11:08:56				1543	9.6967	0.0279055	0.6898	0	0	0.18971
11:08:57				1544	9.70452	0.0314203	0.6898	0	0	0.21425
11:08:57				1545	9.7113	0.0350949	0.6898	0	0	0.24004
11:08:58				1546	9.72002	0.0322194	0.6898	0	0	0.21977
11:08:58				1547	9.73262	0.0274265	0.6898	0	0	0.1862
11:08:59				1548	9.7365	0.0282254	0.6898	0	0	0.19174
11:08:59				1549	9.74231	0.0355747	0.6898	0	0	0.24322
11:09:00				1550	9.74715	0.0379717	0.6898	0	0	0.26011
11:09:00	11:07:52 switch off			1551	9.75399	0.0346154	0.6898	0	0	0.2364
11:21:53	11:20:37 switch on	0.2	180	7	9.50296	0.4289539	1.1817	0	0	3.32551
11:21:54				8	9.50685	0.4267102	1.1817	0	0	3.30664
11:21:54				9	9.50199	0.4283128	1.1817	0	0	3.32031
11:21:55				10	9.48449	0.4283128	1.1817	0	0	3.32192
11:21:55				11	9.49518	0.4262304	1.1817	0	0	3.30375
11:21:56				12	9.5049	0.4278325	1.1817	0	0	3.31608
11:21:56				13	9.50685	0.4281537	1.2801	0	0	3.31855
11:21:57				14	9.5049	0.4263908	1.1817	0	0	3.30418
11:21:57				15	9.49615	0.4275129	1.1817	0	0	3.31424
11:21:58				16	9.48643	0.4292754	1.2801	0	0	3.32969
11:21:58				17	9.48449	0.4265513	1.2801	0	0	3.30737
11:21:59				18	9.49032	0.4262304	1.1817	0	0	3.30419
11:21:59				19	9.49713	0.4273523	1.1817	0	0	3.31283
11:22:00				20	9.49518	0.4278325	1.1817	0	0	3.31697
11:22:00				21	9.48935	0.4273523	1.2801	0	0	3.31354
11:22:01				22	9.49129	0.4267102	1.1817	0	0	3.30806
11:22:01				23	9.49615	0.4267102	1.1817	0	0	3.30762
11:22:02				24	9.48935	0.4265513	1.1817	0	0	3.30693

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:02				25	9.49129	0.4268707	1.1817	0	0	3.30939
11:22:03				26	9.48351	0.4275129	1.1817	0	0	3.31541
11:22:03				27	9.47275	0.4279931	1.2801	0	0	3.32036
11:22:04				28	9.47859	0.4275129	1.2801	0	0	3.31585
11:22:04				29	9.4874	0.4262304	1.1817	0	0	3.30446
11:22:05				30	9.48546	0.4262304	1.1817	0	0	3.30464
11:22:05				31	9.47956	0.4275129	1.1817	0	0	3.31577
11:22:06				32	9.47567	0.4279931	1.2801	0	0	3.32009
11:22:06				33	9.48351	0.4259095	1.2801	0	0	3.30216
11:22:07				34	9.48351	0.4259095	1.1817	0	0	3.30217
11:22:07				35	9.47956	0.4268707	1.1817	0	0	3.31047
11:22:08				36	9.47859	0.4283128	1.2801	0	0	3.32246
11:22:08				37	9.48157	0.4257491	1.2801	0	0	3.30102
11:22:09				38	9.47762	0.4259095	1.1817	0	0	3.30271
11:22:09				39	9.4747	0.4273523	1.1817	0	0	3.31489
11:22:10				40	9.47567	0.42607	1.2801	0	0	3.30421
11:22:10				41	9.47956	0.4254283	1.2801	0	0	3.29855
11:22:11				42	9.4747	0.4259095	1.1817	0	0	3.30297
11:22:11				43	9.4747	0.4263909	1.2801	0	0	3.30694
11:22:12				44	9.47567	0.4257491	1.2801	0	0	3.30156
11:22:12				45	9.47664	0.42607	1.2801	0	0	3.30412
11:22:13				46	9.47664	0.4265513	1.2801	0	0	3.30809
11:22:13				47	9.47081	0.4267102	1.2801	0	0	3.30994
11:22:14				48	9.46984	0.4268707	1.2801	0	0	3.31135
11:22:14				49	9.47373	0.42607	1.2801	0	0	3.30438
11:22:15				50	9.47664	0.4254283	1.2801	0	0	3.29882
11:22:15				51	9.47567	0.42607	1.2801	0	0	3.30421
11:22:16				52	9.47081	0.4263909	1.2801	0	0	3.3073
11:22:16				53	9.46984	0.4257491	1.3784	0	0	3.30209
11:22:17				54	9.47081	0.4254283	1.1817	0	0	3.29936
11:22:17				55	9.47081	0.4254283	1.1817	0	0	3.29936
11:22:18				56	9.46692	0.4259095	1.2801	0	0	3.30368
11:22:18				57	9.46886	0.4262304	1.3784	0	0	3.30615
11:22:19				58	9.47275	0.425268	1.2801	0	0	3.29785
11:22:19				59	9.47081	0.425268	1.1817	0	0	3.29803
11:22:20				60	9.46692	0.4255887	1.2801	0	0	3.30103
11:22:20				61	9.46789	0.4257491	1.3784	0	0	3.30226
11:22:21				62	9.46789	0.4251076	1.2801	0	0	3.29697
11:22:21				63	9.46984	0.4251076	1.1817	0	0	3.2968
11:22:22				64	9.46886	0.4254283	1.2801	0	0	3.29953
11:22:22				65	9.46886	0.4257491	1.3784	0	0	3.30217
11:22:23				66	9.46692	0.4251076	1.2801	0	0	3.29706
11:22:23				67	9.46692	0.4251076	1.1817	0	0	3.29707
11:22:24				68	9.46692	0.425268	1.2801	0	0	3.29838
11:22:24				69	9.46789	0.4251076	1.3784	0	0	3.29697

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:25				70	9.46886	0.4251076	1.2801	0	0	3.29688
11:22:25				71	9.46886	0.425268	1.2801	0	0	3.29821
11:22:26				72	9.46886	0.425268	1.2801	0	0	3.29821
11:22:26				73	9.46886	0.4251076	1.2801	0	0	3.29688
11:22:27				74	9.46886	0.425268	1.2801	0	0	3.29821
11:22:27				75	9.46595	0.425268	1.2801	0	0	3.29847
11:22:28				76	9.46595	0.425268	1.2801	0	0	3.29847
11:22:28				77	9.46789	0.4254283	1.2801	0	0	3.29962
11:22:29				78	9.46692	0.425268	1.2801	0	0	3.29838
11:22:29				79	9.46789	0.4251076	1.2801	0	0	3.29697
11:22:30				80	9.46497	0.425268	1.2801	0	0	3.29856
11:22:30				81	9.46303	0.4254284	1.2801	0	0	3.30006
11:22:31				82	9.46692	0.4254283	1.2801	0	0	3.29971
11:22:31				83	9.46497	0.4254284	1.2801	0	0	3.29989
11:22:32				84	9.46692	0.4251076	1.1817	0	0	3.29707
11:22:32				85	9.46595	0.425268	1.2801	0	0	3.29847
11:22:33				86	9.46595	0.4254284	1.3784	0	0	3.29979
11:22:33				87	9.46692	0.4251076	1.2801	0	0	3.29706
11:22:34				88	9.46692	0.4251076	1.1817	0	0	3.29707
11:22:34				89	9.46692	0.4251076	1.1817	0	0	3.29707
11:22:35				90	9.46595	0.4251076	1.3784	0	0	3.29714
11:22:35				91	9.464	0.4251076	1.4768	0	0	3.29732
11:22:36				92	9.46692	0.4251076	1.2801	0	0	3.29706
11:22:36				93	9.46692	0.425268	1.2801	0	0	3.29838
11:22:37				94	9.46497	0.4251076	1.2801	0	0	3.29724
11:22:37				95	9.46692	0.4249473	1.2801	0	0	3.29574
11:22:38				96	9.46984	0.4254283	1.3784	0	0	3.29944
11:22:38				97	9.46789	0.4249473	1.3784	0.58608	0.2442	3.29564
11:22:39				98	9.46011	0.4249473	1.2801	0.39072	0.09768	3.29636
11:22:39				99	9.46692	0.424787	1.2801	1.41636	4.49328	3.29441
11:22:40				100	9.46595	0.4249473	1.3784	1.4652	10.10989	3.29582
11:22:40				101	9.46497	0.4249473	1.2801	1.41636	10.25641	3.29591
11:22:41				102	9.46497	0.424787	1.1817	1.4652	10.25641	3.2946
11:22:41				103	9.46595	0.424787	1.2801	1.41636	10.45177	3.2945
11:22:42				104	9.46497	0.424787	1.3784	1.41636	10.10989	3.29459
11:22:42				105	9.46692	0.4249473	1.2801	1.4652	10.15873	3.29574
11:22:43				106	9.46595	0.424787	1.1817	1.4652	11.23321	3.29451
11:22:43				107	9.46789	0.424787	1.2801	1.41636	10.45177	3.29432
11:22:44				108	9.46692	0.424787	1.3784	1.41636	10.30525	3.29441
11:22:44				109	9.46692	0.424787	1.2801	1.41636	10.40293	3.29441
11:22:45				110	9.46692	0.4249473	1.1817	1.4652	10.35409	3.29574
11:22:45				111	9.46497	0.4244664	1.2801	1.4652	10.06105	3.29194
11:22:46				112	9.464	0.424787	1.2801	1.41636	10.45177	3.29468
11:22:46				113	9.46789	0.424787	1.3784	1.4652	10.30525	3.29432
11:22:47				114	9.46497	0.424787	1.2801	1.41636	10.30525	3.29459

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:47				115	9.464	0.424787	1.1817	1.4652	10.50061	3.29468
11:22:48				116	9.46595	0.424787	1.2801	1.41636	13.87057	3.2945
11:22:48				117	9.46595	0.424787	1.3784	1.4652	15.57998	3.2945
11:22:49				118	9.46886	0.424787	1.2801	1.4652	10.45177	3.29423
11:22:49				119	9.46595	0.4249473	1.1817	1.41636	11.52625	3.29583
11:22:50				120	9.46692	0.4249473	1.2801	1.41636	10.79365	3.29574
11:22:50				121	9.46595	0.424787	1.2801	1.41636	10.15873	3.2945
11:22:51				122	9.46692	0.424787	1.2801	1.41636	10.06105	3.29441
11:22:51				123	9.46595	0.424787	1.3784	1.4652	10.01221	3.2945
11:22:52				124	9.46595	0.424787	1.2801	1.41636	10.20757	3.2945
11:22:53				127	9.4654	0.4247378	1.2801	1.4652	10.20757	3.29415
11:22:54				128	9.46637	0.4247378	1.2801	1.41636	10.35409	3.29406
11:22:54				129	9.46637	0.4247378	1.2801	1.4652	10.01221	3.29406
11:22:55				130	9.46734	0.4245775	1.2801	1.4652	10.35409	3.29264
11:22:55				131	9.46832	0.4244172	1.2801	1.41636	10.45177	3.29123
11:22:56				132	9.46832	0.4245775	1.3784	1.4652	10.98901	3.29255
11:22:56				133	9.46734	0.4245775	1.3784	1.41636	10.45177	3.29264
11:22:57				134	9.47026	0.4245775	1.2801	1.4652	10.40293	3.29238
11:22:57				135	9.46832	0.4244172	1.1817	1.4652	10.50061	3.29124
11:22:58				136	9.46734	0.4245775	1.2801	1.4652	10.79365	3.29264
11:22:58				137	9.46929	0.4245775	1.3784	1.4652	10.40293	3.29246
11:22:59				138	9.46929	0.4245775	1.2801	1.4652	10.25641	3.29247
11:22:59				139	9.46832	0.4244172	1.2801	1.41636	10.35409	3.29123
11:23:00				140	9.46734	0.4245775	1.2801	1.41636	10.59829	3.29264
11:23:00				141	9.46929	0.4245775	1.2801	1.41636	10.25641	3.29247
11:23:01				142	9.46929	0.4245775	1.2801	1.41636	10.20757	3.29247
11:23:01				143	9.46929	0.4244172	1.2801	1.41636	10.50061	3.29114
11:23:02				144	9.46929	0.4244172	1.2801	1.4652	10.25641	3.29114
11:23:02				145	9.46637	0.4245775	1.2801	1.4652	10.35409	3.29273
11:23:03				146	9.46734	0.4245775	1.3784	1.41636	9.96337	3.29264
11:23:03				147	9.46929	0.4245775	1.2801	1.41636	10.30525	3.29247
11:23:04				148	9.46832	0.4244172	1.2801	1.4652	10.40293	3.29123
11:23:04				149	9.46832	0.4244172	1.2801	1.4652	10.69597	3.29123
11:23:05				150	9.46734	0.4244172	1.3784	1.41636	10.50061	3.29132
11:23:05				151	9.46929	0.4245775	1.2801	1.41636	10.25641	3.29247
11:23:06				152	9.46832	0.4244172	1.1817	1.4652	10.25641	3.29124
11:23:06				153	9.46734	0.4244172	1.1817	1.41636	10.59829	3.29133
11:23:07				154	9.46832	0.4244172	1.3784	1.41636	10.74481	3.29123
11:23:07				155	9.46832	0.4244172	1.3784	1.36752	10.45177	3.29123
11:23:08				156	9.46929	0.4244172	1.2801	1.41636	10.15873	3.29114
11:23:08				157	9.46832	0.4244172	1.2801	1.4652	10.20757	3.29123
11:23:09				158	9.46832	0.4244172	1.2801	1.4652	10.35409	3.29123
11:23:09				159	9.47026	0.4242569	1.2801	1.4652	10.20757	3.28973
11:23:10				160	9.46929	0.4244172	1.2801	1.4652	10.45177	3.29114
11:23:10				161	9.47026	0.4244172	1.3784	1.41636	10.50061	3.29105

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:11				162	9.46832	0.4244172	1.2801	1.41636	10.01221	3.29123
11:23:11				163	9.47026	0.4244172	1.1817	1.4652	10.35409	3.29106
11:23:12				164	9.46929	0.4244172	1.1817	1.4652	10.50061	3.29115
11:23:12				165	9.46832	0.4244172	1.3784	1.4652	10.50061	3.29123
11:23:13				166	9.47221	0.4244172	1.3784	1.4652	10.20757	3.29087
11:23:13				167	9.47221	0.4244172	1.1817	1.4652	10.94017	3.29088
11:23:14				168	9.47026	0.4244172	1.1817	1.41636	13.52869	3.29106
11:23:14				169	9.46929	0.4244172	1.2801	1.41636	11.18437	3.29114
11:23:15				170	9.46734	0.4242569	1.3784	1.41636	10.15873	3.28999
11:23:15				171	9.47026	0.4244172	1.3784	1.41636	10.69597	3.29105
11:23:16				172	9.46929	0.4244172	1.2801	1.41636	10.25641	3.29114
11:23:16				173	9.46929	0.4244172	1.1817	1.41636	10.10989	3.29115
11:23:17				174	9.46929	0.4244172	1.1817	1.41636	10.40293	3.29115
11:23:17				175	9.46637	0.4244172	1.3784	1.41636	10.54945	3.2914
11:23:18				176	9.47123	0.4244172	1.3784	1.41636	10.10989	3.29096
11:23:18				177	9.46929	0.4244172	1.1817	1.41636	10.06105	3.29115
11:23:19				178	9.46832	0.4244172	1.1817	1.41636	10.15873	3.29124
11:23:19				179	9.46929	0.4244172	1.3784	1.41636	10.25641	3.29114
11:23:20				180	9.47026	0.4244172	1.3784	1.41636	10.10989	3.29105
11:23:20				181	9.46929	0.4244172	1.2801	1.41636	10.25641	3.29114
11:23:21				182	9.46734	0.4244172	1.2801	1.41636	10.20757	3.29132
11:23:21				183	9.46832	0.4244172	1.2801	1.41636	10.01221	3.29123
11:23:22				184	9.46832	0.4244172	1.2801	1.41636	10.20757	3.29123
11:23:22				185	9.46929	0.4244172	1.3784	1.41636	10.06105	3.29114
11:23:23				186	9.46929	0.4244172	1.2801	1.41636	9.67033	3.29114
11:23:23				187	9.47221	0.4245775	1.2801	1.41636	9.91453	3.2922
11:23:24				188	9.47026	0.4244172	1.2801	1.41636	10.20757	3.29105
11:23:24				189	9.47026	0.4244172	1.2801	1.4652	10.30525	3.29105
11:23:25				190	9.46929	0.4244172	1.3784	1.4652	10.10989	3.29114
11:23:25				191	9.46734	0.4244172	1.3784	1.4652	10.15873	3.29132
11:23:26				192	9.46929	0.4244172	1.2801	1.4652	9.96337	3.29114
11:23:26				193	9.46832	0.4244172	1.2801	1.4652	10.10989	3.29123
11:23:27				194	9.46637	0.4244172	1.2801	1.4652	10.30525	3.29141
11:23:27				195	9.46832	0.4244172	1.3784	1.41636	10.30525	3.29123
11:23:28				196	9.46832	0.4244172	1.3784	1.4652	10.01221	3.29123
11:23:28				197	9.46832	0.4244172	1.2801	1.41636	10.15873	3.29123
11:23:29				198	9.46637	0.4245775	1.2801	1.41636	10.15873	3.29273
11:23:29				199	9.46734	0.4244172	1.2801	1.41636	10.06105	3.29132
11:23:30				200	9.46637	0.4244172	1.3784	1.4652	10.50061	3.2914
11:23:30				201	9.46734	0.4244172	1.3784	1.4652	9.91453	3.29132
11:23:31				202	9.46929	0.4244172	1.1817	1.4652	10.10989	3.29115
11:23:31				203	9.46734	0.4244172	1.2801	1.41636	10.20757	3.29132
11:23:32				204	9.46637	0.4244172	1.3784	1.41636	10.69597	3.2914
11:23:32				205	9.46734	0.4244172	1.3784	1.41636	10.20757	3.29132
11:23:33				206	9.46637	0.4244172	1.1817	1.41636	17.48474	3.29141

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:33				207	9.46832	0.4242569	1.1817	1.41636	13.72405	3.28991
11:23:34				208	9.46734	0.4244172	1.4768	1.4652	10.54945	3.29131
11:23:34				209	9.46637	0.4244172	1.3784	1.41636	10.10989	3.2914
11:23:35				210	9.46832	0.4244172	1.1817	1.41636	10.59829	3.29124
11:23:35				211	9.46637	0.4244172	1.1817	1.4652	32.23443	3.29141
11:23:36				212	9.46637	0.4244172	1.3784	1.4652	15.57998	3.2914
11:23:36				213	9.4654	0.4240967	1.3784	1.4652	10.30525	3.28885
11:23:37				214	9.46734	0.4245775	1.2801	1.41636	10.15873	3.29264
11:23:37				215	9.4654	0.4245775	1.2801	1.4652	11.86813	3.29282
11:23:38				216	9.46637	0.4245775	1.2801	1.4652	14.89621	3.29273
11:23:38				217	9.46443	0.4252188	1.1817	1.4652	10.20757	3.29821
11:23:39				218	9.46151	0.4248981	1.3784	1.41636	10.20757	3.29582
11:23:39				219	9.46248	0.4247378	1.3784	1.41636	10.10989	3.29441
11:23:40				220	9.46637	0.4247378	1.1817	1.4652	10.30525	3.29406
11:23:40				221	9.46443	0.4248981	1.1817	1.4652	10.35409	3.29556
11:23:41				222	9.46345	0.4250584	1.3784	1.41636	10.20757	3.29697
11:23:41				223	9.46345	0.4247378	1.3784	1.4652	10.06105	3.29432
11:23:42				224	9.46345	0.4247378	1.1817	1.4652	11.08669	3.29433
11:23:42				225	9.46345	0.4231355	1.1817	1.41636	10.50061	3.2811
11:23:43				226	9.46345	0.4244172	1.3784	1.4652	10.15873	3.29167
11:23:43				227	9.46345	0.4247378	1.2801	1.4652	10.15873	3.29432
11:23:44				228	9.46248	0.4247378	1.2801	1.41636	10.20757	3.29441
11:23:44				229	9.46345	0.4247378	1.2801	1.41636	10.50061	3.29432
11:23:45				230	9.4654	0.4247378	1.2801	1.4652	12.55189	3.29415
11:23:45				231	9.46248	0.4250584	1.1817	1.41636	10.20757	3.29706
11:23:46				232	9.46053	0.4250584	1.2801	1.4652	10.30525	3.29724
11:23:46				233	9.46151	0.4250584	1.3784	1.4652	10.06105	3.29714
11:23:47				234	9.46248	0.4248981	1.2801	1.41636	10.15873	3.29574
11:23:47				235	9.46151	0.4244172	1.2801	1.41636	10.25641	3.29185
11:23:48				236	9.46443	0.4247378	1.2801	1.4652	10.30525	3.29423
11:23:48				237	9.46345	0.4247378	1.3784	1.41636	10.20757	3.29432
11:23:49				238	9.46345	0.4247378	1.2801	1.41636	10.10989	3.29432
11:23:49				239	9.46443	0.4245775	1.2801	1.4652	10.20757	3.29291
11:23:50				240	9.46345	0.4245775	1.2801	1.41636	10.01221	3.293
11:23:50				241	9.46345	0.4247378	1.2801	1.4652	10.06105	3.29432
11:23:51				242	9.46637	0.4245775	1.2801	1.4652	10.35409	3.29273
11:23:51				243	9.46248	0.4245775	1.2801	1.41636	10.59829	3.29309
11:23:52				244	9.46345	0.4245775	1.3784	1.4652	10.30525	3.29299
11:23:53				247	9.46467	0.4247346	1.2801	1.41636	10.30525	3.29419
11:23:54				248	9.46467	0.4245743	1.2801	1.41636	10.50061	3.29286
11:23:54				249	9.46467	0.4248949	1.2801	1.4652	10.59829	3.29551
11:23:55				250	9.4637	0.4248949	1.2801	1.41636	10.25641	3.2956
11:23:55				251	9.46272	0.4245743	1.3784	1.4652	10.30525	3.29303
11:23:56				252	9.46661	0.4245743	1.2801	1.41636	10.06105	3.29268
11:23:56				253	9.46661	0.4245743	1.2801	1.41636	10.10989	3.29268

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:57				254	9.4637	0.4245743	1.2801	1.41636	10.45177	3.29295
11:23:57				255	9.46564	0.4245743	1.2801	1.4652	10.06105	3.29277
11:23:58				256	9.46661	0.4245743	1.3784	1.4652	10.01221	3.29268
11:23:58				257	9.46661	0.4245743	1.2801	1.41636	10.30525	3.29268
11:23:59				258	9.46564	0.4245743	1.2801	1.4652	10.30525	3.29277
11:23:59				259	9.46564	0.4245743	1.2801	1.41636	10.69597	3.29277
11:24:00				260	9.46467	0.4245743	1.3784	1.4652	10.40293	3.29286
11:24:00				261	9.4637	0.4245743	1.3784	1.4652	10.30525	3.29295
11:24:01				262	9.46661	0.4245743	1.2801	1.4652	10.15873	3.29268
11:24:01				263	9.4637	0.4247346	1.2801	1.4652	10.84249	3.29427
11:24:02				264	9.46661	0.4245743	1.2801	1.41636	10.30525	3.29268
11:24:02				265	9.46661	0.4245743	1.3784	1.4652	10.01221	3.29268
11:24:03				266	9.46467	0.4245743	1.3784	1.41636	10.20757	3.29286
11:24:03				267	9.46564	0.4245743	1.2801	1.4652	10.20757	3.29277
11:24:04				268	9.4637	0.4245743	1.2801	1.41636	10.25641	3.29295
11:24:04				269	9.46564	0.4245743	1.3784	1.4652	10.25641	3.29277
11:24:05				270	9.46564	0.4245743	1.3784	1.4652	10.35409	3.29277
11:24:05				271	9.46661	0.4245743	1.2801	1.41636	10.25641	3.29268
11:24:06				272	9.46759	0.4245743	1.2801	1.41636	10.54945	3.2926
11:24:06				273	9.4637	0.4245743	1.2801	1.41636	10.74481	3.29295
11:24:07				274	9.46564	0.4245743	1.3784	1.4652	10.59829	3.29277
11:24:07				275	9.46564	0.4245743	1.2801	1.4652	10.20757	3.29277
11:24:08				276	9.46661	0.4245743	1.2801	1.4652	10.10989	3.29268
11:24:08				277	9.4637	0.4245743	1.2801	1.41636	10.50061	3.29295
11:24:09				278	9.46661	0.4245743	1.3784	1.41636	10.25641	3.29268
11:24:09				279	9.4637	0.4245743	1.2801	1.4652	10.10989	3.29295
11:24:10				280	9.46661	0.4245743	1.2801	1.4652	9.91453	3.29268
11:24:10				281	9.46661	0.4245743	1.2801	1.41636	9.96337	3.29268
11:24:11				282	9.46564	0.4245743	1.2801	1.4652	9.96337	3.29277
11:24:11				283	9.46467	0.4245743	1.3784	1.36752	9.86569	3.29286
11:24:12				284	9.46564	0.4245743	1.3784	1.4652	10.15873	3.29277
11:24:12				285	9.46467	0.4245743	1.2801	1.41636	10.35409	3.29286
11:24:13				286	9.46564	0.4245743	1.1817	1.4652	10.25641	3.29278
11:24:13				287	9.4637	0.4245743	1.2801	1.4652	10.25641	3.29295
11:24:14				288	9.46467	0.4247346	1.3784	1.41636	10.54945	3.29418
11:24:14				289	9.46564	0.4245743	1.3784	1.41636	9.91453	3.29277
11:24:15				290	9.46467	0.4245743	1.2801	1.41636	10.06105	3.29286
11:24:15				291	9.46467	0.4245743	1.1817	1.4652	10.30525	3.29287
11:24:16				292	9.46661	0.424414	1.1817	1.4652	10.40293	3.29137
11:24:16				293	9.4637	0.4247346	1.3784	1.4652	10.30525	3.29427
11:24:17				294	9.4637	0.4245743	1.5752	1.41636	9.91453	3.29294
11:24:17				295	9.46661	0.4247346	1.1817	1.41636	10.10989	3.29401
11:24:18				296	9.46661	0.4247346	0.9849	1.4652	16.36142	3.29402
11:24:18				297	9.46759	0.4248949	1.2801	1.4652	11.33089	3.29524
11:24:19				298	9.46564	0.4247346	1.4768	1.41636	10.74481	3.29409

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:19				299	9.46467	0.42153	1.4768	1.41636	10.20757	3.26772
11:24:20				300	9.46564	0.4248949	1.1817	1.41636	14.50549	3.29543
11:24:20				301	9.46661	0.4247346	1.0833	1.4652	11.18437	3.29402
11:24:21				302	9.4637	0.4245743	1.2801	1.4652	10.40293	3.29295
11:24:21				303	9.46661	0.4247346	1.4768	1.41636	10.15873	3.294
11:24:22				304	9.46467	0.4247346	1.3784	1.4652	11.47741	3.29418
11:24:22				305	9.46661	0.4250552	1.2801	1.41636	13.33333	3.29666
11:24:23				306	9.46467	0.4248949	1.3784	1.4652	10.45177	3.2955
11:24:23				307	9.46272	0.4248949	1.4768	1.4652	10.20757	3.29568
11:24:24				308	9.4637	0.4247346	1.4768	1.41636	10.20757	3.29426
11:24:24				309	9.46564	0.4248949	1.4768	1.4652	11.23321	3.29541
11:24:25				310	9.46564	0.4248949	1.4768	1.41636	10.50061	3.29541
11:24:25				311	9.46467	0.4247346	1.4768	1.41636	9.91453	3.29418
11:24:26				312	9.46661	0.4247346	1.4768	1.4652	10.15873	3.294
11:24:26				313	9.46661	0.4247346	1.4768	1.41636	10.10989	3.294
11:24:27				314	9.46661	0.4247346	1.4768	1.4652	10.15873	3.294
11:24:27				315	9.46564	0.4247346	1.4768	1.4652	10.06105	3.29409
11:24:28				316	9.46564	0.4248949	1.4768	1.41636	10.15873	3.29541
11:24:28				317	9.4637	0.4248949	1.4768	1.41636	10.10989	3.29559
11:24:29				318	9.46467	0.4248949	1.4768	1.4652	10.35409	3.2955
11:24:29				319	9.46272	0.4248949	1.5752	1.41636	10.01221	3.29567
11:24:30				320	9.4637	0.4248949	1.5752	1.4652	10.15873	3.29558
11:24:30				321	9.4637	0.4248949	1.5752	1.4652	10.40293	3.29558
11:24:31				322	9.46564	0.4248949	1.5752	1.41636	10.25641	3.29541
11:24:31				323	9.4637	0.4248949	1.6736	1.41636	10.79365	3.29558
11:24:32				324	9.46759	0.4247346	1.772	1.4652	10.30525	3.29389
11:24:32				325	9.46856	0.4247346	1.772	1.41636	10.10989	3.2938
11:24:33				326	9.46564	0.4247346	1.772	1.41636	10.01221	3.29407
11:24:33				327	9.46959	0.4248949	1.9687	1.4652	10.50061	3.29502
11:24:34				328	9.46959	0.4248949	2.1655	1.41636	10.20757	3.29501
11:24:34				329	9.46856	0.4248949	2.0671	1.4652	10.15873	3.29511
11:24:35				330	9.46661	0.4248949	1.8703	1.4652	10.01221	3.2953
11:24:35				331	9.46856	0.4248949	1.9687	1.41636	9.91453	3.29512
11:24:36				332	9.46759	0.4248949	2.0671	1.41636	10.25641	3.2952
11:24:36				333	9.46661	0.4248949	2.0671	1.4652	10.01221	3.29529
11:24:37				334	9.46661	0.4248949	2.0671	1.4652	9.96337	3.29529
11:24:37				335	9.46661	0.4248949	2.0671	1.41636	10.01221	3.29529
11:24:38				336	9.46661	0.4248949	2.0671	1.41636	10.01221	3.29529
11:24:38				337	9.46661	0.4248949	1.9687	1.4652	9.96337	3.2953
11:24:39				338	9.46856	0.4248949	1.9687	1.4652	10.01221	3.29512
11:24:39				339	9.46856	0.4248949	2.0671	1.41636	10.69597	3.29511
11:24:40				340	9.46759	0.4248949	2.1655	1.4652	10.35409	3.2952
11:24:40				341	9.46759	0.4248949	2.0671	1.4652	10.30525	3.2952
11:24:41				342	9.46759	0.4248949	1.8703	1.4652	10.15873	3.29521
11:24:41				343	9.46661	0.4248949	1.9687	1.41636	10.06105	3.2953

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:42				344	9.46759	0.4248949	2.0671	1.41636	10.06105	3.2952
11:24:42				345	9.46959	0.4248949	2.1655	1.4652	10.10989	3.29501
11:24:43				346	9.46467	0.4248949	1.9687	1.4652	10.15873	3.29547
11:24:43				347	9.46467	0.4248949	1.9687	1.41636	10.06105	3.29547
11:24:44				348	9.46759	0.4248949	1.9687	1.4652	10.01221	3.29521
11:24:44				349	9.46661	0.4248949	1.9687	1.4652	10.01221	3.2953
11:24:45				350	9.46467	0.4247346	1.9687	1.4652	10.10989	3.29415
11:24:45				351	9.46661	0.424895	2.1655	1.41636	10.50061	3.29529
11:24:46				352	9.46759	0.4248949	2.0671	1.4652	10.20757	3.2952
11:24:46				353	9.46661	0.4248949	1.8703	1.4652	10.01221	3.2953
11:24:47				354	9.46661	0.4248949	1.8703	1.4652	10.15873	3.2953
11:24:47				355	9.46467	0.424895	2.1655	1.41636	10.40293	3.29546
11:24:48				356	9.46856	0.4248949	2.1655	1.4652	10.10989	3.29511
11:24:48				357	9.46856	0.4248949	1.9687	1.4652	10.15873	3.29512
11:24:49				358	9.46661	0.4247346	1.8703	1.41636	10.20757	3.29398
11:24:49				359	9.46467	0.4248949	1.9687	1.41636	10.25641	3.29547
11:24:50				360	9.46661	0.4250553	2.3623	1.41636	10.30525	3.2966
11:24:50				361	9.46564	0.424895	2.3623	1.4652	10.25641	3.29536
11:24:51				362	9.46759	0.4247346	2.1655	1.4652	10.15873	3.29387
11:24:51	11:23:36 start to lower			363	9.46467	0.4256968	2.1655	1.41636	10.06105	3.30209
11:24:52				364	9.46467	0.4252156	2.4606	1.4652	10.50061	3.2981
11:24:53				367	9.46631	0.4250648	2.2639	1.41636	10.30525	3.29671
11:24:54				368	9.46436	0.4250648	2.2639	1.41636	10.25641	3.29689
11:24:54				369	9.46436	0.4250648	2.4606	1.4652	10.20757	3.29688
11:24:55				370	9.46436	0.4250648	2.3623	1.4652	10.06105	3.29688
11:24:55				371	9.46534	0.4250648	2.3623	1.41636	10.15873	3.29679
11:24:56				372	9.46534	0.4250648	2.3623	1.41636	10.06105	3.29679
11:24:56				373	9.46436	0.4250648	2.3623	1.41636	10.45177	3.29688
11:24:57				374	9.46728	0.4250648	2.3623	1.4652	10.30525	3.29662
11:24:57				375	9.46728	0.4250648	2.3623	1.41636	10.25641	3.29662
11:24:58				376	9.46631	0.4250648	2.4606	1.4652	10.20757	3.2967
11:24:58				377	9.46631	0.4250648	2.4606	1.41636	9.96337	3.2967
11:24:59				378	9.46728	0.4252252	2.3623	1.41636	10.10989	3.29794
11:24:59				379	9.46534	0.4258651	2.4606	1.41636	10.25641	3.3034
11:25:00				380	9.46436	0.4252252	2.7558	1.4652	10.20757	3.29819
11:25:00				381	9.46534	0.4252252	2.7558	1.4652	9.91453	3.2981
11:25:01				382	9.46339	0.4252252	2.4606	1.41636	10.01221	3.29829
11:25:01				383	9.46436	0.4252252	2.3623	1.41636	10.35409	3.29821
11:25:02				384	9.46436	0.4253855	2.6574	1.4652	10.40293	3.29952
11:25:02				385	9.46242	0.4252252	2.7558	1.4652	10.20757	3.29837
11:25:03				386	9.46631	0.4252252	2.4606	1.41636	10.01221	3.29803
11:25:03				387	9.46339	0.4252252	2.3623	1.41636	9.96337	3.2983
11:25:04				388	9.46339	0.4252252	2.559	1.41636	10.50061	3.29829
11:25:04				389	9.46339	0.4252252	2.7558	1.41636	9.96337	3.29828
11:25:05				390	9.46534	0.4252252	2.6574	1.4652	9.96337	3.2981

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:05				391	9.46534	0.4252252	2.4606	1.4652	10.25641	3.29811
11:25:06				392	9.46436	0.4252252	2.4606	1.4652	10.15873	3.2982
11:25:06				393	9.46436	0.4252252	2.6574	1.41636	9.91453	3.29819
11:25:07				394	9.46242	0.4252252	2.6574	1.41636	10.06105	3.29837
11:25:07				395	9.46339	0.4252252	2.559	1.4652	9.91453	3.29829
11:25:08				396	9.46339	0.4250648	2.4606	1.4652	10.10989	3.29697
11:25:08				397	9.46534	0.4253855	2.559	1.41636	10.40293	3.29943
11:25:09				398	9.46534	0.4252252	2.7558	1.4652	10.35409	3.2981
11:25:09				399	9.46631	0.4252252	2.6574	1.41636	10.01221	3.29801
11:25:10				400	9.46534	0.4252252	2.4606	1.41636	10.06105	3.29811
11:25:10				401	9.46436	0.4250648	2.3623	1.4652	10.01221	3.29688
11:25:11				402	9.46436	0.4250648	2.6574	1.4652	10.59829	3.29687
11:25:11				403	9.46436	0.4252252	2.8542	1.4652	10.40293	3.29818
11:25:12				404	9.46436	0.4252252	2.6574	1.41636	9.96337	3.29819
11:25:12				405	9.46728	0.4250648	2.4606	1.41636	10.10989	3.29661
11:25:13				406	9.46436	0.4252252	2.3623	1.4652	9.91453	3.29821
11:25:13				407	9.46436	0.4252252	2.6574	1.41636	10.54945	3.29819
11:25:14				408	9.46339	0.4252252	2.8542	1.41636	10.25641	3.29827
11:25:14				409	9.46728	0.4250648	2.6574	1.4652	10.10989	3.2966
11:25:15				410	9.46728	0.4250648	2.3623	1.4652	10.10989	3.29662
11:25:15				411	9.46631	0.4252252	2.3623	1.4652	10.06105	3.29803
11:25:16				412	9.46728	0.4252252	2.7558	1.4652	10.30525	3.29792
11:25:16				413	9.46436	0.4250648	2.7558	1.41636	10.15873	3.29686
11:25:17				414	9.46436	0.4250648	2.559	1.41636	10.01221	3.29687
11:25:17				415	9.46436	0.4250648	2.3623	1.4652	10.15873	3.29688
11:25:18				416	9.46436	0.4250648	2.4606	1.4652	10.30525	3.29688
11:25:18				417	9.46534	0.4250648	2.7558	1.4652	10.30525	3.29677
11:25:19				418	9.46631	0.4250648	2.7558	1.41636	10.10989	3.29669
11:25:19				419	9.46728	0.4250648	2.559	1.4652	10.01221	3.29661
11:25:20				420	9.46728	0.4247442	2.4606	1.4652	10.10989	3.29396
11:25:20				421	9.46728	0.4249045	2.559	1.36752	10.30525	3.29528
11:25:21				422	9.46436	0.4247442	2.7558	1.41636	10.25641	3.29422
11:25:21				423	9.46728	0.4247442	2.7558	1.4652	10.10989	3.29395
11:25:22				424	9.46728	0.4247442	2.6574	1.4652	10.30525	3.29395
11:25:22				425	9.46631	0.4244236	2.559	1.4652	10.84249	3.2914
11:25:23				426	9.46728	0.4247442	2.4606	1.4652	10.15873	3.29396
11:25:23				427	9.46826	0.4249045	2.4606	1.4652	10.40293	3.2952
11:25:24				428	9.46534	0.4247442	2.6574	1.41636	10.25641	3.29413
11:25:24				429	9.46631	0.4249045	2.7558	1.41636	10.15873	3.29536
11:25:25				430	9.46631	0.4249045	2.559	1.41636	10.20757	3.29537
11:25:25				431	9.46534	0.4249045	2.559	1.41636	10.30525	3.29546
11:25:26				432	9.46728	0.4249045	2.6574	1.4652	10.35409	3.29528
11:25:26				433	9.46728	0.4249045	2.6574	1.4652	9.86569	3.29528
11:25:27				434	9.46826	0.4250648	2.559	1.4652	10.20757	3.29652
11:25:27				435	9.46728	0.4249045	2.559	1.41636	10.45177	3.29528

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:28				436	9.46534	0.4249045	2.6574	1.4652	10.40293	3.29546
11:25:28				437	9.46436	0.4249045	2.7558	1.41636	10.30525	3.29554
11:25:29				438	9.46534	0.4249045	2.7558	1.41636	10.30525	3.29545
11:25:29				439	9.46631	0.4249045	2.8542	1.41636	10.10989	3.29536
11:25:30				440	9.46631	0.4250648	2.9526	1.4652	10.30525	3.29668
11:25:30				441	9.46728	0.4249045	2.9526	1.41636	10.40293	3.29526
11:25:31				442	9.46728	0.4250648	2.9526	1.4652	10.25641	3.29659
11:25:31				443	9.46728	0.4250648	2.9526	1.4652	10.40293	3.29659
11:25:32				444	9.46826	0.4250648	2.9526	1.4652	10.54945	3.2965
11:25:32				445	9.46728	0.4250648	3.0509	1.4652	10.15873	3.29658
11:25:33				446	9.46728	0.4250648	2.9526	1.4652	10.01221	3.29659
11:25:33				447	9.46923	0.4250648	2.9526	1.41636	10.25641	3.29641
11:25:34				448	9.46728	0.4252252	2.9526	1.41636	10.45177	3.29791
11:25:34				449	9.46436	0.4250648	2.9526	1.41636	10.30525	3.29685
11:25:35				450	9.46631	0.4252252	2.9526	1.4652	10.10989	3.298
11:25:35				451	9.46631	0.4250648	2.9526	1.41636	9.91453	3.29668
11:25:36				452	9.46436	0.4252252	2.9526	1.4652	10.40293	3.29818
11:25:36				453	9.46631	0.4252252	3.0509	1.4652	9.86569	3.29799
11:25:37				454	9.46728	0.4252252	2.9526	1.4652	10.10989	3.29791
11:25:37				455	9.46631	0.4252252	2.9526	1.41636	10.15873	3.298
11:25:38				456	9.46728	0.4252252	2.9526	1.4652	10.40293	3.29791
11:25:38				457	9.46436	0.4252252	3.0509	1.4652	10.25641	3.29817
11:25:39				458	9.46631	0.4252252	3.0509	1.41636	10.06105	3.29799
11:25:39				459	9.46534	0.4250648	2.9526	1.41636	9.96337	3.29676
11:25:40				460	9.46631	0.4247442	2.9526	1.4652	10.20757	3.29403
11:25:40				461	9.46534	0.4250648	3.0509	1.41636	10.20757	3.29676
11:25:41				462	9.46728	0.4252252	3.2477	1.41636	10.15873	3.2979
11:25:41				463	9.46728	0.4252252	3.3461	1.41636	10.06105	3.29789
11:25:42				464	9.46728	0.4252252	3.3461	1.41636	10.15873	3.29789
11:25:42				465	9.46436	0.4252252	3.4445	1.4652	10.06105	3.29815
11:25:43				466	9.46728	0.4252252	3.4445	1.4652	10.69597	3.29789
11:25:43				467	9.46631	0.4252252	3.5428	1.4652	10.01221	3.29797
11:25:44				468	9.46826	0.4253856	3.4445	1.4652	10.10989	3.29912
11:25:44				469	9.46728	0.4252252	3.4445	1.4652	10.15873	3.29789
11:25:45				470	9.46631	0.4252252	3.4445	1.4652	10.35409	3.29797
11:25:45				471	9.46728	0.4253856	3.4445	1.41636	10.20757	3.29921
11:25:46				472	9.46826	0.4253856	3.4445	1.4652	10.40293	3.29912
11:25:46				473	9.46631	0.4253856	3.4445	1.4652	9.96337	3.2993
11:25:47				474	9.46728	0.4255459	3.4445	1.41636	10.06105	3.30053
11:25:47				475	9.46534	0.4255459	3.4445	1.41636	10.74481	3.30071
11:25:48				476	9.46631	0.4253856	3.5428	1.41636	10.06105	3.29929
11:25:48				477	9.46534	0.4253856	3.4445	1.41636	9.86569	3.29939
11:25:49				478	9.46631	0.4255459	3.4445	1.41636	9.91453	3.30062
11:25:49				479	9.46436	0.4257063	3.4445	1.4652	10.15873	3.30213
11:25:50				480	9.46534	0.426186	3.4445	1.4652	10.10989	3.306

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:50				481	9.46534	0.4257063	3.5428	1.41636	10.40293	3.30203
11:25:51				482	9.46534	0.4255459	3.4445	1.4652	9.91453	3.30071
11:25:51				483	9.46339	0.4255459	3.3461	1.4652	10.10989	3.3009
11:25:52				484	9.46436	0.4263465	3.3461	1.4652	10.15873	3.30742
11:25:53				487	9.46607	0.4255459	3.3461	1.41636	10.15873	3.30065
11:25:54				488	9.46412	0.4255459	3.3461	1.4652	10.40293	3.30083
11:25:54				489	9.46607	0.4255459	3.4445	1.4652	10.35409	3.30065
11:25:55				490	9.46704	0.4255459	3.5428	1.41636	10.01221	3.30055
11:25:55				491	9.46509	0.4255459	3.4445	1.4652	10.10989	3.30073
11:25:56				492	9.46704	0.4255459	3.3461	1.4652	10.30525	3.30056
11:25:56				493	9.46509	0.4257063	3.3461	1.41636	10.50061	3.30206
11:25:57				494	9.46412	0.4257063	3.4445	1.4652	10.20757	3.30215
11:25:57				495	9.46412	0.4257063	3.5428	1.4652	10.15873	3.30214
11:25:58				496	9.46412	0.4255459	3.4445	1.41636	10.15873	3.30082
11:25:58				497	9.46509	0.4253856	3.2477	1.4652	10.06105	3.29942
11:25:59				498	9.46509	0.4258667	3.2477	1.4652	9.96337	3.30339
11:25:59				499	9.46412	0.4258668	3.5428	1.41636	10.30525	3.30347
11:26:00				500	9.46315	0.4258668	3.7396	1.41636	9.96337	3.30355
11:26:00				501	9.46509	0.4255459	3.4445	1.4652	9.96337	3.30073
11:26:01				502	9.46315	0.4257063	3.2477	1.41636	10.06105	3.30225
11:26:01				503	9.46607	0.4258667	3.3461	1.4652	10.40293	3.3033
11:26:02				504	9.46412	0.4258668	3.6412	1.4652	10.35409	3.30346
11:26:02				505	9.46315	0.4258668	3.7396	1.41636	9.86569	3.30355
11:26:03				506	9.46412	0.426186	3.9364	1.4652	10.01221	3.30608
11:26:03				507	9.46412	0.4258668	3.9364	1.4652	10.15873	3.30345
11:26:04				508	9.46315	0.4260256	3.9364	1.4652	9.81685	3.30485
11:26:04				509	9.46412	0.4260256	3.9364	1.4652	10.06105	3.30476
11:26:05				510	9.46315	0.4260256	4.0348	1.4652	10.15873	3.30484
11:26:05				511	9.46412	0.4260256	4.1331	1.4652	10.25641	3.30475
11:26:06				512	9.46509	0.4260256	4.0348	1.4652	9.76801	3.30466
11:26:06				513	9.46704	0.4258668	3.9364	1.4652	9.81685	3.30318
11:26:07				514	9.46218	0.4258668	3.9364	1.4652	10.06105	3.30363
11:26:07				515	9.46412	0.4258668	4.0348	1.4652	10.25641	3.30344
11:26:08				516	9.46218	0.4260256	4.0348	1.4652	10.30525	3.30493
11:26:08				517	9.46412	0.4258668	4.0348	1.4652	9.71917	3.30344
11:26:09				518	9.46412	0.4260256	3.9364	1.4652	9.81685	3.30476
11:26:09				519	9.46315	0.4260256	4.0348	1.4652	10.30525	3.30484
11:26:10				520	9.4612	0.4260256	4.0348	1.4652	10.06105	3.30502
11:26:10				521	9.46412	0.4258668	4.0348	1.41636	9.91453	3.30344
11:26:11				522	9.46218	0.4257064	4.0348	1.4652	10.01221	3.3023
11:26:11				523	9.46412	0.4258668	4.1331	1.4652	10.54945	3.30344
11:26:12				524	9.4612	0.4258668	4.1331	1.41636	9.96337	3.3037
11:26:12				525	9.46412	0.4260256	3.9364	1.4652	10.01221	3.30476
11:26:13				526	9.46412	0.4258668	3.9364	1.4652	10.25641	3.30345
11:26:13				527	9.46509	0.4257064	4.0348	1.4652	10.15873	3.30203

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:26:14				528	9.46412	0.4258668	4.1331	1.4652	9.91453	3.30344
11:26:14				529	9.46315	0.4258668	4.1331	1.4652	9.91453	3.30353
11:26:15				530	9.4612	0.4258668	4.0348	1.41636	9.86569	3.30371
11:26:15				531	9.46412	0.4257064	3.9364	1.4652	9.86569	3.30212
11:26:16				532	9.46315	0.4579205	4.1331	1.4652	10.20757	3.56904
11:26:16				533	9.48455	0.4582411	4.5267	1.41636	10.10989	3.56956
11:26:17				534	9.5001	0.4556752	4.7234	1.41636	8.59585	3.54672
11:26:17				535	9.47968	0.4444558	4.4283	1.4652	8.93773	3.45572
11:26:18				536	9.47774	0.4341991	4.3299	1.41636	9.67033	3.37102
11:26:18				537	9.47774	0.4369245	4.4283	1.4652	10.01221	3.39356
11:26:19				538	9.48066	0.4356411	4.5267	1.41636	9.62149	3.38266
11:26:19				539	9.48066	0.4337187	4.5267	1.41636	8.64469	3.36677
11:26:20				540	9.47968	0.439808	4.4283	1.4652	8.69353	3.41724
11:26:20				541	9.47579	0.4322767	4.3299	1.4652	9.18193	3.35531
11:26:21				542	9.48163	0.4960712	4.4283	1.41636	9.23077	3.88497
11:26:21				543	9.5001	0.4444558	4.6251	1.4652	8.54701	3.45375
11:26:22				544	9.49135	0.4537526	4.4283	1.41636	7.22833	3.53165
11:26:22				545	9.4933	0.4635304	4.4283	1.41636	8.54701	3.61262
11:26:23				546	9.506	0.4510273	4.5267	1.41636	8.64469	3.50762
11:26:23				547	9.51669	0.4543937	4.5267	1.4652	8.74237	3.53448
11:26:24				548	9.5128	0.4670563	4.5267	1.41636	8.54701	3.63995
11:26:24				549	9.51475	0.461607	4.5267	1.4652	8.79121	3.5945
11:26:25				550	9.51961	0.4529502	4.5267	1.4652	8.84005	3.52223
11:26:25				551	9.506	0.4494256	4.4283	1.41636	8.59585	3.49435
11:26:26				552	9.50794	0.5037664	4.4283	1.41636	9.13309	3.94643
11:26:26				553	9.53127	0.468339	4.5267	1.4652	8.40049	3.64874
11:26:27				554	9.53127	0.4723464	4.5267	1.41636	7.91209	3.68204
11:26:27				555	9.53904	0.4531115	4.4283	1.4652	8.05861	3.52167
11:26:28				556	9.52252	0.457278	4.4283	1.4652	7.86325	3.55782
11:26:28				557	9.51669	0.5129064	4.4283	1.41636	8.93773	4.02193
11:26:29				558	9.5371	0.6522927	4.5267	1.4652	9.67033	5.19786
11:26:29				559	9.57116	0.4931852	4.5267	1.4652	7.86325	3.85129
11:26:30				560	9.55659	0.5141891	4.5267	1.41636	6.88645	4.0282
11:26:30				561	9.53321	0.4915823	4.4283	1.4652	8.35165	3.84198
11:26:31				562	9.5507	0.5127461	4.4283	1.4652	8.88889	4.0168
11:26:31				563	9.58088	0.5055314	4.6251	1.41636	9.32845	3.95318
11:26:32				564	9.58476	0.5183574	4.5267	1.4652	8.30281	4.0599
11:26:32				565	9.56534	0.7858419	4.4283	1.4652	8.59585	6.34225
11:26:33				566	9.58282	0.6566257	4.5267	1.4652	9.32845	5.22822
11:26:33				567	9.60029	0.5969418	4.5267	1.4652	8.74237	4.71891
11:26:34				568	9.62656	0.5886007	4.4283	1.4652	8.35165	4.64504
11:26:34				569	9.61783	0.6790919	4.4283	1.4652	8.88889	5.41487
11:26:35				570	9.68288	0.6943371	4.5267	1.4652	9.67033	5.53527
11:26:35				571	9.7159	0.6762023	4.5267	1.4652	7.81441	5.37555
11:26:36				572	9.6887	0.6429856	4.5267	1.4652	7.66789	5.09702

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:26:36				573	9.66737	0.6458748	4.4283	1.4652	8.54701	5.12458
11:26:37				574	9.66349	0.7614355	4.4283	1.4652	9.08425	6.11434
11:26:37				575	9.67319	0.6877578	4.5267	1.4652	8.54701	5.48054
11:26:38				576	9.68579	0.6469973	4.6251	1.4652	7.86325	5.13149
11:26:38				577	9.67707	0.6436281	4.5267	1.4652	7.66789	5.10412
11:26:39				578	9.64888	0.6171553	4.4283	1.4652	7.96093	4.88352
11:26:39				579	9.6567	0.9826257	4.4283	1.4652	8.64469	8.04531
11:26:40				580	9.77893	1.0676581	4.6251	1.41636	7.37485	8.76865
11:26:40				581	9.8642	0.8548961	4.7234	1.4652	7.37485	6.88581
11:26:41				582	9.80507	0.7638448	4.6251	1.7094	3.02808	6.11111
11:26:41				583	9.82448	0.9776432	4.7234	1.51404	5.12821	7.96426
11:26:42				584	9.89707	0.8945724	4.9202	1.4652	5.71429	7.22356
11:26:42				585	9.89997	0.8964995	5.0186	1.41636	3.27228	7.23972
11:26:43				586	9.88064	0.9207608	4.8218	1.41636	3.4188	7.45479
11:26:43				587	9.85931	0.9511288	4.7234	1.41636	4.29792	7.7244
11:26:44				588	9.88548	0.977483	4.8218	1.4652	5.81197	7.94943
11:26:44				589	9.92129	0.9206001	4.9202	1.41636	4.98168	7.44502
11:26:45				590	9.92323	0.9447	4.9202	1.41636	3.9072	7.65465
11:26:45				591	9.94351	0.9451822	4.8218	1.4652	4.00488	7.65458
11:26:46				592	9.94545	1.0147691	4.7234	1.41636	4.49328	8.26303
11:26:46				593	9.96868	1.073767	4.9202	1.4652	4.98168	8.77663
11:26:47				594	9.99282	1.1051182	5.2153	1.4652	4.05372	9.04743
11:26:47				595	9.99282	1.0650844	5.2153	1.4652	3.36996	8.69426
11:26:48				596	9.99185	1.0594573	5.3137	1.4652	3.1746	8.64494
11:26:48				597	9.99282	1.0880762	5.3137	1.4652	3.12576	8.89692
11:26:49				598	9.99957	1.0771418	5.5105	1.41636	3.12576	8.79882
11:26:49				599	9.99957	1.0784291	5.6089	1.4652	2.88156	8.81016
11:26:50				600	9.99957	1.0695866	5.4121	1.4652	2.9304	8.73227
11:26:50				601	10.0015	1.0879141	5.3137	1.4652	2.97924	8.89337
11:26:51				602	10.00343	1.0834136	5.5105	1.4652	3.02808	8.85317
11:26:51				603	10.0044	1.0851806	5.5105	1.4652	2.97924	8.86852
11:26:52				604	10.00343	1.0761778	5.5105	1.4652	2.78388	8.78939
11:26:53				607	10.00084	1.0820923	5.5105	1.4652	3.07692	8.84216
11:26:54				608	10.00373	1.0668192	5.5105	1.4652	2.88156	8.70688
11:26:54				609	9.99794	1.0623191	5.4121	1.4652	2.9304	8.66867
11:26:55				610	9.99891	1.080325	5.4121	1.4652	3.07692	8.82706
11:26:55				611	10.00373	1.0787159	5.4121	1.4652	3.12576	8.8117
11:26:56				612	10.0047	1.0742146	5.5105	1.41636	3.07692	8.77179
11:26:56				613	10.0018	1.080325	5.5105	1.41636	3.07692	8.82634
11:26:57				614	10.00277	1.0761438	5.5105	1.4652	3.07692	8.78925
11:26:57				615	10.00373	1.0753393	5.5105	1.41636	3.07692	8.78193
11:26:58				616	10.0018	1.0816094	5.4121	1.41636	3.12576	8.83768
11:26:58				617	10.00277	1.0809671	5.5105	1.4652	2.97924	8.83177
11:26:59				618	10.00277	1.0819327	5.5105	1.41636	2.9304	8.84028
11:26:59				619	10.0018	1.0906139	5.5105	1.4652	3.02808	8.91708

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:27:00				620	10.00373	1.080646	5.5105	1.4652	2.97924	8.8287
11:27:00				621	9.99987	1.0798424	5.4121	1.4652	2.83272	8.82257
11:27:01				622	10.0018	1.0941511	5.4121	1.4652	2.97924	8.94831
11:27:01				623	10.0047	1.090936	5.5105	1.4652	3.12576	8.91922
11:27:02				624	10.00373	1.0917384	5.6089	1.4652	2.9304	8.92652
11:27:02				625	10.00373	1.0893277	5.4121	1.4652	2.88156	8.90528
11:27:03				626	10.00277	1.1009042	5.3137	1.4652	3.07692	9.00771
11:27:03				627	10.0047	1.0965615	5.5105	1.4652	3.1746	8.96886
11:27:04				628	10.00663	1.095277	5.5105	1.41636	2.78388	8.95705
11:27:04				629	10.00663	1.0978487	5.4121	1.41636	2.78388	8.97976
11:27:05				630	10.00663	1.1029944	5.4121	1.4652	2.9304	9.0252
11:27:05				631	10.00952	1.1015465	5.5105	1.4652	2.78388	9.01168
11:27:06				632	10.01145	1.1004204	5.5105	1.41636	3.02808	9.00126
11:27:06				633	10.01248	1.0975279	5.5105	1.41636	2.78388	8.97547
11:27:07				634	10.01049	0.9490108	5.0186	1.4652	2.9304	7.67377
11:27:07				635	9.80446	0.6890225	4.4283	1.41636	3.02808	5.47145
11:27:08				636	9.58901	0.468168	3.9364	1.4652	5.90965	3.64153
11:27:08				637	9.52477	0.4497364	3.4445	1.4652	8.35165	3.49516
11:27:09				638	9.48977	0.4337106	2.9526	1.41636	9.52381	3.36593
11:27:09				639	9.47713	0.4314668	2.4606	1.4652	10.01221	3.34859
11:27:10				640	9.47713	0.428421	2.0671	1.4652	10.06105	3.32345
11:27:10				641	9.47713	0.4263384	1.6736	1.41636	10.06105	3.30627
11:27:11				642	9.47415	0.4256983	1.2801	1.4652	10.06105	3.30128
11:27:11				643	9.47221	0.4247362	0.9849	1.4652	10.06105	3.29353
11:27:12				644	9.46929	0.4247362	0.8865	1.4652	10.15873	3.2938
11:27:12				645	9.46734	0.4248965	0.8865	1.41636	10.54945	3.2953
11:27:13				646	9.46734	0.4248965	0.8865	1.41636	10.25641	3.2953
11:27:13				647	9.46929	0.4248965	0.7881	1.41636	10.06105	3.29513
11:27:14				648	9.47123	0.4247362	0.7881	1.4652	10.06105	3.29362
11:27:14				649	9.47026	0.4248965	0.8865	1.41636	10.25641	3.29503
11:27:15				650	9.47123	0.4250568	0.7881	1.4652	10.25641	3.29627
11:27:15				651	9.47221	0.4247362	0.7881	1.4652	10.06105	3.29354
11:27:16				652	9.46929	0.4248965	0.8865	1.4652	10.10989	3.29512
11:27:16				653	9.47026	0.4248965	0.8865	1.4652	10.10989	3.29503
11:27:17				654	9.46929	0.4248965	0.8865	1.4652	10.10989	3.29512
11:27:17				655	9.47026	0.4248965	0.8865	1.4652	10.20757	3.29503
11:27:18				656	9.47026	0.4250568	0.7881	1.4652	10.01221	3.29636
11:27:18				657	9.47318	0.4250568	0.6898	1.4652	12.50305	3.2961
11:27:19				658	9.47221	0.423294	0.7881	1.4652	12.45421	3.28163
11:27:19				659	9.47221	0.0913326	0.6898	3.663	16.50794	0.65174
11:27:20				660	9.48199	0.40711	0.6898	3.61416	16.50794	3.1474
11:27:20				661	9.47318	0.42121	0.6898	0	0	3.26435
11:27:21				662	9.47318	0.2853869	0.7881	0	0	2.15918
11:27:21				663	9.47221	0.4236144	0.6898	0	0	3.28428
11:27:22				664	9.47908	0.4269788	0.6898	0	0	3.31143

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:27:22				665	9.4761	0.4255379	0.6898	0	0	3.2998
11:27:23				666	9.46929	0.3984579	0.7881	0	0	3.07736
11:27:23				667	9.4654	0.4268199	0.7881	0	0	3.31137
11:27:24				668	9.47026	0.0681559	0.6898	0	0	0.48041
11:27:24				669	9.47026	0.0782256	0.6898	0	0	0.55453
11:27:25				670	9.47415	0.0505772	0.6898	0	0	0.35241
11:27:25				671	9.47713	0.0424285	0.6898	0	0	0.2938
11:27:26				672	9.48783	0.033641	0.6898	0	0	0.23116
11:27:26				673	9.50047	0.0333215	0.6898	0	0	0.22883
11:27:27				674	9.51311	0.0299656	0.6898	0	0	0.20508
11:27:27				675	9.52186	0.0278895	0.6898	0	0	0.19046
11:27:28				676	9.53552	0.0229368	0.6898	0	0	0.15584
11:27:28				677	9.54621	0.0224571	0.6898	0	0	0.15247
11:27:29				678	9.5569	0.0195823	0.6898	0	0	0.13256
11:27:29				679	9.56855	0.0221382	0.6898	0	0	0.15018
11:27:30				680	9.59095	0.0213392	0.6898	0	0	0.14456
11:27:30				681	9.60648	0.0144697	0.6898	0	0	0.09744
11:27:31				682	9.62395	0.0071222	0.6898	0	0	0.04827
11:27:31				683	9.64245	0.0061642	0.6898	0	0	0.04199
11:27:32	11:26:24 switch off			684	9.65894	0.0053657	0.6898	0	0	0.03681
11:33:55	11:32:45 switch on	10.0	225	7	9.25166	0.3145779	1.3784	0	0	2.40864
11:33:56	start dye			8	9.24678	0.3145779	1.3784	0	0	2.40896
11:33:56				9	9.24288	0.3148986	1.3784	0	0	2.41183
11:33:57				10	9.23305	0.3148987	1.3784	0	0	2.41249
11:33:57				11	9.2311	0.3153792	1.3784	0	0	2.41652
11:33:58				12	9.22817	0.3158598	1.4768	0	0	2.42062
11:33:58				13	9.23403	0.314739	1.4768	0	0	2.41112
11:33:59				14	9.23891	0.3145779	1.3784	0	0	2.40949
11:33:59				15	9.23696	0.314739	1.3784	0	0	2.41093
11:34:00				16	9.23598	0.3158598	1.3784	0	0	2.4201
11:34:00				17	9.2272	0.3158598	1.4768	0	0	2.42069
11:34:01				18	9.23696	0.3142587	1.4768	0	0	2.40703
11:34:01				19	9.23696	0.3136176	1.4768	0	0	2.40182
11:34:02				20	9.23403	0.3152195	1.4768	0	0	2.41503
11:34:02				21	9.23501	0.3145779	1.3784	0	0	2.40975
11:34:03				22	9.23501	0.3134567	1.4768	0	0	2.40064
11:34:03				23	9.23598	0.3148987	1.4768	0	0	2.41229
11:34:04				24	9.23208	0.3140977	1.4768	0	0	2.40604
11:34:04				25	9.23598	0.3132972	1.4768	0	0	2.39928
11:34:05				26	9.23305	0.3150583	1.4768	0	0	2.41378
11:34:05				27	9.23403	0.3142588	1.4768	0	0	2.40722
11:34:06				28	9.23793	0.3129768	1.3784	0	0	2.39655
11:34:06				29	9.23305	0.3140977	1.4768	0	0	2.40598
11:34:07				30	9.23208	0.3145779	1.4768	0	0	2.40994

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:07				31	9.23208	0.3134567	1.4768	0	0	2.40084
11:34:08				32	9.23403	0.3129768	1.3784	0	0	2.39681
11:34:08				33	9.22915	0.3142588	1.3784	0	0	2.40755
11:34:09				34	9.22817	0.3145779	1.4768	0	0	2.41021
11:34:09				35	9.22817	0.3136177	1.4768	0	0	2.40241
11:34:10				36	9.22915	0.3132972	1.4768	0	0	2.39974
11:34:10				37	9.22817	0.3139382	1.3784	0	0	2.40501
11:34:11				38	9.2272	0.3144183	1.4768	0	0	2.40897
11:34:11				39	9.22915	0.3145779	1.4768	0	0	2.41014
11:34:12				40	9.22915	0.3152195	1.4768	0	0	2.41535
11:34:12				41	9.23013	0.3152195	1.4768	0	0	2.41529
11:34:13				42	9.22817	0.3152195	1.4768	0	0	2.41542
11:34:13				43	9.22915	0.3155389	1.4768	0	0	2.41795
11:34:14				44	9.23013	0.3153792	1.4768	0	0	2.41659
11:34:14				45	9.23208	0.3155389	1.4768	0	0	2.41775
11:34:15				46	9.2311	0.3155389	1.4768	0	0	2.41782
11:34:15				47	9.23305	0.3155389	1.4768	0	0	2.41769
11:34:16				48	9.23403	0.3157001	1.4768	0	0	2.41893
11:34:16				49	9.23501	0.3158598	1.4768	0	0	2.42016
11:34:17				50	9.2311	0.3158598	1.4768	0	0	2.42043
11:34:17				51	9.23403	0.3158598	1.3784	0	0	2.42023
11:34:18				52	9.23208	0.3158598	1.4768	0	0	2.42036
11:34:18				53	9.23403	0.3160196	1.4768	0	0	2.42153
11:34:19				54	9.23305	0.3158598	1.4768	0	0	2.42029
11:34:19				55	9.23403	0.3160196	1.4768	0	0	2.42153
11:34:20				56	9.22817	0.3158598	1.4768	0	0	2.42062
11:34:20				57	9.23305	0.3157001	1.4768	0	0	2.419
11:34:21				58	9.23208	0.3157001	1.4768	0	0	2.41906
11:34:21				59	9.23208	0.3153792	1.4768	0	0	2.41645
11:34:22				60	9.23013	0.3158598	1.4768	0	0	2.42049
11:34:22				61	9.2311	0.3158598	1.4768	0	0	2.42043
11:34:23				62	9.2311	0.3157001	1.4768	0	0	2.41913
11:34:23				63	9.22817	0.3158598	1.4768	0	0	2.42062
11:34:24				64	9.22915	0.3158598	1.4768	0	0	2.42056
11:34:24				65	9.2311	0.3160196	1.4768	0	0	2.42172
11:34:25				66	9.23208	0.3158598	1.4768	0	0	2.42036
11:34:25				67	9.22915	0.3157001	1.4768	0	0	2.41926
11:34:26				68	9.23208	0.3158598	1.4768	0	0	2.42036
11:34:26				69	9.23013	0.3160196	1.4768	0	0	2.42179
11:34:27				70	9.23013	0.3158598	1.4768	0	0	2.42049
11:34:27				71	9.2311	0.3158598	1.4768	0	0	2.42043
11:34:28				72	9.23208	0.3160196	1.4768	0	0	2.42166
11:34:28				73	9.22915	0.3160196	1.4768	0	0	2.42186
11:34:29				74	9.23208	0.3158598	1.4768	0	0	2.42036
11:34:29				75	9.23305	0.3160196	1.4768	0	0	2.42159

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:30				76	9.23305	0.3160196	1.4768	0	0	2.42159
11:34:30				77	9.22817	0.3158598	1.4768	0	0	2.42062
11:34:31				78	9.23013	0.3157001	1.4768	0	0	2.41919
11:34:31				79	9.2311	0.3155389	1.4768	0	0	2.41782
11:34:32				80	9.22329	0.3160196	1.4768	0	0	2.42225
11:34:32				81	9.2272	0.3158598	1.4768	0	0	2.42069
11:34:33				82	9.22622	0.314739	1.4768	0	0	2.41165
11:34:33				83	9.22817	0.3157001	1.4768	0	0	2.41932
11:34:34				84	9.22817	0.3153792	1.4768	0	0	2.41672
11:34:34				85	9.2272	0.3139382	1.4768	0	0	2.40507
11:34:35				86	9.22329	0.3152195	1.4768	0	0	2.41575
11:34:35				87	9.2272	0.3148987	1.4768	0	0	2.41288
11:34:36				88	9.22622	0.3140977	1.4768	0	0	2.40644
11:34:36				89	9.22329	0.3148987	1.4768	0	0	2.41314
11:34:37				90	9.22817	0.3145779	1.4768	0	0	2.41021
11:34:37				91	9.22817	0.3139382	1.4768	0	0	2.40501
11:34:38				92	9.22817	0.3145779	1.4768	0	0	2.41021
11:34:38				93	9.22232	0.314739	1.4768	0	0	2.41191
11:34:39				94	9.22427	0.3140977	1.4768	0	0	2.40657
11:34:39				95	9.22622	0.3131363	1.4768	0	0	2.39863
11:34:40				96	9.2272	0.3132972	1.4768	0.58608	0.2442	2.39987
11:34:40				97	9.22036	0.3129768	1.5752	0.39072	0.09768	2.39772
11:34:41				98	9.22232	0.3126565	1.4768	1.4652	0.9768	2.39499
11:34:41				99	9.22232	0.3139382	1.4768	1.41636	12.84493	2.4054
11:34:42				100	9.22232	0.3142588	1.4768	1.41636	13.28449	2.40801
11:34:42				101	9.22134	0.3136177	1.4768	1.4652	13.04029	2.40286
11:34:43				102	9.22232	0.3136177	1.4768	1.4652	13.18681	2.4028
11:34:43				103	9.22524	0.3139382	1.4768	1.4652	13.28449	2.4052
11:34:44				104	9.22232	0.3139382	1.4768	1.41636	13.77289	2.4054
11:34:44				105	9.22427	0.3140977	1.4768	1.4652	13.04029	2.40657
11:34:45				106	9.22329	0.3137772	1.4768	1.4652	13.52869	2.40403
11:34:45				107	9.22427	0.3139382	1.4768	1.41636	13.18681	2.40527
11:34:46				108	9.22427	0.3139382	1.4768	1.41636	13.04029	2.40527
11:34:46				109	9.22232	0.3137772	1.4768	1.4652	13.23565	2.40409
11:34:47				110	9.22427	0.3142588	1.4768	1.41636	13.72405	2.40787
11:34:47				111	9.22134	0.3142588	1.4768	1.4652	13.08913	2.40807
11:34:48				112	9.22427	0.3142588	1.4768	1.4652	12.94261	2.40787
11:34:48				113	9.22232	0.3134567	1.4768	1.41636	13.28449	2.40149
11:34:49				114	9.22524	0.3139382	1.4768	1.4652	13.23565	2.4052
11:34:49				115	9.22329	0.3139382	1.4768	1.4652	12.99145	2.40534
11:34:50				116	9.22622	0.3139382	1.4768	1.41636	12.89377	2.40514
11:34:50				117	9.22524	0.314739	1.4768	1.4652	13.18681	2.41171
11:34:51				118	9.22524	0.3144183	1.4768	1.41636	13.23565	2.40911
11:34:51				119	9.22622	0.3144183	1.4768	1.4652	13.08913	2.40904
11:34:52				120	9.22622	0.3160196	1.4768	1.4652	13.18681	2.42205

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:52				121	9.2272	0.3166603	1.4768	1.4652	13.62637	2.42719
11:34:53				122	9.22915	0.3152195	1.4768	1.41636	12.99145	2.41535
11:34:53				123	9.22915	0.3148987	1.4768	1.41636	13.08913	2.41275
11:34:54				124	9.22817	0.3161793	1.4768	1.4652	13.77289	2.42322
11:34:55				127	9.22939	0.3161557	1.4768	1.4652	13.18681	2.42294
11:34:56				128	9.22939	0.3161557	1.4768	1.4652	13.47985	2.42294
11:34:56				129	9.22549	0.3159944	1.4768	1.41636	13.18681	2.4219
11:34:57				130	9.22744	0.3159944	1.4768	1.4652	13.43101	2.42177
11:34:57				131	9.23037	0.3163155	1.4768	1.4652	12.94261	2.42418
11:34:58				132	9.22744	0.3169563	1.4768	1.41636	12.99145	2.42958
11:34:58				133	9.22842	0.3180773	1.4768	1.4652	12.99145	2.43863
11:34:59				134	9.22939	0.3177574	1.5752	1.41636	12.89377	2.43596
11:34:59				135	9.22939	0.3171162	1.4768	1.4652	12.89377	2.43075
11:35:00				136	9.22744	0.3172761	1.4768	1.41636	13.33333	2.43218
11:35:00				137	9.22842	0.3172761	1.4768	1.4652	13.08913	2.43212
11:35:01				138	9.22646	0.3150347	1.4768	1.41636	13.13797	2.41403
11:35:01				139	9.22744	0.3159944	1.4768	1.4652	13.38217	2.42177
11:35:02				140	9.22646	0.3159944	1.4768	1.4652	12.99145	2.42183
11:35:02				141	9.22842	0.3155152	1.4768	1.41636	13.13797	2.41781
11:35:03				142	9.22842	0.3158347	1.4768	1.4652	13.47985	2.4204
11:35:03				143	9.22549	0.3156749	1.3784	1.41636	13.38217	2.4193
11:35:04				144	9.22549	0.3156749	1.4768	1.41636	12.74725	2.4193
11:35:04				145	9.22744	0.3155152	1.4768	1.4652	13.08913	2.41787
11:35:05				146	9.22744	0.3155152	1.4768	1.4652	13.87057	2.41787
11:35:05				147	9.22646	0.3147139	1.4768	1.41636	13.08913	2.41143
11:35:06				148	9.22451	0.3148735	1.4768	1.4652	13.18681	2.41285
11:35:06				149	9.22842	0.3142336	1.4768	1.4652	12.55189	2.40739
11:35:07				150	9.22842	0.3142336	1.4768	1.41636	12.74725	2.40739
11:35:07				151	9.22549	0.3140726	1.4768	1.41636	13.62637	2.40628
11:35:08				152	9.22744	0.3140726	1.4768	1.41636	13.28449	2.40615
11:35:08				153	9.22549	0.3132721	1.4768	1.41636	13.23565	2.39978
11:35:09				154	9.22354	0.3142336	1.4768	1.41636	13.33333	2.40772
11:35:09				155	9.22451	0.3142336	1.4768	1.4652	13.18681	2.40765
11:35:10				156	9.22646	0.3134331	1.4768	1.41636	13.13797	2.40102
11:35:10				157	9.22842	0.3127923	1.4768	1.41636	13.77289	2.39569
11:35:11				158	9.22549	0.3129517	1.4768	1.41636	13.33333	2.39718
11:35:11				159	9.22549	0.3132721	1.4768	1.4652	12.89377	2.39978
11:35:12				160	9.22646	0.3121519	1.4768	1.4652	13.08913	2.39061
11:35:12				161	9.22451	0.3121519	1.4768	1.41636	14.01709	2.39074
11:35:13				162	9.22451	0.311671	1.4768	1.41636	12.50305	2.38684
11:35:13				163	9.22646	0.3118318	1.4768	1.41636	12.60073	2.38802
11:35:14				164	9.22451	0.3121519	1.4768	1.4652	12.45421	2.39074
11:35:14				165	9.22549	0.3123112	1.4768	1.41636	13.28449	2.39197
11:35:15				166	9.22549	0.3121519	1.4768	1.41636	13.62637	2.39068
11:35:15				167	9.22549	0.3123112	1.4768	1.41636	12.84493	2.39197

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:16				168	9.22744	0.3126314	1.4768	1.41636	13.33333	2.39444
11:35:16				169	9.22646	0.3134331	1.4768	1.41636	13.04029	2.40102
11:35:17				170	9.22939	0.3127923	1.4768	1.41636	12.89377	2.39562
11:35:17				171	9.22939	0.3127923	1.4768	1.4652	12.79609	2.39562
11:35:18				172	9.23037	0.3129517	1.4768	1.4652	12.94261	2.39685
11:35:18				173	9.23135	0.3132721	1.4768	1.41636	12.69841	2.39939
11:35:19				174	9.23135	0.3134331	1.4768	1.4652	12.89377	2.40069
11:35:19				175	9.22842	0.3148735	1.4768	1.41636	12.89377	2.41259
11:35:20				176	9.22939	0.3143932	1.3784	1.4652	12.89377	2.40863
11:35:20				177	9.23135	0.3140726	1.4768	1.4652	12.99145	2.40589
11:35:21				178	9.23232	0.3132721	1.4768	1.4652	12.84493	2.39932
11:35:21				179	9.23037	0.3135925	1.4768	1.4652	12.74725	2.40205
11:35:22				180	9.23037	0.3140726	1.4768	1.4652	12.79609	2.40595
11:35:22				181	9.23037	0.3143932	1.4768	1.4652	13.38217	2.40856
11:35:23				182	9.22842	0.3139131	1.4768	1.4652	12.94261	2.40479
11:35:23				183	9.22842	0.3140726	1.4768	1.4652	12.94261	2.40608
11:35:24				184	9.22842	0.3140726	1.4768	1.41636	12.89377	2.40608
11:35:24				185	9.22842	0.3142336	1.4768	1.4652	13.72405	2.40739
11:35:25				186	9.23135	0.3142336	1.4768	1.41636	12.94261	2.4072
11:35:25				187	9.23037	0.3142336	1.4768	1.4652	12.69841	2.40726
11:35:26				188	9.22939	0.3143932	1.3784	1.41636	13.13797	2.40863
11:35:26				189	9.23135	0.3142336	1.4768	1.41636	12.94261	2.4072
11:35:27				190	9.22939	0.3142336	1.4768	1.4652	13.04029	2.40733
11:35:27				191	9.23037	0.3142336	1.4768	1.4652	12.79609	2.40726
11:35:28				192	9.23135	0.3140726	1.4768	1.41636	13.38217	2.40589
11:35:28				193	9.23135	0.3142336	1.4768	1.4652	12.99145	2.4072
11:35:29				194	9.23232	0.3142336	1.4768	1.41636	12.84493	2.40713
11:35:29				195	9.22842	0.3143932	1.4768	1.41636	12.74725	2.40869
11:35:30				196	9.22939	0.3143932	1.4768	1.4652	13.28449	2.40862
11:35:30				197	9.23037	0.3145543	1.4768	1.4652	13.04029	2.40987
11:35:31				198	9.23232	0.3145543	1.4768	1.4652	13.23565	2.40974
11:35:31				199	9.23037	0.3145543	1.4768	1.4652	12.99145	2.40987
11:35:32				200	9.23427	0.3142336	1.4768	1.4652	12.79609	2.407
11:35:32				201	9.23037	0.3140726	1.4768	1.4652	12.89377	2.40595
11:35:33				202	9.2333	0.3140726	1.4768	1.4652	12.94261	2.40576
11:35:33				203	9.23232	0.3143932	1.4768	1.4652	12.99145	2.40843
11:35:34				204	9.23135	0.3145543	1.4768	1.4652	13.28449	2.4098
11:35:34				205	9.23232	0.3142336	1.4768	1.41636	13.04029	2.40713
11:35:35				206	9.23427	0.3145543	1.4768	1.41636	12.74725	2.40961
11:35:35				207	9.23525	0.3150347	1.4768	1.41636	12.84493	2.41344
11:35:36				208	9.23525	0.3158347	1.4768	1.4652	12.94261	2.41994
11:35:36				209	9.23623	0.315354	1.4768	1.4652	13.33333	2.41597
11:35:37				210	9.23525	0.3155152	1.4768	1.4652	12.64957	2.41735
11:35:37				211	9.2372	0.3155152	1.4768	1.4652	12.84493	2.41721
11:35:38				212	9.23525	0.315354	1.4768	1.4652	12.79609	2.41604

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:38				213	9.23427	0.315354	1.4768	1.41636	12.89377	2.4161
11:35:39				214	9.23427	0.3150347	1.4768	1.41636	12.64957	2.41351
11:35:39				215	9.23623	0.3145543	1.4768	1.41636	12.74725	2.40947
11:35:40				216	9.23623	0.3147139	1.4768	1.4652	12.89377	2.41077
11:35:40				217	9.23525	0.3148735	1.4768	1.4652	13.18681	2.41213
11:35:41				218	9.23427	0.3150347	1.4768	1.41636	12.99145	2.41351
11:35:41				219	9.23427	0.3161557	1.3784	1.41636	12.94261	2.42262
11:35:42				220	9.23427	0.3156749	1.4768	1.41636	13.18681	2.41871
11:35:42				221	9.23232	0.3158347	1.4768	1.4652	12.99145	2.42014
11:35:43				222	9.23525	0.3163155	1.4768	1.4652	13.08913	2.42385
11:35:43				223	9.23427	0.3161557	1.4768	1.4652	13.38217	2.42262
11:35:44				224	9.23427	0.3161557	1.4768	1.41636	12.79609	2.42262
11:35:44				225	9.23232	0.3166351	1.4768	1.41636	12.99145	2.42664
11:35:45				226	9.23525	0.3175959	1.3784	1.4652	13.47985	2.43426
11:35:45				227	9.2333	0.3171162	1.4768	1.4652	13.33333	2.43049
11:35:46				228	9.23427	0.3169563	1.4768	1.41636	13.04029	2.42912
11:35:46				229	9.23525	0.3171162	1.4768	1.41636	12.89377	2.43036
11:35:47				230	9.2333	0.3172761	1.4768	1.41636	12.79609	2.43179
11:35:47				231	9.23623	0.3172761	1.4768	1.4652	12.84493	2.43159
11:35:48				232	9.23623	0.3169563	1.4768	1.41636	12.69841	2.42899
11:35:48				233	9.23427	0.3171162	1.4768	1.41636	12.89377	2.43042
11:35:49				234	9.2333	0.3172761	1.4768	1.4652	13.43101	2.43179
11:35:49				235	9.23427	0.3172761	1.4768	1.4652	12.74725	2.43172
11:35:50				236	9.23427	0.3179173	1.4768	1.4652	12.74725	2.43693
11:35:50				237	9.23427	0.3179173	1.4768	1.4652	12.89377	2.43693
11:35:51				238	9.23623	0.3182373	1.4768	1.4652	13.72405	2.4394
11:35:51				239	9.23623	0.3190376	1.4768	1.41636	12.74725	2.44591
11:35:52				240	9.23623	0.3183973	1.4768	1.41636	12.64957	2.4407
11:35:52				241	9.23623	0.3185574	1.4768	1.41636	12.60073	2.44201
11:35:53				242	9.23818	0.3182373	1.4768	1.4652	12.79609	2.43927
11:35:53				243	9.23623	0.3185574	1.3784	1.4652	12.69841	2.44201
11:35:54				244	9.23818	0.3185574	1.4768	1.4652	12.74725	2.44187
11:35:55				247	9.23806	0.3182299	1.4768	1.4652	12.64957	2.43922
11:35:56				248	9.23806	0.3164693	1.4768	1.4652	12.79609	2.42491
11:35:56				249	9.2361	0.3180699	1.4768	1.41636	13.33333	2.43805
11:35:57				250	9.23806	0.3174301	1.4768	1.41636	12.64957	2.43272
11:35:57				251	9.2361	0.3161483	1.4768	1.4652	13.04029	2.42243
11:35:58				252	9.2361	0.3172701	1.4768	1.41636	12.94261	2.43155
11:35:58				253	9.23806	0.31759	1.4768	1.4652	12.89377	2.43402
11:35:59				254	9.2361	0.3174301	1.4768	1.4652	12.60073	2.43285
11:35:59				255	9.23806	0.3171102	1.4768	1.41636	12.94261	2.43012
11:36:00				256	9.2361	0.3171102	1.4768	1.4652	13.13797	2.43025
11:36:00				257	9.23513	0.3174301	1.4768	1.41636	12.89377	2.43292
11:36:01				258	9.2361	0.3161483	1.4768	1.41636	12.99145	2.42243
11:36:01				259	9.23318	0.3164694	1.4768	1.4652	14.01709	2.42524

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:02				260	9.23318	0.3164694	1.4768	1.41636	12.99145	2.42524
11:36:02				261	9.23025	0.3166292	1.4768	1.41636	12.94261	2.42674
11:36:03				262	9.23318	0.3164694	1.4768	1.4652	13.08913	2.42524
11:36:03				263	9.2322	0.3164694	1.4768	1.4652	13.62637	2.4253
11:36:04				264	9.23415	0.3164694	1.4768	1.4652	13.13797	2.42517
11:36:04				265	9.23415	0.3164694	1.4768	1.41636	12.74725	2.42517
11:36:05				266	9.2322	0.3159885	1.4768	1.41636	12.89377	2.4214
11:36:05				267	9.2322	0.3159885	1.4768	1.41636	13.08913	2.4214
11:36:06				268	9.23122	0.3158287	1.4768	1.4652	12.79609	2.42016
11:36:06				269	9.23415	0.3161483	1.4768	1.4652	12.84493	2.42256
11:36:07				270	9.2322	0.3159885	1.4768	1.4652	12.84493	2.4214
11:36:07				271	9.23025	0.3159885	1.4768	1.4652	12.25885	2.42153
11:36:08				272	9.2322	0.3158287	1.4768	1.41636	13.28449	2.4201
11:36:08				273	9.2322	0.3159885	1.4768	1.41636	13.33333	2.4214
11:36:09				274	9.22927	0.3159885	1.4768	1.41636	12.84493	2.42159
11:36:09				275	9.23122	0.3159885	1.4768	1.4652	12.94261	2.42146
11:36:10				276	9.23122	0.3159885	1.4768	1.4652	13.18681	2.42146
11:36:10				277	9.23318	0.3163095	1.4768	1.4652	13.23565	2.42394
11:36:11				278	9.22927	0.3161483	1.4768	1.4652	13.47985	2.42289
11:36:11				279	9.23122	0.3159885	1.4768	1.41636	13.08913	2.42146
11:36:12				280	9.2322	0.3159885	1.4768	1.4652	12.99145	2.4214
11:36:12				281	9.2283	0.3158287	1.4768	1.41636	12.84493	2.42036
11:36:13				282	9.23122	0.3158287	1.4768	1.4652	12.94261	2.42016
11:36:13				283	9.23122	0.3158287	1.4768	1.41636	12.60073	2.42016
11:36:14				284	9.23122	0.3158287	1.4768	1.4652	12.84493	2.42016
11:36:14				285	9.2283	0.3158287	1.4768	1.41636	13.13797	2.42036
11:36:15				286	9.23122	0.3158287	1.4768	1.4652	12.99145	2.42016
11:36:15				287	9.23122	0.3163095	1.4768	1.41636	13.23565	2.42407
11:36:16				288	9.23025	0.3159885	1.4768	1.4652	13.38217	2.42153
11:36:16				289	9.22732	0.3158287	1.4768	1.41636	12.99145	2.42043
11:36:17				290	9.23025	0.3161483	1.4768	1.4652	13.72405	2.42283
11:36:17				291	9.2283	0.3161483	1.4768	1.41636	13.67521	2.42296
11:36:18				292	9.22927	0.3161483	1.4768	1.41636	12.89377	2.42289
11:36:18				293	9.22927	0.315669	1.4768	1.41636	12.99145	2.419
11:36:19				294	9.22732	0.3158287	1.4768	1.4652	13.28449	2.42043
11:36:19				295	9.2283	0.3158287	1.4768	1.41636	13.04029	2.42036
11:36:20				296	9.22927	0.3158287	1.4768	1.4652	12.99145	2.4203
11:36:20				297	9.23122	0.3159885	1.5752	1.41636	13.28449	2.42146
11:36:21				298	9.23122	0.3163095	1.4768	1.4652	12.74725	2.42407
11:36:21				299	9.22732	0.3161483	1.4768	1.4652	14.26129	2.42302
11:36:22				300	9.22732	0.3159885	1.4768	1.4652	13.08913	2.42173
11:36:22				301	9.23122	0.3161483	1.4768	1.4652	12.79609	2.42276
11:36:23				302	9.22634	0.3161483	1.4768	1.41636	13.23565	2.42309
11:36:23				303	9.23122	0.3161483	1.4768	1.41636	12.50305	2.42276
11:36:24				304	9.2283	0.3161483	1.4768	1.41636	12.94261	2.42296

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:24				305	9.2283	0.316789	1.4768	1.4652	12.60073	2.42817
11:36:25				306	9.23025	0.3171103	1.4768	1.4652	13.28449	2.43065
11:36:25				307	9.2283	0.3164694	1.4768	1.41636	13.96825	2.42557
11:36:26				308	9.23122	0.3164694	1.4768	1.4652	12.99145	2.42537
11:36:26				309	9.23122	0.3155078	1.4768	1.4652	12.94261	2.41756
11:36:27				310	9.2283	0.3163095	1.4768	1.4652	13.08913	2.42427
11:36:27				311	9.23025	0.3161483	1.4768	1.41636	13.04029	2.42283
11:36:28				312	9.22927	0.3161483	1.4768	1.4652	13.04029	2.42289
11:36:28				313	9.23025	0.3158287	1.4768	1.41636	12.69841	2.42023
11:36:29				314	9.22927	0.315669	1.4768	1.41636	12.74725	2.419
11:36:29				315	9.22732	0.3161483	1.4768	1.4652	13.04029	2.42302
11:36:30				316	9.2283	0.3161483	1.4768	1.4652	13.43101	2.42296
11:36:30				317	9.23122	0.3161483	1.4768	1.4652	13.28449	2.42276
11:36:31				318	9.23025	0.3159885	1.4768	1.41636	13.67521	2.42153
11:36:31				319	9.23122	0.3161483	1.4768	1.41636	13.82173	2.42276
11:36:32				320	9.2283	0.3159885	1.4768	1.4652	12.79609	2.42166
11:36:32				321	9.23122	0.3164694	1.4768	1.4652	12.84493	2.42537
11:36:33				322	9.23122	0.3166292	1.4768	1.4652	13.72405	2.42667
11:36:33				323	9.23122	0.3163095	1.5752	1.41636	13.52869	2.42407
11:36:34				324	9.2322	0.3163095	1.4768	1.41636	13.08913	2.42401
11:36:34				325	9.2322	0.3161483	1.4768	1.4652	13.13797	2.4227
11:36:35				326	9.2322	0.3161483	1.4768	1.41636	13.18681	2.4227
11:36:35				327	9.22927	0.3161483	1.4768	1.4652	13.23565	2.42289
11:36:36				328	9.23318	0.3161483	1.4768	1.41636	12.60073	2.42263
11:36:36				329	9.2322	0.3161483	1.4768	1.41636	13.23565	2.4227
11:36:37				330	9.23122	0.3161483	1.4768	1.4652	12.79609	2.42276
11:36:37				331	9.23415	0.3161483	1.4768	1.4652	12.79609	2.42256
11:36:38				332	9.23122	0.3153481	1.4768	1.41636	13.43101	2.41626
11:36:38				333	9.22927	0.3159885	1.4768	1.4652	13.23565	2.42159
11:36:39				334	9.23122	0.3161483	1.4768	1.41636	12.74725	2.42276
11:36:39				335	9.23415	0.3159885	1.4768	1.4652	13.08913	2.42127
11:36:40				336	9.23122	0.3159885	1.4768	1.4652	13.08913	2.42146
11:36:40				337	9.23122	0.3159885	1.4768	1.41636	13.13797	2.42146
11:36:41				338	9.23122	0.3161483	1.4768	1.4652	13.28449	2.42276
11:36:41				339	9.23025	0.3161483	1.4768	1.4652	13.18681	2.42283
11:36:42				340	9.23122	0.3158287	1.4768	1.41636	12.69841	2.42016
11:36:42				341	9.23122	0.3158287	1.4768	1.4652	12.69841	2.42016
11:36:43				342	9.23415	0.3150273	1.4768	1.41636	13.13797	2.41346
11:36:43				343	9.2322	0.3151884	1.4768	1.41636	13.08913	2.4149
11:36:44				344	9.23122	0.3153481	1.4768	1.4652	14.21245	2.41626
11:36:44				345	9.23122	0.3153481	1.4768	1.4652	13.13797	2.41626
11:36:45				346	9.23122	0.3153481	1.4768	1.41636	12.84493	2.41626
11:36:45				347	9.23318	0.3151884	1.4768	1.4652	12.84493	2.41483
11:36:46				348	9.2322	0.3153481	1.5752	1.4652	12.79609	2.41619
11:36:46				349	9.23415	0.3153481	1.4768	1.4652	12.94261	2.41606

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:47				350	9.2322	0.3153481	1.4768	1.41636	13.52869	2.41619
11:36:47				351	9.23513	0.3153481	1.4768	1.4652	13.18681	2.416
11:36:48				352	9.2322	0.314708	1.4768	1.41636	12.64957	2.41099
11:36:48				353	9.23513	0.3140667	1.4768	1.4652	12.64957	2.40559
11:36:49				354	9.23513	0.3151884	1.4768	1.4652	13.04029	2.4147
11:36:49				355	9.23513	0.314708	1.4768	1.41636	12.84493	2.4108
11:36:50				356	9.23318	0.3145469	1.4768	1.41636	12.79609	2.40962
11:36:50				357	9.2361	0.3143873	1.4768	1.4652	12.89377	2.40813
11:36:51				358	9.23415	0.3143873	1.4768	1.41636	12.74725	2.40826
11:36:51				359	9.2361	0.3143873	1.4768	1.41636	12.64957	2.40813
11:36:52				360	9.2361	0.3142277	1.4768	1.4652	12.89377	2.40683
11:36:52				361	9.2361	0.3145469	1.4768	1.4652	12.79609	2.40942
11:36:53				362	9.2322	0.314708	1.4768	1.4652	13.04029	2.41099
11:36:53				363	9.23708	0.314708	1.4768	1.41636	13.62637	2.41067
11:36:54				364	9.23318	0.314708	1.4768	1.4652	13.13797	2.41093
11:36:55				367	9.23342	0.3153481	1.4768	1.4652	12.69841	2.41611
11:36:56				368	9.23147	0.3153481	1.4768	1.41636	12.89377	2.41624
11:36:56				369	9.23342	0.3151869	1.4768	1.4652	12.84493	2.4148
11:36:57				370	9.2344	0.3153481	1.4768	1.4652	13.23565	2.41605
11:36:57				371	9.23342	0.3153481	1.4768	1.4652	13.18681	2.41611
11:36:58				372	9.23244	0.3153481	1.4768	1.41636	13.13797	2.41618
11:36:58				373	9.23147	0.3159885	1.4768	1.41636	12.89377	2.42145
11:36:59				374	9.23147	0.3164694	1.4768	1.4652	13.62637	2.42535
11:36:59				375	9.23537	0.3163081	1.4768	1.4652	13.18681	2.42378
11:37:00				376	9.23147	0.3159885	1.4768	1.41636	12.84493	2.42145
11:37:00				377	9.23147	0.3161483	1.4768	1.41636	12.74725	2.42274
11:37:01				378	9.23049	0.3166292	1.4768	1.4652	13.13797	2.42672
11:37:01				379	9.23244	0.3172701	1.4768	1.4652	13.18681	2.4318
11:37:02				380	9.23537	0.316789	1.4768	1.41636	12.60073	2.42769
11:37:02				381	9.23635	0.3169489	1.4768	1.41636	12.89377	2.42892
11:37:03				382	9.23635	0.3166292	1.4768	1.4652	12.84493	2.42632
11:37:03				383	9.23635	0.316789	1.4768	1.4652	13.23565	2.42762
11:37:04				384	9.2344	0.3163081	1.4768	1.41636	13.18681	2.42385
11:37:04				385	9.2344	0.3150273	1.4768	1.4652	12.89377	2.41344
11:37:05				386	9.23342	0.3155078	1.4768	1.4652	12.99145	2.41741
11:37:05				387	9.23635	0.3150273	1.4768	1.4652	13.13797	2.41331
11:37:06				388	9.23342	0.3148676	1.4768	1.41636	13.33333	2.41221
11:37:06				389	9.23147	0.3151869	1.4768	1.41636	12.94261	2.41493
11:37:07				390	9.23147	0.3151869	1.4768	1.4652	12.50305	2.41493
11:37:07				391	9.23342	0.3143873	1.4768	1.4652	13.04029	2.40831
11:37:08				392	9.2344	0.3145469	1.4768	1.41636	13.67521	2.40954
11:37:08				393	9.23049	0.3147065	1.4768	1.4652	13.67521	2.4111
11:37:09				394	9.23147	0.3148676	1.4768	1.4652	13.18681	2.41234
11:37:09				395	9.23342	0.3147065	1.4768	1.41636	12.94261	2.4109
11:37:10				396	9.23147	0.3153481	1.4768	1.41636	13.04029	2.41624

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:10				397	9.23342	0.3150273	1.4768	1.41636	13.33333	2.4135
11:37:11				398	9.23342	0.3153481	1.4768	1.4652	13.23565	2.41611
11:37:11				399	9.23537	0.3158287	1.4768	1.41636	12.79609	2.41989
11:37:12				400	9.23147	0.3158287	1.4768	1.4652	13.04029	2.42015
11:37:12				401	9.23244	0.3155078	1.4768	1.4652	13.23565	2.41747
11:37:13				402	9.23342	0.3156675	1.4768	1.4652	13.04029	2.41871
11:37:13				403	9.23342	0.3153481	1.5752	1.41636	13.47985	2.41611
11:37:14				404	9.2344	0.3158287	1.4768	1.4652	13.18681	2.41995
11:37:14				405	9.2344	0.3153481	1.4768	1.4652	12.94261	2.41605
11:37:15				406	9.23342	0.3155078	1.4768	1.4652	12.99145	2.41741
11:37:15				407	9.23244	0.3155078	1.4768	1.41636	13.18681	2.41747
11:37:16				408	9.23244	0.3155078	1.4768	1.41636	13.04029	2.41747
11:37:16				409	9.23147	0.3151869	1.4768	1.4652	13.52869	2.41493
11:37:17				410	9.23342	0.3155078	1.4768	1.4652	13.28449	2.41741
11:37:17				411	9.23244	0.3153481	1.4768	1.41636	13.18681	2.41618
11:37:18				412	9.23244	0.3155078	1.4768	1.41636	12.60073	2.41747
11:37:18				413	9.23147	0.3155078	1.4768	1.4652	12.99145	2.41754
11:37:19				414	9.23342	0.3155078	1.4768	1.41636	12.74725	2.41741
11:37:19				415	9.23537	0.3155078	1.4768	1.4652	12.60073	2.41728
11:37:20				416	9.23244	0.3155078	1.4768	1.4652	12.99145	2.41747
11:37:20				417	9.23537	0.3155078	1.4768	1.41636	13.23565	2.41728
11:37:21				418	9.2344	0.3155078	1.4768	1.41636	13.13797	2.41734
11:37:21				419	9.23537	0.3155078	1.4768	1.41636	13.04029	2.41728
11:37:22				420	9.23244	0.3156675	1.4768	1.4652	12.89377	2.41877
11:37:22				421	9.23342	0.3156675	1.4768	1.4652	12.89377	2.41871
11:37:23				422	9.2344	0.3156675	1.4768	1.41636	13.13797	2.41864
11:37:23				423	9.23537	0.3156675	1.4768	1.4652	13.13797	2.41858
11:37:24				424	9.23244	0.3156675	1.4768	1.4652	12.94261	2.41877
11:37:24				425	9.23147	0.3151869	1.4768	1.4652	13.08913	2.41493
11:37:25				426	9.2344	0.3150273	1.4768	1.4652	13.67521	2.41344
11:37:25				427	9.23244	0.3151869	1.4768	1.4652	13.52869	2.41487
11:37:26				428	9.23244	0.3151869	1.4768	1.4652	12.74725	2.41487
11:37:26				429	9.23342	0.3151869	1.4768	1.41636	13.28449	2.4148
11:37:27				430	9.23732	0.3147065	1.3784	1.4652	12.79609	2.41064
11:37:27				431	9.23732	0.3148676	1.4768	1.4652	13.67521	2.41195
11:37:28				432	9.23635	0.3148676	1.4768	1.4652	12.55189	2.41201
11:37:28				433	9.2383	0.3148676	1.4768	1.41636	13.04029	2.41188
11:37:29				434	9.2383	0.3150273	1.4768	1.41636	12.69841	2.41318
11:37:29				435	9.23928	0.3150273	1.4768	1.41636	13.82173	2.41311
11:37:30				436	9.2383	0.3148676	1.4768	1.41636	12.69841	2.41188
11:37:30				437	9.2383	0.3148676	1.4768	1.4652	12.69841	2.41188
11:37:31				438	9.2383	0.3150273	1.4768	1.4652	13.08913	2.41318
11:37:31				439	9.23928	0.3145469	1.4768	1.4652	13.08913	2.40921
11:37:32				440	9.24025	0.3145469	1.4768	1.41636	12.64957	2.40914
11:37:32				441	9.23732	0.3148676	1.4768	1.41636	12.79609	2.41195

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:33				442	9.23928	0.3147065	1.4768	1.4652	12.94261	2.41051
11:37:33				443	9.23928	0.3148676	1.4768	1.4652	13.18681	2.41182
11:37:34				444	9.23928	0.3150273	1.4768	1.4652	13.57753	2.41311
11:37:34				445	9.24123	0.3150273	1.4768	1.4652	12.89377	2.41298
11:37:35				446	9.24123	0.3147065	1.4768	1.4652	12.79609	2.41038
11:37:35				447	9.23928	0.3147065	1.4768	1.41636	13.72405	2.41051
11:37:36				448	9.2383	0.3148676	1.4768	1.4652	12.60073	2.41188
11:37:36				449	9.23928	0.3155078	1.4768	1.4652	12.74725	2.41702
11:37:37				450	9.24123	0.3156675	1.4768	1.41636	12.69841	2.41818
11:37:37				451	9.24318	0.3156675	1.4768	1.4652	12.94261	2.41805
11:37:38				452	9.24318	0.3153481	1.4768	1.4652	12.84493	2.41546
11:37:38				453	9.24123	0.3150273	1.4768	1.4652	13.04029	2.41298
11:37:39				454	9.2422	0.3115043	1.4768	1.41636	12.94261	2.38431
11:37:39				455	9.24123	0.3137461	1.4768	1.41636	13.28449	2.40258
11:37:40				456	9.24123	0.3139071	1.4768	1.41636	12.89377	2.40388
11:37:40				457	9.24416	0.3147065	1.4768	1.41636	12.99145	2.41018
11:37:41				458	9.2422	0.3148676	1.4768	1.41636	12.94261	2.41162
11:37:41				459	9.24416	0.3143873	1.4768	1.4652	12.84493	2.40759
11:37:42				460	9.24416	0.3148676	1.4768	1.4652	13.18681	2.41149
11:37:42				461	9.24416	0.3158287	1.5752	1.41636	12.64957	2.41929
11:37:43				462	9.24513	0.3150273	1.4768	1.41636	12.69841	2.41272
11:37:43				463	9.24416	0.3134257	1.4768	1.4652	12.79609	2.39978
11:37:44				464	9.2422	0.3150273	1.4768	1.41636	13.23565	2.41292
11:37:44				465	9.24416	0.3150273	1.4768	1.4652	12.69841	2.41278
11:37:45				466	9.2422	0.3135866	1.4768	1.4652	12.89377	2.40122
11:37:45				467	9.24123	0.3137461	1.4768	1.4652	13.67521	2.40258
11:37:46				468	9.2422	0.3139071	1.4768	1.41636	12.60073	2.40382
11:37:46				469	9.23928	0.3135866	1.4768	1.4652	12.89377	2.40141
11:37:47				470	9.23537	0.3137461	1.4768	1.4652	13.18681	2.40297
11:37:47				471	9.23928	0.3135866	1.4768	1.41636	12.69841	2.40141
11:37:48				472	9.24123	0.3134257	1.4768	1.41636	12.99145	2.39997
11:37:48				473	9.2383	0.3119852	1.4768	1.4652	12.55189	2.38847
11:37:49				474	9.23928	0.3118244	1.4768	1.41636	12.16117	2.3871
11:37:49				475	9.23732	0.3111844	1.4768	1.4652	12.69841	2.38204
11:37:50				476	9.24123	0.3095826	1.4768	1.4652	12.99145	2.36879
11:37:50				477	9.2422	0.3036585	1.4768	1.4652	12.89377	2.3207
11:37:51				478	9.2422	0.3030177	1.4768	1.41636	13.08913	2.31551
11:37:51				479	9.23928	0.3038184	1.4768	1.4652	12.50305	2.32218
11:37:52				480	9.23928	0.3031775	1.4768	1.4652	12.99145	2.31699
11:37:52				481	9.23928	0.3036585	1.4768	1.41636	13.08913	2.32089
11:37:53				482	9.23928	0.3034972	1.4768	1.41636	12.69841	2.31958
11:37:53				483	9.24123	0.3030177	1.4768	1.4652	13.04029	2.31557
11:37:54				484	9.2383	0.3033373	1.4768	1.4652	13.23565	2.31835
11:37:55				487	9.23659	0.3018997	1.4768	1.4652	14.06593	2.30682
11:37:56				488	9.23659	0.3020594	1.4768	1.41636	12.99145	2.30811

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:56				489	9.23757	0.3026997	1.4768	1.41636	12.89377	2.31323
11:37:57				490	9.23861	0.3026997	1.4768	1.41636	12.64957	2.31317
11:37:57				491	9.23659	0.302219	1.4768	1.41636	12.89377	2.3094
11:37:58				492	9.23562	0.3009391	1.4768	1.41636	12.45421	2.2991
11:37:58				493	9.23366	0.302219	1.4768	1.4652	12.94261	2.30959
11:37:59				494	9.23562	0.3028594	1.4768	1.4652	12.74725	2.31465
11:37:59				495	9.23562	0.3033403	1.4768	1.4652	12.60073	2.31855
11:38:00				496	9.24153	0.3020594	1.4768	1.4652	12.89377	2.30779
11:38:00				497	9.24056	0.3020594	1.4768	1.4652	12.94261	2.30785
11:38:01				498	9.23757	0.3035001	1.5752	1.41636	12.84493	2.31971
11:38:01				499	9.23958	0.3038213	1.4768	1.4652	12.94261	2.32219
11:38:02				500	9.23958	0.3017386	1.4768	1.4652	12.55189	2.30532
11:38:02				501	9.23958	0.3038213	1.4768	1.41636	13.28449	2.32219
11:38:03				502	9.24153	0.3039812	1.5752	1.41636	12.55189	2.32335
11:38:03				503	9.24446	0.3055825	1.4768	1.4652	12.79609	2.33614
11:38:04				504	9.24056	0.3055825	1.4768	1.41636	12.60073	2.3364
11:38:04				505	9.24349	0.3065433	1.4768	1.4652	12.89377	2.34399
11:38:05				506	9.24153	0.3054224	1.4768	1.4652	13.28449	2.33503
11:38:05				507	9.23958	0.3062229	1.4768	1.4652	13.08913	2.34165
11:38:06				508	9.24153	0.3063831	1.4768	1.4652	12.79609	2.34282
11:38:06				509	9.24153	0.3081445	1.4768	1.4652	12.79609	2.3571
11:38:07				510	9.24251	0.3067034	1.4768	1.4652	13.04029	2.34535
11:38:07				511	9.24056	0.3073429	1.4768	1.4652	12.55189	2.35067
11:38:08				512	9.24251	0.3070239	1.4768	1.4652	13.23565	2.34795
11:38:08				513	9.24056	0.3055825	1.4768	1.4652	12.64957	2.3364
11:38:09				514	9.24251	0.3035001	1.4768	1.41636	12.84493	2.3194
11:38:09				515	9.24153	0.3046209	1.4768	1.41636	12.79609	2.32854
11:38:10				516	9.23861	0.3052624	1.4768	1.41636	13.23565	2.33393
11:38:10				517	9.23861	0.3078238	1.4768	1.41636	12.89377	2.35469
11:38:11				518	9.24251	0.3070239	1.4768	1.41636	12.84493	2.34795
11:38:11				519	9.23958	0.3071827	1.4768	1.4652	12.79609	2.34943
11:38:12				520	9.23958	0.3073429	1.4768	1.4652	12.94261	2.35073
11:38:12				521	9.24251	0.3068637	1.4768	1.4652	12.89377	2.34665
11:38:13				522	9.24153	0.3071827	1.4768	1.4652	12.94261	2.3493
11:38:13				523	9.23958	0.3086242	1.4768	1.4652	13.04029	2.36112
11:38:14				524	9.24056	0.3089451	1.4768	1.4652	13.33333	2.36366
11:38:14				525	9.23757	0.3089451	1.4768	1.4652	12.74725	2.36385
11:38:15				526	9.23659	0.3087846	1.5752	1.41636	12.55189	2.36261
11:38:15				527	9.24153	0.3102263	1.4768	1.41636	13.04029	2.37399
11:38:16				528	9.23958	0.3087846	1.4768	1.4652	12.64957	2.36242
11:38:16				529	9.23659	0.3087846	1.4768	1.4652	12.30769	2.36262
11:38:17				530	9.23958	0.3067034	1.4768	1.41636	12.94261	2.34554
11:38:17				531	9.23659	0.3010987	1.4768	1.4652	13.18681	2.30033
11:38:18				532	9.23861	0.3018997	1.4768	1.4652	13.23565	2.30669
11:38:18				533	9.23757	0.3023802	1.4768	1.41636	12.89377	2.31064

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:19				534	9.23757	0.2999778	1.4768	1.4652	12.79609	2.29119
11:38:19				535	9.23861	0.3026997	1.4768	1.4652	12.79609	2.31317
11:38:20				536	9.23464	0.3012583	1.4768	1.41636	12.64957	2.30175
11:38:20				537	9.23757	0.3017386	1.4768	1.4652	12.74725	2.30545
11:38:21				538	9.23562	0.3026997	1.4768	1.4652	12.69841	2.31336
11:38:21				539	9.23464	0.3009391	1.4768	1.4652	13.04029	2.29916
11:38:22				540	9.23366	0.3012583	1.4768	1.4652	12.84493	2.30181
11:38:22				541	9.23269	0.2994981	1.4768	1.4652	12.74725	2.28762
11:38:23				542	9.23464	0.3004576	1.4768	1.4652	13.04029	2.29526
11:38:23				543	9.23562	0.2999778	1.4768	1.4652	12.60073	2.29132
11:38:24				544	9.23366	0.2994981	1.4768	1.4652	12.55189	2.28756
11:38:24				545	9.23464	0.2991779	1.4768	1.4652	12.99145	2.28491
11:38:25				546	9.23562	0.2991779	1.4768	1.41636	13.33333	2.28484
11:38:25				547	9.23562	0.2988563	1.4768	1.4652	12.74725	2.28224
11:38:26				548	9.23366	0.298697	1.4768	1.4652	13.04029	2.28108
11:38:26				549	9.23269	0.298377	1.4768	1.41636	12.74725	2.27855
11:38:27				550	9.23171	0.2978964	1.4768	1.41636	12.79609	2.27472
11:38:27				551	9.23171	0.298697	1.4768	1.4652	12.69841	2.2812
11:38:28				552	9.23074	0.2991779	1.4768	1.41636	12.64957	2.28515
11:38:28				553	9.22781	0.3009391	1.4768	1.41636	12.99145	2.2996
11:38:29				554	9.23269	0.3054224	1.4768	1.4652	12.94261	2.33561
11:38:29				555	9.23171	0.301579	1.4768	1.41636	13.18681	2.30453
11:38:30				556	9.23269	0.301579	1.4768	1.4652	12.99145	2.30447
11:38:30				557	9.23464	0.3025399	1.4768	1.41636	13.18681	2.31213
11:38:31				558	9.23269	0.3070239	1.4768	1.4652	13.23565	2.34859
11:38:31				559	9.23269	0.3020594	1.4768	1.4652	13.04029	2.30836
11:38:32				560	9.23171	0.3009391	1.4768	1.4652	12.89377	2.29935
11:38:32				561	9.22878	0.2999778	1.4768	1.4652	13.04029	2.29175
11:38:33				562	9.23171	0.3051024	1.4768	1.4652	12.89377	2.33308
11:38:33				563	9.23074	0.3022191	1.4768	1.4652	13.28449	2.30978
11:38:34				564	9.23269	0.3012583	1.4768	1.4652	13.04029	2.30187
11:38:34				565	9.22976	0.2970962	1.4768	1.4652	12.74725	2.26837
11:38:35				566	9.22878	0.2994981	1.4768	1.4652	13.38217	2.28787
11:38:35				567	9.22488	0.3012583	1.4768	1.4652	13.04029	2.30237
11:38:36				568	9.22781	0.2996575	1.5752	1.41636	12.89377	2.28922
11:38:36				569	9.22488	0.298377	1.5752	1.4652	12.69841	2.27904
11:38:37				570	9.22585	0.2994981	1.4768	1.4652	13.04029	2.28806
11:38:37				571	9.22585	0.3038213	1.4768	1.41636	13.82173	2.32307
11:38:38				572	9.22585	0.298697	1.4768	1.4652	13.52869	2.28157
11:38:38				573	9.22293	0.2993372	1.4768	1.4652	13.08913	2.28694
11:38:39				574	9.2239	0.3002982	1.4768	1.41636	12.74725	2.29466
11:38:39				575	9.2239	0.2999778	1.4768	1.4652	13.43101	2.29206
11:38:40				576	9.22488	0.3041411	1.4768	1.4652	12.89377	2.32573
11:38:40				577	9.2239	0.304461	1.4768	1.41636	13.04029	2.32838
11:38:41				578	9.22683	0.3001372	1.4768	1.4652	13.38217	2.29317

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:41				579	9.22878	0.3009391	1.4768	1.4652	12.79609	2.29954
11:38:42				580	9.22683	0.3022191	1.3784	1.41636	12.89377	2.31003
11:38:42				581	9.22585	0.3035001	1.4768	1.4652	13.33333	2.32047
11:38:43				582	9.22976	0.3006186	1.4768	1.4652	13.18681	2.29688
11:38:43				583	9.22488	0.3002982	1.4768	1.41636	12.84493	2.2946
11:38:44				584	9.22781	0.3054224	1.4768	1.4652	12.94261	2.33593
11:38:44				585	9.22878	0.3038213	1.4768	1.4652	13.57753	2.32288
11:38:45				586	9.22976	0.3026997	1.4768	1.41636	13.13797	2.31373
11:38:45	11:37:30 increased dye			587	9.22781	0.2998184	1.4768	1.41636	13.04029	2.29052
11:38:46				588	9.22585	0.2990171	1.4768	1.4652	13.08913	2.28416
11:38:46				589	9.22097	0.2978964	1.4768	1.41636	13.13797	2.2754
11:38:47				590	9.22	0.2985363	1.4768	1.4652	13.04029	2.28064
11:38:47				591	9.22293	0.2977357	1.4768	1.4652	12.99145	2.27398
11:38:48				592	9.22488	0.2964555	1.4768	1.41636	12.89377	2.26349
11:38:48				593	9.22195	0.2964555	1.4768	1.4652	12.69841	2.26368
11:38:49				594	9.22195	0.2974159	1.4768	1.4652	13.18681	2.27145
11:38:49				595	9.22	0.2975765	1.4768	1.41636	15.2381	2.27287
11:38:50				596	9.22293	0.296295	1.4768	1.4652	13.52869	2.26232
11:38:50				597	9.22195	0.2964555	1.4768	1.4652	12.84493	2.26368
11:38:51				598	9.22195	0.298057	1.4768	1.41636	13.08913	2.27664
11:38:51				599	9.22293	0.2969356	1.4768	1.4652	13.52869	2.2675
11:38:52				600	9.22293	0.2972553	1.4768	1.4652	13.04029	2.27009
11:38:52				601	9.2239	0.3017386	1.4768	1.41636	12.94261	2.30632
11:38:53				602	9.22293	0.2978964	1.4768	1.4652	13.23565	2.27528
11:38:53				603	9.2239	0.2990171	1.4768	1.41636	12.94261	2.28429
11:38:54				604	9.22097	0.2958151	1.4768	1.41636	13.04029	2.25856
11:38:55				607	9.22189	0.295977	1.4768	1.41636	13.38217	2.25981
11:38:56				608	9.21896	0.2954972	1.4768	1.4652	13.33333	2.25611
11:38:56				609	9.22189	0.2958166	1.4768	1.4652	13.13797	2.25851
11:38:57				610	9.21994	0.2958166	1.4768	1.41636	12.64957	2.25864
11:38:57				611	9.21994	0.2951765	1.4768	1.41636	13.52869	2.25346
11:38:58				612	9.22091	0.295977	1.4768	1.4652	14.11477	2.25987
11:38:58				613	9.21994	0.295977	1.4768	1.41636	13.28449	2.25993
11:38:59				614	9.22091	0.2954972	1.4768	1.4652	13.13797	2.25599
11:38:59				615	9.22091	0.2958166	1.4768	1.4652	12.99145	2.25857
11:39:00				616	9.21896	0.2977386	1.4768	1.41636	12.89377	2.27425
11:39:00				617	9.22287	0.2956561	1.4768	1.4652	13.23565	2.25715
11:39:01				618	9.22189	0.296457	1.4768	1.4652	12.74725	2.26369
11:39:01				619	9.22091	0.3027026	1.4768	1.41636	13.43101	2.31433
11:39:02				620	9.22287	0.2978978	1.4768	1.4652	13.18681	2.27529
11:39:02				621	9.22287	0.29902	1.4768	1.4652	12.99145	2.28438
11:39:03				622	9.22287	0.2993402	1.4768	1.41636	12.79609	2.28697
11:39:03				623	9.22287	0.2985392	1.4768	1.41636	12.89377	2.28048
11:39:04				624	9.22384	0.2985392	1.4768	1.4652	13.04029	2.28042
11:39:04				625	9.22287	0.2983784	1.4768	1.41636	14.06593	2.27918

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:05				626	9.22482	0.2980585	1.4768	1.4652	13.87057	2.27647
11:39:05				627	9.22091	0.2974188	1.4768	1.4652	12.89377	2.27154
11:39:06				628	9.22091	0.3027026	1.4768	1.41636	13.13797	2.31433
11:39:06				629	9.22482	0.2986985	1.4768	1.4652	13.23565	2.28165
11:39:07				630	9.22189	0.29902	1.4768	1.41636	13.04029	2.28444
11:39:07				631	9.21994	0.2998198	1.4768	1.41636	12.89377	2.29104
11:39:08				632	9.22384	0.3017415	1.4768	1.4652	12.84493	2.30635
11:39:08				633	9.22384	0.2998198	1.4768	1.4652	12.94261	2.29079
11:39:09				634	9.22384	0.3009406	1.4768	1.41636	13.23565	2.29986
11:39:09				635	9.22579	0.3028624	1.4768	1.41636	13.18681	2.31531
11:39:10				636	9.22677	0.3011016	1.4768	1.41636	13.28449	2.30098
11:39:10				637	9.22579	0.3012612	1.4768	1.41636	12.79609	2.30234
11:39:11				638	9.22287	0.2974188	1.4768	1.4652	12.94261	2.27142
11:39:11				639	9.22384	0.3030222	1.4768	1.4652	13.13797	2.31673
11:39:12				640	9.22482	0.2996604	1.4768	1.41636	13.13797	2.28944
11:39:12				641	9.22287	0.2991794	1.4768	1.4652	12.89377	2.28567
11:39:13				642	9.21994	0.3019012	1.4768	1.4652	12.99145	2.3079
11:39:13				643	9.22287	0.3014208	1.4768	1.41636	13.28449	2.30382
11:39:14				644	9.22384	0.2996604	1.4768	1.41636	13.13797	2.2895
11:39:14				645	9.22287	0.2982192	1.4768	1.4652	12.69841	2.27789
11:39:15				646	9.22579	0.29902	1.4768	1.41636	13.18681	2.28419
11:39:15				647	9.22287	0.2985392	1.4768	1.4652	12.64957	2.28048
11:39:16				648	9.22384	0.2993402	1.4768	1.4652	12.64957	2.28691
11:39:16				649	9.21994	0.2982192	1.4768	1.41636	12.84493	2.27808
11:39:17				650	9.22287	0.2985392	1.4768	1.4652	13.08913	2.28048
11:39:17				651	9.22384	0.2985392	1.4768	1.4652	13.18681	2.28042
11:39:18				652	9.22189	0.2966175	1.4768	1.41636	13.77289	2.26499
11:39:18				653	9.21994	0.297578	1.4768	1.4652	13.04029	2.27289
11:39:19				654	9.21798	0.2985392	1.4768	1.4652	13.04029	2.28079
11:39:19				655	9.22091	0.2974188	1.4768	1.41636	13.08913	2.27154
11:39:20				656	9.21798	0.2999807	1.4768	1.4652	12.94261	2.29246
11:39:20				657	9.21896	0.2977386	1.4768	1.4652	13.43101	2.27425
11:39:21				658	9.22091	0.2983784	1.4768	1.4652	12.94261	2.27931
11:39:21				659	9.21701	0.2983784	1.4768	1.4652	13.52869	2.27955
11:39:22				660	9.21402	0.2977386	1.4768	1.4652	12.99145	2.27456
11:39:22				661	9.21798	0.2974188	1.4768	1.4652	13.82173	2.27172
11:39:23				662	9.21701	0.2974188	1.4768	1.4652	13.62637	2.27179
11:39:23				663	9.21603	0.2972582	1.4768	1.4652	13.08913	2.27055
11:39:24				664	9.21896	0.2974188	1.4768	1.4652	13.08913	2.27166
11:39:24				665	9.21798	0.2978978	1.4768	1.4652	13.33333	2.2756
11:39:25				666	9.21701	0.2974188	1.4768	1.4652	12.74725	2.27179
11:39:25				667	9.21603	0.2969371	1.4768	1.4652	13.13797	2.26795
11:39:26				668	9.21603	0.2970977	1.4768	1.4652	13.18681	2.26925
11:39:26				669	9.21896	0.2950161	1.4768	1.4652	13.23565	2.25222
11:39:27				670	9.21701	0.297578	1.4768	1.4652	13.62637	2.27307

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:27				671	9.21701	0.2970977	1.4768	1.4652	13.08913	2.26919
11:39:28				672	9.21701	0.2956561	1.4768	1.4652	12.99145	2.25752
11:39:28				673	9.21701	0.2961375	1.4768	1.4652	13.38217	2.26142
11:39:29				674	9.21701	0.296457	1.4768	1.4652	13.33333	2.264
11:39:29				675	9.21798	0.2969371	1.4768	1.4652	12.94261	2.26782
11:39:30				676	9.21896	0.2974188	1.4768	1.41636	13.72405	2.27166
11:39:30				677	9.21701	0.2966175	1.4768	1.41636	13.08913	2.2653
11:39:31				678	9.21701	0.2966175	1.4768	1.41636	12.79609	2.2653
11:39:31				679	9.21896	0.2970976	1.4768	1.4652	13.13797	2.26906
11:39:32				680	9.21798	0.2966175	1.4768	1.41636	13.96825	2.26524
11:39:32				681	9.22091	0.296778	1.4768	1.41636	12.89377	2.26635
11:39:33				682	9.21896	0.2950161	1.4768	1.4652	12.94261	2.25222
11:39:33				683	9.21603	0.295977	1.4768	1.4652	14.06593	2.26018
11:39:34				684	9.21505	0.295977	1.4768	1.41636	13.47985	2.26024
11:39:34				685	9.22091	0.2961375	1.4768	1.41636	12.84493	2.26117
11:39:35				686	9.21701	0.2972582	1.4768	1.4652	13.08913	2.27049
11:39:35				687	9.21994	0.296457	1.4768	1.41636	13.67521	2.26382
11:39:36				688	9.21701	0.296457	1.4768	1.4652	13.13797	2.264
11:39:36				689	9.21994	0.2972582	1.4768	1.4652	13.08913	2.2703
11:39:37				690	9.22091	0.2972582	1.4768	1.4652	13.18681	2.27024
11:39:37				691	9.22189	0.296778	1.4768	1.4652	13.23565	2.26629
11:39:38				692	9.21994	0.2978978	1.4768	1.4652	12.99145	2.27548
11:39:38				693	9.21798	0.2966175	1.4768	1.4652	12.74725	2.26524
11:39:39				694	9.21798	0.2962979	1.4768	1.4652	12.30769	2.26265
11:39:39				695	9.22091	0.2961375	1.4768	1.4652	13.04029	2.26117
11:39:40				696	9.21994	0.2980585	1.3784	1.4652	13.13797	2.27678
11:39:40				697	9.21994	0.2980585	1.4768	1.4652	12.89377	2.27678
11:39:41				698	9.21896	0.2970976	1.4768	1.4652	12.89377	2.26906
11:39:41				699	9.21896	0.2956561	1.5752	1.41636	12.55189	2.2574
11:39:42				700	9.21896	0.295977	1.4768	1.4652	13.04029	2.25999
11:39:42				701	9.21701	0.2982192	1.4768	1.4652	12.99145	2.27826
11:39:43				702	9.21701	0.3012612	1.4768	1.41636	13.57753	2.3029
11:39:43				703	9.21896	0.2983784	1.4768	1.4652	13.62637	2.27943
11:39:44				704	9.21896	0.2974188	1.4768	1.41636	13.23565	2.27166
11:39:44				705	9.21896	0.2969371	1.4768	1.4652	12.94261	2.26776
11:39:45				706	9.21603	0.2974188	1.4768	1.4652	13.13797	2.27185
11:39:45				707	9.21701	0.2978978	1.4768	1.41636	14.31013	2.27566
11:39:46				708	9.21701	0.2977386	1.4768	1.4652	13.67521	2.27437
11:39:46				709	9.21701	0.2962979	1.4768	1.4652	13.18681	2.26271
11:39:47				710	9.21896	0.2972582	1.4768	1.41636	13.04029	2.27036
11:39:47				711	9.21701	0.3009406	1.4768	1.4652	13.18681	2.3003
11:39:48				712	9.21994	0.3004606	1.4768	1.4652	13.28449	2.29623
11:39:48				713	9.21994	0.3001402	1.4768	1.41636	12.89377	2.29363
11:39:49				714	9.21994	0.2986985	1.4768	1.4652	12.94261	2.28196
11:39:49				715	9.22091	0.2982192	1.4768	1.4652	12.69841	2.27802

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:50				716	9.22091	0.2998198	1.4768	1.4652	12.94261	2.29098
11:39:50				717	9.22189	0.2998198	1.4768	1.4652	13.57753	2.29091
11:39:51				718	9.21798	0.2996604	1.4768	1.4652	13.57753	2.28987
11:39:51				719	9.21994	0.2993402	1.4768	1.4652	13.18681	2.28715
11:39:52				720	9.22091	0.2980585	1.4768	1.4652	12.69841	2.27672
11:39:52				721	9.21994	0.297578	1.4768	1.4652	13.38217	2.27289
11:39:53				722	9.21505	0.2969371	1.4768	1.41636	13.47985	2.26801
11:39:53				723	9.21896	0.2996604	1.4768	1.4652	12.99145	2.28981
11:39:54				724	9.21798	0.2994996	1.4768	1.41636	13.13797	2.28857
11:39:55				727	9.21701	0.2986955	1.4768	1.41636	13.43101	2.28212
11:39:56				728	9.21896	0.2994966	1.4768	1.4652	13.18681	2.28848
11:39:56				729	9.21701	0.2988563	1.4768	1.41636	13.28449	2.28342
11:39:57				730	9.21896	0.2988563	1.4768	1.41636	13.57753	2.2833
11:39:57				731	9.21701	0.2993373	1.4768	1.4652	13.23565	2.28732
11:39:58				732	9.21896	0.2954943	1.4768	1.4652	13.62637	2.25609
11:39:58				733	9.21603	0.2958136	1.4768	1.4652	13.08913	2.25886
11:39:59				734	9.21505	0.2970947	1.4768	1.4652	12.99145	2.26929
11:39:59				735	9.21505	0.2972553	1.4768	1.4652	13.38217	2.27058
11:40:00				736	9.21798	0.2974159	1.4768	1.4652	13.28449	2.2717
11:40:00				737	9.21701	0.2970947	1.4768	1.4652	14.11477	2.26916
11:40:01				738	9.21701	0.2969356	1.6736	1.41636	13.23565	2.26787
11:40:01				739	9.21701	0.2970947	1.4768	1.4652	13.28449	2.26916
11:40:02				740	9.21603	0.2967751	1.4768	1.4652	13.57753	2.26664
11:40:02				741	9.21408	0.2969356	1.4768	1.41636	13.23565	2.26806
11:40:03				742	9.21603	0.2978964	1.4768	1.4652	13.23565	2.27571
11:40:03				743	9.21408	0.2969356	1.4768	1.4652	13.04029	2.26806
11:40:04				744	9.21408	0.2975751	1.4768	1.41636	12.89377	2.27323
11:40:04				745	9.21701	0.2974159	1.4768	1.41636	13.33333	2.27176
11:40:05				746	9.21505	0.2970947	1.4768	1.4652	12.60073	2.26929
11:40:05				747	9.21408	0.2970947	1.4768	1.41636	12.69841	2.26935
11:40:06				748	9.21408	0.2975751	1.4768	1.4652	13.04029	2.27323
11:40:06				749	9.21505	0.2993373	1.4768	1.4652	13.13797	2.28744
11:40:07				750	9.21603	0.2977357	1.4768	1.41636	14.26129	2.27441
11:40:07				751	9.21408	0.2978964	1.4768	1.4652	13.13797	2.27584
11:40:08				752	9.21408	0.2975751	1.4768	1.4652	13.43101	2.27323
11:40:08				753	9.21505	0.2969356	1.4768	1.4652	13.33333	2.268
11:40:09				754	9.21408	0.2978964	1.4768	1.4652	13.23565	2.27584
11:40:09				755	9.2131	0.2980556	1.4768	1.4652	13.47985	2.27719
11:40:10				756	9.21115	0.2970947	1.4768	1.4652	13.52869	2.26953
11:40:10				757	9.2131	0.2975751	1.4768	1.4652	13.28449	2.2733
11:40:11				758	9.21213	0.296295	1.4768	1.4652	13.43101	2.263
11:40:11				759	9.21115	0.2969356	1.4768	1.41636	14.01709	2.26824
11:40:12				760	9.2092	0.2967751	1.4768	1.41636	13.57753	2.26707
11:40:12				761	9.2092	0.2970947	1.4768	1.41636	12.89377	2.26965
11:40:13				762	9.2092	0.2969356	1.4768	1.41636	13.04029	2.26837

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:13				763	9.21115	0.2969356	1.4768	1.4652	12.99145	2.26824
11:40:14				764	9.21115	0.2977357	1.3784	1.41636	13.38217	2.27472
11:40:14				765	9.2131	0.2978964	1.4768	1.41636	14.26129	2.2759
11:40:15				766	9.21213	0.2972553	1.4768	1.4652	13.91941	2.27077
11:40:15				767	9.21017	0.2972553	1.4768	1.41636	12.94261	2.27089
11:40:16				768	9.2131	0.2970947	1.4768	1.4652	13.13797	2.26941
11:40:16				769	9.21115	0.2974159	1.4768	1.4652	13.67521	2.27213
11:40:17				770	9.21408	0.2975751	1.4768	1.4652	13.57753	2.27323
11:40:17				771	9.21213	0.2974159	1.4768	1.4652	12.89377	2.27207
11:40:18				772	9.21115	0.2969356	1.4768	1.41636	13.52869	2.26824
11:40:18				773	9.21115	0.2967751	1.4768	1.4652	13.43101	2.26694
11:40:19				774	9.21408	0.296295	1.3784	1.4652	13.67521	2.26288
11:40:19				775	9.21213	0.2967751	1.4768	1.41636	13.91941	2.26688
11:40:20				776	9.21213	0.2966146	1.4768	1.41636	13.18681	2.26558
11:40:20				777	9.21213	0.2966146	1.4768	1.41636	12.69841	2.26558
11:40:21				778	9.2092	0.2966146	1.4768	1.41636	13.13797	2.26577
11:40:21				779	9.2092	0.2969356	1.4768	1.4652	13.28449	2.26837
11:40:22				780	9.2092	0.2969356	1.4768	1.4652	13.04029	2.26837
11:40:22				781	9.21017	0.2977357	1.4768	1.41636	14.11477	2.27478
11:40:23				782	9.21115	0.2975751	1.4768	1.41636	13.87057	2.27342
11:40:23				783	9.21017	0.2972553	1.4768	1.4652	12.89377	2.27089
11:40:24				784	9.21115	0.2970947	1.4768	1.4652	13.33333	2.26953
11:40:24				785	9.21017	0.2980556	1.4768	1.4652	13.04029	2.27737
11:40:25				786	9.2131	0.2969356	1.4768	1.4652	13.77289	2.26812
11:40:25				787	9.2092	0.2977357	1.4768	1.4652	13.04029	2.27484
11:40:26				788	9.21115	0.2982163	1.4768	1.4652	13.18681	2.27861
11:40:26				789	9.2092	0.2975751	1.4768	1.4652	13.43101	2.27354
11:40:27				790	9.21213	0.2969356	1.4768	1.4652	12.99145	2.26818
11:40:27				791	9.21017	0.2988563	1.4768	1.41636	12.94261	2.28386
11:40:28				792	9.2131	0.2948529	1.4768	1.41636	13.28449	2.25127
11:40:28				793	9.21017	0.2972553	1.4768	1.41636	12.94261	2.27089
11:40:29				794	9.21213	0.2972553	1.4768	1.4652	13.18681	2.27077
11:40:29				795	9.21017	0.2969356	1.4768	1.41636	13.28449	2.26831
11:40:30				796	9.2092	0.2961345	1.4768	1.4652	12.99145	2.26188
11:40:30				797	9.21017	0.2958137	1.5752	1.41636	12.89377	2.25922
11:40:31				798	9.21115	0.2945337	1.4768	1.4652	13.13797	2.24881
11:40:31				799	9.21115	0.2950132	1.4768	1.4652	13.77289	2.25269
11:40:32				800	9.21115	0.2950132	1.4768	1.4652	12.79609	2.25269
11:40:32				801	9.21115	0.2950132	1.4768	1.4652	12.99145	2.25269
11:40:33				802	9.21115	0.2937326	1.4768	1.4652	13.52869	2.24233
11:40:33				803	9.2092	0.2942132	1.4768	1.4652	13.62637	2.24634
11:40:34				804	9.2092	0.2943735	1.4768	1.4652	13.33333	2.24763
11:40:34				805	9.20822	0.2945337	1.4768	1.4652	13.13797	2.24899
11:40:35				806	9.21115	0.2943735	1.4768	1.41636	13.23565	2.24751
11:40:35				807	9.20822	0.2943735	1.4768	1.4652	13.23565	2.24769

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:36				808	9.20724	0.2942132	1.4768	1.4652	13.18681	2.24646
11:40:36				809	9.2092	0.2943735	1.4768	1.41636	12.99145	2.24763
11:40:37				810	9.21115	0.2945337	1.4768	1.4652	12.50305	2.24881
11:40:37				811	9.2092	0.2945337	1.4768	1.4652	13.23565	2.24893
11:40:38				812	9.20822	0.2938928	1.4768	1.41636	13.18681	2.24381
11:40:38				813	9.20822	0.2945337	1.4768	1.4652	13.52869	2.24899
11:40:39				814	9.20724	0.2945337	1.4768	1.4652	13.77289	2.24905
11:40:39				815	9.20822	0.2945337	1.4768	1.4652	13.23565	2.24899
11:40:40				816	9.2092	0.2953339	1.4768	1.4652	13.23565	2.2554
11:40:40				817	9.20822	0.2943735	1.4768	1.4652	14.06593	2.24769
11:40:41				818	9.20822	0.2951736	1.4768	1.4652	12.94261	2.25417
11:40:41				819	9.20822	0.2950132	1.4768	1.41636	13.13797	2.25287
11:40:42				820	9.20822	0.2950132	1.4768	1.41636	13.47985	2.25287
11:40:42				821	9.20627	0.2950132	1.4768	1.4652	13.28449	2.25299
11:40:43				822	9.20627	0.2966146	1.4768	1.4652	13.57753	2.26595
11:40:43				823	9.20724	0.2959741	1.5752	1.4652	14.50549	2.2607
11:40:44				824	9.20822	0.2951736	1.4768	1.4652	14.26129	2.25417
11:40:44				825	9.20822	0.2953339	1.4768	1.4652	13.18681	2.25547
11:40:45				826	9.20822	0.3002982	1.4768	1.4652	13.33333	2.29566
11:40:45				827	9.2092	0.3001373	1.4768	1.4652	13.52869	2.29429
11:40:46				828	9.21017	0.2980556	1.5752	1.41636	13.96825	2.27737
11:40:46				829	9.2092	0.2961345	1.4768	1.4652	13.43101	2.26188
11:40:47				830	9.21017	0.294694	1.4768	1.4652	13.23565	2.25017
11:40:47				831	9.21213	0.2961345	1.4768	1.41636	12.94261	2.2617
11:40:48				832	9.21115	0.296295	1.4768	1.4652	13.04029	2.26306
11:40:48				833	9.21213	0.2948529	1.4768	1.4652	13.18681	2.25133
11:40:49				834	9.21408	0.294053	1.4768	1.41636	12.74725	2.24474
11:40:49				835	9.21505	0.2943735	1.4768	1.4652	13.08913	2.24727
11:40:50				836	9.21505	0.2948529	1.4768	1.4652	13.47985	2.25115
11:40:50				837	9.21408	0.2943735	1.4768	1.41636	13.18681	2.24733
11:40:51				838	9.21408	0.2942132	1.3784	1.51404	13.67521	2.24604
11:40:51				839	9.21408	0.2943735	1.4768	1.4652	12.89377	2.24733
11:40:52				840	9.21408	0.2938928	1.4768	1.4652	13.08913	2.24344
11:40:52				841	9.21213	0.2935724	1.4768	1.4652	13.77289	2.24097
11:40:53				842	9.21115	0.2938928	1.4768	1.41636	13.57753	2.24362
11:40:53				843	9.21408	0.2937326	1.4768	1.4652	12.79609	2.24215
11:40:54				844	9.2131	0.2935724	1.4768	1.4652	12.69841	2.24091
11:40:55				847	9.21151	0.2939015	1.4768	1.4652	13.52869	2.24367
11:40:56				848	9.21151	0.2939015	1.4768	1.4652	13.18681	2.24367
11:40:56				849	9.21444	0.2950219	1.4768	1.4652	13.28449	2.25255
11:40:57				850	9.21054	0.2951823	1.4768	1.4652	13.43101	2.25409
11:40:57				851	9.21151	0.294222	1.5752	1.4652	13.13797	2.24626
11:40:58				852	9.21347	0.2947028	1.4768	1.4652	13.13797	2.25003
11:40:58				853	9.21444	0.2959828	1.4768	1.41636	13.08913	2.26033
11:40:59				854	9.21151	0.2963038	1.4768	1.4652	13.28449	2.26311

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:59				855	9.21054	0.2959828	1.4768	1.4652	13.23565	2.26057
11:41:00				856	9.21249	0.2953427	1.4768	1.41636	13.13797	2.25527
11:41:00				857	9.21151	0.2951823	1.5752	1.4652	13.13797	2.25403
11:41:01				858	9.21151	0.2951823	1.4768	1.4652	13.18681	2.25403
11:41:01				859	9.21249	0.2950219	1.4768	1.4652	13.08913	2.25267
11:41:02				860	9.21151	0.2948631	1.4768	1.4652	13.04029	2.25145
11:41:02				861	9.21151	0.2945425	1.4768	1.4652	13.67521	2.24886
11:41:03				862	9.21054	0.2947028	1.4768	1.4652	13.33333	2.25021
11:41:03				863	9.21347	0.2945425	1.4768	1.4652	13.13797	2.24873
11:41:04				864	9.21151	0.294222	1.4768	1.4652	13.04029	2.24626
11:41:04				865	9.21151	0.2943822	1.4768	1.41636	13.23565	2.24756
11:41:05				866	9.21249	0.294222	1.4768	1.4652	13.13797	2.2462
11:41:05				867	9.21444	0.2935811	1.4768	1.41636	13.18681	2.2409
11:41:06				868	9.21347	0.2939015	1.4768	1.4652	14.06593	2.24355
11:41:06				869	9.21347	0.2939015	1.4768	1.4652	13.47985	2.24355
11:41:07				870	9.21151	0.2935811	1.4768	1.4652	13.13797	2.24108
11:41:07				871	9.21249	0.2935811	1.4768	1.4652	13.47985	2.24102
11:41:08				872	9.21054	0.2937413	1.4768	1.4652	13.23565	2.24244
11:41:08				873	9.21444	0.2935811	1.4768	1.4652	13.18681	2.2409
11:41:09				874	9.21151	0.2935811	1.4768	1.4652	13.13797	2.24108
11:41:09				875	9.21054	0.2947028	1.4768	1.41636	13.52869	2.25021
11:41:10				876	9.21151	0.2940617	1.4768	1.4652	13.52869	2.24497
11:41:10				877	9.20859	0.2939015	1.4768	1.4652	12.55189	2.24385
11:41:11				878	9.21151	0.2939015	1.4768	1.41636	13.38217	2.24367
11:41:11				879	9.21249	0.2935811	1.4768	1.4652	13.43101	2.24102
11:41:12				880	9.21347	0.293421	1.4768	1.4652	13.67521	2.23966
11:41:12				881	9.21151	0.2935811	1.4768	1.4652	13.47985	2.24108
11:41:13				882	9.21054	0.2935811	1.4768	1.4652	13.23565	2.24114
11:41:13				883	9.21151	0.2939015	1.5752	1.4652	14.21245	2.24367
11:41:14				884	9.21151	0.2940617	1.4768	1.4652	13.33333	2.24497
11:41:14				885	9.20956	0.2929406	1.4768	1.4652	13.23565	2.23602
11:41:15				886	9.20956	0.2932608	1.4768	1.41636	14.11477	2.23861
11:41:15				887	9.20761	0.2935811	1.4768	1.41636	12.99145	2.24132
11:41:16				888	9.21054	0.2931007	1.4768	1.41636	13.13797	2.23726
11:41:16				889	9.21054	0.2932608	1.4768	1.41636	13.77289	2.23855
11:41:17				890	9.20859	0.293421	1.4768	1.4652	13.18681	2.23997
11:41:17				891	9.20566	0.2931007	1.4768	1.4652	13.57753	2.23756
11:41:18				892	9.20761	0.2932608	1.5752	1.4652	13.52869	2.23873
11:41:18				893	9.20468	0.2937413	1.4768	1.4652	13.04029	2.2428
11:41:19				894	9.20859	0.2929406	1.4768	1.4652	13.13797	2.23608
11:41:19				895	9.20663	0.2963038	1.4768	1.4652	13.62637	2.26341
11:41:20				896	9.20663	0.2931007	1.4768	1.4652	13.57753	2.2375
11:41:20				897	9.20566	0.293421	1.5752	1.41636	12.89377	2.24015
11:41:21				898	9.20663	0.2924604	1.4768	1.41636	13.33333	2.23232
11:41:21				899	9.20761	0.2926204	1.4768	1.4652	13.57753	2.23355

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:22				900	9.20663	0.2927805	1.4768	1.41636	13.28449	2.23491
11:41:22				901	9.20663	0.2943822	1.4768	1.4652	13.04029	2.24786
11:41:23				902	9.20566	0.2932608	1.5752	1.4652	12.99145	2.23885
11:41:23				903	9.20566	0.2929406	1.5752	1.4652	12.89377	2.23626
11:41:24				904	9.20566	0.2932608	1.4768	1.4652	13.28449	2.23885
11:41:24				905	9.20761	0.2932608	1.4768	1.4652	13.47985	2.23873
11:41:25				906	9.2037	0.2932608	1.4768	1.4652	12.74725	2.23898
11:41:25				907	9.2037	0.2929406	1.4768	1.41636	13.13797	2.23639
11:41:26				908	9.2037	0.2937413	1.4768	1.41636	13.13797	2.24286
11:41:26				909	9.20273	0.2939015	1.4768	1.41636	13.62637	2.24422
11:41:27				910	9.20175	0.2937413	1.4768	1.4652	13.18681	2.24298
11:41:27				911	9.19784	0.293421	1.4768	1.41636	12.94261	2.24064
11:41:28				912	9.20273	0.2935811	1.4768	1.4652	13.52869	2.24163
11:41:28				913	9.20175	0.2937413	1.4768	1.4652	13.28449	2.24298
11:41:29				914	9.1998	0.2943822	1.4768	1.4652	13.52869	2.24829
11:41:29				915	9.19882	0.294222	1.4768	1.4652	13.33333	2.24706
11:41:30				916	9.19882	0.2939015	1.4768	1.41636	13.38217	2.24446
11:41:30				917	9.20175	0.2940617	1.4768	1.4652	12.79609	2.24558
11:41:31				918	9.1998	0.2947028	1.4768	1.4652	13.23565	2.25089
11:41:31				919	9.20077	0.2945425	1.4768	1.41636	13.77289	2.24953
11:41:32				920	9.1998	0.2940617	1.4768	1.4652	14.11477	2.2457
11:41:32				921	9.20273	0.2945425	1.4768	1.4652	13.23565	2.24941
11:41:33				922	9.20077	0.2948631	1.4768	1.4652	13.87057	2.25212
11:41:33				923	9.20175	0.294222	1.4768	1.4652	13.38217	2.24687
11:41:34				924	9.1998	0.2943822	1.4768	1.4652	13.33333	2.24829
11:41:34				925	9.19784	0.2961433	1.4768	1.4652	13.13797	2.26267
11:41:35				926	9.19784	0.2956635	1.4768	1.4652	13.67521	2.25878
11:41:35				927	9.19882	0.2953427	1.4768	1.41636	12.84493	2.25613
11:41:36				928	9.20077	0.2958239	1.4768	1.41636	13.33333	2.2599
11:41:36				929	9.19882	0.2956635	1.4768	1.4652	13.28449	2.25872
11:41:37				930	9.20077	0.2955031	1.5752	1.41636	13.77289	2.2573
11:41:37				931	9.19882	0.2951823	1.4768	1.4652	13.18681	2.25483
11:41:38				932	9.20077	0.2955031	1.4768	1.4652	13.13797	2.2573
11:41:38				933	9.1998	0.2956635	1.4768	1.4652	13.77289	2.25866
11:41:39				934	9.20175	0.2955031	1.5752	1.4652	13.47985	2.25724
11:41:39				935	9.19882	0.2956635	1.4768	1.4652	13.47985	2.25872
11:41:40				936	9.19784	0.2959828	1.3784	1.4652	13.33333	2.26137
11:41:40				937	9.19882	0.2956635	1.5752	1.4652	14.26129	2.25872
11:41:41				938	9.19784	0.2956635	1.5752	1.41636	13.62637	2.25878
11:41:41				939	9.19687	0.2956635	1.4768	1.4652	13.43101	2.25885
11:41:42				940	9.19687	0.2961433	1.4768	1.4652	13.72405	2.26273
11:41:42				941	9.19687	0.2961433	1.4768	1.41636	13.28449	2.26273
11:41:43				942	9.1998	0.2958239	1.4768	1.4652	13.33333	2.25996
11:41:43				943	9.19784	0.2953427	1.4768	1.4652	13.47985	2.25619
11:41:44				944	9.19784	0.2955031	1.4768	1.4652	13.04029	2.25749

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:44				945	9.1998	0.2939015	1.4768	1.4652	13.43101	2.2444
11:41:45				946	9.19882	0.2959829	1.4768	1.4652	14.06593	2.26131
11:41:45				947	9.19687	0.2951823	1.4768	1.4652	13.47985	2.25495
11:41:46				948	9.1998	0.2959829	1.4768	1.4652	12.94261	2.26125
11:41:46				949	9.1998	0.2959829	1.4768	1.41636	14.06593	2.26125
11:41:47				950	9.19687	0.2956635	1.4768	1.4652	13.18681	2.25885
11:41:47				951	9.19784	0.2963038	1.4768	1.4652	13.33333	2.26397
11:41:48				952	9.1998	0.2958239	1.4768	1.41636	13.96825	2.25996
11:41:48				953	9.1998	0.2958239	1.4768	1.4652	13.23565	2.25996
11:41:49				954	9.1998	0.2959829	1.4768	1.4652	12.99145	2.26125
11:41:49				955	9.19882	0.2961433	1.4768	1.4652	14.01709	2.26261
11:41:50				956	9.1998	0.2959829	1.4768	1.4652	12.79609	2.26125
11:41:50				957	9.19784	0.2964643	1.4768	1.41636	13.47985	2.26527
11:41:51				958	9.19589	0.2966233	1.4768	1.4652	13.72405	2.26668
11:41:51				959	9.19882	0.2964643	1.5752	1.4652	13.23565	2.2652
11:41:52				960	9.19882	0.2964643	1.4768	1.41636	13.23565	2.26521
11:41:52				961	9.19589	0.2975839	1.4768	1.4652	13.47985	2.27446
11:41:53				962	9.1998	0.2972641	1.4768	1.4652	13.82173	2.27162
11:41:53				963	9.19687	0.2969444	1.4768	1.4652	13.28449	2.26922
11:41:54				964	9.19882	0.2967839	1.4768	1.4652	13.28449	2.26779
11:41:55				967	9.19644	0.2964541	1.4768	1.4652	13.08913	2.26527
11:41:56				968	9.19546	0.2950132	1.5752	1.41636	12.99145	2.25367
11:41:56				969	9.19449	0.2954929	1.4768	1.4652	13.52869	2.25761
11:41:57				970	9.19546	0.2956532	1.4768	1.4652	13.47985	2.25885
11:41:57				971	9.19546	0.2953339	1.4768	1.4652	13.67521	2.25627
11:41:58				972	9.19546	0.2956532	1.4768	1.4652	13.77289	2.25885
11:41:58				973	9.19351	0.2956533	1.4768	1.4652	13.23565	2.25897
11:41:59				974	9.19449	0.2948529	1.4768	1.4652	13.28449	2.25243
11:41:59				975	9.19546	0.2980556	1.3784	1.4652	13.67521	2.27831
11:42:00				976	9.19644	0.2956533	1.5752	1.41636	13.57753	2.25879
11:42:00				977	9.19742	0.2954928	1.4768	1.4652	13.43101	2.25743
11:42:01				978	9.19449	0.2956533	1.4768	1.4652	13.57753	2.25891
11:42:01				979	9.19546	0.2954929	1.4768	1.4652	13.62637	2.25755
11:42:02				980	9.19644	0.2956533	1.5752	1.4652	13.52869	2.25879
11:42:02				981	9.19546	0.2961331	1.4768	1.4652	13.28449	2.26274
11:42:03				982	9.19449	0.2964541	1.4768	1.4652	13.62637	2.2654
11:42:03				983	9.19546	0.2959741	1.4768	1.4652	13.23565	2.26145
11:42:04				984	9.19546	0.2959741	1.4768	1.4652	13.23565	2.26145
11:42:04				985	9.19644	0.2962936	1.4768	1.4652	13.52869	2.26397
11:42:05				986	9.19839	0.2961331	1.4768	1.41636	13.04029	2.26255
11:42:05				987	9.19937	0.2978949	1.4768	1.41636	13.18681	2.27675
11:42:06				988	9.19839	0.2967736	1.4768	1.4652	13.87057	2.26774
11:42:06				989	9.19546	0.2967736	1.4768	1.4652	13.28449	2.26792
11:42:07				990	9.19644	0.2983755	1.4768	1.4652	13.43101	2.28083
11:42:07				991	9.19937	0.2982148	1.4768	1.4652	13.28449	2.27935

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:08				992	9.20132	0.2977343	1.4768	1.4652	13.04029	2.27533
11:42:08				993	9.20132	0.2985363	1.3784	1.51404	13.62637	2.28183
11:42:09				994	9.20035	0.2991765	1.4768	1.4652	13.47985	2.28707
11:42:09				995	9.2023	0.2983755	1.4768	1.41636	12.99145	2.28046
11:42:10				996	9.20035	0.2985363	1.4768	1.4652	13.23565	2.28189
11:42:10				997	9.2023	0.2980556	1.4768	1.4652	13.08913	2.27787
11:42:11				998	9.19742	0.2980556	1.4768	1.41636	13.33333	2.27818
11:42:11				999	9.19839	0.2980556	1.5752	1.4652	13.43101	2.27811
11:42:12				1000	9.20035	0.2980556	1.4768	1.4652	13.52869	2.27799
11:42:12				1001	9.19937	0.2978949	1.4768	1.4652	12.89377	2.27675
11:42:13				1002	9.19839	0.2977343	1.4768	1.4652	13.18681	2.27552
11:42:13				1003	9.19742	0.2975751	1.4768	1.4652	13.18681	2.27429
11:42:14				1004	9.19742	0.2985363	1.4768	1.4652	13.28449	2.28207
11:42:14				1005	9.19839	0.2974145	1.5752	1.4652	13.47985	2.27292
11:42:15				1006	9.19742	0.2975751	1.4768	1.41636	13.57753	2.27429
11:42:15				1007	9.19742	0.2975751	1.4768	1.4652	13.96825	2.27429
11:42:16				1008	9.19644	0.2983755	1.4768	1.4652	13.47985	2.28083
11:42:16				1009	9.19937	0.2980556	1.5752	1.4652	13.96825	2.27805
11:42:17				1010	9.19742	0.2978949	1.4768	1.4652	13.67521	2.27688
11:42:17				1011	9.19839	0.2975751	1.4768	1.4652	13.23565	2.27423
11:42:18				1012	9.19839	0.2975751	1.4768	1.4652	13.13797	2.27423
11:42:18				1013	9.19742	0.2975751	1.5752	1.4652	14.06593	2.27428
11:42:19				1014	9.19742	0.2975751	1.5752	1.41636	13.04029	2.27428
11:42:19				1015	9.19839	0.2975751	1.4768	1.4652	13.23565	2.27423
11:42:20				1016	9.19937	0.2974145	1.4768	1.4652	13.08913	2.27286
11:42:20				1017	9.20132	0.2988563	1.4768	1.4652	13.82173	2.28442
11:42:21				1018	9.20035	0.2974145	1.5752	1.4652	13.52869	2.2728
11:42:21				1019	9.20132	0.2972553	1.5752	1.4652	13.18681	2.27145
11:42:22				1020	9.2023	0.2964541	1.4768	1.4652	13.13797	2.2649
11:42:22				1021	9.20328	0.2975751	1.4768	1.4652	13.62637	2.27392
11:42:23				1022	9.20523	0.2969342	1.4768	1.41636	13.72405	2.26861
11:42:23				1023	9.2023	0.2970947	1.5752	1.4652	13.52869	2.27009
11:42:24				1024	9.2023	0.2977343	1.4768	1.41636	13.38217	2.27527
11:42:24				1025	9.20425	0.2983755	1.4768	1.4652	13.62637	2.28034
11:42:25				1026	9.20328	0.2975751	1.5752	1.4652	13.43101	2.27391
11:42:25				1027	9.20425	0.2982148	1.4768	1.4652	13.38217	2.27904
11:42:26				1028	9.2023	0.2999764	1.4768	1.4652	13.38217	2.29343
11:42:26				1029	9.20425	0.2991764	1.5752	1.4652	13.52869	2.28682
11:42:27				1030	9.2023	0.2980556	1.5752	1.41636	12.99145	2.27787
11:42:27				1031	9.2023	0.2988563	1.4768	1.4652	13.33333	2.28436
11:42:28				1032	9.20328	0.2977343	1.4768	1.41636	13.77289	2.27521
11:42:28				1033	9.20328	0.2980556	1.4768	1.41636	13.38217	2.27781
11:42:29				1034	9.20328	0.3015775	1.4768	1.4652	13.47985	2.30634
11:42:29				1035	9.20132	0.2978949	1.5752	1.4652	13.77289	2.27663
11:42:30				1036	9.20328	0.2974145	1.5752	1.4652	13.04029	2.27261

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:30				1037	9.20425	0.2993358	1.4768	1.4652	13.28449	2.28812
11:42:31				1038	9.20328	0.3004577	1.4768	1.4652	13.33333	2.29727
11:42:31				1039	9.20425	0.2982148	1.4768	1.4652	13.28449	2.27904
11:42:32				1040	9.20523	0.2985363	1.5752	1.4652	13.28449	2.28157
11:42:32				1041	9.2023	0.2994966	1.4768	1.41636	13.82173	2.28954
11:42:33				1042	9.20523	0.2988563	1.4768	1.4652	13.18681	2.28417
11:42:33				1043	9.20425	0.2962936	1.4768	1.4652	13.23565	2.26348
11:42:34				1044	9.20523	0.2986956	1.5752	1.41636	13.96825	2.28286
11:42:34				1045	9.20328	0.2977343	1.4768	1.4652	13.43101	2.27521
11:42:35				1046	9.20523	0.2978949	1.4768	1.4652	13.43101	2.27638
11:42:35				1047	9.20523	0.2982148	1.4768	1.4652	13.18681	2.27897
11:42:36				1048	9.20523	0.2974145	1.4768	1.4652	12.99145	2.27249
11:42:36				1049	9.20328	0.2964541	1.5752	1.41636	13.72405	2.26484
11:42:37				1050	9.20328	0.2962936	1.5752	1.41636	13.08913	2.26354
11:42:37				1051	9.20425	0.2966146	1.4768	1.4652	13.43101	2.26608
11:42:38				1052	9.20523	0.2999763	1.4768	1.41636	13.57753	2.29324
11:42:38				1053	9.20425	0.2966146	1.5752	1.4652	13.52869	2.26608
11:42:39				1054	9.20523	0.2964541	1.4768	1.4652	13.38217	2.26472
11:42:39				1055	9.20425	0.2982148	1.4768	1.4652	13.04029	2.27904
11:42:40				1056	9.20425	0.2970947	1.4768	1.51404	13.52869	2.26997
11:42:40				1057	9.20621	0.2964541	1.4768	1.41636	13.28449	2.26466
11:42:41				1058	9.20621	0.2974145	1.4768	1.4652	13.62637	2.27243
11:42:41				1059	9.20621	0.2961331	1.4768	1.4652	14.16361	2.26206
11:42:42				1060	9.20621	0.2959741	1.4768	1.41636	13.38217	2.26077
11:42:42				1061	9.20523	0.2998169	1.4768	1.4652	13.38217	2.29195
11:42:43				1062	9.20328	0.2988563	1.5752	1.4652	13.62637	2.28429
11:42:43				1063	9.2023	0.2978949	1.5752	1.4652	13.72405	2.27657
11:42:44				1064	9.20523	0.2986956	1.4768	1.4652	13.52869	2.28287
11:42:44				1065	9.2023	0.2982148	1.4768	1.4652	13.38217	2.27916
11:42:45				1066	9.2023	0.2980556	1.4768	1.4652	13.67521	2.27787
11:42:45	11:41:30 increased dye			1067	9.20425	0.2974145	1.4768	1.4652	13.57753	2.27256
11:42:46				1068	9.20328	0.2977343	1.4768	1.41636	13.18681	2.27521
11:42:46				1069	9.20328	0.2975751	1.4768	1.4652	13.57753	2.27392
11:42:47				1070	9.20425	0.2974145	1.4768	1.4652	14.11477	2.27256
11:42:47				1071	9.20328	0.2974145	1.4768	1.41636	13.28449	2.27262
11:42:48				1072	9.20425	0.2986956	1.4768	1.4652	13.47985	2.28293
11:42:48				1073	9.20523	0.2990156	1.4768	1.4652	13.82173	2.28546
11:42:49				1074	9.20718	0.2975751	1.5752	1.41636	14.31013	2.27367
11:42:49				1075	9.20718	0.2967736	1.4768	1.4652	12.45421	2.26718
11:42:50				1076	9.20425	0.2975751	1.4768	1.41636	13.57753	2.27386
11:42:50				1077	9.20523	0.2980556	1.4768	1.41636	13.96825	2.27769
11:42:51				1078	9.20621	0.2974145	1.4768	1.41636	13.62637	2.27243
11:42:51				1079	9.20523	0.2977343	1.4768	1.41636	13.47985	2.27508
11:42:52				1080	9.20523	0.2977343	1.4768	1.4652	13.18681	2.27508
11:42:52				1081	9.20425	0.2964541	1.4768	1.4652	13.62637	2.26478

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:53				1082	9.20328	0.2970947	1.4768	1.4652	13.57753	2.27003
11:42:53				1083	9.20328	0.2985363	1.4768	1.4652	13.38217	2.2817
11:42:54				1084	9.20425	0.2975751	1.4768	1.41636	14.01709	2.27386
11:42:55				1087	9.20572	0.2987029	1.4768	1.41636	13.18681	2.2829
11:42:56				1088	9.20572	0.2983828	1.5752	1.4652	13.04029	2.2803
11:42:56				1089	9.20669	0.2946999	1.4768	1.4652	13.33333	2.25043
11:42:57				1090	9.20474	0.2961404	1.4768	1.4652	14.55433	2.26221
11:42:57				1091	9.20279	0.2974218	1.4768	1.4652	13.82173	2.27271
11:42:58				1092	9.20474	0.2969415	1.4768	1.4652	13.28449	2.2687
11:42:58				1093	9.20474	0.2950205	1.4768	1.4652	13.67521	2.25315
11:42:59				1094	9.20181	0.295821	1.5752	1.4652	13.72405	2.25981
11:42:59				1095	9.20474	0.295821	1.4768	1.41636	13.23565	2.25963
11:43:00				1096	9.20279	0.2979022	1.4768	1.41636	13.38217	2.2766
11:43:00				1097	9.20279	0.2972626	1.4768	1.4652	13.77289	2.27142
11:43:01				1098	9.20279	0.2969415	1.4768	1.4652	14.16361	2.26882
11:43:01				1099	9.20083	0.2963009	1.4768	1.4652	13.38217	2.26376
11:43:02				1100	9.20474	0.297102	1.4768	1.4652	13.47985	2.27
11:43:02				1101	9.20474	0.2969415	1.4768	1.4652	13.62637	2.2687
11:43:03				1102	9.20376	0.2963009	1.5752	1.4652	13.23565	2.26357
11:43:03				1103	9.20279	0.2959814	1.4768	1.41636	13.18681	2.26105
11:43:04				1104	9.20181	0.2969415	1.2801	1.4652	13.43101	2.26889
11:43:04				1105	9.20181	0.2963009	1.4768	1.4652	13.62637	2.26369
11:43:05				1106	9.20279	0.2963009	1.5752	1.41636	13.38217	2.26363
11:43:05				1107	9.20083	0.2953412	1.4768	1.4652	13.43101	2.25599
11:43:06				1108	9.20181	0.2966219	1.4768	1.4652	13.87057	2.26629
11:43:06				1109	9.19888	0.2959814	1.5752	1.4652	13.18681	2.26129
11:43:07				1110	9.20181	0.2963009	1.4768	1.4652	13.23565	2.26369
11:43:07				1111	9.1979	0.2963009	1.4768	1.4652	13.18681	2.26394
11:43:08				1112	9.20083	0.295821	1.4768	1.41636	12.94261	2.25987
11:43:08				1113	9.19888	0.2961404	1.4768	1.4652	13.38217	2.26258
11:43:09				1114	9.19986	0.2982221	1.4768	1.41636	13.43101	2.27937
11:43:09				1115	9.20083	0.2964614	1.5752	1.4652	13.67521	2.26505
11:43:10				1116	9.20181	0.2967809	1.4768	1.4652	13.43101	2.26758
11:43:10				1117	9.1979	0.3015848	1.4768	1.4652	13.08913	2.30675
11:43:11				1118	9.20181	0.299023	1.4768	1.4652	13.23565	2.28574
11:43:11				1119	9.20279	0.2987029	1.5752	1.41636	13.18681	2.28308
11:43:12				1120	9.20474	0.300784	1.4768	1.41636	13.38217	2.29982
11:43:12				1121	9.20376	0.2991838	1.4768	1.4652	14.26129	2.28691
11:43:13				1122	9.20474	0.299023	1.4768	1.41636	13.43101	2.28555
11:43:13				1123	9.20181	0.2982221	1.4768	1.4652	13.23565	2.27925
11:43:14				1124	9.20181	0.2975824	1.4768	1.4652	13.62637	2.27407
11:43:14				1125	9.20083	0.2963009	1.4768	1.4652	13.23565	2.26376
11:43:15				1126	9.19693	0.2943793	1.4768	1.4652	13.47985	2.24845
11:43:15				1127	9.1979	0.2953412	1.5752	1.4652	13.67521	2.25617
11:43:16				1128	9.19693	0.2943793	1.4768	1.4652	13.91941	2.24845

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:16				1129	9.19497	0.2946999	1.4768	1.41636	13.33333	2.25116
11:43:17				1130	9.19595	0.2966219	1.4768	1.41636	13.72405	2.26666
11:43:17				1131	9.19986	0.2955001	1.4768	1.4652	14.35897	2.25734
11:43:18				1132	9.1979	0.295821	1.5752	1.4652	13.52869	2.26005
11:43:18				1133	9.19497	0.2977416	1.4768	1.4652	13.67521	2.27579
11:43:19				1134	9.19693	0.2963009	1.4768	1.4652	13.28449	2.264
11:43:19				1135	9.19888	0.2972626	1.4768	1.4652	13.72405	2.27167
11:43:20				1136	9.19693	0.2955001	1.4768	1.4652	13.77289	2.25752
11:43:20				1137	9.19595	0.2963009	1.4768	1.4652	13.72405	2.26406
11:43:21				1138	9.19888	0.2961404	1.4768	1.41636	13.13797	2.26258
11:43:21				1139	9.19888	0.2943793	1.4768	1.4652	13.52869	2.24833
11:43:22				1140	9.19888	0.2942191	1.5752	1.4652	13.72405	2.24703
11:43:22				1141	9.19693	0.2943793	1.4768	1.41636	13.13797	2.24845
11:43:23				1142	9.19693	0.2946999	1.5752	1.4652	13.43101	2.25104
11:43:23				1143	9.19693	0.2942191	1.4768	1.4652	13.28449	2.24715
11:43:24				1144	9.19497	0.2937399	1.5752	1.4652	13.04029	2.24339
11:43:24				1145	9.19497	0.2935797	1.4768	1.4652	13.87057	2.2421
11:43:25				1146	9.19497	0.2935797	1.4768	1.41636	13.72405	2.2421
11:43:25				1147	9.19497	0.2937399	1.4768	1.4652	13.38217	2.2434
11:43:26				1148	9.19497	0.2935797	1.5752	1.4652	13.18681	2.2421
11:43:26				1149	9.19204	0.2929392	1.4768	1.4652	13.43101	2.2371
11:43:27				1150	9.19302	0.2922989	1.4768	1.4652	13.33333	2.23186
11:43:27				1151	9.19497	0.292619	1.5752	1.4652	13.43101	2.23432
11:43:28				1152	9.194	0.292619	1.5752	1.4652	13.33333	2.23438
11:43:28				1153	9.19302	0.2927791	1.4768	1.4652	13.57753	2.23574
11:43:29				1154	9.19595	0.2950205	1.4768	1.41636	13.28449	2.2537
11:43:29				1155	9.194	0.2945396	1.4768	1.4652	14.55433	2.24993
11:43:30				1156	9.1979	0.2937399	1.4768	1.4652	13.77289	2.24321
11:43:30				1157	9.194	0.2940603	1.5752	1.41636	13.72405	2.24605
11:43:31				1158	9.1979	0.2937399	1.5752	1.4652	13.77289	2.24321
11:43:31				1159	9.1979	0.2950205	1.4768	1.4652	13.52869	2.25358
11:43:32				1160	9.1979	0.295821	1.4768	1.4652	13.38217	2.26005
11:43:32				1161	9.19693	0.2963009	1.4768	1.4652	13.57753	2.264
11:43:33				1162	9.19693	0.295821	1.5752	1.4652	13.52869	2.26011
11:43:33				1163	9.19986	0.2980629	1.4768	1.41636	13.13797	2.27808
11:43:34				1164	9.19986	0.299504	1.4768	1.4652	13.18681	2.28976
11:43:34				1165	9.20279	0.2985436	1.5752	1.41636	13.43101	2.28179
11:43:35				1166	9.20279	0.2979022	1.4768	1.41636	13.38217	2.2766
11:43:35				1167	9.20181	0.2982221	1.4768	1.4652	14.06593	2.27925
11:43:36				1168	9.20083	0.299023	1.5752	1.4652	13.28449	2.2858
11:43:36				1169	9.20181	0.2985436	1.4768	1.4652	13.33333	2.28185
11:43:37				1170	9.20083	0.2985436	1.4768	1.4652	12.89377	2.28192
11:43:37				1171	9.19986	0.299504	1.5752	1.4652	13.82173	2.28975
11:43:38				1172	9.20083	0.2987029	1.4768	1.41636	13.77289	2.28321
11:43:38				1173	9.20279	0.2983828	1.4768	1.41636	13.52869	2.28049

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:39				1174	9.20181	0.2980629	1.4768	1.4652	13.28449	2.27796
11:43:39				1175	9.20181	0.2983828	1.5752	1.4652	13.38217	2.28055
11:43:40				1176	9.19986	0.2977416	1.5752	1.4652	13.18681	2.27548
11:43:40				1177	9.20376	0.2972626	1.4768	1.4652	13.57753	2.27136
11:43:41				1178	9.20376	0.2993431	1.4768	1.4652	13.33333	2.28821
11:43:41				1179	9.20279	0.2987029	1.4768	1.4652	13.62637	2.28308
11:43:42				1180	9.20474	0.2975824	1.5752	1.4652	13.38217	2.27388
11:43:42				1181	9.20376	0.2972626	1.5752	1.41636	13.57753	2.27135
11:43:43				1182	9.20181	0.2961404	1.4768	1.4652	13.82173	2.26239
11:43:43				1183	9.20279	0.2953412	1.4768	1.4652	14.06593	2.25587
11:43:44				1184	9.20279	0.2948602	1.4768	1.4652	13.47985	2.25197
11:43:44				1185	9.20181	0.2946999	1.5752	1.4652	13.18681	2.25073
11:43:45				1186	9.20181	0.2980629	1.4768	1.4652	13.57753	2.27796
11:43:45				1187	9.19888	0.2945396	1.4768	1.4652	14.79853	2.24962
11:43:46				1188	9.20083	0.2943793	1.5752	1.41636	13.18681	2.2482
11:43:46				1189	9.20181	0.2945396	1.4768	1.41636	13.33333	2.24944
11:43:47				1190	9.20083	0.2946999	1.5752	1.41636	14.11477	2.25079
11:43:47				1191	9.20181	0.2942191	1.4768	1.4652	12.99145	2.24685
11:43:48				1192	9.20279	0.2940603	1.4768	1.41636	12.79609	2.2455
11:43:48				1193	9.20083	0.2935797	1.4768	1.4652	12.74725	2.24173
11:43:49				1194	9.20181	0.2937399	1.4768	1.4652	13.13797	2.24297
11:43:49				1195	9.19888	0.2934195	1.4768	1.4652	13.43101	2.24056
11:43:50				1196	9.19986	0.2956605	1.5752	1.4652	13.08913	2.25863
11:43:50				1197	9.20279	0.2943793	1.4768	1.4652	13.28449	2.24808
11:43:51				1198	9.19888	0.2942191	1.4768	1.41636	12.89377	2.24703
11:43:51				1199	9.20083	0.2975824	1.4768	1.4652	13.62637	2.27413
11:43:52				1200	9.20083	0.300784	1.4768	1.41636	13.77289	2.30007
11:43:52				1201	9.20279	0.2967809	1.6736	1.41636	13.52869	2.26751
11:43:53				1202	9.20279	0.2972626	1.4768	1.4652	13.18681	2.27142
11:43:53				1203	9.20181	0.2982221	1.4768	1.4652	13.28449	2.27925
11:43:54				1204	9.20279	0.2966219	1.5752	1.4652	13.52869	2.26623
11:43:55				1207	9.20132	0.2974145	1.4768	1.4652	13.82173	2.27274
11:43:56				1208	9.20132	0.2969342	1.5752	1.41636	13.23565	2.26885
11:43:56				1209	9.2023	0.2969342	1.5752	1.4652	13.23565	2.26879
11:43:57				1210	9.2023	0.2974145	1.4768	1.4652	13.77289	2.27268
11:43:57				1211	9.20132	0.2967736	1.4768	1.4652	12.99145	2.26755
11:43:58				1212	9.20328	0.2967736	1.5752	1.4652	13.28449	2.26743
11:43:58				1213	9.20132	0.2969342	1.4768	1.4652	13.13797	2.26885
11:43:59				1214	9.20132	0.2966131	1.4768	1.41636	14.06593	2.26625
11:43:59				1215	9.20132	0.2969342	1.5752	1.4652	13.23565	2.26885
11:44:00				1216	9.2023	0.2966131	1.4768	1.41636	13.23565	2.26619
11:44:00				1217	9.20328	0.2977343	1.4768	1.4652	13.52869	2.27521
11:44:01				1218	9.2023	0.2975736	1.5752	1.4652	13.67521	2.27396
11:44:01				1219	9.20328	0.2959726	1.5752	1.4652	13.57753	2.26094
11:44:02				1220	9.20035	0.2966131	1.4768	1.4652	13.13797	2.26631

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:02				1221	9.20132	0.2954928	1.4768	1.4652	13.52869	2.25718
11:44:03				1222	9.20132	0.2956532	1.5752	1.41636	13.87057	2.25848
11:44:03				1223	9.2023	0.2956532	1.4768	1.4652	12.89377	2.25842
11:44:04				1224	9.19937	0.2962936	1.4768	1.41636	13.33333	2.26379
11:44:04				1225	9.20328	0.2967736	1.4768	1.4652	13.82173	2.26743
11:44:05				1226	9.20328	0.2954928	1.5752	1.4652	13.33333	2.25706
11:44:05				1227	9.20132	0.2966131	1.5752	1.4652	13.33333	2.26625
11:44:06				1228	9.2023	0.2967736	1.4768	1.4652	13.67521	2.26749
11:44:06				1229	9.20035	0.2970933	1.5752	1.4652	13.57753	2.2702
11:44:07				1230	9.20035	0.2962936	1.5752	1.4652	14.01709	2.26372
11:44:07				1231	9.2023	0.2961331	1.5752	1.4652	12.94261	2.2623
11:44:08				1232	9.2023	0.2940515	1.4768	1.41636	13.28449	2.24546
11:44:08				1233	9.20328	0.2959726	1.4768	1.4652	13.57753	2.26094
11:44:09				1234	9.20132	0.2958137	1.4768	1.4652	13.72405	2.25978
11:44:09				1235	9.20035	0.2948529	1.5752	1.4652	12.99145	2.25206
11:44:10				1236	9.2023	0.2938913	1.4768	1.4652	13.23565	2.24416
11:44:10				1237	9.20328	0.2948529	1.4768	1.4652	13.52869	2.25188
11:44:11				1238	9.2023	0.2946926	1.5752	1.4652	13.91941	2.25064
11:44:11				1239	9.20328	0.2948529	1.4768	1.4652	13.43101	2.25188
11:44:12				1240	9.20328	0.2951721	1.5752	1.41636	13.18681	2.25446
11:44:12				1241	9.2023	0.2951721	1.5752	1.4652	13.38217	2.25452
11:44:13				1242	9.20035	0.2945323	1.4768	1.4652	13.38217	2.24947
11:44:13				1243	9.20328	0.2953325	1.5752	1.41636	13.28449	2.25576
11:44:14				1244	9.2023	0.2942118	1.4768	1.4652	14.65201	2.24676
11:44:14				1245	9.2023	0.2946926	1.4768	1.4652	13.72405	2.25065
11:44:15				1246	9.20035	0.2962936	1.4768	1.4652	13.52869	2.26373
11:44:15				1247	9.20035	0.2946926	1.5752	1.4652	13.28449	2.25077
11:44:16				1248	9.2023	0.2948529	1.5752	1.41636	13.08913	2.25194
11:44:16				1249	9.20132	0.2958137	1.4768	1.41636	13.91941	2.25978
11:44:17				1250	9.19937	0.2948529	1.5752	1.4652	13.38217	2.25212
11:44:17				1251	9.20132	0.2945323	1.5752	1.4652	13.52869	2.24941
11:44:18				1252	9.2023	0.2946926	1.4768	1.4652	13.62637	2.25065
11:44:18				1253	9.20035	0.2946926	1.4768	1.4652	13.62637	2.25077
11:44:19				1254	9.19937	0.294372	1.5752	1.4652	13.43101	2.24823
11:44:19				1255	9.20132	0.2951721	1.4768	1.4652	13.47985	2.25459
11:44:20				1256	9.20132	0.2982148	1.4768	1.41636	13.13797	2.27922
11:44:20				1257	9.20035	0.2969342	1.5752	1.4652	14.16361	2.26891
11:44:21				1258	9.20035	0.2964541	1.4768	1.4652	13.04029	2.26503
11:44:21				1259	9.20132	0.2972539	1.4768	1.41636	13.67521	2.27144
11:44:22				1260	9.20132	0.2959726	1.5752	1.4652	13.33333	2.26106
11:44:22				1261	9.19937	0.2956532	1.5752	1.4652	13.47985	2.2586
11:44:23				1262	9.20035	0.2958137	1.4768	1.4652	13.72405	2.25984
11:44:23				1263	9.20132	0.2945323	1.5752	1.4652	13.67521	2.24941
11:44:24				1264	9.20132	0.2953325	1.5752	1.41636	13.91941	2.25588
11:44:24				1265	9.19937	0.2948529	1.5752	1.4652	12.79609	2.25212

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:25				1266	9.20132	0.2950118	1.5752	1.4652	13.47985	2.25329
11:44:25				1267	9.20132	0.2946926	1.4768	1.4652	13.57753	2.25071
11:44:26				1268	9.19937	0.2948529	1.5752	1.4652	13.62637	2.25212
11:44:26				1269	9.19742	0.2951721	1.5752	1.4652	13.77289	2.25483
11:44:27				1270	9.20035	0.2954928	1.5752	1.4652	13.18681	2.25724
11:44:27				1271	9.19839	0.2966131	1.5752	1.4652	13.23565	2.26643
11:44:28				1272	9.20035	0.2964541	1.5752	1.41636	13.77289	2.26502
11:44:28				1273	9.20132	0.2961331	1.5752	1.4652	13.77289	2.26236
11:44:29				1274	9.19839	0.2964541	1.5752	1.4652	13.57753	2.26515
11:44:29				1275	9.19937	0.2964541	1.4768	1.41636	13.43101	2.26509
11:44:30				1276	9.20132	0.2966131	1.5752	1.4652	13.57753	2.26625
11:44:30				1277	9.2023	0.2964541	1.5752	1.51404	13.77289	2.2649
11:44:31				1278	9.19937	0.2962936	1.4768	1.4652	13.28449	2.26379
11:44:31				1279	9.19839	0.2961331	1.4768	1.4652	13.67521	2.26255
11:44:32				1280	9.19937	0.2961331	1.5752	1.41636	14.21245	2.26249
11:44:32				1281	9.19937	0.2959726	1.5752	1.41636	13.33333	2.26119
11:44:33				1282	9.19937	0.2958137	1.5752	1.4652	13.62637	2.2599
11:44:33				1283	9.19937	0.2956532	1.5752	1.4652	13.96825	2.2586
11:44:34				1284	9.20035	0.2959726	1.5752	1.4652	13.72405	2.26113
11:44:34				1285	9.19937	0.2958137	1.4768	1.4652	13.43101	2.2599
11:44:35				1286	9.20035	0.2954928	1.4768	1.4652	14.11477	2.25725
11:44:35				1287	9.19937	0.2956532	1.5752	1.4652	13.62637	2.2586
11:44:36				1288	9.19742	0.2972539	1.4768	1.41636	13.43101	2.27169
11:44:36				1289	9.20035	0.2967736	1.5752	1.4652	13.87057	2.26761
11:44:37				1290	9.19742	0.2954928	1.4768	1.4652	13.52869	2.25743
11:44:37				1291	9.19742	0.2956533	1.5752	1.41636	13.57753	2.25872
11:44:38				1292	9.19644	0.2974145	1.4768	1.4652	14.01709	2.27305
11:44:38				1293	9.19644	0.2988549	1.4768	1.4652	13.96825	2.28472
11:44:39				1294	9.19937	0.2969342	1.5752	1.4652	13.28449	2.26897
11:44:39				1295	9.19742	0.2967736	1.5752	1.4652	13.28449	2.26779
11:44:40				1296	9.19644	0.2969342	1.5752	1.41636	13.43101	2.26916
11:44:40				1297	9.19937	0.2972539	1.4768	1.4652	13.13797	2.27156
11:44:41				1298	9.19839	0.2970933	1.4768	1.4652	13.91941	2.27033
11:44:41				1299	9.19937	0.2970933	1.5752	1.41636	13.96825	2.27026
11:44:42				1300	9.19742	0.2967736	1.5752	1.4652	13.08913	2.26779
11:44:42				1301	9.19644	0.2964541	1.5752	1.4652	13.08913	2.26527
11:44:43				1302	9.19644	0.2970933	1.4768	1.4652	13.72405	2.27045
11:44:43				1303	9.19839	0.2964541	1.5752	1.4652	13.72405	2.26515
11:44:44				1304	9.19449	0.2966131	1.5752	1.41636	13.47985	2.26668
11:44:44				1305	9.19351	0.2967736	1.5752	1.4652	13.38217	2.26804
11:44:45				1306	9.19351	0.2959726	1.5752	1.4652	13.57753	2.26156
11:44:45				1307	9.19644	0.2962936	1.4768	1.41636	13.57753	2.26397
11:44:46				1308	9.19351	0.2961331	1.4768	1.4652	13.77289	2.26286
11:44:46				1309	9.19546	0.2961331	1.5752	1.4652	13.43101	2.26273
11:44:47				1310	9.19546	0.2961331	1.4768	1.4652	13.47985	2.26274

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:47				1311	9.19449	0.2964541	1.4768	1.4652	13.67521	2.2654
11:44:48				1312	9.19351	0.2982148	1.5752	1.4652	14.45665	2.27971
11:44:48				1313	9.19742	0.2964541	1.5752	1.4652	13.82173	2.26521
11:44:49				1314	9.19449	0.2967736	1.5752	1.4652	14.01709	2.26798
11:44:49				1315	9.19449	0.2950118	1.4768	1.41636	14.21245	2.25372
11:44:50				1316	9.19449	0.2982148	1.5752	1.4652	13.62637	2.27965
11:44:50				1317	9.19839	0.2962936	1.5752	1.4652	13.87057	2.26385
11:44:51				1318	9.19644	0.2969342	1.5752	1.4652	13.47985	2.26916
11:44:51				1319	9.19644	0.2970933	1.4768	1.4652	13.62637	2.27045
11:44:52				1320	9.19742	0.2964541	1.5752	1.41636	13.43101	2.26521
11:44:52				1321	9.19644	0.2959726	1.5752	1.4652	15.92186	2.26137
11:44:53				1322	9.19839	0.2964541	1.5752	1.4652	14.31013	2.26515
11:44:53				1323	9.19839	0.2961331	1.5752	1.41636	13.72405	2.26255
11:44:54				1324	9.19644	0.2951721	1.4768	1.4652	13.72405	2.25489
11:44:55				1327	9.19644	0.2943881	1.4768	1.4652	13.33333	2.24855
11:44:56				1328	9.19644	0.2961491	1.5752	1.4652	13.57753	2.2628
11:44:56				1329	9.19546	0.2975912	1.5752	1.4652	14.16361	2.27454
11:44:57				1330	9.19748	0.2950293	1.5752	1.41636	13.87057	2.25367
11:44:57				1331	9.19748	0.2967897	1.4768	1.4652	13.62637	2.26792
11:44:58				1332	9.19644	0.2998316	1.5752	1.4652	14.01709	2.29263
11:44:58				1333	9.19943	0.2971108	1.5752	1.4652	13.62637	2.2704
11:44:59				1334	9.19845	0.2974305	1.5752	1.4652	13.38217	2.27305
11:44:59				1335	9.19748	0.2961491	1.4768	1.4652	13.62637	2.26274
11:45:00				1336	9.19449	0.2993519	1.5752	1.41636	13.67521	2.28886
11:45:00				1337	9.19748	0.2969502	1.5752	1.4652	13.38217	2.26922
11:45:01				1338	9.19845	0.2972699	1.5752	1.4652	13.33333	2.27175
11:45:01				1339	9.19546	0.2935884	1.4768	1.41636	13.57753	2.24214
11:45:02				1340	9.19748	0.2966292	1.4768	1.4652	14.01709	2.26662
11:45:02				1341	9.20138	0.2955089	1.5752	1.4652	13.62637	2.25731
11:45:03				1342	9.19748	0.2950293	1.5752	1.4652	13.52869	2.25367
11:45:03				1343	9.19845	0.2950293	1.5752	1.4652	13.72405	2.25361
11:45:04				1344	9.19748	0.2947086	1.5752	1.41636	13.13797	2.25108
11:45:04				1345	9.19748	0.2947086	1.5752	1.4652	13.08913	2.25108
11:45:05				1346	9.19943	0.2974305	1.4768	1.4652	13.43101	2.27299
11:45:05				1347	9.19943	0.2999924	1.5752	1.41636	13.72405	2.29374
11:45:06				1348	9.19845	0.2963096	1.5752	1.4652	14.01709	2.26397
11:45:06				1349	9.19644	0.2967897	1.5752	1.4652	13.33333	2.26799
11:45:07				1350	9.19943	0.2977503	1.4768	1.4652	13.52869	2.27558
11:45:07				1351	9.20041	0.301434	1.4768	1.4652	13.67521	2.30536
11:45:08				1352	9.20236	0.2990317	1.5752	1.41636	13.52869	2.28577
11:45:08				1353	9.20041	0.2988709	1.5752	1.4652	13.18681	2.28459
11:45:09				1354	9.20138	0.3003128	1.4768	1.4652	13.62637	2.29621
11:45:09				1355	9.20236	0.3003128	1.5752	1.41636	13.57753	2.29615
11:45:10				1356	9.20138	0.3004723	1.5752	1.4652	14.11477	2.2975
11:45:10				1357	9.20138	0.3004723	1.4768	1.4652	13.62637	2.29751

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:11				1358	9.20236	0.3001519	1.4768	1.4652	13.47985	2.29485
11:45:11				1359	9.20041	0.3004723	1.5752	1.4652	13.67521	2.29757
11:45:12				1360	9.20138	0.2999924	1.4768	1.4652	13.43101	2.29362
11:45:12				1361	9.20334	0.3007928	1.5752	1.4652	13.04029	2.29997
11:45:13				1362	9.20334	0.2988709	1.5752	1.4652	13.43101	2.2844
11:45:13				1363	9.19943	0.2982309	1.4768	1.4652	13.52869	2.27947
11:45:14				1364	9.19748	0.2956693	1.4768	1.4652	13.47985	2.25885
11:45:14				1365	9.19748	0.2971108	1.5752	1.4652	15.43346	2.27052
11:45:15				1366	9.19644	0.2969502	1.5752	1.4652	13.82173	2.26929
11:45:15				1367	9.19546	0.2969502	1.4768	1.4652	13.62637	2.26935
11:45:16				1368	9.19644	0.2969502	1.4768	1.41636	13.82173	2.26929
11:45:16				1369	9.19253	0.2969502	1.4768	1.4652	14.01709	2.26954
11:45:17				1370	9.19546	0.2967897	1.5752	1.4652	13.62637	2.26805
11:45:17				1371	9.19253	0.2974305	1.4768	1.4652	13.82173	2.27343
11:45:18				1372	9.19253	0.2972699	1.4768	1.4652	13.82173	2.27213
11:45:18				1373	9.19253	0.2971108	1.5752	1.51404	14.21245	2.27083
11:45:19				1374	9.19546	0.2971108	1.5752	1.4652	13.72405	2.27065
11:45:19				1375	9.19351	0.2969502	1.5752	1.4652	13.47985	2.26947
11:45:20				1376	9.19546	0.2974305	1.5752	1.41636	13.62637	2.27324
11:45:20				1377	9.19058	0.2972699	1.5752	1.4652	13.43101	2.27225
11:45:21				1378	9.19449	0.2964701	1.5752	1.4652	13.23565	2.26552
11:45:21				1379	9.19351	0.2966292	1.5752	1.4652	13.33333	2.26687
11:45:22				1380	9.19546	0.2963096	1.4768	1.4652	13.57753	2.26416
11:45:22				1381	9.19351	0.2961492	1.5752	1.4652	13.96825	2.26298
11:45:23				1382	9.19449	0.2963096	1.5752	1.4652	13.72405	2.26422
11:45:23				1383	9.19351	0.2961492	1.5752	1.4652	13.67521	2.26298
11:45:24				1384	9.19351	0.2943881	1.4768	1.41636	13.77289	2.24873
11:45:24				1385	9.19253	0.2959887	1.5752	1.4652	14.35897	2.26175
11:45:25				1386	9.19351	0.2958297	1.5752	1.4652	13.47985	2.2604
11:45:25				1387	9.19351	0.2956693	1.5752	1.41636	13.43101	2.2591
11:45:26				1388	9.19351	0.2983916	1.4768	1.4652	13.57753	2.28115
11:45:26				1389	9.19644	0.2983916	1.4768	1.4652	14.01709	2.28096
11:45:27				1390	9.19156	0.297911	1.4768	1.4652	13.96825	2.27738
11:45:27				1391	9.19449	0.2980702	1.5752	1.4652	13.91941	2.27848
11:45:28				1392	9.19253	0.2980702	1.5752	1.41636	13.47985	2.2786
11:45:28				1393	9.19546	0.2974305	1.4768	1.4652	13.47985	2.27324
11:45:29				1394	9.19351	0.2969502	1.5752	1.4652	13.77289	2.26947
11:45:29				1395	9.19351	0.2969502	1.4768	1.4652	13.28449	2.26947
11:45:30				1396	9.19449	0.2971108	1.5752	1.4652	13.57753	2.27071
11:45:30	11:44:15 no flow			1397	9.19546	0.2975912	1.4768	1.4652	13.52869	2.27454
11:45:31				1398	9.19253	0.2972699	1.5752	1.4652	13.62637	2.27212
11:45:31				1399	9.19253	0.2971108	1.5752	1.4652	13.62637	2.27083
11:45:32				1400	9.19351	0.2971108	1.4768	1.41636	13.62637	2.27078
11:45:32				1401	9.19351	0.2969502	1.4768	1.4652	14.31013	2.26947
11:45:33				1402	9.19253	0.2969502	1.5752	1.4652	13.72405	2.26953

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:33				1403	9.19546	0.2969502	1.5752	1.4652	13.47985	2.26935
11:45:34				1404	9.19253	0.2987116	1.5752	1.4652	13.52869	2.2838
11:45:34				1405	9.19253	0.3011134	1.5752	1.4652	13.38217	2.30326
11:45:35				1406	9.19351	0.2971108	1.5752	1.41636	13.77289	2.27077
11:45:35				1407	9.19449	0.2971108	1.5752	1.4652	13.33333	2.27071
11:45:36				1408	9.19546	0.2967897	1.4768	1.41636	13.72405	2.26805
11:45:36				1409	9.19351	0.2966292	1.5752	1.4652	14.16361	2.26687
11:45:37				1410	9.19449	0.2964701	1.5752	1.4652	13.43101	2.26552
11:45:37				1411	9.19546	0.2966292	1.5752	1.4652	13.47985	2.26675
11:45:38				1412	9.19351	0.2964701	1.5752	1.4652	13.52869	2.26558
11:45:38				1413	9.19351	0.2961492	1.5752	1.4652	13.08913	2.26298
11:45:39				1414	9.19253	0.297911	1.4768	1.4652	13.67521	2.27732
11:45:39				1415	9.19351	0.2969502	1.5752	1.4652	14.31013	2.26947
11:45:40				1416	9.19449	0.2964701	1.5752	1.41636	13.77289	2.26552
11:45:40				1417	9.19449	0.2995113	1.4768	1.4652	13.72405	2.29016
11:45:41				1418	9.19449	0.2993519	1.5752	1.4652	13.77289	2.28886
11:45:41				1419	9.19644	0.2988709	1.5752	1.4652	13.52869	2.28484
11:45:42				1420	9.19845	0.2982309	1.5752	1.51404	13.91941	2.27953
11:45:42				1421	9.19546	0.2982309	1.5752	1.4652	13.18681	2.27972
11:45:43				1422	9.19449	0.2993519	1.5752	1.41636	13.43101	2.28886
11:45:43				1423	9.19546	0.301273	1.5752	1.4652	13.96825	2.30437
11:45:44				1424	9.20236	0.2999924	1.5752	1.41636	13.43101	2.29355
11:45:44				1425	9.20041	0.2993519	1.5752	1.4652	13.33333	2.28849
11:45:45				1426	9.19943	0.3003128	1.4768	1.4652	13.57753	2.29634
11:45:45				1427	9.20041	0.3003128	1.4768	1.4652	13.57753	2.29628
11:45:46				1428	9.19943	0.2998316	1.5752	1.4652	13.62637	2.29244
11:45:46				1429	9.19845	0.3007928	1.5752	1.4652	13.67521	2.30029
11:45:47				1430	9.19845	0.3003128	1.5752	1.4652	13.52869	2.2964
11:45:47				1431	9.20138	0.2998315	1.5752	1.4652	13.57753	2.29231
11:45:48				1432	9.20041	0.2999924	1.4768	1.41636	14.01709	2.29368
11:45:48				1433	9.20236	0.3004723	1.4768	1.4652	13.72405	2.29744
11:45:49				1434	9.19943	0.3004723	1.5752	1.4652	14.16361	2.29763
11:45:49				1435	9.19943	0.2999924	1.5752	1.4652	13.62637	2.29374
11:45:50				1436	9.19845	0.3003128	1.5752	1.4652	13.77289	2.2964
11:45:50				1437	9.19943	0.2996721	1.5752	1.4652	13.13797	2.29114
11:45:51				1438	9.19845	0.2996721	1.4768	1.4652	13.18681	2.29121
11:45:51				1439	9.19845	0.3006333	1.4768	1.4652	13.13797	2.299
11:45:52				1440	9.19748	0.3003128	1.5752	1.4652	13.57753	2.29646
11:45:52				1441	9.19748	0.2996721	1.5752	1.4652	13.13797	2.29127
11:45:53				1442	9.19748	0.2995113	1.5752	1.4652	13.52869	2.28996
11:45:53				1443	9.19748	0.2996721	1.4768	1.4652	13.72405	2.29127
11:45:54				1444	9.19748	0.2995113	1.5752	1.4652	13.47985	2.28996
11:45:55				1447	9.1962	0.2987043	1.5752	1.4652	13.52869	2.28351
11:45:56				1448	9.19717	0.2987043	1.4768	1.4652	13.72405	2.28345
11:45:56				1449	9.19522	0.2971035	1.5752	1.4652	14.06593	2.2706

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:57				1450	9.19717	0.2977445	1.5752	1.4652	13.57753	2.27567
11:45:57				1451	9.19717	0.2991852	1.5752	1.4652	13.77289	2.28734
11:45:58				1452	9.19522	0.2980644	1.5752	1.4652	13.82173	2.27839
11:45:58				1453	9.19815	0.2971035	1.5752	1.41636	13.96825	2.27042
11:45:59				1454	9.19424	0.2967839	1.4768	1.4652	13.52869	2.26808
11:45:59				1455	9.19522	0.2983843	1.4768	1.4652	13.43101	2.28098
11:46:00				1456	9.19815	0.2990244	1.5752	1.4652	13.91941	2.28598
11:46:00				1457	9.19522	0.2982236	1.5752	1.4652	13.33333	2.27968
11:46:01				1458	9.19717	0.2955016	1.5752	1.4652	13.57753	2.25751
11:46:01				1459	9.19717	0.2972641	1.4768	1.4652	13.87057	2.27179
11:46:02				1460	9.19717	0.2972641	1.4768	1.4652	14.11477	2.27179
11:46:02				1461	9.19522	0.2974232	1.5752	1.41636	13.33333	2.27319
11:46:03				1462	9.19717	0.2971035	1.4768	1.4652	13.47985	2.27048
11:46:03				1463	9.1962	0.300626	1.4768	1.4652	13.62637	2.29908
11:46:04				1464	9.19717	0.2982236	1.5752	1.4652	13.87057	2.27955
11:46:04				1465	9.1962	0.298545	1.5752	1.4652	13.28449	2.28222
11:46:05				1466	9.19327	0.2991852	1.4768	1.4652	13.72405	2.28759
11:46:05				1467	9.1962	0.2987043	1.4768	1.4652	13.91941	2.28351
11:46:06				1468	9.19717	0.2982236	1.5752	1.41636	13.67521	2.27955
11:46:06				1469	9.1962	0.2980644	1.5752	1.41636	13.38217	2.27832
11:46:07				1470	9.19522	0.2980644	1.5752	1.4652	13.33333	2.27839
11:46:07				1471	9.19522	0.2982236	1.5752	1.4652	13.33333	2.27968
11:46:08				1472	9.19717	0.2987043	1.4768	1.4652	13.67521	2.28345
11:46:08				1473	9.19522	0.2983843	1.5752	1.4652	13.82173	2.28098
11:46:09				1474	9.19522	0.2982236	1.5752	1.41636	13.77289	2.27968
11:46:09				1475	9.19229	0.2967839	1.4768	1.4652	13.38217	2.2682
11:46:10				1476	9.19522	0.2971035	1.4768	1.4652	14.11477	2.27061
11:46:10				1477	9.19229	0.2974232	1.5752	1.41636	13.77289	2.27338
11:46:11				1478	9.19327	0.2969429	1.5752	1.4652	13.57753	2.26943
11:46:11				1479	9.19424	0.2967839	1.4768	1.4652	13.82173	2.26808
11:46:12				1480	9.19522	0.2975839	1.5752	1.4652	14.06593	2.27449
11:46:12				1481	9.19717	0.2967839	1.5752	1.4652	13.67521	2.26789
11:46:13				1482	9.1962	0.2966233	1.5752	1.4652	13.28449	2.26665
11:46:13				1483	9.19424	0.2963023	1.5752	1.41636	13.33333	2.26418
11:46:14				1484	9.19424	0.2959829	1.4768	1.4652	13.33333	2.2616
11:46:14				1485	9.19424	0.2959829	1.5752	1.4652	13.96825	2.26159
11:46:15				1486	9.19717	0.2961433	1.5752	1.4652	13.57753	2.26271
11:46:15				1487	9.19522	0.2959829	1.5752	1.4652	13.47985	2.26153
11:46:16				1488	9.1962	0.2959829	1.4768	1.4652	13.57753	2.26147
11:46:16				1489	9.19522	0.2958224	1.4768	1.4652	13.67521	2.26024
11:46:17				1490	9.19717	0.2958224	1.4768	1.41636	13.43101	2.26011
11:46:17				1491	9.19815	0.2983843	1.4768	1.4652	13.72405	2.2808
11:46:18				1492	9.19815	0.2963023	1.4768	1.4652	13.87057	2.26394
11:46:18				1493	9.19717	0.2959829	1.5752	1.4652	13.18681	2.26141
11:46:19				1494	9.19913	0.2961433	1.4768	1.4652	13.52869	2.26259

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:46:19				1495	9.19815	0.2974232	1.4768	1.51404	13.52869	2.27301
11:46:20				1496	9.19717	0.2998257	1.4768	1.4652	13.67521	2.29254
11:46:20				1497	9.19815	0.3004665	1.5752	1.4652	14.50549	2.29766
11:46:21				1498	9.2001	0.2977445	1.5752	1.41636	14.40781	2.27549
11:46:21				1499	9.19717	0.2971035	1.5752	1.41636	13.96825	2.27048
11:46:22				1500	9.19717	0.2966233	1.4768	1.4652	13.82173	2.2666
11:46:22				1501	9.19717	0.2993446	1.4768	1.4652	14.06593	2.28864
11:46:23				1502	9.19815	0.2974232	1.5752	1.4652	14.01709	2.27301
11:46:23				1503	9.19815	0.2975839	1.5752	1.4652	13.52869	2.27431
11:46:24				1504	9.19522	0.2961433	1.5752	1.4652	13.52869	2.26283
11:46:24				1505	9.1962	0.2958224	1.4768	1.4652	13.62637	2.26017
11:46:25				1506	9.19717	0.2993446	1.4768	1.41636	13.67521	2.28864
11:46:25				1507	9.19522	0.2967839	1.5752	1.4652	13.91941	2.26802
11:46:26				1508	9.19522	0.2967839	1.5752	1.4652	13.47985	2.26802
11:46:26				1509	9.19913	0.2987043	1.5752	1.41636	13.33333	2.28332
11:46:27				1510	9.2001	0.2967839	1.4768	1.4652	13.96825	2.26771
11:46:27				1511	9.1962	0.2980644	1.5752	1.4652	13.28449	2.27832
11:46:28				1512	9.19815	0.2971035	1.5752	1.41636	13.38217	2.27042
11:46:28				1513	9.19717	0.2966233	1.5752	1.4652	13.43101	2.26659
11:46:29				1514	9.19717	0.2969429	1.4768	1.41636	13.57753	2.26918
11:46:29				1515	9.19913	0.2974232	1.5752	1.4652	14.01709	2.27295
11:46:30				1516	9.19815	0.2963023	1.5752	1.4652	13.72405	2.26393
11:46:30				1517	9.19717	0.2958224	1.5752	1.4652	13.47985	2.26011
11:46:31				1518	9.19913	0.300146	1.5752	1.4652	13.62637	2.295
11:46:31				1519	9.2001	0.2979037	1.4768	1.4652	13.91941	2.27678
11:46:32				1520	9.19913	0.2977445	1.5752	1.4652	13.62637	2.27555
11:46:32				1521	9.20205	0.2987043	1.5752	1.4652	13.38217	2.28314
11:46:33				1522	9.20303	0.298545	1.5752	1.41636	13.62637	2.28178
11:46:33				1523	9.20303	0.2977445	1.4768	1.4652	13.52869	2.2753
11:46:34				1524	9.20205	0.2982236	1.5752	1.4652	13.77289	2.27924
11:46:34				1525	9.20205	0.2974232	1.5752	1.4652	15.43346	2.27276
11:46:35				1526	9.2001	0.2974232	1.5752	1.51404	13.87057	2.27289
11:46:35				1527	9.19815	0.2974232	1.4768	1.4652	13.62637	2.27301
11:46:36				1528	9.19815	0.2974232	1.5752	1.4652	13.62637	2.27301
11:46:36				1529	9.2001	0.2975839	1.5752	1.4652	13.57753	2.27419
11:46:37				1530	9.20108	0.2974232	1.5752	1.4652	13.13797	2.27282
11:46:37				1531	9.20108	0.2980644	1.5752	1.4652	13.47985	2.27802
11:46:38				1532	9.20205	0.2987043	1.5752	1.4652	13.04029	2.28314
11:46:38				1533	9.20108	0.2969429	1.5752	1.4652	13.87057	2.26893
11:46:39				1534	9.20205	0.2969429	1.5752	1.4652	13.28449	2.26887
11:46:39				1535	9.20108	0.2959829	1.5752	1.41636	13.47985	2.26116
11:46:40				1536	9.20205	0.2955016	1.4768	1.4652	14.89621	2.25721
11:46:40				1537	9.19913	0.2966233	1.5752	1.4652	13.77289	2.26647
11:46:41				1538	9.20205	0.2963023	1.4768	1.41636	13.33333	2.26369
11:46:41				1539	9.19913	0.294222	1.5752	1.4652	14.01709	2.24703

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:46:42				1540	9.2001	0.2947013	1.4768	1.4652	13.67521	2.25086
11:46:42				1541	9.19815	0.2948616	1.5752	1.4652	14.06593	2.25227
11:46:43				1542	9.19913	0.295662	1.4768	1.4652	13.38217	2.25869
11:46:43				1543	9.20108	0.2963023	1.5752	1.4652	14.31013	2.26375
11:46:44				1544	9.20108	0.2955016	1.5752	1.4652	13.38217	2.25727
11:46:44				1545	9.2001	0.2958224	1.4768	1.4652	13.77289	2.25993
11:46:45				1546	9.20108	0.2959829	1.5752	1.4652	14.06593	2.26116
11:46:45				1547	9.19717	0.2959829	1.4768	1.4652	13.57753	2.26141
11:46:46				1548	9.19717	0.2940617	1.5752	1.4652	13.57753	2.24586
11:46:46				1549	9.19717	0.2953427	1.5752	1.4652	13.87057	2.25623
11:46:47				1550	9.19717	0.2955016	1.5752	1.4652	13.82173	2.25751
11:46:47				1551	9.19913	0.295022	1.5752	1.41636	13.38217	2.25351
11:46:48				1552	9.19717	0.2947013	1.5752	1.4652	13.28449	2.25104
11:46:48				1553	9.19522	0.2948616	1.5752	1.4652	13.28449	2.25245
11:46:49				1554	9.19815	0.2947013	1.4768	1.4652	13.62637	2.25098
11:46:49				1555	9.19815	0.2948616	1.5752	1.51404	13.43101	2.25227
11:46:50				1556	9.19815	0.2947013	1.5752	1.4652	13.18681	2.25097
11:46:50				1557	9.19717	0.2947013	1.5752	1.4652	13.28449	2.25104
11:46:51				1558	9.19815	0.295022	1.5752	1.41636	13.57753	2.25357
11:46:51				1559	9.19717	0.2947013	1.5752	1.41636	13.87057	2.25104
11:46:52				1560	9.1962	0.2947013	1.5752	1.4652	15.14042	2.2511
11:46:52				1561	9.19717	0.2947013	1.5752	1.4652	13.23565	2.25104
11:46:53				1562	9.19717	0.2947013	1.5752	1.4652	13.43101	2.25104
11:46:53				1563	9.1962	0.294541	1.5752	1.4652	13.77289	2.2498
11:46:54				1564	9.19717	0.295662	1.4768	1.4652	13.28449	2.25881
11:46:55				1567	9.19485	0.2948558	1.5752	1.41636	13.57753	2.25243
11:46:56				1568	9.19583	0.2935753	1.5752	1.4652	13.43101	2.24201
11:46:56				1569	9.19485	0.2940545	1.5752	1.4652	15.04274	2.24595
11:46:57				1570	9.1929	0.2943749	1.5752	1.4652	13.96825	2.24866
11:46:57				1571	9.1929	0.2942147	1.4768	1.4652	13.91941	2.24737
11:46:58				1572	9.19388	0.2945352	1.4768	1.4652	13.77289	2.2499
11:46:58				1573	9.19388	0.2940545	1.5752	1.41636	14.01709	2.24601
11:46:59				1574	9.1929	0.2937355	1.5752	1.4652	13.67521	2.24349
11:46:59				1575	9.19681	0.2938957	1.5752	1.4652	13.33333	2.24454
11:47:00				1576	9.19583	0.2934152	1.4768	1.4652	13.57753	2.24072
11:47:00				1577	9.19485	0.2945352	1.5752	1.4652	14.40781	2.24984
11:47:01				1578	9.19485	0.2938957	1.5752	1.4652	14.01709	2.24466
11:47:01				1579	9.19388	0.2935753	1.5752	1.4652	13.33333	2.24213
11:47:02				1580	9.19583	0.2930949	1.4768	1.41636	13.33333	2.23812
11:47:02				1581	9.19485	0.2929348	1.4768	1.4652	13.62637	2.23689
11:47:03				1582	9.19778	0.2935753	1.5752	1.4652	14.21245	2.24189
11:47:03				1583	9.19485	0.2935753	1.5752	1.41636	13.38217	2.24207
11:47:04				1584	9.19485	0.2934152	1.4768	1.51404	13.47985	2.24078
11:47:04				1585	9.19681	0.293255	1.4768	1.4652	14.01709	2.23936
11:47:05				1586	9.19485	0.2937355	1.4768	1.4652	13.57753	2.24337

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:05				1587	9.19583	0.293255	1.5752	1.4652	13.33333	2.23942
11:47:06				1588	9.19485	0.2935753	1.5752	1.41636	13.47985	2.24207
11:47:06				1589	9.19583	0.2935753	1.5752	1.4652	13.52869	2.24201
11:47:07				1590	9.19681	0.2935753	1.5752	1.4652	13.47985	2.24195
11:47:07				1591	9.19388	0.293255	1.5752	1.4652	13.43101	2.23954
11:47:08				1592	9.19485	0.295977	1.5752	1.51404	13.13797	2.26151
11:47:08				1593	9.19388	0.2946955	1.5752	1.41636	13.91941	2.25119
11:47:09				1594	9.19583	0.2953354	1.4768	1.4652	14.11477	2.25625
11:47:09				1595	9.19485	0.2954958	1.4768	1.4652	13.04029	2.25761
11:47:10				1596	9.19388	0.2946955	1.5752	1.41636	13.47985	2.25119
11:47:10				1597	9.19583	0.2940545	1.5752	1.4652	13.62637	2.24588
11:47:11				1598	9.19485	0.2940545	1.5752	1.4652	14.11477	2.24595
11:47:11				1599	9.19388	0.2983785	1.4768	1.4652	13.18681	2.28102
11:47:12				1600	9.19583	0.2940545	1.5752	1.4652	14.11477	2.24588
11:47:12				1601	9.19388	0.2940545	1.5752	1.4652	13.43101	2.24601
11:47:13				1602	9.19388	0.2940545	1.5752	1.41636	13.47985	2.24601
11:47:13				1603	9.19583	0.2940545	1.5752	1.4652	13.87057	2.24588
11:47:14				1604	9.19388	0.2942147	1.5752	1.4652	13.77289	2.2473
11:47:14				1605	9.19583	0.2940545	1.5752	1.4652	13.38217	2.24588
11:47:15				1606	9.19388	0.2969371	1.5752	1.4652	13.43101	2.26934
11:47:15				1607	9.19583	0.2940545	1.5752	1.4652	14.45665	2.24588
11:47:16				1608	9.19192	0.2942147	1.5752	1.4652	13.38217	2.24743
11:47:16				1609	9.19485	0.293255	1.5752	1.41636	14.01709	2.23948
11:47:17				1610	9.19681	0.2970977	1.5752	1.4652	13.77289	2.27046
11:47:17				1611	9.19681	0.295977	1.5752	1.4652	14.31013	2.26138
11:47:18				1612	9.19778	0.2966175	1.5752	1.41636	13.72405	2.26651
11:47:18				1613	9.19778	0.2951765	1.5752	1.4652	13.67521	2.25484
11:47:19				1614	9.19778	0.2943749	1.5752	1.4652	13.04029	2.24836
11:47:19				1615	9.19485	0.2982178	1.5752	1.4652	13.43101	2.27965
11:47:20				1616	9.19485	0.2962965	1.5752	1.4652	14.16361	2.26409
11:47:20				1617	9.19485	0.2951765	1.5752	1.41636	13.67521	2.25503
11:47:21				1618	9.19778	0.296136	1.5752	1.4652	13.67521	2.26261
11:47:21				1619	9.19876	0.2950161	1.5752	1.4652	14.16361	2.25348
11:47:22				1620	9.19681	0.2946955	1.4768	1.4652	13.47985	2.25101
11:47:22				1621	9.19681	0.3007796	1.4768	1.4652	13.57753	2.30029
11:47:23				1622	9.1929	0.2954958	1.5752	1.4652	13.77289	2.25773
11:47:23				1623	9.19583	0.2956562	1.5752	1.4652	13.43101	2.25885
11:47:24				1624	9.19583	0.2953354	1.4768	1.4652	13.57753	2.25625
11:47:24				1625	9.19485	0.2950161	1.5752	1.41636	14.35897	2.25373
11:47:25				1626	9.19388	0.2950161	1.5752	1.4652	13.67521	2.25379
11:47:25				1627	9.19681	0.2953354	1.5752	1.51404	13.33333	2.25619
11:47:26				1628	9.19681	0.2967766	1.5752	1.4652	13.04029	2.26786
11:47:26				1629	9.19388	0.295977	1.5752	1.4652	14.11477	2.26157
11:47:27				1630	9.19974	0.2956562	1.4768	1.4652	13.43101	2.25861
11:47:27				1631	9.19974	0.2954958	1.5752	1.4652	13.23565	2.2573

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:28				1632	9.19485	0.2954958	1.5752	1.4652	12.99145	2.25761
11:47:28				1633	9.19778	0.2954958	1.5752	1.4652	14.11477	2.25743
11:47:29				1634	9.19778	0.2954958	1.5752	1.4652	13.82173	2.25743
11:47:29				1635	9.19876	0.2954958	1.5752	1.4652	13.52869	2.25737
11:47:30				1636	9.19876	0.2962965	1.5752	1.4652	13.23565	2.26385
11:47:30				1637	9.19974	0.2977372	1.4768	1.4652	13.67521	2.27545
11:47:31				1638	9.19974	0.2986985	1.5752	1.41636	14.55433	2.28324
11:47:31				1639	9.19974	0.296457	1.5752	1.4652	13.23565	2.26508
11:47:32				1640	9.19974	0.2974174	1.5752	1.4652	12.89377	2.27286
11:47:32				1641	9.19681	0.2962965	1.4768	1.41636	13.62637	2.26397
11:47:33				1642	9.19876	0.2998198	1.5752	1.4652	13.43101	2.29238
11:47:33				1643	9.19876	0.296457	1.5752	1.4652	14.01709	2.26515
11:47:34				1644	9.20071	0.296457	1.5752	1.4652	13.77289	2.26502
11:47:34				1645	9.19974	0.2958166	1.5752	1.4652	13.67521	2.2599
11:47:35				1646	9.19778	0.2958166	1.4768	1.41636	13.43101	2.26003
11:47:35				1647	9.19583	0.2958166	1.5752	1.4652	13.18681	2.26015
11:47:36				1648	9.19876	0.2956562	1.5752	1.4652	13.33333	2.25866
11:47:36				1649	9.19974	0.2956562	1.5752	1.4652	13.57753	2.2586
11:47:37				1650	9.19681	0.296457	1.5752	1.4652	13.57753	2.26527
11:47:37				1651	9.19876	0.2962965	1.5752	1.4652	13.72405	2.26385
11:47:38				1652	9.19974	0.295977	1.5752	1.4652	13.38217	2.2612
11:47:38				1653	9.20169	0.296136	1.5752	1.4652	13.57753	2.26236
11:47:39				1654	9.19974	0.2969371	1.5752	1.41636	13.82173	2.26897
11:47:39				1655	9.19681	0.2967766	1.5752	1.4652	14.26129	2.26786
11:47:40				1656	9.19876	0.2970977	1.4768	1.4652	13.43101	2.27034
11:47:40	11:46:25 flow starts			1657	9.19583	0.3014208	1.5752	1.4652	13.23565	2.30555
11:47:41				1658	9.19974	0.3014208	1.5752	1.4652	13.96825	2.3053
11:47:41				1659	9.19778	0.2998199	1.5752	1.41636	13.52869	2.29245
11:47:42				1660	9.19876	0.297578	1.5752	1.4652	13.43101	2.27422
11:47:42				1661	9.19876	0.3027012	1.4768	1.4652	13.47985	2.31574
11:47:43				1662	9.19876	0.3006201	1.5752	1.4652	13.57753	2.29887
11:47:43				1663	9.19876	0.3004591	1.5752	1.4652	13.18681	2.29756
11:47:44				1664	9.19778	0.3011002	1.4768	1.4652	13.52869	2.30283
11:47:44				1665	9.19876	0.3015805	1.5752	1.4652	13.87057	2.30665
11:47:45				1666	9.19876	0.3006201	1.5752	1.4652	13.33333	2.29887
11:47:45				1667	9.19974	0.3009406	1.5752	1.41636	13.38217	2.3014
11:47:46				1668	9.19876	0.2994996	1.4768	1.4652	13.57753	2.28979
11:47:46				1669	9.19876	0.3017401	1.4768	1.4652	14.26129	2.30795
11:47:47				1670	9.19681	0.3012598	1.5752	1.41636	14.45665	2.30418
11:47:47				1671	9.19681	0.3001402	1.5752	1.4652	13.72405	2.2951
11:47:48				1672	9.19485	0.2998199	1.5752	1.4652	13.67521	2.29263
11:47:48				1673	9.19388	0.3007796	1.5752	1.41636	13.72405	2.30047
11:47:49				1674	9.19583	0.2999793	1.5752	1.4652	13.52869	2.29386
11:47:49				1675	9.19388	0.3001402	1.5752	1.41636	13.28449	2.29529
11:47:50				1676	9.19778	0.3006201	1.5752	1.4652	13.18681	2.29893

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:50				1677	9.19485	0.2983785	1.4768	1.4652	13.82173	2.28096
11:47:51				1678	9.19388	0.2982178	1.5752	1.4652	13.23565	2.27971
11:47:51				1679	9.19192	0.2998199	1.5752	1.4652	13.72405	2.29282
11:47:52				1680	9.19388	0.2985377	1.5752	1.41636	14.55433	2.28231
11:47:52				1681	9.19388	0.2986985	1.5752	1.4652	13.38217	2.28361
11:47:53				1682	9.19192	0.2993387	1.5752	1.4652	13.87057	2.28892
11:47:53				1683	9.19192	0.2990186	1.5752	1.41636	14.16361	2.28633
11:47:54				1684	9.19485	0.2988593	1.5752	1.4652	13.57753	2.28485
11:47:55				1687	9.18979	0.2983756	1.5752	1.4652	13.62637	2.28125
11:47:56				1688	9.18979	0.2983756	1.5752	1.4652	13.72405	2.28125
11:47:56				1689	9.19174	0.2983756	1.5752	1.4652	13.38217	2.28113
11:47:57				1690	9.19272	0.2975736	1.5752	1.4652	13.91941	2.27457
11:47:57				1691	9.19272	0.2967736	1.5752	1.4652	13.57753	2.26809
11:47:58				1692	9.19565	0.2977343	1.4768	1.4652	13.52869	2.27569
11:47:58				1693	9.19174	0.3002967	1.5752	1.4652	14.26129	2.2967
11:47:59				1694	9.18979	0.3009363	1.5752	1.4652	14.74969	2.302
11:47:59				1695	9.19272	0.2983756	1.5752	1.4652	14.11477	2.28107
11:48:00				1696	9.19076	0.2978949	1.5752	1.41636	13.33333	2.2773
11:48:00				1697	9.19076	0.2982148	1.4768	1.4652	13.43101	2.27989
11:48:01				1698	9.19272	0.3026983	1.5752	1.4652	13.96825	2.3161
11:48:01				1699	9.19272	0.2990157	1.5752	1.4652	13.82173	2.28625
11:48:02				1700	9.19076	0.299175	1.5752	1.4652	13.23565	2.28767
11:48:02				1701	9.19076	0.2982148	1.5752	1.4652	13.52869	2.27989
11:48:03				1702	9.19076	0.2983756	1.5752	1.4652	13.38217	2.28119
11:48:03				1703	9.19076	0.2986956	1.6736	1.4652	14.06593	2.28378
11:48:04				1704	9.19076	0.2985348	1.6736	1.41636	13.52869	2.28248
11:48:04				1705	9.19076	0.2970933	1.5752	1.4652	13.77289	2.2708
11:48:05				1706	9.19174	0.2985348	1.5752	1.51404	14.01709	2.28242
11:48:05				1707	9.19076	0.2982148	1.5752	1.4652	13.72405	2.27989
11:48:06				1708	9.18979	0.2977343	1.6736	1.4652	13.67521	2.27605
11:48:06				1709	9.18881	0.2975736	1.5752	1.41636	13.62637	2.27482
11:48:07				1710	9.18979	0.3004562	1.5752	1.4652	13.91941	2.29811
11:48:07				1711	9.18783	0.2996561	1.5752	1.4652	15.28694	2.29175
11:48:08				1712	9.18979	0.2990157	1.6736	1.41636	14.16361	2.28643
11:48:08				1713	9.18783	0.2978949	1.5752	1.4652	13.57753	2.27748
11:48:09				1714	9.19174	0.2988549	1.5752	1.4652	13.04029	2.28501
11:48:09				1715	9.19076	0.2988549	1.6736	1.4652	13.13797	2.28507
11:48:10				1716	9.18881	0.2990157	1.5752	1.4652	13.62637	2.2865
11:48:10				1717	9.18783	0.2988549	1.6736	1.41636	14.65201	2.28526
11:48:11				1718	9.18686	0.2980542	1.5752	1.4652	13.91941	2.27883
11:48:11				1719	9.18783	0.2980542	1.5752	1.4652	13.62637	2.27877
11:48:12				1720	9.18979	0.3001358	1.5752	1.4652	13.96825	2.29552
11:48:12				1721	9.18783	0.2993358	1.6736	1.4652	14.35897	2.28915
11:48:13				1722	9.18783	0.299175	1.6736	1.4652	13.38217	2.28785
11:48:13				1723	9.18686	0.2986956	1.5752	1.4652	13.96825	2.28403

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:48:14				1724	9.18783	0.2993358	1.5752	1.4652	13.72405	2.28916
11:48:14				1725	9.18783	0.2994952	1.5752	1.41636	13.82173	2.29045
11:48:15				1726	9.18881	0.2993358	1.5752	1.4652	13.72405	2.28909
11:48:15				1727	9.18783	0.2996561	1.5752	1.4652	13.43101	2.29175
11:48:16				1728	9.18881	0.2994952	1.5752	1.4652	13.77289	2.29039
11:48:16				1729	9.19076	0.2988549	1.5752	1.4652	14.01709	2.28507
11:48:17				1730	9.18783	0.2988549	1.6736	1.4652	13.33333	2.28526
11:48:17				1731	9.19174	0.3015775	1.5752	1.41636	13.57753	2.30708
11:48:18				1732	9.19076	0.3001358	1.5752	1.4652	14.06593	2.29545
11:48:18				1733	9.19076	0.2983756	1.6736	1.41636	13.62637	2.28119
11:48:19				1734	9.19272	0.2988549	1.5752	1.4652	13.91941	2.28495
11:48:19				1735	9.19272	0.3014165	1.5752	1.4652	13.62637	2.30571
11:48:20				1736	9.19076	0.3009363	1.5752	1.4652	13.57753	2.30194
11:48:20				1737	9.19369	0.299175	1.6736	1.4652	13.43101	2.28748
11:48:21				1738	9.19369	0.2998155	1.6736	1.41636	13.43101	2.29267
11:48:21				1739	9.19467	0.3004562	1.5752	1.4652	14.16361	2.2978
11:48:22				1740	9.19369	0.3002967	1.5752	1.4652	14.01709	2.29657
11:48:22				1741	9.19174	0.2999764	1.5752	1.41636	13.47985	2.2941
11:48:23				1742	9.19369	0.2999764	1.6736	1.4652	13.28449	2.29397
11:48:23				1743	9.19272	0.2994952	1.5752	1.51404	14.16361	2.29014
11:48:24				1744	9.19174	0.2988549	1.5752	1.4652	13.72405	2.28501
11:48:24				1745	9.19076	0.3018968	1.5752	1.4652	13.91941	2.30973
11:48:25				1746	9.19565	0.2999764	1.6736	1.41636	14.06593	2.29385
11:48:25				1747	9.19662	0.2996561	1.6736	1.4652	13.33333	2.29119
11:48:26				1748	9.19565	0.2996561	1.5752	1.4652	13.72405	2.29125
11:48:26				1749	9.19467	0.3007767	1.5752	1.4652	13.87057	2.3004
11:48:27				1750	9.19369	0.3015775	1.5752	1.4652	14.16361	2.30695
11:48:27				1751	9.19662	0.3006172	1.6736	1.4652	14.31013	2.29898
11:48:28				1752	9.19369	0.3004562	1.6736	1.41636	13.77289	2.29786
11:48:28				1753	9.19272	0.3014165	1.5752	1.4652	13.67521	2.30571
11:48:29				1754	9.19272	0.3018968	1.5752	1.41636	14.31013	2.3096
11:48:29				1755	9.19467	0.3015775	1.6736	1.4652	13.82173	2.30689
11:48:30				1756	9.19565	0.3012569	1.6736	1.4652	13.47985	2.30422
11:48:30				1757	9.19369	0.3012569	1.5752	1.4652	13.38217	2.30435
11:48:31				1758	9.19369	0.3022176	1.5752	1.4652	13.33333	2.31214
11:48:31				1759	9.19467	0.3018968	1.5752	1.41636	14.35897	2.30948
11:48:32				1760	9.19467	0.3014165	1.6736	1.4652	14.06593	2.30558
11:48:32				1761	9.19369	0.3018968	1.5752	1.4652	13.57753	2.30954
11:48:33				1762	9.19565	0.3018968	1.6736	1.4652	13.82173	2.30941
11:48:33				1763	9.19955	0.3017372	1.6736	1.4652	13.47985	2.30787
11:48:34				1764	9.19858	0.3017372	1.5752	1.4652	12.94261	2.30793
11:48:34				1765	9.1976	0.303179	1.5752	1.4652	13.67521	2.31969
11:48:35				1766	9.19662	0.3020579	1.6736	1.4652	13.77289	2.31066
11:48:35				1767	9.19662	0.3018968	1.5752	1.41636	13.38217	2.30935
11:48:36				1768	9.19565	0.3025385	1.5752	1.4652	13.38217	2.31462

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:48:36				1769	9.19662	0.3020579	1.5752	1.4652	13.82173	2.31066
11:48:37				1770	9.19662	0.3022176	1.6736	1.4652	13.62637	2.31195
11:48:37				1771	9.1976	0.3018968	1.5752	1.4652	13.23565	2.30929
11:48:38				1772	9.19955	0.3014164	1.6736	1.51404	13.38217	2.30527
11:48:38				1773	9.19858	0.3007767	1.5752	1.4652	13.43101	2.30015
11:48:39				1774	9.19565	0.3009363	1.5752	1.4652	13.43101	2.30163
11:48:39				1775	9.19369	0.3012569	1.5752	1.41636	13.82173	2.30435
11:48:40				1776	9.19662	0.3014164	1.5752	1.4652	14.26129	2.30546
11:48:40				1777	9.19662	0.3002967	1.6736	1.4652	13.77289	2.29638
11:48:41				1778	9.19369	0.2990157	1.5752	1.4652	13.82173	2.28619
11:48:41				1779	9.19369	0.2996561	1.5752	1.4652	13.52869	2.29138
11:48:42				1780	9.19467	0.2994952	1.5752	1.4652	14.70085	2.29001
11:48:42				1781	9.19272	0.2988549	1.6736	1.41636	13.57753	2.28495
11:48:43				1782	9.19662	0.2983756	1.6736	1.4652	13.91941	2.28081
11:48:43				1783	9.19272	0.2982148	1.5752	1.41636	14.01709	2.27976
11:48:44				1784	9.19565	0.2982148	1.5752	1.4652	12.99145	2.27958
11:48:44				1785	9.19662	0.2982148	1.5752	1.51404	13.67521	2.27952
11:48:45				1786	9.19076	0.2982148	1.6736	1.4652	14.55433	2.27988
11:48:45				1787	9.19174	0.2978949	1.6736	1.4652	13.28449	2.27723
11:48:46				1788	9.19369	0.2978949	1.5752	1.41636	13.43101	2.27711
11:48:46				1789	9.19272	0.2982148	1.5752	1.4652	13.82173	2.27976
11:48:47				1790	9.19272	0.299175	1.5752	1.4652	14.26129	2.28754
11:48:47				1791	9.19272	0.2980542	1.6736	1.4652	14.99389	2.27846
11:48:48				1792	9.19174	0.2983756	1.6736	1.4652	13.96825	2.28112
11:48:48				1793	9.19369	0.2982148	1.6736	1.4652	14.16361	2.2797
11:48:49				1794	9.19174	0.2978949	1.5752	1.4652	13.77289	2.27723
11:48:49				1795	9.19369	0.2980541	1.5752	1.4652	13.52869	2.2784
11:48:50				1796	9.19467	0.3015775	1.5752	1.41636	13.23565	2.30689
11:48:50				1797	9.19467	0.2994952	1.6736	1.4652	13.52869	2.29001
11:48:51				1798	9.19272	0.2994952	1.6736	1.4652	13.38217	2.29013
11:48:51				1799	9.19662	0.2999764	1.5752	1.4652	13.33333	2.29379
11:48:52				1800	9.19467	0.3041397	1.5752	1.51404	13.43101	2.32767
11:48:52				1801	9.20151	0.302858	1.5752	1.4652	13.33333	2.31683
11:48:53				1802	9.20053	0.3030178	1.6736	1.41636	13.28449	2.31819
11:48:53				1803	9.20151	0.3022176	1.5752	1.4652	13.43101	2.31164
11:48:54				1804	9.19858	0.3041397	1.5752	1.4652	13.82173	2.32742
11:48:55				1807	9.19735	0.3019085	1.5752	1.4652	13.72405	2.3094
11:48:56				1808	9.19833	0.3019085	1.5752	1.4652	13.72405	2.30934
11:48:56				1809	9.19735	0.3023876	1.6736	1.41636	13.72405	2.31328
11:48:57				1810	9.19931	0.3020682	1.6736	1.4652	13.52869	2.31057
11:48:57				1811	9.19833	0.3023876	1.5752	1.4652	13.43101	2.31322
11:48:58				1812	9.19833	0.3033491	1.5752	1.4652	13.91941	2.32102
11:48:58				1813	9.1954	0.3025488	1.6736	1.4652	14.06593	2.31471
11:48:59				1814	9.19833	0.3023876	1.6736	1.4652	13.47985	2.31322
11:48:59				1815	9.19833	0.3019085	1.5752	1.4652	13.43101	2.30934

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:00				1816	9.20028	0.3006274	1.5752	1.4652	13.72405	2.29883
11:49:00				1817	9.19735	0.3006274	1.5752	1.41636	13.87057	2.29902
11:49:01				1818	9.20028	0.2995054	1.5752	1.4652	13.28449	2.28974
11:49:01				1819	9.19931	0.3023876	1.5752	1.4652	13.57753	2.31316
11:49:02				1820	9.19833	0.3014282	1.6736	1.4652	14.26129	2.30544
11:49:02				1821	9.20224	0.300146	1.6736	1.4652	13.23565	2.2948
11:49:03				1822	9.19735	0.3004665	1.6736	1.41636	13.43101	2.29771
11:49:03				1823	9.19931	0.3020682	1.5752	1.4652	13.43101	2.31057
11:49:04				1824	9.19735	0.3017474	1.5752	1.4652	13.82173	2.3081
11:49:04				1825	9.20224	0.3012671	1.6736	1.4652	12.84493	2.30389
11:49:05				1826	9.19735	0.3014282	1.6736	1.51404	13.43101	2.3055
11:49:05				1827	9.19833	0.3017474	1.5752	1.4652	13.67521	2.30803
11:49:06				1828	9.19442	0.3014282	1.5752	1.4652	13.62637	2.3057
11:49:06				1829	9.19833	0.2966233	1.6736	1.4652	13.72405	2.26652
11:49:07				1830	9.1954	0.300307	1.5752	1.41636	13.82173	2.29654
11:49:07				1831	9.19735	0.2999866	1.6736	1.4652	13.38217	2.29382
11:49:08				1832	9.19833	0.2991852	1.5752	1.4652	13.77289	2.28727
11:49:08				1833	9.19735	0.3012671	1.5752	1.4652	13.96825	2.3042
11:49:09				1834	9.19638	0.2996663	1.6736	1.4652	13.82173	2.29129
11:49:09				1835	9.19638	0.2993461	1.5752	1.41636	13.72405	2.2887
11:49:10				1836	9.19931	0.300146	1.5752	1.4652	13.67521	2.29499
11:49:10				1837	9.19833	0.300307	1.5752	1.4652	14.40781	2.29636
11:49:11				1838	9.19735	0.2998257	1.6736	1.41636	13.87057	2.29252
11:49:11				1839	9.20028	0.300146	1.6736	1.4652	13.77289	2.29493
11:49:12				1840	9.19735	0.300146	1.5752	1.51404	13.87057	2.29512
11:49:12				1841	9.19735	0.2999866	1.5752	1.4652	13.43101	2.29382
11:49:13				1842	9.19638	0.3009465	1.6736	1.4652	14.45665	2.30166
11:49:13				1843	9.1954	0.2998257	1.5752	1.41636	14.16361	2.29264
11:49:14				1844	9.19735	0.2999866	1.5752	1.4652	13.33333	2.29382
11:49:14				1845	9.20028	0.300787	1.5752	1.4652	13.67521	2.30012
11:49:15				1846	9.19735	0.2996663	1.5752	1.4652	13.91941	2.29123
11:49:15				1847	9.19931	0.2998257	1.5752	1.4652	13.52869	2.2924
11:49:16				1848	9.20028	0.3031893	1.5752	1.4652	13.38217	2.3196
11:49:16				1849	9.19931	0.300307	1.6736	1.4652	14.16361	2.29629
11:49:17				1850	9.20028	0.300307	1.5752	1.4652	13.13797	2.29623
11:49:17				1851	9.19833	0.3009465	1.5752	1.41636	13.57753	2.30154
11:49:18				1852	9.19931	0.3022279	1.5752	1.4652	13.52869	2.31186
11:49:18				1853	9.20028	0.3014282	1.6736	1.4652	13.62637	2.30532
11:49:19				1854	9.19833	0.3012671	1.6736	1.4652	13.18681	2.30414
11:49:19				1855	9.20028	0.3017474	1.5752	1.4652	13.77289	2.30791
11:49:20				1856	9.20028	0.3015878	1.5752	1.41636	13.23565	2.30661
11:49:20				1857	9.20126	0.3012671	1.6736	1.4652	13.38217	2.30395
11:49:21				1858	9.20126	0.300787	1.5752	1.4652	13.57753	2.30006
11:49:21				1859	9.20028	0.3009465	1.6736	1.4652	13.72405	2.30141
11:49:22				1860	9.20028	0.300787	1.6736	1.4652	13.52869	2.30012

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:22				1861	9.20224	0.3004665	1.6736	1.4652	13.18681	2.2974
11:49:23				1862	9.19931	0.3009465	1.5752	1.4652	13.91941	2.30148
11:49:23				1863	9.19931	0.300146	1.6736	1.4652	13.67521	2.29499
11:49:24				1864	9.20028	0.2999866	1.5752	1.41636	13.72405	2.29364
11:49:24				1865	9.19833	0.3004665	1.5752	1.4652	13.57753	2.29765
11:49:25				1866	9.20028	0.300787	1.5752	1.4652	13.47985	2.30012
11:49:25				1867	9.19638	0.300307	1.5752	1.4652	13.67521	2.29648
11:49:26				1868	9.19638	0.300787	1.5752	1.4652	13.47985	2.30037
11:49:26				1869	9.20028	0.3011075	1.6736	1.4652	13.72405	2.30272
11:49:27				1870	9.19638	0.3009465	1.5752	1.4652	13.77289	2.30167
11:49:27				1871	9.19833	0.3011075	1.5752	1.4652	14.01709	2.30285
11:49:28				1872	9.19931	0.3009465	1.5752	1.4652	13.87057	2.30148
11:49:28				1873	9.19735	0.300787	1.5752	1.4652	13.38217	2.30031
11:49:29				1874	9.19931	0.3006274	1.6736	1.4652	13.47985	2.29889
11:49:29				1875	9.20028	0.3006274	1.5752	1.4652	13.67521	2.29883
11:49:30				1876	9.19833	0.2977445	1.6736	1.4652	13.82173	2.2756
11:49:30				1877	9.19735	0.2999866	1.6736	1.41636	13.96825	2.29382
11:49:31				1878	9.19833	0.2996663	1.5752	1.4652	13.77289	2.29117
11:49:31				1879	9.19735	0.2987058	1.5752	1.4652	13.72405	2.28345
11:49:32				1880	9.19735	0.2987058	1.5752	1.4652	13.91941	2.28345
11:49:32				1881	9.20028	0.2979052	1.6736	1.51404	13.38217	2.27677
11:49:33				1882	9.20126	0.2987058	1.6736	1.4652	13.62637	2.2832
11:49:33				1883	9.19931	0.298545	1.6736	1.4652	13.28449	2.28202
11:49:34				1884	9.20126	0.2983858	1.5752	1.4652	13.47985	2.28061
11:49:34				1885	9.20126	0.2990259	1.5752	1.41636	13.62637	2.28579
11:49:35				1886	9.20321	0.2998257	1.5752	1.4652	13.82173	2.29215
11:49:35				1887	9.20126	0.2988651	1.6736	1.4652	13.43101	2.28449
11:49:36				1888	9.19833	0.2988651	1.5752	1.4652	13.72405	2.28468
11:49:36				1889	9.20028	0.3004665	1.5752	1.4652	13.28449	2.29753
11:49:37				1890	9.19833	0.3012671	1.5752	1.41636	13.72405	2.30414
11:49:37				1891	9.20028	0.2996663	1.6736	1.4652	13.82173	2.29104
11:49:38				1892	9.19833	0.2993461	1.6736	1.4652	13.72405	2.28857
11:49:38				1893	9.20028	0.2998257	1.5752	1.41636	13.47985	2.29233
11:49:39				1894	9.19931	0.2999866	1.6736	1.51404	13.57753	2.2937
11:49:39				1895	9.20028	0.299346	1.6736	1.4652	13.72405	2.28844
11:49:40				1896	9.19833	0.300146	1.5752	1.4652	13.52869	2.29505
11:49:40				1897	9.19833	0.2993461	1.6736	1.4652	13.77289	2.28857
11:49:41				1898	9.19931	0.2991852	1.5752	1.41636	13.47985	2.28721
11:49:41				1899	9.19638	0.2991852	1.5752	1.4652	13.62637	2.28739
11:49:42				1900	9.19931	0.2987058	1.5752	1.4652	13.87057	2.28332
11:49:42				1901	9.19931	0.2988651	1.6736	1.4652	13.82173	2.28461
11:49:43				1902	9.20028	0.2988651	1.6736	1.4652	13.47985	2.28455
11:49:43				1903	9.20224	0.2988651	1.5752	1.4652	13.77289	2.28443
11:49:44				1904	9.20028	0.299346	1.5752	1.4652	15.2381	2.28845
11:49:44				1905	9.19833	0.2990259	1.6736	1.4652	13.67521	2.28597

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:45				1906	9.20126	0.2988651	1.6736	1.41636	13.43101	2.28449
11:49:45				1907	9.20126	0.2988651	1.6736	1.4652	13.38217	2.28449
11:49:46				1908	9.20028	0.2990259	1.6736	1.4652	13.77289	2.28585
11:49:46				1909	9.19931	0.2987058	1.5752	1.4652	13.38217	2.28332
11:49:47				1910	9.19931	0.2988651	1.5752	1.4652	13.62637	2.28461
11:49:47				1911	9.19833	0.2991852	1.6736	1.41636	13.18681	2.28727
11:49:48				1912	9.19735	0.2987058	1.6736	1.4652	13.28449	2.28344
11:49:48				1913	9.20224	0.2987058	1.6736	1.4652	13.43101	2.28313
11:49:49				1914	9.19931	0.2988651	1.5752	1.4652	12.99145	2.28461
11:49:49				1915	9.20028	0.2995054	1.5752	1.4652	14.16361	2.28974
11:49:50				1916	9.20028	0.2991852	1.6736	1.4652	13.87057	2.28714
11:49:50				1917	9.19833	0.2983858	1.6736	1.4652	13.43101	2.28079
11:49:51				1918	9.20224	0.298545	1.6736	1.4652	13.72405	2.28183
11:49:51				1919	9.20126	0.299346	1.6736	1.41636	13.91941	2.28838
11:49:52				1920	9.20224	0.2983858	1.5752	1.4652	13.43101	2.28054
11:49:52				1921	9.19833	0.2982251	1.6736	1.4652	13.57753	2.27949
11:49:53				1922	9.20126	0.2983858	1.5752	1.4652	13.62637	2.28061
11:49:53				1923	9.20419	0.2982251	1.5752	1.4652	13.28449	2.27912
11:49:54				1924	9.20321	0.2982251	1.6736	1.4652	13.13797	2.27918
11:49:55				1927	9.20401	0.2982251	1.5752	1.4652	14.16361	2.27913
11:49:56				1928	9.20596	0.2982251	1.6736	1.4652	13.43101	2.279
11:49:56				1929	9.20596	0.2980644	1.6736	1.4652	13.08913	2.2777
11:49:57				1930	9.20498	0.2980644	1.5752	1.4652	13.62637	2.27777
11:49:57				1931	9.20205	0.2980644	1.5752	1.4652	13.28449	2.27795
11:49:58				1932	9.20401	0.2998257	1.5752	1.41636	13.33333	2.2921
11:49:58				1933	9.20401	0.2983858	1.5752	1.4652	13.91941	2.28043
11:49:59				1934	9.20401	0.2983858	1.5752	1.4652	13.62637	2.28043
11:49:59				1935	9.20596	0.2988651	1.5752	1.4652	13.62637	2.28419
11:50:00				1936	9.20401	0.2987058	1.5752	1.51404	13.33333	2.28302
11:50:00				1937	9.20401	0.2987058	1.5752	1.4652	13.28449	2.28302
11:50:01				1938	9.20694	0.2982251	1.5752	1.4652	13.23565	2.27895
11:50:01				1939	9.20401	0.2982251	1.5752	1.4652	13.82173	2.27913
11:50:02				1940	9.20596	0.2983858	1.6736	1.4652	13.91941	2.28031
11:50:02				1941	9.20791	0.2982251	1.6736	1.4652	13.18681	2.27888
11:50:03				1942	9.20694	0.2982251	1.5752	1.4652	13.72405	2.27895
11:50:03				1943	9.20694	0.2980644	1.5752	1.4652	13.43101	2.27764
11:50:04				1944	9.20401	0.2980644	1.5752	1.4652	13.33333	2.27783
11:50:04				1945	9.20303	0.2982251	1.6736	1.41636	13.57753	2.27919
11:50:05				1946	9.20791	0.2980644	1.6736	1.41636	12.99145	2.27758
11:50:05				1947	9.20889	0.2980644	1.5752	1.4652	13.18681	2.27752
11:50:06				1948	9.20694	0.2980644	1.5752	1.4652	13.52869	2.27764
11:50:06				1949	9.20498	0.2980644	1.6736	1.4652	13.33333	2.27776
11:50:07				1950	9.20498	0.2980644	1.5752	1.4652	15.4823	2.27777
11:50:07				1951	9.20596	0.2980644	1.6736	1.4652	14.06593	2.2777
11:50:08				1952	9.20596	0.2980644	1.6736	1.4652	13.23565	2.2777

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:08				1953	9.20596	0.2980644	1.5752	1.41636	13.13797	2.27771
11:50:09				1954	9.20596	0.2979051	1.5752	1.4652	14.01709	2.27642
11:50:09				1955	9.20303	0.2980644	1.5752	1.4652	13.91941	2.27789
11:50:10				1956	9.20102	0.2980644	1.6736	1.4652	12.99145	2.27802
11:50:10				1957	9.20303	0.2980644	1.5752	1.4652	13.43101	2.27789
11:50:11				1958	9.20498	0.2979051	1.5752	1.4652	13.72405	2.27648
11:50:11				1959	9.20498	0.2980644	1.5752	1.4652	13.77289	2.27777
11:50:12				1960	9.20303	0.2980644	1.6736	1.4652	13.72405	2.27789
11:50:12				1961	9.20596	0.2980644	1.5752	1.4652	13.47985	2.27771
11:50:13				1962	9.20498	0.2980644	1.5752	1.4652	13.38217	2.27777
11:50:13				1963	9.20596	0.2980644	1.5752	1.4652	13.43101	2.27771
11:50:14				1964	9.20596	0.2980644	1.5752	1.4652	13.62637	2.27771
11:50:14				1965	9.20596	0.2980644	1.5752	1.4652	13.47985	2.27771
11:50:15				1966	9.20303	0.2980644	1.5752	1.4652	13.18681	2.27789
11:50:15				1967	9.20498	0.2982251	1.6736	1.4652	14.06593	2.27907
11:50:16				1968	9.20401	0.2982251	1.6736	1.4652	13.28449	2.27913
11:50:16				1969	9.20303	0.2982251	1.5752	1.4652	13.28449	2.27919
11:50:17				1970	9.20401	0.2988651	1.4768	1.4652	13.47985	2.28432
11:50:17				1971	9.20401	0.2983858	1.5752	1.4652	13.67521	2.28043
11:50:18				1972	9.20102	0.2983858	1.6736	1.4652	13.57753	2.28062
11:50:18				1973	9.20401	0.2983858	1.6736	1.4652	13.52869	2.28043
11:50:19				1974	9.20205	0.2983858	1.5752	1.41636	14.11477	2.28056
11:50:19				1975	9.20205	0.2988651	1.5752	1.4652	13.72405	2.28444
11:50:20				1976	9.19809	0.298545	1.6736	1.4652	14.21245	2.28209
11:50:20				1977	9.20004	0.298545	1.5752	1.4652	13.57753	2.28197
11:50:21				1978	9.20004	0.2987058	1.5752	1.4652	13.67521	2.28328
11:50:21				1979	9.20102	0.2987058	1.5752	1.4652	14.01709	2.28321
11:50:22				1980	9.19809	0.2987058	1.6736	1.4652	13.43101	2.2834
11:50:22				1981	9.20205	0.2987058	1.5752	1.4652	13.62637	2.28315
11:50:23				1982	9.20205	0.2988651	1.5752	1.4652	13.38217	2.28444
11:50:23				1983	9.20303	0.2987058	1.6736	1.4652	13.96825	2.28308
11:50:24				1984	9.20205	0.2987058	1.6736	1.4652	13.62637	2.28314
11:50:24				1985	9.20303	0.2988651	1.6736	1.4652	13.62637	2.28437
11:50:25				1986	9.20205	0.2990259	1.5752	1.4652	13.33333	2.28574
11:50:25				1987	9.20205	0.2995054	1.6736	1.41636	13.87057	2.28962
11:50:26				1988	9.20004	0.2993461	1.6736	1.4652	13.52869	2.28846
11:50:26				1989	9.20004	0.2990259	1.6736	1.4652	13.43101	2.28587
11:50:27				1990	9.20303	0.2991852	1.5752	1.4652	13.43101	2.28697
11:50:27				1991	9.20102	0.3004665	1.6736	1.4652	13.57753	2.29748
11:50:28				1992	9.20102	0.2991852	1.6736	1.4652	14.50549	2.28709
11:50:28				1993	9.19906	0.2993461	1.6736	1.4652	13.43101	2.28852
11:50:29				1994	9.20102	0.299346	1.5752	1.4652	13.43101	2.2884
11:50:29				1995	9.19809	0.2993461	1.6736	1.41636	14.21245	2.28858
11:50:30				1996	9.19809	0.2991852	1.6736	1.4652	13.87057	2.28728
11:50:30				1997	9.20004	0.2990259	1.6736	1.4652	13.87057	2.28587

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:31				1998	9.20004	0.299346	1.5752	1.4652	13.47985	2.28846
11:50:31				1999	9.20205	0.2991852	1.5752	1.4652	13.77289	2.28703
11:50:32				2000	9.19809	0.2991852	1.6736	1.41636	13.33333	2.28728
11:50:32				2001	9.20004	0.2991852	1.6736	1.4652	13.43101	2.28716
11:50:33				2002	9.20004	0.2991852	1.5752	1.4652	14.16361	2.28716
11:50:33				2003	9.20004	0.2991852	1.5752	1.41636	13.47985	2.28716
11:50:34				2004	9.19809	0.2996663	1.6736	1.4652	13.38217	2.29118
11:50:34				2005	9.20004	0.2996663	1.5752	1.51404	14.45665	2.29106
11:50:35				2006	9.19711	0.2993461	1.5752	1.4652	13.77289	2.28865
11:50:35				2007	9.19906	0.299346	1.5752	1.4652	13.18681	2.28853
11:50:36				2008	9.19906	0.2995054	1.5752	1.41636	14.21245	2.28982
11:50:36				2009	9.19809	0.2995054	1.5752	1.4652	13.52869	2.28988
11:50:37				2010	9.19711	0.2995054	1.6736	1.4652	13.47985	2.28994
11:50:37				2011	9.19711	0.2993461	1.6736	1.4652	13.08913	2.28865
11:50:38				2012	9.20004	0.2996663	1.5752	1.4652	13.52869	2.29106
11:50:38				2013	9.19809	0.2995054	1.5752	1.4652	13.28449	2.28988
11:50:39				2014	9.20004	0.2995054	1.6736	1.4652	13.13797	2.28975
11:50:39				2015	9.20205	0.2995054	1.6736	1.4652	13.43101	2.28962
11:50:40				2016	9.20004	0.2996663	1.5752	1.41636	13.52869	2.29106
11:50:40				2017	9.20205	0.2990259	1.5752	1.4652	13.57753	2.28574
11:50:41				2018	9.19809	0.2993461	1.6736	1.51404	14.16361	2.28858
11:50:41				2019	9.19809	0.2995054	1.6736	1.41636	13.08913	2.28987
11:50:42				2020	9.20004	0.300307	1.6736	1.4652	13.38217	2.29625
11:50:42				2021	9.20303	0.2999866	1.5752	1.41636	13.77289	2.29346
11:50:43				2022	9.20102	0.299346	1.6736	1.4652	13.67521	2.2884
11:50:43				2023	9.20205	0.2998257	1.6736	1.4652	13.33333	2.29222
11:50:44				2024	9.20004	0.299346	1.5752	1.4652	13.52869	2.28846
11:50:44				2025	9.19906	0.2993461	1.6736	1.4652	14.31013	2.28852
11:50:45				2026	9.20004	0.2993461	1.6736	1.4652	14.16361	2.28846
11:50:45				2027	9.20004	0.2991852	1.5752	1.4652	13.72405	2.28716
11:50:46				2028	9.19809	0.2990259	1.5752	1.4652	13.38217	2.28599
11:50:46				2029	9.19906	0.2991852	1.6736	1.41636	13.72405	2.28722
11:50:47				2030	9.19809	0.2991852	1.6736	1.4652	13.47985	2.28728
11:50:47				2031	9.20004	0.2991852	1.5752	1.4652	13.47985	2.28716
11:50:48				2032	9.19906	0.2999866	1.5752	1.4652	14.26129	2.29371
11:50:48				2033	9.20102	0.2999866	1.5752	1.4652	14.31013	2.29359
11:50:49				2034	9.20102	0.2995054	1.5752	1.4652	13.47985	2.28969
11:50:49				2035	9.20303	0.2996663	1.6736	1.4652	13.18681	2.29086
11:50:50				2036	9.20205	0.2998257	1.5752	1.4652	13.18681	2.29222
11:50:50				2037	9.20205	0.300146	1.6736	1.41636	13.96825	2.29481
11:50:51				2038	9.20303	0.2999866	1.6736	1.4652	13.38217	2.29346
11:50:51				2039	9.20303	0.2999866	1.6736	1.4652	13.18681	2.29346
11:50:52				2040	9.20401	0.2999866	1.5752	1.4652	13.82173	2.2934
11:50:52				2041	9.20596	0.2999866	1.5752	1.4652	13.47985	2.29327
11:50:53				2042	9.20498	0.300146	1.6736	1.41636	12.99145	2.29463

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:53				2043	9.20401	0.300146	1.6736	1.4652	13.91941	2.29469
11:50:54				2044	9.20596	0.300146	1.5752	1.4652	13.43101	2.29457
11:50:55				2047	9.20047	0.3003158	1.6736	1.4652	13.67521	2.29629
11:50:56				2048	9.20047	0.3004767	1.6736	1.4652	13.23565	2.29759
11:50:56				2049	9.20242	0.3004767	1.6736	1.4652	13.04029	2.29747
11:50:57				2050	9.20047	0.3014369	1.6736	1.41636	13.52869	2.30538
11:50:57				2051	9.20242	0.3011163	1.6736	1.4652	13.67521	2.30265
11:50:58				2052	9.20047	0.3006362	1.6736	1.4652	13.91941	2.29889
11:50:58				2053	9.19754	0.3014369	1.5752	1.4652	13.23565	2.30557
11:50:59				2054	9.20047	0.3019173	1.5752	1.4652	14.06593	2.30927
11:50:59				2055	9.20047	0.3015966	1.6736	1.41636	14.89621	2.30667
11:51:00				2056	9.19851	0.3023978	1.5752	1.4652	13.38217	2.31329
11:51:00				2057	9.19754	0.3023978	1.6736	1.4652	14.01709	2.31335
11:51:01				2058	9.19754	0.3019173	1.6736	1.4652	13.08913	2.30946
11:51:01				2059	9.19656	0.3022381	1.6736	1.4652	13.43101	2.31212
11:51:02				2060	9.19461	0.3022381	1.6736	1.4652	13.23565	2.31225
11:51:02				2061	9.19558	0.3030383	1.5752	1.4652	13.47985	2.31868
11:51:03				2062	9.19656	0.3025576	1.6736	1.4652	14.01709	2.31471
11:51:03				2063	9.19754	0.3022381	1.6736	1.41636	13.13797	2.31206
11:51:04				2064	9.19754	0.302077	1.5752	1.4652	13.52869	2.31076
11:51:04				2065	9.19461	0.3028785	1.5752	1.4652	14.01709	2.31744
11:51:05				2066	9.19558	0.3025576	1.6736	1.4652	13.23565	2.31477
11:51:05				2067	9.19851	0.302077	1.6736	1.4652	13.47985	2.31069
11:51:06				2068	9.19754	0.3017577	1.6736	1.4652	13.13797	2.30816
11:51:06				2069	9.19754	0.301437	1.6736	1.4652	13.62637	2.30556
11:51:07				2070	9.20144	0.3014369	1.5752	1.4652	13.52869	2.30532
11:51:07				2071	9.20144	0.3015966	1.5752	1.41636	13.52869	2.30661
11:51:08				2072	9.20047	0.3014369	1.6736	1.4652	13.67521	2.30538
11:51:08				2073	9.20437	0.3015966	1.6736	1.4652	13.38217	2.30642
11:51:09				2074	9.20144	0.3014369	1.6736	1.4652	13.28449	2.30531
11:51:09				2075	9.20242	0.3012773	1.5752	1.4652	13.18681	2.30396
11:51:10				2076	9.2034	0.3019173	1.6736	1.41636	13.52869	2.30908
11:51:10				2077	9.19949	0.302077	1.5752	1.4652	13.43101	2.31063
11:51:11				2078	9.19754	0.3017577	1.6736	1.4652	13.62637	2.30816
11:51:11				2079	9.19558	0.301437	1.6736	1.4652	13.33333	2.30569
11:51:12				2080	9.20047	0.3015966	1.6736	1.4652	13.62637	2.30667
11:51:12				2081	9.19851	0.302077	1.5752	1.4652	14.06593	2.31069
11:51:13				2082	9.19265	0.3017577	1.6736	1.4652	13.96825	2.30848
11:51:13				2083	9.19558	0.3017577	1.6736	1.4652	13.67521	2.30829
11:51:14				2084	9.19558	0.3017577	1.5752	1.41636	13.57753	2.30829
11:51:14				2085	9.19558	0.3022381	1.6736	1.4652	13.77289	2.31218
11:51:15				2086	9.19461	0.302077	1.6736	1.4652	13.87057	2.31094
11:51:15				2087	9.19461	0.3017577	1.5752	1.4652	12.99145	2.30835
11:51:16				2088	9.19363	0.3017577	1.5752	1.4652	13.47985	2.30842
11:51:16				2089	9.19265	0.3019173	1.6736	1.4652	14.21245	2.30977

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:51:17				2090	9.19461	0.3019173	1.6736	1.41636	13.52869	2.30965
11:51:17				2091	9.19461	0.3019173	1.6736	1.4652	12.99145	2.30965
11:51:18				2092	9.19363	0.302077	1.5752	1.4652	13.52869	2.31101
11:51:18				2093	9.19461	0.302077	1.5752	1.4652	14.31013	2.31094
11:51:19				2094	9.19461	0.3022381	1.6736	1.4652	13.82173	2.31225
11:51:19				2095	9.19461	0.302077	1.6736	1.4652	13.87057	2.31094
11:51:20				2096	9.19461	0.3019173	1.6736	1.4652	13.52869	2.30965
11:51:20				2097	9.19851	0.3019173	1.5752	1.41636	13.33333	2.3094
11:51:21				2098	9.19851	0.3011163	1.5752	1.4652	13.18681	2.30291
11:51:21				2099	9.20437	0.3014369	1.6736	1.4652	14.84737	2.30512
11:51:22				2100	9.20535	0.3012773	1.6736	1.41636	14.11477	2.30377
11:51:22				2101	9.20633	0.3012773	1.5752	1.51404	13.28449	2.30371
11:51:23				2102	9.20535	0.3011163	1.5752	1.4652	13.28449	2.30247
11:51:23				2103	9.20437	0.3014369	1.5752	1.4652	14.50549	2.30513
11:51:24				2104	9.2034	0.3012773	1.6736	1.4652	13.57753	2.30389
11:51:24				2105	9.2073	0.3012773	1.6736	1.41636	13.13797	2.30364
11:51:25				2106	9.20437	0.3017577	1.6736	1.4652	13.72405	2.30772
11:51:25				2107	9.20535	0.3022381	1.5752	1.4652	13.43101	2.31156
11:51:26				2108	9.20535	0.3022381	1.6736	1.4652	13.33333	2.31156
11:51:26				2109	9.20437	0.3022381	1.6736	1.4652	13.57753	2.31162
11:51:27				2110	9.20242	0.3017577	1.6736	1.41636	14.40781	2.30785
11:51:27				2111	9.20047	0.3019173	1.5752	1.4652	13.47985	2.30927
11:51:28				2112	9.20242	0.3019173	1.6736	1.4652	13.87057	2.30914
11:51:28				2113	9.20242	0.3019173	1.6736	1.41636	13.96825	2.30914
11:51:29				2114	9.20242	0.3017577	1.6736	1.4652	13.08913	2.30785
11:51:29				2115	9.20633	0.3015966	1.6736	1.4652	13.33333	2.30629
11:51:30				2116	9.20535	0.3022381	1.5752	1.4652	13.62637	2.31156
11:51:30				2117	9.20144	0.3019173	1.6736	1.4652	13.91941	2.30921
11:51:31				2118	9.20144	0.3017577	1.6736	1.41636	13.47985	2.30791
11:51:31				2119	9.20144	0.3015966	1.5752	1.4652	13.23565	2.30661
11:51:32				2120	9.2034	0.3014369	1.5752	1.4652	13.33333	2.30519
11:51:32				2121	9.20535	0.3015966	1.6736	1.4652	13.04029	2.30636
11:51:33				2122	9.20437	0.3019173	1.6736	1.4652	13.47985	2.30902
11:51:33				2123	9.2034	0.3015966	1.6736	1.4652	14.35897	2.30648
11:51:34				2124	9.2034	0.3015966	1.6736	1.4652	13.82173	2.30648
11:51:34				2125	9.20437	0.3015966	1.6736	1.4652	13.43101	2.30642
11:51:35				2126	9.2034	0.3015966	1.6736	1.41636	13.47985	2.30648
11:51:35				2127	9.2073	0.3015966	1.6736	1.4652	13.62637	2.30623
11:51:36				2128	9.20437	0.3015966	1.6736	1.4652	13.62637	2.30642
11:51:36				2129	9.2034	0.3014369	1.6736	1.4652	13.72405	2.30519
11:51:37				2130	9.20633	0.3015966	1.6736	1.4652	13.47985	2.30629
11:51:37				2131	9.20633	0.3015966	1.5752	1.41636	13.23565	2.3063
11:51:38				2132	9.20437	0.3027188	1.6736	1.4652	13.77289	2.31552
11:51:38				2133	9.20437	0.3022381	1.5752	1.4652	13.67521	2.31162
11:51:39				2134	9.2034	0.3019173	1.6736	1.4652	13.38217	2.30908

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:51:39				2135	9.20242	0.3019173	1.6736	1.4652	13.38217	2.30914
11:51:40				2136	9.20242	0.302077	1.6736	1.4652	13.62637	2.31044
11:51:40				2137	9.20437	0.3025576	1.5752	1.41636	13.23565	2.31421
11:51:41				2138	9.20242	0.3027188	1.6736	1.4652	13.57753	2.31564
11:51:41				2139	9.20047	0.3023978	1.6736	1.41636	14.16361	2.31316
11:51:42				2140	9.19949	0.302077	1.6736	1.4652	13.72405	2.31063
11:51:42				2141	9.20242	0.302077	1.6736	1.4652	13.38217	2.31044
11:51:43				2142	9.19851	0.3030383	1.6736	1.4652	13.52869	2.31848
11:51:43				2143	9.20144	0.3027188	1.6736	1.4652	14.70085	2.3157
11:51:44				2144	9.20242	0.3022381	1.6736	1.41636	12.99145	2.31174
11:51:44				2145	9.20242	0.3025576	1.6736	1.4652	13.38217	2.31433
11:51:45				2146	9.19851	0.3027188	1.6736	1.4652	13.67521	2.31589
11:51:45				2147	9.19949	0.3023978	1.6736	1.4652	14.06593	2.31323
11:51:46				2148	9.20242	0.3023978	1.6736	1.4652	13.43101	2.31304
11:51:46				2149	9.20144	0.3023978	1.6736	1.4652	13.28449	2.3131
11:51:47				2150	9.20144	0.3025576	1.6736	1.4652	13.08913	2.3144
11:51:47				2151	9.20047	0.3031981	1.5752	1.4652	13.04029	2.31966
11:51:48				2152	9.20144	0.3023978	1.6736	1.41636	12.94261	2.3131
11:51:48				2153	9.20047	0.3027188	1.6736	1.4652	12.84493	2.31577
11:51:49				2154	9.20047	0.3039988	1.6736	1.4652	13.52869	2.32615
11:51:49				2155	9.2034	0.3031981	1.6736	1.4652	13.87057	2.31946
11:51:50				2156	9.19949	0.3028785	1.6736	1.51404	13.52869	2.31712
11:51:50				2157	9.20144	0.3027188	1.6736	1.4652	13.08913	2.3157
11:51:51				2158	9.19851	0.3025576	1.5752	1.41636	13.13797	2.31459
11:51:51				2159	9.19949	0.3025576	1.6736	1.4652	12.60073	2.31452
11:51:52				2160	9.20047	0.3022381	1.5752	1.4652	13.43101	2.31187
11:51:52				2161	9.20047	0.3036791	1.6736	1.4652	13.67521	2.32355
11:51:53				2162	9.20047	0.3031981	1.6736	1.4652	14.45665	2.31965
11:51:53				2163	9.2034	0.3025576	1.6736	1.4652	13.38217	2.31427
11:51:54				2164	9.19949	0.3025576	1.6736	1.4652	14.06593	2.31452
11:51:55				2167	9.20315	0.3025488	1.6736	1.4652	13.43101	2.31422
11:51:56				2168	9.20315	0.3022293	1.6736	1.4652	13.47985	2.31163
11:51:56				2169	9.20413	0.3020682	1.6736	1.51404	13.18681	2.31026
11:51:57				2170	9.20315	0.3028697	1.6736	1.4652	13.72405	2.31682
11:51:57				2171	9.20413	0.302389	1.6736	1.4652	13.52869	2.31286
11:51:58				2172	9.20315	0.3025488	1.6736	1.4652	13.28449	2.31422
11:51:58				2173	9.20315	0.3027085	1.6736	1.4652	13.33333	2.31551
11:51:59				2174	9.2012	0.3022293	1.6736	1.4652	13.62637	2.31175
11:51:59				2175	9.20413	0.3025488	1.6736	1.4652	13.67521	2.31415
11:52:00				2176	9.20413	0.30399	1.6736	1.4652	13.87057	2.32584
11:52:00				2177	9.19534	0.3036703	1.772	1.4652	14.50549	2.32381
11:52:01				2178	9.19632	0.3033491	1.772	1.41636	13.62637	2.32114
11:52:01				2179	9.19632	0.3036703	1.772	1.4652	13.62637	2.32375
11:52:02				2180	9.19534	0.3038301	1.772	1.4652	13.28449	2.32511
11:52:02				2181	9.19729	0.30399	1.772	1.41636	12.94261	2.32628

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:52:03				2182	9.19925	0.30399	1.772	1.51404	13.18681	2.32615
11:52:03	11:50:48 lowered array			2183	9.19827	0.3030295	1.772	1.51404	13.67521	2.31842
11:52:04				2184	9.19632	0.3028697	1.772	1.4652	13.23565	2.31725
11:52:04				2185	9.19827	0.3044713	1.772	1.4652	13.62637	2.33012
11:52:05				2186	9.20022	0.3036703	1.772	1.41636	14.31013	2.32349
11:52:05				2187	9.19925	0.3031893	1.8703	1.4652	13.13797	2.31965
11:52:06				2188	9.20022	0.3070328	1.772	1.4652	14.06593	2.35077
11:52:06				2189	9.19925	0.3070328	1.8703	1.4652	14.16361	2.35083
11:52:07				2190	9.19729	0.3055914	1.9687	1.4652	13.52869	2.33926
11:52:07				2191	9.19827	0.3068725	2.0671	1.41636	13.23565	2.34959
11:52:08				2192	9.19925	0.309755	2.2639	1.4652	13.38217	2.37292
11:52:08				2193	9.20218	0.307193	2.3623	1.4652	13.52869	2.35193
11:52:09	start transect	10.0	225	2194	9.20218	0.307193	2.3623	1.41636	13.47985	2.35193
11:52:09				2195	9.19925	0.3086331	2.3623	1.4652	13.47985	2.36381
11:52:10				2196	9.20022	0.3107157	2.3623	1.4652	13.38217	2.38066
11:52:10				2197	9.20413	0.3079931	2.4606	1.4652	12.99145	2.35829
11:52:11				2198	9.19925	0.3084742	2.4606	1.4652	13.18681	2.36251
11:52:11				2199	9.20218	0.311997	2.3623	1.41636	13.18681	2.39094
11:52:12				2200	9.20413	0.3095945	2.3623	1.4652	13.52869	2.37129
11:52:12				2201	9.20608	0.3084742	2.3623	1.4652	13.23565	2.36207
11:52:13				2202	9.20315	0.311997	2.3623	1.4652	13.52869	2.39087
11:52:13				2203	9.20706	0.3084742	2.4606	1.4652	13.72405	2.362
11:52:14				2204	9.20413	0.3086331	2.3623	1.41636	13.13797	2.36349
11:52:14				2205	9.20413	0.3102352	2.3623	1.4652	12.99145	2.3765
11:52:15				2206	9.20413	0.3092749	2.3623	1.4652	13.08913	2.3687
11:52:15				2207	9.20511	0.3087935	2.4606	1.41636	12.94261	2.36472
11:52:16				2208	9.20218	0.3081534	2.3623	1.4652	13.38217	2.35972
11:52:16				2209	9.20413	0.308954	2.3623	1.4652	13.38217	2.36609
11:52:17				2210	9.20413	0.307993	2.3623	1.4652	13.67521	2.35829
11:52:17				2211	9.20413	0.3078327	2.4606	1.4652	13.28449	2.35699
11:52:18				2212	9.2012	0.3078327	2.4606	1.41636	12.89377	2.35718
11:52:18				2213	9.20413	0.3100747	2.3623	1.4652	13.28449	2.37519
11:52:19				2214	9.20413	0.3076724	2.4606	1.4652	13.38217	2.35568
11:52:19				2215	9.20315	0.3075136	2.4606	1.4652	13.18681	2.35446
11:52:20				2216	9.2012	0.3065521	2.3623	1.4652	12.99145	2.34679
11:52:20				2217	9.20022	0.3076724	2.3623	1.4652	13.43101	2.35594
11:52:21				2218	9.20315	0.3073533	2.4606	1.4652	13.23565	2.35316
11:52:21				2219	9.20218	0.307193	2.4606	1.4652	13.28449	2.35192
11:52:22				2220	9.20022	0.307193	2.4606	1.41636	13.57753	2.35205
11:52:22				2221	9.20022	0.307193	2.4606	1.4652	13.08913	2.35205
11:52:23				2222	9.19925	0.3081534	2.3623	1.4652	12.99145	2.35991
11:52:23				2223	9.20413	0.3081534	2.4606	1.4652	14.31013	2.35959
11:52:24				2224	9.20413	0.3076724	2.4606	1.4652	13.13797	2.35568
11:52:24				2225	9.20022	0.3078327	2.4606	1.4652	13.28449	2.35724
11:52:25				2226	9.20413	0.3081534	2.3623	1.4652	13.28449	2.35959

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:52:25				2227	9.20413	0.3076724	2.4606	1.4652	13.87057	2.35568
11:52:26				2228	9.20413	0.3075136	2.4606	1.4652	13.04029	2.3544
11:52:26				2229	9.20315	0.3084742	2.3623	1.51404	12.99145	2.36226
11:52:27				2230	9.20413	0.3078327	2.4606	1.4652	13.47985	2.35699
11:52:27				2231	9.20218	0.3075136	2.4606	1.4652	12.89377	2.35452
11:52:28				2232	9.20315	0.3083138	2.4606	1.4652	13.23565	2.36096
11:52:28				2233	9.20511	0.3081534	2.3623	1.41636	13.67521	2.35953
11:52:29				2234	9.20511	0.3078327	2.4606	1.4652	13.52869	2.35692
11:52:29				2235	9.20315	0.3078327	2.4606	1.4652	13.47985	2.35705
11:52:30				2236	9.20413	0.307993	2.3623	1.4652	13.28449	2.35829
11:52:30				2237	9.20413	0.308954	2.3623	1.51404	13.18681	2.36609
11:52:31				2238	9.20511	0.3079931	2.4606	1.4652	13.57753	2.35822
11:52:31				2239	9.20315	0.3081534	2.4606	1.41636	12.99145	2.35965
11:52:32				2240	9.20413	0.3087935	2.4606	1.4652	13.08913	2.36479
11:52:32				2241	9.20608	0.3084742	2.4606	1.4652	13.28449	2.36206
11:52:33				2242	9.20511	0.3086331	2.3623	1.4652	13.18681	2.36342
11:52:33				2243	9.20511	0.3100747	2.4606	1.4652	13.38217	2.37512
11:52:34				2244	9.20511	0.3087935	2.4606	1.4652	13.23565	2.36472
11:52:34				2245	9.20511	0.308954	2.4606	1.4652	13.08913	2.36602
11:52:35				2246	9.20511	0.3108763	2.3623	1.41636	13.52869	2.38164
11:52:35				2247	9.20706	0.310555	2.4606	1.4652	14.74969	2.3789
11:52:36				2248	9.20804	0.3095945	2.4606	1.4652	13.23565	2.37103
11:52:36				2249	9.20608	0.3095945	2.4606	1.4652	13.08913	2.37116
11:52:37				2250	9.20901	0.3092749	2.4606	1.4652	13.08913	2.36837
11:52:37				2251	9.20608	0.309434	2.4606	1.41636	13.13797	2.36986
11:52:38				2252	9.20804	0.3075136	2.3623	1.41636	13.13797	2.35414
11:52:38				2253	9.20511	0.3079931	2.4606	1.4652	13.47985	2.35822
11:52:39				2254	9.20315	0.308954	2.4606	1.4652	13.04029	2.36615
11:52:39				2255	9.20413	0.3084742	2.4606	1.4652	13.08913	2.36219
11:52:40				2256	9.20218	0.3079931	2.3623	1.4652	13.13797	2.35842
11:52:40				2257	9.20413	0.3118362	2.3623	1.4652	13.23565	2.3895
11:52:41				2258	9.20511	0.3086331	2.4606	1.4652	13.28449	2.36342
11:52:41				2259	9.20315	0.3083138	2.4606	1.41636	13.13797	2.36096
11:52:42				2260	9.20413	0.306392	2.3623	1.4652	12.99145	2.3453
11:52:42				2261	9.20315	0.307193	2.3623	1.4652	13.43101	2.35186
11:52:43				2262	9.2012	0.3073533	2.3623	1.4652	13.62637	2.35329
11:52:43				2263	9.20218	0.3067123	2.4606	1.4652	13.62637	2.34802
11:52:44				2264	9.2012	0.3067123	2.4606	1.4652	13.47985	2.34808
11:52:44				2265	9.20022	0.3070328	2.3623	1.4652	13.18681	2.35075
11:52:45				2266	9.20218	0.3081534	2.4606	1.4652	13.43101	2.35972
11:52:45				2267	9.20218	0.3065521	2.4606	1.4652	12.99145	2.34672
11:52:46				2268	9.20218	0.306392	2.4606	1.4652	13.28449	2.34542
11:52:46				2269	9.20511	0.3065521	2.3623	1.4652	13.52869	2.34653
11:52:47				2270	9.20022	0.3073533	2.4606	1.4652	13.67521	2.35335
11:52:47				2271	9.20218	0.3065521	2.4606	1.4652	13.82173	2.34672

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:52:48				2272	9.20218	0.3060717	2.3623	1.41636	13.08913	2.34283
11:52:48				2273	9.2012	0.3067123	2.3623	1.4652	13.18681	2.34809
11:52:49				2274	9.20315	0.3068725	2.4606	1.4652	13.87057	2.34926
11:52:49				2275	9.2012	0.306392	2.4606	1.4652	13.23565	2.34548
11:52:50				2276	9.20315	0.3065521	2.4606	1.51404	13.23565	2.34666
11:52:50				2277	9.2012	0.3067123	2.3623	1.4652	13.18681	2.34809
11:52:51				2278	9.20218	0.3067123	2.4606	1.4652	13.72405	2.34802
11:52:51				2279	9.2012	0.3067123	2.4606	1.4652	13.04029	2.34808
11:52:52				2280	9.20218	0.3067123	2.4606	1.4652	13.18681	2.34802
11:52:52				2281	9.20218	0.3068725	2.4606	1.4652	13.38217	2.34932
11:52:53				2282	9.19827	0.3067123	2.4606	1.4652	13.04029	2.34828
11:52:53				2283	9.2012	0.3067123	2.4606	1.4652	13.04029	2.34808
11:52:54				2284	9.20218	0.3067123	2.3623	1.4652	13.72405	2.34802
11:52:55				2287	9.19967	0.3067212	2.4606	1.4652	13.08913	2.34826
11:52:56				2288	9.20163	0.3068814	2.3623	1.4652	13.18681	2.34943
11:52:56				2289	9.2026	0.3068814	2.4606	1.51404	13.52869	2.34936
11:52:57				2290	9.20163	0.3068814	2.4606	1.4652	13.08913	2.34943
11:52:57				2291	9.20163	0.3068814	2.3623	1.41636	13.43101	2.34943
11:52:58				2292	9.20065	0.3075224	2.3623	1.4652	13.04029	2.3547
11:52:58				2293	9.20065	0.3073621	2.4606	1.4652	13.57753	2.35339
11:52:59				2294	9.19967	0.3072018	2.4606	1.4652	13.13797	2.35216
11:52:59				2295	9.20065	0.3072018	2.4606	1.4652	13.04029	2.35209
11:53:00				2296	9.20065	0.3072018	2.4606	1.4652	12.84493	2.35209
11:53:00				2297	9.20065	0.3076812	2.3623	1.4652	13.13797	2.35599
11:53:01				2298	9.1987	0.3075224	2.3623	1.41636	14.35897	2.35483
11:53:01				2299	9.19772	0.3075224	2.4606	1.4652	13.43101	2.35489
11:53:02				2300	9.19772	0.3078415	2.4606	1.4652	13.33333	2.35748
11:53:02				2301	9.19772	0.3072018	2.4606	1.4652	13.72405	2.35228
11:53:03				2302	9.19967	0.3070416	2.3623	1.4652	13.13797	2.35086
11:53:03				2303	9.20163	0.3083226	2.3623	1.4652	13.18681	2.36113
11:53:04				2304	9.19967	0.3073621	2.4606	1.4652	13.28449	2.35346
11:53:04				2305	9.1987	0.3073621	2.4606	1.4652	13.13797	2.35352
11:53:05				2306	9.19967	0.3075224	2.3623	1.4652	13.18681	2.35476
11:53:05				2307	9.20065	0.308483	2.3623	1.4652	14.16361	2.3625
11:53:06				2308	9.1987	0.3078415	2.4606	1.4652	13.43101	2.35741
11:53:06				2309	9.19967	0.3073621	2.3623	1.4652	13.18681	2.35346
11:53:07				2310	9.1987	0.3081622	2.3623	1.4652	13.13797	2.36002
11:53:07				2311	9.1987	0.3080019	2.4606	1.41636	13.72405	2.35872
11:53:08				2312	9.19967	0.3081622	2.4606	1.4652	12.99145	2.35995
11:53:08				2313	9.19772	0.308483	2.3623	1.4652	12.74725	2.36269
11:53:09				2314	9.19967	0.3073621	2.3623	1.4652	13.43101	2.35346
11:53:09				2315	9.1987	0.3076812	2.4606	1.4652	13.08913	2.35611
11:53:10				2316	9.1987	0.3086419	2.3623	1.4652	12.94261	2.36392
11:53:10				2317	9.1987	0.3096033	2.3623	1.4652	13.08913	2.37172
11:53:11				2318	9.20065	0.3086419	2.4606	1.4652	13.87057	2.36378

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:53:11				2319	9.20065	0.308483	2.4606	1.4652	13.04029	2.36249
11:53:12				2320	9.19967	0.308483	2.3623	1.51404	13.08913	2.36256
11:53:12				2321	9.20163	0.3080019	2.3623	1.4652	13.23565	2.35853
11:53:13				2322	9.19967	0.3080019	2.4606	1.4652	13.08913	2.35865
11:53:13				2323	9.19967	0.3080019	2.4606	1.4652	14.50549	2.35865
11:53:14				2324	9.20163	0.3080019	2.3623	1.41636	14.31013	2.35853
11:53:14				2325	9.20065	0.3080019	2.4606	1.4652	13.08913	2.35859
11:53:15				2326	9.20358	0.3080019	2.3623	1.51404	13.52869	2.3584
11:53:15				2327	9.20456	0.3081622	2.3623	1.4652	13.38217	2.35964
11:53:16				2328	9.20657	0.3081622	2.3623	1.51404	13.82173	2.3595
11:53:16				2329	9.20657	0.3080019	2.4606	1.4652	12.94261	2.3582
11:53:17				2330	9.20755	0.3081622	2.4606	1.4652	13.18681	2.35944
11:53:17				2331	9.20755	0.3080019	2.3623	1.4652	13.62637	2.35814
11:53:18				2332	9.20755	0.3081622	2.3623	1.4652	13.77289	2.35944
11:53:18				2333	9.20657	0.3080019	2.4606	1.4652	14.16361	2.3582
11:53:19				2334	9.20657	0.3080019	2.4606	1.4652	13.13797	2.3582
11:53:19				2335	9.20657	0.3080019	2.4606	1.4652	13.28449	2.3582
11:53:20				2336	9.20456	0.3076812	2.3623	1.4652	13.23565	2.35573
11:53:20				2337	9.20559	0.3080019	2.4606	1.41636	12.94261	2.35826
11:53:21				2338	9.20559	0.3078415	2.3623	1.4652	12.94261	2.35697
11:53:21				2339	9.20456	0.3080019	2.4606	1.4652	13.23565	2.35833
11:53:22				2340	9.20657	0.3078415	2.4606	1.4652	13.28449	2.3569
11:53:22				2341	9.20657	0.3076812	2.4606	1.4652	13.23565	2.3556
11:53:23				2342	9.20358	0.3081622	2.4606	1.4652	13.04029	2.3597
11:53:23				2343	9.20657	0.3080019	2.4606	1.4652	13.52869	2.3582
11:53:24				2344	9.20559	0.3080019	2.4606	1.4652	12.99145	2.35826
11:53:24				2345	9.20852	0.3086419	2.4606	1.4652	12.89377	2.36327
11:53:25				2346	9.20657	0.3081622	2.4606	1.51404	13.72405	2.3595
11:53:25				2347	9.20559	0.3078415	2.4606	1.4652	12.94261	2.35696
11:53:26				2348	9.20559	0.308483	2.4606	1.4652	13.13797	2.36217
11:53:26				2349	9.20657	0.3086419	2.4606	1.4652	13.52869	2.36339
11:53:27				2350	9.20657	0.3083226	2.4606	1.41636	13.28449	2.3608
11:53:27				2351	9.20657	0.3083226	2.4606	1.4652	13.04029	2.3608
11:53:28				2352	9.20657	0.308483	2.4606	1.51404	13.33333	2.3621
11:53:28				2353	9.20755	0.3105638	2.3623	1.4652	14.11477	2.37894
11:53:29				2354	9.2095	0.3112051	2.4606	1.51404	14.26129	2.38401
11:53:29				2355	9.21243	0.3094428	2.4606	1.4652	13.57753	2.36951
11:53:30				2356	9.20852	0.3086419	2.3623	1.4652	13.13797	2.36327
11:53:30				2357	9.21048	0.3105638	2.3623	1.4652	13.18681	2.37875
11:53:31				2358	9.2095	0.3104047	2.4606	1.4652	13.04029	2.37751
11:53:31				2359	9.21243	0.3094428	2.4606	1.4652	12.99145	2.36951
11:53:32				2360	9.2095	0.3094428	2.4606	1.4652	13.28449	2.3697
11:53:32				2361	9.21145	0.3080019	2.4606	1.4652	12.99145	2.35788
11:53:33				2362	9.20852	0.3096033	2.4606	1.4652	13.47985	2.37107
11:53:33				2363	9.21048	0.3091233	2.4606	1.41636	13.18681	2.36705

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:53:34				2364	9.21048	0.3092838	2.4606	1.4652	12.99145	2.36835
11:53:34				2365	9.20755	0.3094428	2.3623	1.4652	12.79609	2.36984
11:53:35				2366	9.21048	0.3091233	2.4606	1.4652	13.67521	2.36705
11:53:35				2367	9.2095	0.3089628	2.4606	1.4652	13.28449	2.36581
11:53:36				2368	9.2095	0.3088024	2.3623	1.4652	13.13797	2.36451
11:53:36				2369	9.2095	0.3078415	2.3623	1.4652	13.47985	2.35671
11:53:37				2370	9.20755	0.3086419	2.4606	1.4652	13.52869	2.36333
11:53:37				2371	9.20755	0.3086419	2.4606	1.4652	13.18681	2.36333
11:53:38				2372	9.20755	0.3083226	2.3623	1.4652	13.23565	2.36074
11:53:38				2373	9.20755	0.3086419	2.4606	1.4652	13.96825	2.36333
11:53:39				2374	9.20657	0.308483	2.4606	1.51404	13.28449	2.3621
11:53:39				2375	9.20559	0.308483	2.4606	1.4652	13.47985	2.36217
11:53:40				2376	9.20657	0.308483	2.4606	1.41636	13.43101	2.3621
11:53:40				2377	9.20755	0.308483	2.2639	1.51404	13.72405	2.36205
11:53:41				2378	9.20559	0.3086419	2.4606	1.4652	13.33333	2.36346
11:53:41				2379	9.20559	0.3086419	2.4606	1.4652	13.38217	2.36346
11:53:42				2380	9.20559	0.308483	2.4606	1.4652	13.28449	2.36217
11:53:42				2381	9.20559	0.3086419	2.4606	1.4652	12.99145	2.36346
11:53:43				2382	9.20657	0.308483	2.4606	1.4652	12.94261	2.3621
11:53:43				2383	9.20559	0.3086419	2.4606	1.4652	12.89377	2.36346
11:53:44				2384	9.20755	0.3088024	2.4606	1.4652	13.18681	2.36463
11:53:44				2385	9.20852	0.3088024	2.4606	1.51404	13.18681	2.36457
11:53:45				2386	9.20852	0.3086419	2.4606	1.4652	13.23565	2.36327
11:53:45				2387	9.20657	0.3088024	2.3623	1.4652	13.18681	2.3647
11:53:46				2388	9.2095	0.3094428	2.3623	1.4652	13.28449	2.36971
11:53:46				2389	9.2095	0.3089628	2.4606	1.41636	13.67521	2.36581
11:53:47				2390	9.20755	0.3089628	2.4606	1.4652	13.18681	2.36594
11:53:47				2391	9.2095	0.3089628	2.4606	1.4652	13.18681	2.36581
11:53:48				2392	9.21048	0.3091233	2.3623	1.51404	13.18681	2.36705
11:53:48				2393	9.20852	0.3092838	2.3623	1.4652	13.57753	2.36848
11:53:49				2394	9.20852	0.3094428	2.3623	1.4652	13.87057	2.36977
11:53:49				2395	9.20852	0.3091233	2.4606	1.4652	14.01709	2.36717
11:53:50				2396	9.20852	0.3091233	2.4606	1.4652	12.50305	2.36717
11:53:50				2397	9.20755	0.3091233	2.3623	1.4652	13.18681	2.36724
11:53:51				2398	9.2095	0.3094428	2.3623	1.4652	14.26129	2.36971
11:53:51				2399	9.20657	0.3097638	2.4606	1.4652	13.52869	2.3725
11:53:52				2400	9.20852	0.3092838	2.4606	1.4652	13.82173	2.36848
11:53:52				2401	9.2095	0.3092838	2.4606	1.4652	12.79609	2.36841
11:53:53				2402	9.20755	0.3091233	2.3623	1.41636	13.13797	2.36724
11:53:53				2403	9.20852	0.3091233	2.4606	1.4652	13.43101	2.36717
11:53:54				2404	9.2095	0.3092838	2.4606	1.4652	13.04029	2.36841
11:53:55				2407	9.20877	0.3091086	2.4606	1.41636	13.38217	2.36704
11:53:56				2408	9.2117	0.3091085	2.4606	1.4652	13.23565	2.36685
11:53:56				2409	9.21072	0.3094295	2.4606	1.4652	13.28449	2.36952
11:53:57				2410	9.20975	0.309269	2.4606	1.4652	13.38217	2.36828

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:53:57				2411	9.20877	0.3091086	2.4606	1.51404	12.89377	2.36704
11:53:58				2412	9.20779	0.3091086	2.4606	1.4652	13.57753	2.3671
11:53:58				2413	9.20975	0.3089481	2.4606	1.4652	12.35653	2.36567
11:53:59				2414	9.20877	0.3089481	2.4606	1.4652	13.33333	2.36574
11:53:59				2415	9.20877	0.3094295	2.4606	1.41636	13.28449	2.36964
11:54:00				2416	9.20975	0.3097491	2.4606	1.4652	12.94261	2.37217
11:54:00				2417	9.20975	0.309269	2.4606	1.4652	13.38217	2.36828
11:54:01				2418	9.20877	0.3094295	2.4606	1.4652	13.04029	2.36964
11:54:01				2419	9.21072	0.3102293	2.3623	1.4652	13.67521	2.37601
11:54:02				2420	9.20877	0.3099097	2.4606	1.4652	13.67521	2.37354
11:54:02				2421	9.20975	0.3097491	2.4606	1.4652	13.04029	2.37217
11:54:03				2422	9.21267	0.3095886	2.4606	1.4652	13.28449	2.37068
11:54:03				2423	9.20877	0.3102294	2.4606	1.4652	13.23565	2.37614
11:54:04				2424	9.2117	0.3095886	2.4606	1.4652	13.23565	2.37074
11:54:04				2425	9.2117	0.3095886	2.4606	1.41636	13.13797	2.37074
11:54:05				2426	9.20877	0.3095886	2.4606	1.4652	13.18681	2.37094
11:54:05				2427	9.21072	0.3102293	2.3623	1.4652	12.84493	2.37601
11:54:06				2428	9.2117	0.3100688	2.4606	1.41636	12.94261	2.37464
11:54:06				2429	9.21072	0.3095886	2.4606	1.4652	12.89377	2.37081
11:54:07				2430	9.2117	0.3095886	2.4606	1.4652	13.13797	2.37074
11:54:07				2431	9.20975	0.3097491	2.4606	1.4652	13.38217	2.37217
11:54:08				2432	9.21072	0.3095886	2.4606	1.4652	13.18681	2.37081
11:54:08				2433	9.21072	0.3095886	2.4606	1.41636	13.47985	2.37081
11:54:09				2434	9.21072	0.3095886	2.4606	1.4652	13.91941	2.37081
11:54:09				2435	9.21072	0.3094295	2.4606	1.4652	12.74725	2.36952
11:54:10				2436	9.21267	0.3095886	2.4606	1.4652	13.38217	2.37068
11:54:10				2437	9.20975	0.3095886	2.4606	1.51404	13.33333	2.37087
11:54:11				2438	9.21072	0.3094295	2.4606	1.4652	13.18681	2.36952
11:54:11				2439	9.21365	0.309269	2.4606	1.4652	13.13797	2.36802
11:54:12				2440	9.2117	0.3091085	2.4606	1.4652	12.69841	2.36685
11:54:12				2441	9.20975	0.309269	2.4606	1.4652	13.18681	2.36828
11:54:13				2442	9.2117	0.3091085	2.4606	1.51404	13.67521	2.36685
11:54:13				2443	9.21072	0.3089481	2.4606	1.4652	13.08913	2.36561
11:54:14				2444	9.20975	0.3087891	2.3623	1.4652	13.18681	2.36438
11:54:14				2445	9.20877	0.3097491	2.3623	1.4652	13.28449	2.37224
11:54:15				2446	9.20975	0.3094295	2.4606	1.41636	13.91941	2.36958
11:54:15				2447	9.20975	0.3089481	2.559	1.4652	12.79609	2.36567
11:54:16				2448	9.20975	0.3089481	2.4606	1.4652	13.08913	2.36567
11:54:16				2449	9.20975	0.31039	2.3623	1.4652	12.94261	2.37738
11:54:17				2450	9.2117	0.3100688	2.4606	1.4652	13.52869	2.37464
11:54:17				2451	9.21072	0.3097491	2.4606	1.4652	13.43101	2.37211
11:54:18				2452	9.20975	0.3094295	2.4606	1.4652	13.08913	2.36958
11:54:18				2453	9.2117	0.3099097	2.4606	1.4652	13.72405	2.37335
11:54:19				2454	9.21072	0.3099097	2.4606	1.4652	14.35897	2.37341
11:54:19				2455	9.2117	0.3099097	2.4606	1.4652	13.33333	2.37335

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:54:20				2456	9.21072	0.3094295	2.4606	1.51404	13.13797	2.36952
11:54:20				2457	9.21072	0.3091086	2.4606	1.4652	13.33333	2.36691
11:54:21				2458	9.20877	0.3087891	2.4606	1.4652	13.38217	2.36444
11:54:21				2459	9.20975	0.3102293	2.4606	1.4652	13.82173	2.37607
11:54:22				2460	9.20877	0.3095886	2.4606	1.4652	13.82173	2.37094
11:54:22				2461	9.20975	0.309269	2.4606	1.4652	13.47985	2.36828
11:54:23				2462	9.20975	0.3091086	2.4606	1.4652	12.84493	2.36697
11:54:23				2463	9.20975	0.3094295	2.4606	1.4652	13.08913	2.36958
11:54:24				2464	9.2117	0.3097491	2.4606	1.41636	13.18681	2.37205
11:54:24				2465	9.21267	0.3094295	2.4606	1.4652	13.08913	2.36939
11:54:25				2466	9.21072	0.309269	2.4606	1.4652	13.13797	2.36821
11:54:25				2467	9.20975	0.3095886	2.4606	1.4652	13.23565	2.37087
11:54:26				2468	9.2117	0.3091085	2.4606	1.51404	13.52869	2.36685
11:54:26				2469	9.20877	0.309269	2.4606	1.4652	13.18681	2.36834
11:54:27				2470	9.20877	0.3095886	2.4606	1.4652	13.47985	2.37094
11:54:27				2471	9.21072	0.309269	2.4606	1.4652	13.67521	2.36821
11:54:28				2472	9.2117	0.3094295	2.4606	1.41636	13.13797	2.36945
11:54:28				2473	9.2117	0.309269	2.4606	1.4652	13.47985	2.36815
11:54:29				2474	9.20975	0.309269	2.3623	1.4652	13.52869	2.36828
11:54:29				2475	9.20975	0.3094295	2.4606	1.4652	12.99145	2.36958
11:54:30				2476	9.21072	0.309269	2.4606	1.51404	13.33333	2.36821
11:54:30				2477	9.2117	0.3091085	2.4606	1.41636	13.38217	2.36685
11:54:31				2478	9.2117	0.3095886	2.4606	1.4652	13.08913	2.37074
11:54:31				2479	9.2117	0.309269	2.4606	1.4652	12.99145	2.36815
11:54:32				2480	9.2117	0.3091085	2.4606	1.4652	12.89377	2.36685
11:54:32				2481	9.20975	0.3083079	2.4606	1.51404	13.08913	2.36047
11:54:33				2482	9.2117	0.3089481	2.4606	1.4652	13.62637	2.36554
11:54:33				2483	9.20877	0.3086287	2.4606	1.4652	13.28449	2.36314
11:54:34				2484	9.20975	0.3086287	2.4606	1.4652	12.89377	2.36308
11:54:34				2485	9.20975	0.3089481	2.3623	1.41636	13.23565	2.36567
11:54:35				2486	9.21072	0.309269	2.4606	1.4652	13.82173	2.36821
11:54:35				2487	9.20877	0.3089481	2.559	1.4652	13.13797	2.36573
11:54:36				2488	9.2117	0.3087891	2.4606	1.4652	12.84493	2.36425
11:54:36				2489	9.20877	0.3084683	2.4606	1.4652	12.89377	2.36184
11:54:37				2490	9.20682	0.3095886	2.4606	1.41636	13.18681	2.37106
11:54:37				2491	9.20975	0.3086287	2.4606	1.4652	13.13797	2.36308
11:54:38				2492	9.20877	0.3078283	2.4606	1.51404	13.13797	2.35665
11:54:38				2493	9.20877	0.3063861	2.4606	1.4652	13.33333	2.34494
11:54:39				2494	9.20584	0.3060658	2.4606	1.51404	13.13797	2.34254
11:54:39				2495	9.20877	0.3055855	2.4606	1.4652	13.23565	2.33845
11:54:40				2496	9.20877	0.3070269	2.4606	1.4652	13.13797	2.35014
11:54:40				2497	9.20975	0.3089481	2.4606	1.4652	13.52869	2.36567
11:54:41				2498	9.20975	0.3068667	2.4606	1.4652	13.67521	2.34878
11:54:41				2499	9.20779	0.3065463	2.4606	1.4652	13.08913	2.34631
11:54:42				2500	9.21072	0.3060658	2.4606	1.4652	13.43101	2.34222

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:54:42				2501	9.20682	0.3105491	2.4606	1.4652	12.69841	2.37886
11:54:43				2502	9.21072	0.3119911	2.559	1.4652	13.18681	2.39031
11:54:43				2503	9.21267	0.3091086	2.7558	1.41636	13.23565	2.36677
11:54:44				2504	9.21365	0.3094295	2.6574	1.4652	12.94261	2.36931
11:54:44				2505	9.20877	0.309269	2.6574	1.4652	13.13797	2.36833
11:54:45				2506	9.20877	0.3124721	2.559	1.4652	13.04029	2.39435
11:54:45				2507	9.2117	0.31039	2.6574	1.4652	13.28449	2.37724
11:54:46				2508	9.2117	0.3097491	2.6574	1.4652	13.28449	2.37204
11:54:46				2509	9.20877	0.3124721	2.6574	1.4652	13.33333	2.39435
11:54:47				2510	9.2117	0.311671	2.6574	1.4652	13.62637	2.38765
11:54:47				2511	9.21267	0.3105491	2.6574	1.4652	13.33333	2.37847
11:54:48				2512	9.21267	0.3099097	2.6574	1.51404	13.08913	2.37328
11:54:48				2513	9.21267	0.31039	2.6574	1.4652	13.13797	2.37718
11:54:49				2514	9.2117	0.3110296	2.6574	1.4652	12.79609	2.38244
11:54:49				2515	9.21267	0.3099097	2.6574	1.4652	12.89377	2.37328
11:54:50				2516	9.21463	0.3099097	2.6574	1.41636	12.64957	2.37315
11:54:50				2517	9.21072	0.3126315	2.6574	1.4652	12.89377	2.39551
11:54:51				2518	9.2117	0.3123113	2.6574	1.51404	13.18681	2.39285
11:54:51				2519	9.21267	0.31039	2.6574	1.4652	13.08913	2.37718
11:54:52				2520	9.21267	0.3107098	2.6574	1.4652	12.89377	2.37977
11:54:52				2521	9.2117	0.3110296	2.6574	1.41636	13.38217	2.38244
11:54:53				2522	9.21267	0.3111903	2.6574	1.4652	13.52869	2.38368
11:54:53				2523	9.20975	0.3102294	2.6574	1.4652	13.67521	2.37607
11:54:54				2524	9.2117	0.3115103	2.7558	1.4652	13.04029	2.38634
11:54:55				2527	9.21188	0.3110355	2.6574	1.4652	13.52869	2.38247
11:54:56				2528	9.21286	0.3110355	2.6574	1.4652	13.38217	2.38241
11:54:56				2529	9.21481	0.3126374	2.6574	1.41636	13.23565	2.39529
11:54:57				2530	9.21188	0.3134375	2.6574	1.51404	13.28449	2.40198
11:54:57				2531	9.21383	0.3127968	2.7558	1.4652	13.13797	2.39664
11:54:58				2532	9.21481	0.311997	2.7558	1.4652	12.99145	2.39008
11:54:58				2533	9.21383	0.3118362	2.6574	1.4652	12.99145	2.38885
11:54:59				2534	9.21579	0.3127968	2.559	1.41636	13.08913	2.39652
11:54:59				2535	9.21774	0.3118362	2.6574	1.4652	13.82173	2.38859
11:55:00				2536	9.21481	0.3121564	2.7558	1.4652	13.18681	2.39138
11:55:00				2537	9.21579	0.3116769	2.6574	1.4652	13.13797	2.38742
11:55:01				2538	9.21579	0.3121563	2.559	1.4652	13.13797	2.39132
11:55:01				2539	9.21481	0.3111962	2.6574	1.41636	13.13797	2.38358
11:55:02				2540	9.21286	0.308954	2.6574	1.4652	13.28449	2.36551
11:55:02				2541	9.21481	0.3099141	2.7558	1.4652	13.72405	2.37317
11:55:03				2542	9.21286	0.3103959	2.7558	1.4652	12.69841	2.37721
11:55:03				2543	9.21481	0.3087935	2.6574	1.51404	13.23565	2.36408
11:55:04				2544	9.2109	0.3084742	2.6574	1.51404	13.28449	2.36174
11:55:04				2545	9.20895	0.3095945	2.6574	1.4652	13.33333	2.37096
11:55:05				2546	9.20895	0.3095945	2.7558	1.4652	12.89377	2.37096
11:55:05	11:53:50 end transect	10.0	270	2547	9.2109	0.3099141	2.6574	1.4652	12.79609	2.37343

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:55:06				2548	9.20895	0.3095945	2.6574	1.4652	13.28449	2.37096
11:55:06				2549	9.20602	0.3095945	2.6574	1.4652	13.04029	2.37116
11:55:07				2550	9.207	0.309755	2.6574	1.4652	13.18681	2.3724
11:55:07				2551	9.20505	0.3095945	2.7558	1.4652	12.94261	2.37122
11:55:08				2552	9.207	0.309755	2.6574	1.41636	13.18681	2.3724
11:55:08				2553	9.20505	0.3100747	2.7558	1.4652	13.28449	2.37512
11:55:09				2554	9.20505	0.3099141	2.6574	1.4652	13.28449	2.37382
11:55:09				2555	9.207	0.309755	2.6574	1.4652	12.89377	2.3724
11:55:10				2556	9.20407	0.3099141	2.6574	1.51404	13.04029	2.37388
11:55:10				2557	9.20309	0.309755	2.7558	1.4652	12.89377	2.37265
11:55:11				2558	9.20407	0.3099141	2.6574	1.4652	13.08913	2.37388
11:55:11				2559	9.20602	0.309755	2.7558	1.4652	13.04029	2.37246
11:55:12				2560	9.20407	0.3095945	2.7558	1.4652	12.99145	2.37128
11:55:12				2561	9.20309	0.309755	2.7558	1.4652	13.38217	2.37265
11:55:13				2562	9.20205	0.309755	2.7558	1.4652	13.23565	2.37272
11:55:13				2563	9.20309	0.3095945	2.7558	1.4652	13.52869	2.37135
11:55:14				2564	9.20407	0.3095945	2.7558	1.4652	13.57753	2.37128
11:55:14				2565	9.20505	0.309434	2.7558	1.41636	13.57753	2.36991
11:55:15				2566	9.20309	0.3095945	2.7558	1.4652	13.33333	2.37135
11:55:15				2567	9.20309	0.3099141	2.6574	1.4652	13.08913	2.37395
11:55:16				2568	9.20407	0.3100747	2.6574	1.4652	12.99145	2.37519
11:55:16				2569	9.20602	0.3099141	2.8542	1.4652	13.18681	2.37374
11:55:17				2570	9.207	0.3099141	2.7558	1.4652	12.89377	2.37368
11:55:17				2571	9.20505	0.3099141	2.6574	1.4652	13.33333	2.37382
11:55:18				2572	9.20602	0.309755	2.6574	1.4652	13.67521	2.37246
11:55:18				2573	9.20602	0.3099141	2.6574	1.4652	13.67521	2.37375
11:55:19				2574	9.207	0.309755	2.7558	1.4652	13.13797	2.37239
11:55:19				2575	9.20895	0.3099141	2.7558	1.4652	13.28449	2.37356
11:55:20				2576	9.20602	0.309755	2.7558	1.4652	12.74725	2.37246
11:55:20				2577	9.20895	0.3099141	2.7558	1.4652	13.04029	2.37356
11:55:21				2578	9.207	0.3100747	2.7558	1.41636	13.23565	2.37499
11:55:21				2579	9.20895	0.3100747	2.7558	1.4652	13.13797	2.37486
11:55:22				2580	9.20798	0.3100747	2.7558	1.4652	13.08913	2.37492
11:55:22				2581	9.20895	0.309755	2.7558	1.4652	13.18681	2.37226
11:55:23				2582	9.20602	0.309755	2.7558	1.4652	13.52869	2.37246
11:55:23				2583	9.20602	0.3095945	2.7558	1.41636	13.04029	2.37115
11:55:24				2584	9.20895	0.3092749	2.7558	1.4652	12.99145	2.36837
11:55:24				2585	9.20602	0.3092749	2.6574	1.4652	13.33333	2.36856
11:55:25				2586	9.207	0.3091145	2.7558	1.4652	13.43101	2.36719
11:55:25				2587	9.20602	0.3087935	2.7558	1.51404	13.08913	2.36465
11:55:26				2588	9.207	0.3084742	2.7558	1.4652	12.94261	2.36199
11:55:26				2589	9.20895	0.309755	2.7558	1.4652	13.28449	2.37226
11:55:27				2590	9.20895	0.309434	2.8542	1.4652	13.62637	2.36965
11:55:27				2591	9.21383	0.3110355	2.8542	1.41636	12.94261	2.38233
11:55:28				2592	9.20895	0.3107157	2.9526	1.4652	13.28449	2.38006

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:55:28				2593	9.21481	0.3099141	2.9526	1.4652	13.13797	2.37316
11:55:29				2594	9.21286	0.308954	2.8542	1.4652	12.99145	2.3655
11:55:29				2595	9.207	0.3078327	2.3623	1.4652	13.04029	2.3568
11:55:30				2596	9.20108	0.307193	1.8703	1.41636	13.13797	2.35202
11:55:30				2597	9.19815	0.3067123	1.4768	1.4652	12.99145	2.34832
11:55:31				2598	9.19913	0.3059115	1.2801	1.4652	13.52869	2.34177
11:55:31				2599	9.2001	0.3054313	1.0833	1.4652	13.13797	2.33781
11:55:32				2600	9.20309	0.3044698	0.8865	1.51404	13.28449	2.32983
11:55:32				2601	9.20205	0.3046312	0.8865	1.4652	14.26129	2.3312
11:55:33				2602	9.20505	0.3047912	0.8865	1.4652	13.57753	2.33231
11:55:33				2603	9.20798	0.3047912	0.7881	1.4652	13.52869	2.33212
11:55:34				2604	9.20895	0.3047912	0.7881	1.41636	13.04029	2.33206
11:55:34				2605	9.20993	0.3047912	0.6898	1.4652	14.65201	2.332
11:55:35				2606	9.2236	0.3051111	0.6898	1.4652	10.06105	2.3337
11:55:35				2607	9.24312	0.2897394	0.6898	1.4652	3.12576	2.20811
11:55:36				2608	9.25977	0.0464451	0.6898	1.4652	3.07692	0.32451
11:55:36				2609	9.27636	0.031265	0.5914	1.4652	2.88156	0.21557
11:55:37				2610	9.29391	0.0309463	0.6898	0	0	0.21322
11:55:37				2611	9.30763	0.032064	0.6898	0	0	0.22106
11:55:38				2612	9.31738	0.0251942	0.6898	0	0	0.17252
11:55:38				2613	9.32907	0.0287095	0.5914	0	0	0.19721
11:55:39				2614	9.34467	0.031585	0.5914	0	0	0.21745
11:55:39				2615	9.3535	0.0266318	0.6898	0	0	0.18245
11:55:40				2616	9.36227	0.0231169	0.5914	0	0	0.15779
11:55:40				2617	9.37688	0.0189638	0.6898	0	0	0.12888
11:55:41	11:54:34 AM switch off			2618	9.38662	0.0173657	0.6898	0	0	0.11782
	flow stopped 11:56:56									
12:02:18	12:01:05 PM switch on			7	9.2369	0.3054635	1.2801	0	0	2.33568
12:02:19				8	9.22421	0.3062641	1.2801	0	0	2.34299
12:02:19				9	9.22811	0.3059438	1.3784	0	0	2.34014
12:02:20				10	9.21737	0.3029005	1.2801	0	0	2.31617
12:02:20				11	9.21249	0.30162	1.2801	0	0	2.3061
12:02:21				12	9.21151	0.3019393	1.2801	0	0	2.30875
12:02:21				13	9.20852	0.3045021	1.2801	0	0	2.32972
12:02:22				14	9.21249	0.3029005	1.2801	0	0	2.31648
12:02:22				15	9.2095	0.3009787	1.2801	0	0	2.3011
12:02:23				16	9.20852	0.3029005	1.2801	0	0	2.31674
12:02:23				17	9.21151	0.3029005	1.3784	0	0	2.31654
12:02:24				18	9.20462	0.2992174	1.2801	0	0	2.28714
12:02:24				19	9.20852	0.3022601	1.3784	0	0	2.31154
12:02:25				20	9.20852	0.3017796	1.3784	0	0	2.30765
12:02:25				21	9.20755	0.3012993	1.4768	0	0	2.30381
12:02:26				22	9.20657	0.3012993	1.4768	0	0	2.30388
12:02:26				23	9.20755	0.3009787	1.3784	0	0	2.30122
12:02:27				24	9.2095	0.3022601	1.4768	0	0	2.31147

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:02:27				25	9.20755	0.3024198	1.4768	0	0	2.31289
12:02:28				26	9.2095	0.3003377	1.4768	0	0	2.2959
12:02:28				27	9.21347	0.2993767	1.4768	0	0	2.28786
12:02:29				28	9.20559	0.3004986	1.4768	0	0	2.29745
12:02:29				29	9.20559	0.3009787	1.4768	0	0	2.30134
12:02:30				30	9.20755	0.2995376	1.4768	0	0	2.28954
12:02:30				31	9.20852	0.2988972	1.4768	0	0	2.28429
12:02:31				32	9.20657	0.2987365	1.4768	0	0	2.28311
12:02:31				33	9.20559	0.3008191	1.4768	0	0	2.30005
12:02:32				34	9.20852	0.3000173	1.4768	0	0	2.29336
12:02:32				35	9.20852	0.2998579	1.4768	0	0	2.29207
12:02:33				36	9.20852	0.3008191	1.4768	0	0	2.29986
12:02:33				37	9.2095	0.3006582	1.4768	0	0	2.29849
12:02:34				38	9.21151	0.3006582	1.4768	0	0	2.29836
12:02:34				39	9.21444	0.3012993	1.4768	0	0	2.30337
12:02:35				40	9.21444	0.30162	1.4768	0	0	2.30597
12:02:35				41	9.21444	0.3012993	1.4768	0	0	2.30337
12:02:36				42	9.21542	0.3014589	1.4768	0	0	2.3046
12:02:36				43	9.21542	0.30162	1.4768	0	0	2.30591
12:02:37				44	9.2164	0.3019393	1.4768	0	0	2.30843
12:02:37				45	9.21347	0.3021004	1.4768	0	0	2.30993
12:02:38				46	9.2164	0.3019393	1.4768	0	0	2.30843
12:02:38				47	9.21151	0.3021004	1.4768	0	0	2.31005
12:02:39				48	9.21444	0.3021004	1.4768	0	0	2.30986
12:02:39				49	9.21347	0.3019393	1.4768	0	0	2.30862
12:02:40				50	9.21151	0.3022601	1.4768	0	0	2.31135
12:02:40				51	9.21249	0.3012993	1.4768	0	0	2.30999
12:02:41				52	9.2095	0.3014589	1.4768	0	0	2.30498
12:02:41				53	9.21048	0.30162	1.4768	0	0	2.30622
12:02:42				54	9.20755	0.30162	1.4768	0	0	2.30641
12:02:42				55	9.2095	0.3022601	1.5752	0	0	2.31147
12:02:43				56	9.21151	0.3017796	1.4768	0	0	2.30745
12:02:43				57	9.20559	0.3000173	1.3784	0	0	2.29355
12:02:44				58	9.19974	0.3008192	1.3784	0	0	2.30043
12:02:44				59	9.19681	0.3012993	1.3784	0	0	2.30451
12:02:45				60	9.19095	0.3014589	1.3784	0	0	2.30617
12:02:45	12:01:30 flow starts			61	9.18802	0.3011397	1.4768	0	0	2.30377
12:02:46				62	9.18899	0.2964949	1.3784	0	0	2.26608
12:02:46				63	9.18802	0.2974554	1.3784	0	0	2.27392
12:02:47				64	9.19485	0.3000173	1.4768	0	0	2.29424
12:02:47				65	9.19778	0.2982557	1.4768	0	0	2.27978
12:02:48				66	9.19974	0.297616	1.4768	0	0	2.27447
12:02:48				67	9.19974	0.2988973	1.4768	0	0	2.28485
12:02:49				68	9.20364	0.2992174	1.4768	0	0	2.2872
12:02:49				69	9.20267	0.2985772	1.4768	0	0	2.28207

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:02:50				70	9.20169	0.2980965	1.4768	0	0	2.27824
12:02:50				71	9.20169	0.2992174	1.4768	0	0	2.28732
12:02:51				72	9.19778	0.2992174	1.4768	0	0	2.28757
12:02:51				73	9.20071	0.2977766	1.4768	0	0	2.27571
12:02:52				74	9.19974	0.2977766	1.4768	0	0	2.27577
12:02:52				75	9.20071	0.2990566	1.5752	0	0	2.28608
12:02:53				76	9.19876	0.2985772	1.4768	0	0	2.28232
12:02:53				77	9.19681	0.2979358	1.4768	0	0	2.27725
12:02:54				78	9.1929	0.2982557	1.4768	0	0	2.28009
12:02:54				79	9.19095	0.2987365	1.4768	0	0	2.28411
12:02:55				80	9.18997	0.2977766	1.4768	0	0	2.27639
12:02:55				81	9.19095	0.2980965	1.4768	0	0	2.27892
12:02:56				82	9.18606	0.2982558	1.4768	0	0	2.28052
12:02:56				83	9.18508	0.2987365	1.4768	0	0	2.28448
12:02:57				84	9.18997	0.2980965	1.4768	0	0	2.27898
12:02:57				85	9.18899	0.2971356	1.4768	0	0	2.27126
12:02:58				86	9.18997	0.2984165	1.4768	0	0	2.28158
12:02:58				87	9.18802	0.2982557	1.4768	0	0	2.2804
12:02:59				88	9.18899	0.2969751	1.4768	0	0	2.26996
12:02:59				89	9.19095	0.2979358	1.4768	0	0	2.27762
12:03:00				90	9.18704	0.2982558	1.4768	0	0	2.28046
12:03:00				91	9.18704	0.2974554	1.4768	0	0	2.27397
12:03:01				92	9.18997	0.2974554	1.4768	0	0	2.27379
12:03:01				93	9.19095	0.2984165	1.4768	0	0	2.28151
12:03:02				94	9.18606	0.2971356	1.4768	0	0	2.27145
12:03:02				95	9.19095	0.2958545	1.4768	0	0	2.26076
12:03:03				96	9.18997	0.2945731	1.4768	0.58608	0.29304	2.25045
12:03:03				97	9.18313	0.2945731	1.5752	0.39072	0.09768	2.25088
12:03:04				98	9.18899	0.2945731	1.5752	1.4652	7.91209	2.25051
12:03:04				99	9.18997	0.2945731	1.4768	1.4652	12.50305	2.25045
12:03:05				100	9.19095	0.2945731	1.5752	1.4652	13.43101	2.25039
12:03:05				101	9.18802	0.2945731	1.5752	1.41636	13.96825	2.25057
12:03:06				102	9.18802	0.2947334	1.5752	1.4652	12.94261	2.25187
12:03:06				103	9.18802	0.3027408	1.5752	1.4652	13.62637	2.31675
12:03:07				104	9.18606	0.302581	1.5752	1.4652	13.43101	2.31558
12:03:07				105	9.19388	0.3032216	1.5752	1.41636	13.72405	2.32027
12:03:08				106	9.19778	0.3040223	1.5752	1.4652	13.28449	2.32651
12:03:08				107	9.20071	0.2984165	1.5752	1.4652	13.67521	2.28089
12:03:09				108	9.19778	0.3037011	1.5752	1.4652	13.08913	2.32391
12:03:09				109	9.19876	0.3054636	1.5752	1.41636	13.38217	2.33814
12:03:10				110	9.20169	0.3045021	1.5752	1.4652	14.50549	2.33015
12:03:10				111	9.20657	0.3024198	1.5752	1.4652	13.23565	2.31295
12:03:11				112	9.20267	0.3043421	1.5752	1.4652	13.57753	2.32879
12:03:11				113	9.20559	0.3054636	1.5752	1.41636	13.38217	2.3377
12:03:12				114	9.20657	0.3040223	1.5752	1.4652	13.08913	2.32595

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:12				115	9.20559	0.3022601	1.5752	1.4652	13.08913	2.31172
12:03:13				116	9.20169	0.3027407	1.4768	1.4652	13.43101	2.31587
12:03:13				117	9.19974	0.3040223	1.5752	1.4652	13.57753	2.32639
12:03:14				118	9.19974	0.2993768	1.5752	1.41636	13.43101	2.28873
12:03:14				119	9.19485	0.2993768	1.5752	1.4652	13.08913	2.28904
12:03:15				120	9.19388	0.2955337	1.5752	1.4652	13.23565	2.25798
12:03:15				121	9.19192	0.2953733	1.5752	1.4652	13.52869	2.2568
12:03:16				122	9.18997	0.2952144	1.5752	1.4652	12.99145	2.25564
12:03:16				123	9.18997	0.2948937	1.5752	1.41636	13.08913	2.25304
12:03:17				124	9.18899	0.2948937	1.5752	1.4652	13.33333	2.2531
12:03:18				127	9.18826	0.2946941	1.5752	1.41636	13.28449	2.25153
12:03:19				128	9.18826	0.2948544	1.5752	1.4652	13.13797	2.25283
12:03:19				129	9.18826	0.2950147	1.5752	1.41636	13.38217	2.25413
12:03:20				130	9.18924	0.2948544	1.4768	1.4652	13.47985	2.25277
12:03:20				131	9.18826	0.2946941	1.5752	1.4652	12.99145	2.25153
12:03:21				132	9.18924	0.2948544	1.5752	1.4652	13.04029	2.25277
12:03:21				133	9.19021	0.2948544	1.5752	1.4652	13.43101	2.25271
12:03:22				134	9.18826	0.2950147	1.4768	1.4652	13.13797	2.25413
12:03:22				135	9.18826	0.2950147	1.5752	1.41636	13.18681	2.25413
12:03:23				136	9.18435	0.2953339	1.5752	1.4652	13.23565	2.25696
12:03:23				137	9.18826	0.295175	1.5752	1.4652	13.23565	2.25543
12:03:24				138	9.18826	0.295175	1.5752	1.4652	13.13797	2.25543
12:03:24				139	9.18826	0.295175	1.5752	1.4652	13.33333	2.25543
12:03:25				140	9.18728	0.2953339	1.5752	1.4652	13.28449	2.25678
12:03:25				141	9.18728	0.2954943	1.5752	1.41636	12.99145	2.25807
12:03:26				142	9.18631	0.2954943	1.5752	1.4652	12.99145	2.25814
12:03:26				143	9.18826	0.2954943	1.5752	1.4652	13.18681	2.25801
12:03:27				144	9.18533	0.2954943	1.5752	1.4652	13.47985	2.2582
12:03:27				145	9.18826	0.2956547	1.5752	1.4652	13.04029	2.25931
12:03:28				146	9.18826	0.2956547	1.4768	1.4652	13.47985	2.25932
12:03:28				147	9.18728	0.2954943	1.5752	1.4652	13.38217	2.25807
12:03:29				148	9.18924	0.2954943	1.5752	1.4652	12.84493	2.25795
12:03:29				149	9.18924	0.2954943	1.5752	1.41636	13.13797	2.25795
12:03:30				150	9.19021	0.2950147	1.4768	1.41636	13.33333	2.25401
12:03:30				151	9.18826	0.2953339	1.5752	1.4652	13.33333	2.25671
12:03:31				152	9.18728	0.2950147	1.5752	1.4652	12.79609	2.25419
12:03:31				153	9.19119	0.2950147	1.5752	1.4652	13.18681	2.25395
12:03:32				154	9.18924	0.2950147	1.4768	1.51404	12.99145	2.25407
12:03:32				155	9.18728	0.2948544	1.5752	1.4652	12.79609	2.25289
12:03:33				156	9.18826	0.2948544	1.5752	1.4652	12.84493	2.25283
12:03:33				157	9.18924	0.2948544	1.5752	1.4652	13.04029	2.25277
12:03:34				158	9.19119	0.2946941	1.5752	1.4652	13.23565	2.25135
12:03:34				159	9.1932	0.2993373	1.5752	1.41636	13.43101	2.28883
12:03:35				160	9.19021	0.2975766	1.5752	1.41636	12.60073	2.27475
12:03:35				161	9.19119	0.2990171	1.5752	1.4652	12.99145	2.28636

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:36				162	9.19613	0.2975766	1.5752	1.4652	13.08913	2.27438
12:03:36				163	9.19516	0.2975766	1.5752	1.4652	13.52869	2.27444
12:03:37				164	9.1932	0.2974159	1.6736	1.4652	13.72405	2.27326
12:03:37				165	9.19613	0.3006187	1.5752	1.4652	13.52869	2.29902
12:03:38				166	9.19613	0.3033403	1.6736	1.4652	12.79609	2.32109
12:03:38				167	9.19809	0.3018997	1.6736	1.4652	13.57753	2.30928
12:03:39				168	9.20297	0.3014194	1.6736	1.4652	13.23565	2.30507
12:03:39				169	9.20004	0.2999778	1.6736	1.4652	12.45421	2.29358
12:03:40				170	9.19809	0.2998184	1.6736	1.4652	13.62637	2.29241
12:03:40				171	9.19906	0.2998184	1.6736	1.4652	13.77289	2.29235
12:03:41				172	9.20004	0.2993373	1.6736	1.4652	13.18681	2.28839
12:03:41				173	9.19613	0.2991779	1.6736	1.4652	13.08913	2.28735
12:03:42				174	9.19613	0.3030207	1.6736	1.41636	13.33333	2.31849
12:03:42				175	9.19906	0.3026997	1.6736	1.41636	13.23565	2.3157
12:03:43				176	9.20297	0.3017401	1.6736	1.41636	13.43101	2.30767
12:03:43				177	9.20102	0.3009392	1.6736	1.4652	13.23565	2.30131
12:03:44				178	9.20102	0.3002982	1.6736	1.4652	12.84493	2.29611
12:03:44				179	9.20199	0.3018997	1.6736	1.4652	13.18681	2.30903
12:03:45				180	9.20297	0.2999778	1.6736	1.4652	13.08913	2.29339
12:03:45				181	9.20004	0.3010987	1.6736	1.4652	12.94261	2.30266
12:03:46				182	9.20297	0.3030207	1.6736	1.4652	13.28449	2.31805
12:03:46				183	9.20883	0.301579	1.6736	1.4652	13.52869	2.30599
12:03:47				184	9.20785	0.3001387	1.6736	1.4652	13.23565	2.29438
12:03:47				185	9.20492	0.3006187	1.6736	1.4652	13.28449	2.29846
12:03:48				186	9.20785	0.2994981	1.6736	1.4652	13.28449	2.28919
12:03:48				187	9.2059	0.2996575	1.6736	1.4652	13.72405	2.29061
12:03:49				188	9.20688	0.3002982	1.6736	1.4652	13.04029	2.29574
12:03:49				189	9.20492	0.2999778	1.6736	1.4652	13.18681	2.29327
12:03:50				190	9.2059	0.3006186	1.6736	1.4652	13.28449	2.2984
12:03:50				191	9.20688	0.3009392	1.6736	1.4652	13.28449	2.30093
12:03:51				192	9.21078	0.301579	1.772	1.41636	13.18681	2.30586
12:03:51				193	9.21274	0.3014194	1.6736	1.4652	13.18681	2.30445
12:03:52				194	9.21078	0.3017401	1.772	1.41636	13.33333	2.30717
12:03:52				195	9.21176	0.3012598	1.6736	1.4652	13.72405	2.30322
12:03:53				196	9.21274	0.3007782	1.6736	1.4652	14.11477	2.29925
12:03:53				197	9.21274	0.3009392	1.6736	1.4652	13.67521	2.30056
12:03:54				198	9.20883	0.3004591	1.6736	1.4652	13.38217	2.29692
12:03:54				199	9.20785	0.2999778	1.6736	1.4652	13.62637	2.29308
12:03:55				200	9.20981	0.2996575	1.6736	1.41636	13.23565	2.29036
12:03:55				201	9.20688	0.2998184	1.6736	1.4652	13.13797	2.29185
12:03:56				202	9.20981	0.2998184	1.772	1.4652	13.62637	2.29166
12:03:56				203	9.21078	0.2998184	1.772	1.4652	13.04029	2.2916
12:03:57				204	9.20688	0.2996575	1.6736	1.4652	13.38217	2.29055
12:03:57				205	9.20688	0.2996575	1.6736	1.4652	12.99145	2.29055
12:03:58				206	9.2059	0.2994981	1.6736	1.4652	13.62637	2.28932

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:58				207	9.20785	0.2996575	1.772	1.51404	13.38217	2.29048
12:03:59				208	9.2059	0.2999778	1.5752	1.51404	13.33333	2.29321
12:03:59				209	9.20492	0.3001387	1.6736	1.4652	13.18681	2.29457
12:04:00				210	9.20785	0.3017401	1.6736	1.4652	13.96825	2.30736
12:04:00				211	9.21274	0.3018997	1.6736	1.41636	13.33333	2.30834
12:04:01				212	9.21078	0.3028609	1.6736	1.41636	13.62637	2.31625
12:04:01				213	9.21176	0.30254	1.6736	1.41636	13.28449	2.31359
12:04:02				214	9.21176	0.3028609	1.6736	1.4652	13.72405	2.31619
12:04:02				215	9.21078	0.3028609	1.6736	1.4652	13.52869	2.31625
12:04:03				216	9.20785	0.3028609	1.6736	1.4652	13.38217	2.31644
12:04:03				217	9.20883	0.3028609	1.6736	1.4652	13.77289	2.31638
12:04:04				218	9.20883	0.3026997	1.6736	1.4652	13.43101	2.31507
12:04:04				219	9.2059	0.3028609	1.6736	1.4652	13.62637	2.31657
12:04:05				220	9.20492	0.3028609	1.772	1.4652	13.52869	2.31663
12:04:05				221	9.2059	0.3028609	1.772	1.4652	13.72405	2.31657
12:04:06				222	9.20688	0.3028609	1.6736	1.4652	13.72405	2.31651
12:04:06				223	9.2059	0.3030207	1.6736	1.4652	14.16361	2.31786
12:04:07				224	9.20785	0.3028609	1.6736	1.4652	13.23565	2.31644
12:04:07				225	9.2059	0.3030207	1.6736	1.4652	13.62637	2.31786
12:04:08				226	9.20785	0.3028609	1.6736	1.4652	13.82173	2.31644
12:04:08				227	9.20688	0.3028609	1.6736	1.4652	14.01709	2.31651
12:04:09				228	9.20492	0.3026997	1.6736	1.4652	14.50549	2.31533
12:04:09				229	9.20785	0.3026997	1.6736	1.41636	13.38217	2.31514
12:04:10				230	9.20688	0.3028609	1.6736	1.4652	13.62637	2.31651
12:04:10				231	9.20883	0.3028609	1.6736	1.4652	13.87057	2.31638
12:04:11				232	9.20785	0.3028609	1.6736	1.4652	13.96825	2.31644
12:04:11				233	9.20785	0.3028609	1.6736	1.4652	14.06593	2.31644
12:04:12				234	9.20785	0.3030207	1.6736	1.4652	13.33333	2.31774
12:04:12				235	9.21274	0.3028609	1.772	1.4652	13.04029	2.31613
12:04:13				236	9.21176	0.3028609	1.772	1.4652	13.18681	2.31619
12:04:13				237	9.20981	0.3028609	1.6736	1.4652	13.67521	2.31632
12:04:14				238	9.21078	0.3028609	1.6736	1.4652	13.96825	2.31625
12:04:14				239	9.21274	0.3030207	1.772	1.4652	13.62637	2.31742
12:04:15				240	9.21371	0.3028609	1.772	1.41636	13.28449	2.31606
12:04:15				241	9.21469	0.3026997	1.6736	1.41636	13.62637	2.3147
12:04:16				242	9.21664	0.3026997	1.6736	1.41636	13.62637	2.31457
12:04:16				243	9.21371	0.3026997	1.772	1.4652	14.11477	2.31476
12:04:17				244	9.21371	0.30254	1.772	1.4652	13.13797	2.31346
12:04:18				247	9.21402	0.3020565	1.772	1.4652	13.47985	2.30952
12:04:19				248	9.21402	0.3015761	1.772	1.4652	12.94261	2.30563
12:04:19				249	9.21304	0.2993343	1.772	1.4652	13.28449	2.28753
12:04:20				250	9.20816	0.2994952	1.772	1.4652	13.23565	2.28915
12:04:20				251	9.20913	0.2996546	1.772	1.41636	12.99145	2.29038
12:04:21				252	9.20718	0.2996546	1.772	1.4652	13.62637	2.2905
12:04:21				253	9.20621	0.3001358	1.6736	1.4652	13.33333	2.29446

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:04:22				254	9.20425	0.3001358	1.772	1.4652	13.23565	2.29459
12:04:22				255	9.20523	0.2999749	1.772	1.4652	12.94261	2.29322
12:04:23				256	9.20621	0.2999749	1.6736	1.4652	13.23565	2.29316
12:04:23				257	9.20621	0.2994952	1.6736	1.4652	13.43101	2.28928
12:04:24				258	9.2023	0.2996546	1.6736	1.4652	13.28449	2.29082
12:04:24	12:03:09 start reposition	10.0	270	259	9.20523	0.2996546	1.772	1.41636	12.94261	2.29062
12:04:25				260	9.20621	0.2996546	1.772	1.4652	13.13797	2.29056
12:04:25				261	9.20621	0.2996546	1.6736	1.4652	13.28449	2.29057
12:04:26				262	9.20328	0.2996546	1.6736	1.4652	13.13797	2.29075
12:04:26				263	9.20718	0.299175	1.6736	1.4652	12.89377	2.28662
12:04:27				264	9.20523	0.2994952	1.772	1.4652	13.13797	2.28933
12:04:27				265	9.20718	0.2998155	1.772	1.51404	13.13797	2.2918
12:04:28				266	9.20718	0.3012554	1.772	1.4652	12.94261	2.30347
12:04:28				267	9.21109	0.3004548	1.772	1.41636	12.60073	2.29673
12:04:29				268	9.21206	0.3002953	1.772	1.4652	12.99145	2.29538
12:04:29				269	9.20816	0.3017357	1.772	1.4652	12.84493	2.3073
12:04:30				270	9.21206	0.3018968	1.6736	1.51404	12.99145	2.30836
12:04:30				271	9.21695	0.301576	1.772	1.4652	12.74725	2.30544
12:04:31				272	9.21402	0.3015761	1.772	1.4652	13.28449	2.30563
12:04:31				273	9.21695	0.3002953	1.772	1.4652	13.18681	2.29507
12:04:32				274	9.21402	0.3001358	1.772	1.41636	13.23565	2.29396
12:04:32				275	9.21499	0.3004547	1.772	1.4652	12.69841	2.29648
12:04:33				276	9.21402	0.3001358	1.772	1.4652	13.23565	2.29396
12:04:33				277	9.21304	0.2996546	1.6736	1.4652	13.38217	2.29013
12:04:34				278	9.21109	0.2999749	1.772	1.4652	13.28449	2.29285
12:04:34				279	9.21304	0.3001358	1.772	1.4652	13.04029	2.29402
12:04:35				280	9.20913	0.3001358	1.772	1.41636	13.28449	2.29427
12:04:35				281	9.20913	0.2998155	1.772	1.4652	12.99145	2.29168
12:04:36				282	9.20913	0.2999749	1.6736	1.4652	12.74725	2.29297
12:04:36				283	9.20913	0.2986941	1.772	1.4652	13.38217	2.2826
12:04:37				284	9.20816	0.2990142	1.6736	1.41636	13.08913	2.28525
12:04:37				285	9.20913	0.2980541	1.772	1.4652	13.23565	2.27742
12:04:38				286	9.20913	0.2994952	1.772	1.41636	13.04029	2.28908
12:04:38				287	9.20816	0.299175	1.772	1.4652	12.94261	2.28655
12:04:39				288	9.20718	0.2967722	1.6736	1.4652	12.84493	2.26716
12:04:39				289	9.20425	0.2969327	1.772	1.4652	13.08913	2.26864
12:04:40				290	9.20328	0.2978935	1.772	1.4652	13.47985	2.27649
12:04:40				291	9.20523	0.2980541	1.772	1.4652	13.57753	2.27766
12:04:41				292	9.20425	0.2972524	1.6736	1.4652	13.23565	2.27124
12:04:41				293	9.20328	0.2970933	1.772	1.4652	13.18681	2.27001
12:04:42				294	9.2023	0.2975736	1.772	1.4652	12.60073	2.27396
12:04:42				295	9.20132	0.297413	1.772	1.4652	13.08913	2.27272
12:04:43				296	9.20132	0.2975736	1.772	1.41636	13.33333	2.27402
12:04:43				297	9.2023	0.2975736	1.772	1.4652	13.91941	2.27396
12:04:44				298	9.20132	0.2972524	1.772	1.41636	13.57753	2.27142

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:04:44				299	9.20035	0.2967722	1.772	1.4652	12.79609	2.26759
12:04:45				300	9.2023	0.2964526	1.772	1.4652	12.89377	2.26488
12:04:45				301	9.2023	0.2966131	1.772	1.51404	13.18681	2.26618
12:04:46				302	9.19546	0.2970933	1.772	1.4652	12.84493	2.2705
12:04:46				303	9.19742	0.2969327	1.772	1.4652	13.18681	2.26908
12:04:47				304	9.19546	0.2964526	1.772	1.4652	13.38217	2.26531
12:04:47				305	9.19149	0.2978935	1.772	1.41636	12.99145	2.27723
12:04:48				306	9.19449	0.2972524	1.772	1.4652	13.28449	2.27185
12:04:48				307	9.19546	0.2975736	1.772	1.4652	13.04029	2.27439
12:04:49				308	9.19644	0.297413	1.772	1.4652	13.08913	2.27303
12:04:49				309	9.19644	0.297413	1.772	1.41636	12.74725	2.27303
12:04:50				310	9.19742	0.2967722	1.772	1.4652	12.79609	2.26778
12:04:50				311	9.19345	0.2954914	1.772	1.4652	13.62637	2.25766
12:04:51				312	9.19149	0.2964526	1.6736	1.4652	13.43101	2.26557
12:04:51				313	9.19449	0.2966131	1.772	1.4652	13.04029	2.26667
12:04:52				314	9.19546	0.2962921	1.772	1.41636	13.33333	2.26401
12:04:52				315	9.19345	0.2966131	1.772	1.4652	13.67521	2.26674
12:04:53				316	9.19247	0.2964526	1.772	1.4652	13.47985	2.2655
12:04:53				317	9.19345	0.2961317	1.772	1.4652	13.23565	2.26284
12:04:54				318	9.19449	0.2959727	1.772	1.4652	13.43101	2.26149
12:04:54				319	9.19149	0.2954914	1.772	1.41636	13.04029	2.25778
12:04:55				320	9.19052	0.2956518	1.772	1.4652	13.13797	2.25914
12:04:55				321	9.18954	0.2954914	1.772	1.4652	13.28449	2.2579
12:04:56				322	9.19052	0.2956518	1.772	1.4652	13.08913	2.25914
12:04:56				323	9.19052	0.2956518	1.772	1.4652	13.13797	2.25914
12:04:57				324	9.19247	0.2961317	1.772	1.41636	12.84493	2.2629
12:04:57				325	9.19149	0.2967722	1.772	1.4652	13.33333	2.26815
12:04:58				326	9.19247	0.2967722	1.772	1.4652	13.52869	2.26809
12:04:58				327	9.19449	0.2972524	1.772	1.4652	13.47985	2.27185
12:04:59				328	9.19546	0.2977328	1.772	1.4652	13.04029	2.27568
12:04:59				329	9.19839	0.2980541	1.6736	1.41636	12.94261	2.2781
12:05:00				330	9.19937	0.2966131	1.772	1.4652	13.38217	2.26636
12:05:00				331	9.19644	0.2958122	1.772	1.4652	12.99145	2.26007
12:05:01				332	9.19644	0.295331	1.772	1.4652	13.18681	2.25617
12:05:01				333	9.19247	0.2951721	1.772	1.4652	12.74725	2.25513
12:05:02				334	9.19149	0.2950118	1.772	1.4652	13.13797	2.2539
12:05:02				335	9.19449	0.2950118	1.772	1.4652	13.08913	2.25371
12:05:03				336	9.19345	0.2950118	1.772	1.4652	12.89377	2.25377
12:05:03				337	9.19052	0.2948514	1.772	1.4652	13.33333	2.25266
12:05:04				338	9.19149	0.2950118	1.772	1.41636	12.60073	2.2539
12:05:04				339	9.19149	0.2946911	1.772	1.4652	13.43101	2.2513
12:05:05				340	9.19247	0.2948514	1.772	1.4652	12.74725	2.25254
12:05:05				341	9.19052	0.2948515	1.8703	1.4652	12.84493	2.25266
12:05:06				342	9.19247	0.2948514	1.772	1.4652	12.99145	2.25254
12:05:06				343	9.19052	0.2948514	1.772	1.41636	13.28449	2.25266

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:07				344	9.18954	0.2948515	1.772	1.4652	13.04029	2.25272
12:05:07				345	9.18954	0.2948515	1.772	1.4652	13.04029	2.25272
12:05:08				346	9.18759	0.295331	1.772	1.4652	13.04029	2.25673
12:05:08				347	9.18856	0.295331	1.772	1.41636	13.18681	2.25666
12:05:09				348	9.18661	0.2951721	1.772	1.4652	13.04029	2.2555
12:05:09				349	9.18759	0.295331	1.772	1.4652	13.43101	2.25673
12:05:10				350	9.18466	0.2954914	1.772	1.4652	13.08913	2.25821
12:05:10				351	9.18661	0.2966131	1.772	1.4652	13.23565	2.26717
12:05:11				352	9.18954	0.2961317	1.772	1.41636	14.01709	2.26309
12:05:11				353	9.18759	0.2959727	1.772	1.41636	12.94261	2.26192
12:05:12				354	9.18661	0.2962921	1.8703	1.4652	13.18681	2.26457
12:05:12				355	9.18759	0.2966131	1.772	1.4652	13.77289	2.26711
12:05:13				356	9.19052	0.2966131	1.8703	1.41636	13.18681	2.26692
12:05:13				357	9.19052	0.2962921	1.8703	1.4652	12.94261	2.26432
12:05:14				358	9.18954	0.2962921	1.772	1.4652	13.13797	2.26439
12:05:14				359	9.18856	0.2961317	1.772	1.4652	13.28449	2.26315
12:05:15				360	9.18759	0.2961317	1.8703	1.41636	13.13797	2.26321
12:05:15				361	9.18954	0.2961317	1.8703	1.4652	13.08913	2.26308
12:05:16				362	9.18563	0.2961317	1.772	1.4652	13.08913	2.26333
12:05:16				363	9.18661	0.2967722	1.772	1.4652	13.13797	2.26846
12:05:17				364	9.18856	0.2961317	1.772	1.4652	13.43101	2.26315
12:05:18				367	9.18508	0.2958181	1.772	1.4652	12.79609	2.26083
12:05:19				368	9.18802	0.2958181	1.8703	1.4652	12.69841	2.26064
12:05:19				369	9.18411	0.2958181	1.772	1.4652	13.08913	2.26089
12:05:20				370	9.18802	0.2958181	1.772	1.4652	13.43101	2.26064
12:05:20				371	9.18606	0.2961375	1.772	1.4652	13.18681	2.26335
12:05:21				372	9.18508	0.2961375	1.772	1.4652	13.13797	2.26341
12:05:21				373	9.18802	0.2959785	1.772	1.4652	13.33333	2.26194
12:05:22				374	9.18606	0.2964585	1.6736	1.4652	13.28449	2.26595
12:05:22				375	9.18802	0.2964585	1.772	1.4652	12.55189	2.26583
12:05:23				376	9.18704	0.2964585	1.8703	1.4652	12.60073	2.26589
12:05:23				377	9.18508	0.2961375	1.8703	1.41636	12.74725	2.26341
12:05:24				378	9.18606	0.2954972	1.772	1.4652	13.18681	2.25817
12:05:24				379	9.18802	0.2958181	1.772	1.4652	12.69841	2.26064
12:05:25				380	9.18802	0.2950176	1.772	1.4652	13.13797	2.25416
12:05:25				381	9.18704	0.2948573	1.8703	1.41636	12.94261	2.25292
12:05:26				382	9.18508	0.2950176	1.8703	1.41636	12.69841	2.25434
12:05:26				383	9.18802	0.2950176	1.772	1.4652	13.13797	2.25416
12:05:27				384	9.18508	0.2948573	1.772	1.4652	13.28449	2.25305
12:05:27				385	9.18802	0.2954972	1.772	1.41636	12.99145	2.25804
12:05:28				386	9.18704	0.2953369	1.8703	1.41636	12.94261	2.2568
12:05:28				387	9.18508	0.2950176	1.8703	1.4652	13.04029	2.25434
12:05:29				388	9.18704	0.2961375	1.772	1.4652	13.28449	2.26329
12:05:29				389	9.18997	0.296619	1.8703	1.41636	13.47985	2.267
12:05:30				390	9.18802	0.2961375	1.8703	1.4652	12.99145	2.26323

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:30				391	9.18997	0.2961375	1.772	1.4652	13.04029	2.26311
12:05:31				392	9.18802	0.2969386	1.772	1.4652	13.28449	2.26972
12:05:31				393	9.18802	0.2969386	1.772	1.4652	13.38217	2.26972
12:05:32				394	9.18997	0.2964585	1.772	1.4652	13.08913	2.26571
12:05:32				395	9.18899	0.296298	1.8703	1.4652	13.33333	2.26446
12:05:33				396	9.18899	0.2969386	1.8703	1.4652	13.08913	2.26965
12:05:33				397	9.18899	0.296619	1.8703	1.4652	12.74725	2.26706
12:05:34				398	9.18802	0.2970991	1.772	1.4652	13.23565	2.27102
12:05:34				399	9.18704	0.2969386	1.772	1.4652	13.38217	2.26978
12:05:35				400	9.18899	0.2977387	1.8703	1.4652	13.38217	2.27613
12:05:35				401	9.18899	0.2972583	1.8703	1.4652	13.77289	2.27224
12:05:36				402	9.18704	0.2970992	1.8703	1.51404	12.74725	2.27108
12:05:36				403	9.18802	0.2987	1.8703	1.4652	13.23565	2.28398
12:05:37				404	9.18899	0.2983799	1.8703	1.41636	13.47985	2.28133
12:05:37				405	9.19192	0.2975795	1.8703	1.4652	13.13797	2.27466
12:05:38				406	9.19095	0.2972583	1.8703	1.51404	13.13797	2.27212
12:05:38				407	9.19095	0.2974189	1.772	1.4652	12.89377	2.27342
12:05:39				408	9.19095	0.2969386	1.772	1.41636	12.74725	2.26953
12:05:39				409	9.19095	0.2970991	1.8703	1.4652	12.89377	2.27083
12:05:40				410	9.18997	0.2970991	1.8703	1.4652	12.64957	2.27089
12:05:40				411	9.18899	0.296778	1.772	1.4652	13.38217	2.26835
12:05:41				412	9.18606	0.296778	1.8703	1.4652	12.84493	2.26854
12:05:41				413	9.18802	0.2975795	1.8703	1.4652	13.23565	2.2749
12:05:42				414	9.18802	0.2985392	1.8703	1.4652	13.87057	2.28268
12:05:42				415	9.18997	0.2977387	1.8703	1.41636	13.67521	2.27607
12:05:43				416	9.19095	0.2987	1.8703	1.4652	13.33333	2.2838
12:05:43				417	9.18899	0.296778	1.9687	1.4652	13.18681	2.26835
12:05:44				418	9.18802	0.2977387	2.1655	1.4652	13.04029	2.27618
12:05:44				419	9.18997	0.2974189	2.1655	1.41636	13.23565	2.27347
12:05:45				420	9.18997	0.2972583	2.2639	1.4652	13.47985	2.27216
12:05:45	12:04:30 @ 6:00	10.0	180	421	9.18899	0.2975795	2.3623	1.4652	13.18681	2.27482
12:05:46				422	9.18802	0.2982193	2.6574	1.4652	13.43101	2.28006
12:05:46				423	9.18899	0.2988593	2.6574	1.4652	13.47985	2.28518
12:05:47				424	9.18899	0.3006216	2.8542	1.4652	12.89377	2.29946
12:05:47				425	9.19095	0.3003012	2.9526	1.4652	14.40781	2.29673
12:05:48				426	9.19681	0.3014223	3.0509	1.41636	13.13797	2.30544
12:05:48	start transect	10.0	180	427	9.19681	0.3011017	3.1493	1.4652	13.52869	2.30284
12:05:49				428	9.19778	0.3014224	3.2477	1.51404	12.99145	2.30537
12:05:49				429	9.19974	0.3019027	3.3461	1.4652	13.62637	2.30914
12:05:50				430	9.20071	0.3030237	3.4445	1.41636	12.84493	2.31816
12:05:50				431	9.20169	0.3019027	3.5428	1.4652	13.38217	2.309
12:05:51				432	9.20468	0.3020624	3.5428	1.4652	12.99145	2.31011
12:05:51				433	9.20169	0.3033433	3.6412	1.4652	13.23565	2.32068
12:05:52				434	9.2037	0.3030237	3.7396	1.4652	13.47985	2.31795
12:05:52				435	9.20468	0.3022221	3.7396	1.51404	12.84493	2.31139

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:53				436	9.2037	0.3028625	3.7396	1.4652	12.94261	2.31665
12:05:53				437	9.20468	0.3030237	3.7396	1.41636	13.62637	2.31789
12:05:54				438	9.20169	0.3028625	3.7396	1.4652	13.04029	2.31678
12:05:54				439	9.2037	0.3031835	3.7396	1.4652	12.69841	2.31925
12:05:55				440	9.20267	0.3031835	3.7396	1.4652	12.79609	2.31932
12:05:55				441	9.20468	0.304464	3.838	1.4652	13.13797	2.32957
12:05:56				442	9.20566	0.3041441	3.7396	1.4652	14.11477	2.32691
12:05:56				443	9.20566	0.3041441	3.7396	1.4652	14.16361	2.32691
12:05:57				444	9.20267	0.3046239	3.7396	1.41636	13.08913	2.331
12:05:57				445	9.20267	0.3039842	3.7396	1.41636	13.13797	2.32581
12:05:58				446	9.20468	0.3033433	3.7396	1.4652	14.26129	2.32048
12:05:58				447	9.2037	0.3038243	3.7396	1.4652	12.74725	2.32445
12:05:59				448	9.20566	0.3068667	3.838	1.4652	12.79609	2.34899
12:05:59				449	9.2037	0.3039842	3.7396	1.4652	12.99145	2.32574
12:06:00				450	9.20267	0.3038243	3.7396	1.4652	13.13797	2.32451
12:06:00				451	9.20468	0.3035031	3.7396	1.41636	13.04029	2.32178
12:06:01				452	9.2037	0.3038243	3.838	1.4652	13.28449	2.32444
12:06:01				453	9.20267	0.3038243	3.7396	1.4652	13.04029	2.32451
12:06:02				454	9.20566	0.3039842	3.7396	1.4652	13.23565	2.32562
12:06:02				455	9.2037	0.3038243	3.838	1.4652	12.50305	2.32444
12:06:03				456	9.20468	0.3035031	3.838	1.51404	12.99145	2.32177
12:06:03				457	9.20468	0.3033433	3.7396	1.4652	12.94261	2.32048
12:06:04				458	9.20267	0.3019027	3.7396	1.4652	12.99145	2.30893
12:06:04				459	9.20267	0.3027027	3.7396	1.4652	13.67521	2.31542
12:06:05				460	9.20169	0.3027027	3.6412	1.51404	13.33333	2.31549
12:06:05				461	9.20566	0.3055855	3.7396	1.4652	13.04029	2.3386
12:06:06				462	9.20566	0.3103885	3.9364	1.41636	13.43101	2.37758
12:06:06				463	9.20663	0.3054255	3.838	1.4652	13.47985	2.33724
12:06:07				464	9.20468	0.3067065	3.838	1.4652	13.08913	2.34776
12:06:07				465	9.20761	0.3124707	3.838	1.4652	13.38217	2.39437
12:06:08				466	9.21054	0.3111889	4.0348	1.4652	13.52869	2.38375
12:06:08				467	9.21737	0.3212779	4.1331	1.4652	13.18681	2.46532
12:06:09				468	9.22616	0.3150333	4.2315	1.41636	13.91941	2.41393
12:06:09				469	9.23202	0.3150333	4.1331	1.4652	12.99145	2.41355
12:06:10				470	9.22616	0.3632418	4.1331	1.4652	13.33333	2.8078
12:06:10				471	9.28574	1.016239	4.3299	1.4652	13.38217	8.42883
12:06:11				472	9.83912	0.9611136	4.5267	1.4652	13.28449	7.81616
12:06:11				473	10.00934	1.1199341	4.7234	39.80464	5.47009	9.17432
12:06:12				474	10.08372	0.9712367	4.8218	14.21245	4.10256	7.8517
12:06:12				475	10.07403	0.9892358	4.8218	1.90476	3.36996	8.01072
12:06:13				476	10.0692	1.1530598	4.9202	1.90476	3.32112	9.45208
12:06:13				477	10.18492	1.1144663	5.117	1.4652	2.73504	9.08194
12:06:14				478	10.20711	1.1271678	5.2153	1.41636	2.442	9.18812
12:06:14				479	10.21673	1.1405168	5.2153	1.4652	2.1978	9.30322
12:06:15				480	10.22154	1.1403563	5.3137	1.4652	2.39316	9.30056

**Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:15				481	10.2225	1.0866496	5.3137	1.4652	2.10012	8.82837
12:06:16				482	10.18396	1.1136621	5.2153	1.4652	2.1978	9.07509
12:06:16				483	10.16085	1.1144664	5.2153	1.4652	2.58852	9.08793
12:06:17				484	10.17337	1.1540244	5.2153	1.51404	2.78388	9.4335
12:06:18				487	10.17114	1.1080239	5.3137	1.4652	2.442	9.02867
12:06:19				488	10.16723	1.1282825	5.3137	1.41636	2.49084	9.208
12:06:19				489	10.1721	1.1601192	5.3137	1.41636	2.29548	9.48765
12:06:20				490	10.18847	1.1437178	5.3137	1.4652	2.34432	9.33865
12:06:20				491	10.19905	1.1530442	5.3137	1.41636	2.53968	9.41819
12:06:21				492	10.20675	1.1483807	5.4121	1.4652	2.53968	9.37505
12:06:21				493	10.21637	1.1191192	5.4121	1.4652	2.53968	9.11496
12:06:22				494	10.19424	1.1221727	5.3137	1.4652	2.442	9.14738
12:06:22				495	10.19135	1.1406622	5.2153	1.4652	2.73504	9.31099
12:06:23				496	10.20675	1.1400202	5.3137	1.4652	2.53968	9.30138
12:06:23				497	10.21348	1.1289262	5.4121	1.4652	2.34432	9.20196
12:06:24				498	10.21252	1.1337485	5.3137	1.4652	2.39316	9.24467
12:06:24				499	10.21348	1.144039	5.2153	1.4652	2.39316	9.33508
12:06:25				500	10.22118	1.1469349	5.3137	1.4652	2.442	9.35861
12:06:25				501	10.22407	1.141467	5.4121	1.41636	2.442	9.30968
12:06:26				502	10.22407	1.1458092	5.3137	1.4652	2.1978	9.34795
12:06:26				503	10.2231	1.1482197	5.3137	1.4652	2.442	9.36944
12:06:27				504	10.22214	1.150149	5.3137	1.4652	2.24664	9.38669
12:06:27				505	10.22599	1.1533664	5.3137	1.4652	2.1978	9.41406
12:06:28				506	10.2308	1.1540089	5.4121	1.4652	2.39316	9.41847
12:06:28				507	10.22984	1.1496682	5.4121	1.4652	2.6862	9.38046
12:06:29				508	10.22695	1.1520794	5.3137	1.4652	2.49084	9.40247
12:06:29				509	10.22695	1.163657	5.3137	1.4652	2.34432	9.50457
12:06:30				510	10.22984	1.1614049	5.4121	1.4652	2.24664	9.48394
12:06:30				511	10.23272	1.1597981	5.4121	1.41636	2.34432	9.46901
12:06:31				512	10.23368	1.1564214	5.3137	1.41636	2.10012	9.439
12:06:31				513	10.23368	1.16414	5.3137	1.4652	2.10012	9.50708
12:06:32				514	10.23368	1.1675163	5.3137	1.41636	2.10012	9.53687
12:06:32				515	10.23663	1.1626913	5.3137	1.4652	2.29548	9.49353
12:06:33				516	10.23561	1.1691248	5.3137	1.4652	2.34432	9.55056
12:06:33				517	10.23663	1.1692846	5.3137	1.41636	2.1978	9.5517
12:06:34				518	10.24048	1.163657	5.3137	1.4652	2.14896	9.50104
12:06:34				519	10.23663	1.1628529	5.3137	1.4652	2.29548	9.49495
12:06:35				520	10.23663	1.1678379	5.2153	1.41636	2.24664	9.53895
12:06:35				521	10.23663	1.1638187	5.3137	1.4652	2.34432	9.50347
12:06:36				522	10.23465	1.1601189	5.3137	1.4652	2.1978	9.47136
12:06:36				523	10.23368	1.1596366	5.117	1.41636	2.39316	9.46738
12:06:37				524	10.23368	1.1517572	5.0186	1.4652	2.34432	9.39793
12:06:37				525	10.23855	1.1541701	5.0186	1.4652	2.29548	9.41794
12:06:38				526	10.24528	1.1507929	4.9202	1.4652	2.1978	9.38646
12:06:38				527	10.25009	1.1462915	4.9202	1.4652	2.39316	9.34557

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:39				528	10.25009	1.1369638	4.7234	1.51404	2.49084	9.2635
12:06:39				529	10.23368	1.1368035	4.8218	1.4652	2.73504	9.26625
12:06:40				530	10.20964	1.1347138	4.8218	1.4652	2.63736	9.25397
12:06:40				531	10.15279	1.1429146	4.8218	1.4652	2.6862	9.34079
12:06:41				532	10.16723	1.1533665	4.8218	1.4652	2.63736	9.42934
12:06:41				533	10.1952	1.1371265	4.9202	1.4652	2.49084	9.27888
12:06:42				534	10.16434	1.1429146	4.9202	1.4652	2.53968	9.33781
12:06:42				535	10.17307	1.1506322	5.0186	1.4652	2.53968	9.40366
12:06:43				536	10.1952	1.1498292	5.0186	1.4652	2.53968	9.39086
12:06:43				537	10.19905	1.1524017	5.0186	1.4652	2.53968	9.41256
12:06:44				538	10.23272	1.1599596	5.0186	1.4652	2.53968	9.47049
12:06:44				539	10.24817	1.1633357	5.117	1.4652	2.49084	9.49623
12:06:45				540	10.25105	1.1607628	5.117	1.4652	2.442	9.4728
12:06:45				541	10.25105	1.1604419	5.117	1.41636	2.29548	9.46997
12:06:46				542	10.25202	1.161728	5.117	1.41636	2.29548	9.48105
12:06:46				543	10.24721	1.1594772	5.117	1.4652	2.29548	9.46246
12:06:47				544	10.24913	1.1580285	5.117	1.4652	2.24664	9.44919
12:06:47				545	10.24817	1.161728	5.117	1.4652	2.34432	9.48206
12:06:48				546	10.23952	1.1615664	5.117	1.4652	2.29548	9.48288
12:06:48				547	10.2308	1.1559396	5.2153	1.4652	2.24664	9.43552
12:06:49				548	10.24144	1.1578693	5.2153	1.41636	2.24664	9.44977
12:06:49				549	10.24432	1.1573851	5.117	1.4652	2.1978	9.44477
12:06:50				550	10.24432	1.1543313	5.117	1.4652	2.1978	9.41785
12:06:50				551	10.24144	1.1567418	5.0186	1.41636	2.24664	9.43986
12:06:51				552	10.23465	1.1618874	5.117	1.4652	2.29548	9.48698
12:06:51				553	10.22214	1.1596366	5.2153	1.4652	2.29548	9.47037
12:06:52				554	10.21829	1.1593158	5.117	1.41636	2.24664	9.46855
12:06:52				555	10.22214	1.1597981	5.0186	1.4652	2.29548	9.47182
12:06:53				556	10.22407	1.1617281	5.0186	1.4652	2.29548	9.48835
12:06:53				557	10.20483	1.1634976	5.117	1.41636	2.24664	9.50897
12:06:54				558	10.20098	1.1623703	5.2153	1.4652	2.1978	9.50001
12:06:54				559	10.19809	1.1615666	5.2153	1.4652	2.1978	9.49367
12:06:55				560	10.1952	1.1612456	5.117	1.41636	2.24664	9.4916
12:06:55				561	10.19713	1.161405	5.117	1.4652	2.39316	9.4925
12:06:56				562	10.20001	1.1623703	5.117	1.4652	2.24664	9.50027
12:06:56				563	10.19905	1.1623703	5.117	1.41636	2.1978	9.50053
12:06:57				564	10.20001	1.160763	5.2153	1.4652	2.24664	9.48607
12:06:57				565	10.19809	1.1607631	5.2153	1.4652	2.1978	9.48657
12:06:58				566	10.19905	1.1604421	5.2153	1.41636	2.1978	9.48349
12:06:58				567	10.19809	1.1620492	5.117	1.4652	2.39316	9.49794
12:06:59				568	10.18462	1.1626915	5.2153	1.4652	2.73504	9.50712
12:06:59				569	10.16145	1.1597984	5.2153	1.41636	2.29548	9.4876
12:07:00				570	10.16049	1.1591546	5.2153	1.4652	2.34432	9.48217
12:07:00				571	10.15568	1.1588339	5.2153	1.4652	2.1978	9.48059
12:07:01				572	10.15471	1.1594776	5.2153	1.41636	2.10012	9.48653

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:01				573	10.17114	1.1588338	5.2153	1.4652	2.1978	9.47656
12:07:02				574	10.17499	1.1589931	5.117	1.4652	2.49084	9.47697
12:07:02				575	10.17884	1.1588338	5.117	1.4652	2.442	9.47457
12:07:03				576	10.16434	1.1601192	5.117	1.4652	2.29548	9.4897
12:07:03				577	10.15664	1.1633361	5.2153	1.4652	2.49084	9.52013
12:07:04				578	10.15953	1.1588339	5.2153	1.41636	2.29548	9.47958
12:07:04				579	10.16049	1.1578696	5.117	1.4652	2.29548	9.47083
12:07:05				580	10.15953	1.1699286	5.117	1.4652	2.29548	9.57768
12:07:05				581	10.16338	1.1694469	5.2153	1.4652	2.442	9.57239
12:07:06				582	10.17499	1.1680001	5.3137	1.4652	2.49084	9.55653
12:07:06				583	10.16723	1.1663921	5.117	1.4652	2.442	9.54438
12:07:07				584	10.15279	1.1697688	5.117	1.4652	2.34432	9.57804
12:07:07				585	10.16723	1.1760391	5.3137	1.4652	2.53968	9.62967
12:07:08				586	10.20964	1.1712162	5.4121	1.4652	2.34432	9.57583
12:07:08				587	10.20194	1.1697686	5.3137	1.4652	2.39316	9.56508
12:07:09				588	10.16916	1.1659088	5.2153	1.4652	2.34432	9.53959
12:07:09				589	10.16049	1.1731446	5.2153	1.4652	2.34432	9.60586
12:07:10				590	10.18847	1.1725023	5.3137	1.4652	2.34432	9.59278
12:07:10				591	10.19905	1.1707321	5.3137	1.4652	2.1978	9.57435
12:07:11				592	10.19039	1.1683217	5.3137	1.4652	2.29548	9.55533
12:07:11				593	10.17595	1.1694468	5.3137	1.4652	2.73504	9.56907
12:07:12				594	10.17307	1.1683218	5.3137	1.4652	2.24664	9.55988
12:07:12				595	10.17884	1.1805419	5.3137	1.4652	2.24664	9.66643
12:07:13				596	10.20194	1.1810252	5.3137	1.4652	2.49084	9.66457
12:07:13				597	10.21156	1.1758788	5.4121	1.4652	2.29548	9.61652
12:07:14				598	10.20771	1.1755563	5.2153	1.4652	2.14896	9.61471
12:07:14				599	10.21637	1.1885843	5.3137	1.4652	2.24664	9.72757
12:07:15				600	10.26259	1.1961414	5.4121	1.4652	2.1978	9.78199
12:07:15				601	10.30392	1.1860102	5.4121	1.41636	2.10012	9.6815
12:07:16				602	10.27413	1.1852049	5.3137	1.4652	2.10012	9.68232
12:07:16				603	10.28182	1.1961414	5.4121	1.4652	2.14896	9.77683
12:07:17				604	10.31262	1.192604	5.4121	1.41636	2.1978	9.73736
12:07:18				607	10.29659	1.1852224	5.3137	1.41636	2.1978	9.67651
12:07:19				608	10.27833	1.1834539	5.4121	1.4652	2.10012	9.66574
12:07:19				609	10.27929	1.1824887	5.4121	1.4652	2.10012	9.65696
12:07:20				610	10.29851	1.182005	5.3137	1.41636	1.9536	9.64762
12:07:20				611	10.29275	1.1849012	5.2153	1.4652	2.24664	9.67471
12:07:21				612	10.28025	1.1879564	5.4121	1.4652	2.29548	9.70497
12:07:21				613	10.29467	1.178466	5.5105	1.4652	2.39316	9.6174
12:07:22				614	10.23885	1.1754115	5.3137	1.4652	2.00244	9.6052
12:07:22				615	10.21577	1.1768595	5.2153	1.51404	2.1978	9.6241
12:07:23				616	10.23212	1.1998595	5.4121	1.4652	2.34432	9.82307
12:07:23				617	10.30524	1.1803965	5.5105	1.51404	2.29548	9.63163
12:07:24				618	10.25808	1.1794323	5.4121	1.4652	2.10012	9.6356
12:07:24				619	10.21769	1.1728375	5.2153	1.4652	2.1978	9.58806

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:25				620	10.2225	1.1803968	5.3137	1.4652	2.29548	9.65356
12:07:25				621	10.24655	1.1755716	5.4121	1.4652	2.39316	9.60457
12:07:26				622	10.23597	1.1757339	5.4121	1.4652	2.24664	9.60879
12:07:26				623	10.21866	1.168013	5.3137	1.4652	2.442	9.54519
12:07:27				624	10.21481	1.1742865	5.4121	1.41636	2.24664	9.60159
12:07:27				625	10.19454	1.1697818	5.4121	1.41636	2.53968	9.56713
12:07:28				626	10.20128	1.1684946	5.4121	1.41636	2.442	9.55399
12:07:28				627	10.20032	1.1733198	5.3137	1.4652	2.24664	9.59688
12:07:29				628	10.20128	1.1787891	5.4121	1.4652	2.53968	9.64496
12:07:29				629	10.21769	1.1704255	5.4121	1.4652	2.1978	9.56673
12:07:30				630	10.20904	1.1741243	5.3137	1.4652	2.34432	9.60169
12:07:30				631	10.21962	1.1754115	5.3137	1.4652	2.1978	9.61027
12:07:31				632	10.23212	1.1808801	5.4121	1.4652	2.49084	9.65526
12:07:31				633	10.23789	1.1741242	5.4121	1.4652	2.34432	9.59407
12:07:32				634	10.23597	1.1720332	5.4121	1.4652	2.10012	9.57612
12:07:32				635	10.21673	1.1715513	5.2153	1.4652	2.29548	9.57695
12:07:33				636	10.20807	1.175734	5.3137	1.4652	2.29548	9.61617
12:07:33				637	10.21962	1.1721954	5.4121	1.4652	2.29548	9.58185
12:07:34				638	10.22058	1.1707474	5.5105	1.41636	2.24664	9.5688
12:07:34				639	10.20326	1.1701036	5.3137	1.4652	2.39316	9.56769
12:07:35				640	10.21096	1.1713914	5.2153	1.4652	2.442	9.57706
12:07:35				641	10.21385	1.1807198	5.4121	1.41636	2.442	9.65869
12:07:36				642	10.22539	1.1728375	5.5105	1.4652	2.24664	9.58599
12:07:36				643	10.22924	1.1725153	5.5105	1.4652	2.24664	9.58213
12:07:37				644	10.21769	1.1701035	5.2153	1.41636	2.24664	9.56391
12:07:37				645	10.2225	1.173802	5.3137	1.4652	2.39316	9.5953
12:07:38				646	10.22827	1.1795928	5.4121	1.51404	2.34432	9.64491
12:07:38				647	10.2302	1.1726775	5.4121	1.4652	2.24664	9.58333
12:07:39				648	10.22827	1.1725153	5.4121	1.51404	2.29548	9.5824
12:07:39				649	10.2225	1.1849015	5.4121	1.4652	2.34432	9.69336
12:07:40				650	10.23693	1.1913343	5.4121	1.4652	2.24664	9.74638
12:07:40				651	10.26487	1.1754114	5.4121	1.4652	2.1978	9.59833
12:07:41				652	10.24943	1.1755716	5.4121	1.41636	2.39316	9.60381
12:07:41				653	10.22924	1.1799157	5.3137	1.4652	2.14896	9.64752
12:07:42				654	10.25328	1.1824888	5.3137	1.4652	2.24664	9.66388
12:07:42				655	10.27353	1.1741241	5.4121	1.4652	2.24664	9.58469
12:07:43				656	10.25808	1.1707472	5.3137	1.4652	2.39316	9.55898
12:07:43				657	10.23308	1.1726775	5.3137	1.4652	2.29548	9.58258
12:07:44				658	10.21866	1.1866708	5.3137	1.4652	2.10012	9.71004
12:07:44				659	10.23885	1.1815239	5.4121	1.51404	2.24664	9.65917
12:07:45				660	10.25712	1.1738018	5.4121	1.4652	2.1978	9.58617
12:07:45				661	10.2302	1.174929	5.3137	1.4652	2.00244	9.60322
12:07:46				662	10.21577	1.1779855	5.3137	1.4652	2.10012	9.63403
12:07:46				663	10.23885	1.1791096	5.3137	1.41636	2.14896	9.63785
12:07:47				664	10.26391	1.1807196	5.4121	1.4652	2.10012	9.64542

**Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:47				665	10.27545	1.1836145	5.4121	1.4652	2.63736	9.66792
12:07:48				666	10.2552	1.1787889	5.4121	1.41636	2.05128	9.63069
12:07:48				667	10.23597	1.1868314	5.3137	1.4652	2.10012	9.70684
12:07:49				668	10.25328	1.201469	5.3137	1.4652	2.29548	9.83162
12:07:49				669	10.33219	1.1894033	5.4121	1.4652	2.1978	9.70391
12:07:50				670	10.3418	1.1911729	5.4121	1.51404	2.00244	9.71696
12:07:50				671	10.30716	1.1871526	5.3137	1.51404	2.14896	9.69073
12:07:51				672	10.3062	1.2037188	5.4121	1.4652	2.29548	9.83721
12:07:51				673	10.3418	1.1874739	5.4121	1.4652	2.14896	9.68435
12:07:52				674	10.33507	1.1865097	5.3137	1.41636	2.00244	9.67765
12:07:52				675	10.31004	1.1853829	5.2153	1.4652	2.1978	9.67437
12:07:53				676	10.30428	1.1958388	5.4121	1.4652	2.29548	9.76814
12:07:53				677	10.31196	1.1857042	5.5105	1.41636	2.00244	9.67665
12:07:54				678	10.30716	1.1865098	5.4121	1.4652	1.9536	9.68505
12:07:54				679	10.29947	1.182005	5.2153	1.51404	2.00244	9.64738
12:07:55				680	10.29947	1.1971239	5.2153	1.4652	2.14896	9.7808
12:07:55				681	10.31196	1.2056491	5.4121	1.51404	2.1978	9.8527
12:07:56				682	10.38217	1.1929434	5.5105	1.4652	2.1978	9.72179
12:07:56				683	10.39369	1.1840957	5.5105	1.4652	1.90476	9.64085
12:07:57				684	10.32547	1.1858648	5.3137	1.4652	2.1978	9.67451
12:07:57				685	10.28506	1.1824887	5.2153	1.41636	2.10012	9.65546
12:07:58				686	10.2889	1.2067766	5.3137	1.4652	2.24664	9.86891
12:07:58				687	10.37731	1.1902074	5.5105	1.4652	2.10012	9.69899
12:07:59				688	10.36676	1.1898857	5.5105	1.4652	1.90476	9.69896
12:07:59				689	10.31196	1.1940687	5.3137	1.4652	2.00244	9.75047
12:08:00				690	10.33699	1.1976075	5.3137	1.51404	1.9536	9.77499
12:08:00				691	10.38025	1.1998589	5.3137	1.4652	2.00244	9.78325
12:08:01				692	10.4052	1.203236	5.4121	1.4652	2.14896	9.8063
12:08:01				693	10.42918	1.1979296	5.4121	1.41636	1.90476	9.75316
12:08:02				694	10.41	1.1929433	5.4121	1.4652	1.7094	9.7144
12:08:02				695	10.35812	1.2058106	5.3137	1.4652	1.85592	9.84168
12:08:03				696	10.39177	1.1995362	5.4121	1.4652	2.1978	9.77731
12:08:03				697	10.42534	1.1942294	5.4121	1.4652	1.7094	9.72163
12:08:04				698	10.3514	1.1807192	5.3137	1.4652	1.9536	9.62232
12:08:04				699	10.33795	1.2067764	5.3137	1.4652	2.05128	9.85565
12:08:05				700	10.41192	1.1921383	5.5105	1.4652	1.9536	9.70679
12:08:05				701	10.4004	1.1913336	5.4121	1.41636	1.7094	9.70278
12:08:06				702	10.34948	1.1879561	5.3137	1.4652	1.90476	9.68658
12:08:06	12:06:51 end transect	10.0	270	703	10.35044	1.1927825	5.5105	1.4652	2.05128	9.72883
12:08:07				704	10.35812	1.186831	5.5105	1.41636	2.00244	9.67434
12:08:07				705	10.33411	1.1900467	5.3137	1.4652	2.00244	9.70909
12:08:08				706	10.34372	1.1940686	5.3137	1.51404	2.1978	9.74199
12:08:08				707	10.39465	1.2001816	5.4121	1.4652	2.05128	9.78223
12:08:09				708	10.40808	1.1937463	5.5105	1.4652	2.1978	9.72196
12:08:09				709	10.39753	1.1919774	5.3137	1.4652	2.10012	9.70923

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:08:10				710	10.35428	1.1799152	5.2153	1.4652	2.00244	9.6145
12:08:10				711	10.33315	1.2050069	5.4121	1.4652	2.14896	9.84131
12:08:11				712	10.3158	1.1865097	5.5105	1.41636	2.29548	9.68274
12:08:11				713	10.31677	1.1821654	5.4121	1.4652	1.9536	9.64419
12:08:12				714	10.27833	1.1845778	5.2153	1.4652	2.10012	9.67568
12:08:12				715	10.29467	1.206132	5.3137	1.4652	2.29548	9.86166
12:08:13				716	10.4004	1.2016277	5.5105	1.4652	1.90476	9.79341
12:08:13				717	10.4263	1.1918164	5.5105	1.41636	1.9536	9.70014
12:08:14				718	10.38697	1.1947128	5.4121	1.4652	1.90476	9.73611
12:08:14				719	10.33699	1.1820049	5.3137	1.4652	2.05128	9.63745
12:08:15				720	10.33219	1.1953553	5.4121	1.41636	2.10012	9.7564
12:08:15				721	10.32163	1.1987343	5.5105	1.4652	2.00244	9.78903
12:08:16				722	10.36772	1.1840958	5.5105	1.51404	2.14896	9.64772
12:08:16				723	10.33411	1.1887601	5.4121	1.4652	2.10012	9.69773
12:08:17				724	10.31292	1.1857042	5.2153	1.51404	2.34432	9.67644
12:08:18				727	10.33315	1.1894187	5.4121	1.4652	1.90476	9.70379
12:08:19				728	10.3149	1.1894188	5.4121	1.4652	2.58852	9.70865
12:08:19				729	10.31971	1.1894188	5.4121	1.4652	1.9536	9.70737
12:08:20				730	10.32547	1.1940841	5.4121	1.4652	2.442	9.74698
12:08:20				731	10.34282	1.196978	5.5105	1.4652	2.29548	9.76785
12:08:21				732	10.37642	1.1936008	5.4121	1.4652	2.00244	9.72913
12:08:21				733	10.35722	1.1897403	5.4121	1.41636	1.80708	9.70023
12:08:22				734	10.32259	1.1849143	5.4121	1.4652	2.1978	9.66688
12:08:22				735	10.29377	1.1849144	5.3137	1.4652	2.24664	9.67454
12:08:23				736	10.28121	1.1921543	5.3137	1.41636	2.05128	9.74179
12:08:23				737	10.28992	1.1964968	5.5105	1.51404	2.10012	9.77778
12:08:24				738	10.30434	1.1907058	5.5105	1.4652	2.10012	9.7228
12:08:24				739	10.28416	1.1842721	5.3137	1.4652	2.00244	9.67143
12:08:25				740	10.28992	1.1853984	5.4121	1.4652	2.10012	9.67982
12:08:25				741	10.2832	1.185075	5.4121	1.41636	2.00244	9.67875
12:08:26				742	10.27833	1.1852379	5.4121	1.4652	2.10012	9.68148
12:08:26				743	10.27833	1.1852379	5.4121	1.4652	2.29548	9.68148
12:08:27				744	10.27641	1.1849145	5.5105	1.4652	2.00244	9.67912
12:08:27				745	10.27641	1.1836277	5.4121	1.4652	2.00244	9.66778
12:08:28				746	10.27256	1.1845933	5.4121	1.4652	2.05128	9.67732
12:08:28				747	10.27353	1.1842721	5.4121	1.4652	2.10012	9.67423
12:08:29				748	10.27353	1.1834672	5.5105	1.4652	2.10012	9.66711
12:08:29				749	10.26968	1.1825019	5.4121	1.41636	2.05128	9.65963
12:08:30				750	10.26584	1.1818601	5.4121	1.4652	2.24664	9.65498
12:08:30				751	10.26199	1.179608	5.4121	1.4652	2.05128	9.63612
12:08:31				752	10.25622	1.182502	5.4121	1.4652	2.14896	9.6632
12:08:31				753	10.25911	1.1799287	5.4121	1.4652	2.14896	9.63971
12:08:32				754	10.25045	1.1797684	5.4121	1.4652	2.24664	9.64059
12:08:32				755	10.23314	1.1833068	5.4121	1.4652	2.14896	9.67643
12:08:33				756	10.25045	1.1839511	5.4121	1.4652	2.10012	9.67753

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:08:33				757	10.26968	1.1797683	5.4121	1.4652	2.1978	9.6355
12:08:34				758	10.2543	1.1788043	5.4121	1.4652	2.24664	9.63106
12:08:34				759	10.24757	1.1778383	5.4121	1.4652	2.29548	9.62431
12:08:35				760	10.24276	1.1789646	5.4121	1.4652	2.14896	9.63553
12:08:35				761	10.24276	1.1812163	5.4121	1.4652	2.10012	9.65541
12:08:36				762	10.25718	1.1775156	5.4121	1.41636	2.00244	9.61892
12:08:36				763	10.23314	1.1770351	5.4121	1.4652	2.10012	9.62103
12:08:37				764	10.23314	1.1833068	5.4121	1.4652	2.1978	9.67643
12:08:37				765	10.25238	1.1828252	5.5105	1.4652	2.10012	9.66706
12:08:38				766	10.26968	1.1778382	5.5105	1.4652	2.05128	9.61846
12:08:38				767	10.24949	1.1768726	5.4121	1.4652	2.14896	9.61528
12:08:39				768	10.25045	1.1820206	5.4121	1.4652	2.1978	9.66048
12:08:39				769	10.25238	1.1783213	5.5105	1.4652	2.14896	9.62729
12:08:40				770	10.25238	1.1771952	5.4121	1.4652	2.10012	9.61736
12:08:40				771	10.24949	1.1773554	5.4121	1.4652	2.24664	9.61954
12:08:41				772	10.24661	1.178161	5.4121	1.4652	2.29548	9.62741
12:08:41				773	10.24949	1.1784815	5.4121	1.4652	2.53968	9.62948
12:08:42				774	10.25045	1.1771952	5.4121	1.4652	2.00244	9.61787
12:08:42				775	10.24757	1.1760695	5.4121	1.41636	2.10012	9.6087
12:08:43				776	10.24757	1.1741395	5.4121	1.4652	2.14896	9.59166
12:08:43				777	10.2418	1.1744597	5.4121	1.4652	2.1978	9.59601
12:08:44				778	10.23988	1.1752645	5.4121	1.4652	2.14896	9.60362
12:08:44				779	10.24084	1.1862019	5.4121	1.4652	2.05128	9.69997
12:08:45				780	10.24757	1.1776781	5.4121	1.4652	2.10012	9.6229
12:08:45				781	10.25141	1.1762297	5.4121	1.4652	2.14896	9.60909
12:08:46				782	10.24757	1.1866839	5.4121	1.4652	2.1978	9.70243
12:08:46				783	10.25238	1.1775156	5.4121	1.4652	2.24664	9.62019
12:08:47				784	10.25334	1.1760695	5.4121	1.4652	2.14896	9.60717
12:08:47				785	10.24757	1.1789646	5.4121	1.4652	2.14896	9.63426
12:08:48				786	10.25045	1.180412	5.4121	1.4652	2.34432	9.64627
12:08:48				787	10.25718	1.1760695	5.5105	1.4652	2.34432	9.60615
12:08:49				788	10.24949	1.1763899	5.4121	1.4652	2.34432	9.61102
12:08:49				789	10.24757	1.1779986	5.3137	1.4652	2.10012	9.62574
12:08:50				790	10.24661	1.1805724	5.4121	1.4652	2.24664	9.64871
12:08:50				791	10.24757	1.1771952	5.5105	1.4652	2.29548	9.61862
12:08:51				792	10.25141	1.1773554	5.5105	1.4652	2.05128	9.61902
12:08:51				793	10.24949	1.1760695	5.4121	1.41636	2.05128	9.60819
12:08:52				794	10.24757	1.1754268	5.4121	1.4652	2.6862	9.60302
12:08:52				795	10.23891	1.173175	5.4121	1.4652	2.29548	9.58542
12:08:53				796	10.24084	1.1714044	5.4121	1.4652	2.10012	9.56929
12:08:53				797	10.22737	1.1739774	5.5105	1.51404	2.14896	9.59553
12:08:54				798	10.2225	1.1741396	5.5105	1.41636	2.05128	9.59825
12:08:54				799	10.23026	1.173335	5.4121	1.4652	2.14896	9.58912
12:08:55				800	10.23314	1.1715666	5.3137	1.4652	2.10012	9.57276
12:08:55				801	10.23314	1.1863626	5.4121	1.4652	2.14896	9.70344

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:08:56				802	10.24565	1.1775157	5.6089	1.4652	2.1978	9.62194
12:08:56				803	10.24757	1.1757471	5.5105	1.4652	2.14896	9.60584
12:08:57				804	10.23603	1.1722085	5.4121	1.41636	2.1978	9.57765
12:08:57				805	10.23507	1.1714045	5.4121	1.4652	2.14896	9.57081
12:08:58				806	10.22347	1.1738173	5.4121	1.4652	2.1978	9.59516
12:08:58				807	10.20711	1.1744598	5.5105	1.4652	2.29548	9.60514
12:08:59				808	10.22545	1.1728528	5.5105	1.4652	2.1978	9.58611
12:08:59				809	10.22154	1.1728528	5.4121	1.4652	2.1978	9.58715
12:09:00				810	10.22347	1.1717265	5.5105	1.4652	2.05128	9.57669
12:09:00				811	10.2293	1.1728528	5.4121	1.41636	2.14896	9.58511
12:09:01				812	10.23795	1.1723707	5.4121	1.51404	2.24664	9.57858
12:09:01				813	10.24468	1.1755869	5.4121	1.51404	2.29548	9.6052
12:09:02				814	10.24853	1.1810558	5.4121	1.4652	2.39316	9.65247
12:09:02				815	10.25622	1.1799287	5.5105	1.4652	2.05128	9.64046
12:09:03				816	10.2668	1.1723706	5.5105	1.41636	2.00244	9.57098
12:09:03				817	10.24949	1.1746219	5.4121	1.4652	2.10012	9.59541
12:09:04				818	10.24949	1.173495	5.4121	1.4652	2.1978	9.58547
12:09:04				819	10.25045	1.1739773	5.4121	1.4652	2.24664	9.58947
12:09:05				820	10.25238	1.1738172	5.5105	1.4652	2.29548	9.58754
12:09:05				821	10.25045	1.1725306	5.5105	1.41636	2.14896	9.57669
12:09:06				822	10.24661	1.1738172	5.4121	1.4652	2.00244	9.58907
12:09:06				823	10.24661	1.173495	5.4121	1.4652	2.34432	9.58622
12:09:07				824	10.24565	1.173335	5.4121	1.4652	2.24664	9.58507
12:09:07	12:07:52 no flow			825	10.24468	1.1728528	5.4121	1.4652	2.14896	9.58106
12:09:08				826	10.23988	1.173175	5.4121	1.4652	2.14896	9.58517
12:09:08				827	10.23699	1.1723707	5.4121	1.4652	2.29548	9.57883
12:09:09				828	10.23795	1.1736572	5.5105	1.4652	2.1978	9.58992
12:09:09				829	10.24372	1.1725306	5.5105	1.4652	2.05128	9.57846
12:09:10				830	10.23795	1.173175	5.4121	1.4652	2.39316	9.58568
12:09:10				831	10.24276	1.1828252	5.4121	1.4652	2.24664	9.66962
12:09:11				832	10.25814	1.1786418	5.4121	1.4652	2.05128	9.62861
12:09:11				833	10.2668	1.1773554	5.5105	1.4652	2.05128	9.61496
12:09:12				834	10.25334	1.1741395	5.5105	1.41636	2.1978	9.59013
12:09:12				835	10.24468	1.1741395	5.4121	1.4652	2.14896	9.59242
12:09:13				836	10.24276	1.1820206	5.4121	1.4652	2.05128	9.66252
12:09:13				837	10.24276	1.1802517	5.5105	1.4652	2.14896	9.64688
12:09:14				838	10.24853	1.1759072	5.5105	1.41636	2.1978	9.607
12:09:14				839	10.24372	1.174782	5.4121	1.41636	2.24664	9.59834
12:09:15				840	10.24565	1.1821811	5.4121	1.4652	2.10012	9.66317
12:09:15				841	10.25814	1.1792852	5.5105	1.4652	2.34432	9.63427
12:09:16				842	10.26391	1.1768725	5.4121	1.4652	2.10012	9.61147
12:09:16				843	10.25814	1.1816975	5.4121	1.4652	2.05128	9.65558
12:09:17				844	10.26584	1.1810558	5.5105	1.41636	2.34432	9.64787
12:09:18				847	10.26692	1.1797749	5.3137	1.4652	2.10012	9.63631
12:09:19				848	10.25634	1.1784881	5.5105	1.4652	2.1978	9.62771

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:09:19				849	10.25538	1.1759159	5.4121	1.41636	2.14896	9.60528
12:09:20				850	10.25057	1.1760761	5.4121	1.4652	2.1978	9.60796
12:09:20				851	10.2448	1.1693218	5.4121	1.4652	2.14896	9.54987
12:09:21				852	10.23711	1.1691598	5.4121	1.4652	2.39316	9.55046
12:09:21				853	10.21691	1.1696437	5.4121	1.4652	2.14896	9.56003
12:09:22				854	10.21108	1.1731817	5.5105	1.41636	2.1978	9.5928
12:09:22				855	10.22076	1.1718953	5.5105	1.4652	2.24664	9.57889
12:09:23				856	10.22653	1.1710913	5.5105	1.4652	2.14896	9.57027
12:09:23				857	10.22942	1.175916	5.4121	1.4652	2.10012	9.61213
12:09:24				858	10.23519	1.178811	5.5105	1.4652	2.1978	9.63616
12:09:24				859	10.24769	1.1743062	5.5105	1.4652	2.34432	9.59308
12:09:25				860	10.24384	1.1739861	5.5105	1.4652	2.14896	9.59127
12:09:25				861	10.24096	1.175916	5.4121	1.4652	2.10012	9.60908
12:09:26				862	10.24384	1.1762363	5.4121	1.4652	2.05128	9.61115
12:09:26				863	10.24961	1.1770416	5.5105	1.4652	2.05128	9.61672
12:09:27				864	10.2525	1.1747886	5.5105	1.41636	2.10012	9.59608
12:09:27				865	10.2448	1.1783279	5.4121	1.4652	2.14896	9.62936
12:09:28				866	10.24577	1.1780052	5.4121	1.4652	2.14896	9.62626
12:09:28				867	10.24865	1.1741461	5.4121	1.4652	2.1978	9.59143
12:09:29				868	10.24577	1.1765588	5.5105	1.4652	2.05128	9.61348
12:09:29				869	10.24673	1.1786484	5.5105	1.4652	2.29548	9.63167
12:09:30				870	10.24769	1.1763987	5.5105	1.4652	2.24664	9.61156
12:09:30				871	10.24865	1.1760761	5.4121	1.4652	2.53968	9.60847
12:09:31				872	10.24288	1.1775244	5.4121	1.4652	2.24664	9.62278
12:09:31				873	10.24384	1.177362	5.4121	1.4652	2.24664	9.62109
12:09:32				874	10.24769	1.1765588	5.5105	1.4652	2.29548	9.61297
12:09:32				875	10.24673	1.1763987	5.5105	1.4652	2.05128	9.61181
12:09:33				876	10.24577	1.1752711	5.5105	1.4652	2.10012	9.60211
12:09:33				877	10.24384	1.1754334	5.4121	1.4652	2.29548	9.60406
12:09:34				878	10.24288	1.1752711	5.4121	1.4652	2.10012	9.60288
12:09:34				879	10.24384	1.1752711	5.5105	1.4652	2.14896	9.60262
12:09:35				880	10.24288	1.175111	5.4121	1.4652	2.05128	9.60147
12:09:35				881	10.24384	1.1749509	5.4121	1.4652	1.9536	9.5998
12:09:36				882	10.24288	1.1749509	5.4121	1.4652	2.24664	9.60006
12:09:36				883	10.24384	1.175111	5.5105	1.4652	2.1978	9.6012
12:09:37				884	10.24288	1.1749509	5.6089	1.41636	2.1978	9.60003
12:09:37				885	10.24192	1.1743062	5.4121	1.4652	2.39316	9.59462
12:09:38				886	10.24	1.1739861	5.5105	1.4652	2.00244	9.59229
12:09:38				887	10.24096	1.1754334	5.5105	1.4652	2.14896	9.60481
12:09:39				888	10.24096	1.1723772	5.4121	1.4652	2.14896	9.57785
12:09:39				889	10.24	1.1765588	5.4121	1.4652	2.05128	9.61501
12:09:40				890	10.24	1.1776847	5.4121	1.4652	2.34432	9.62496
12:09:40				891	10.24384	1.176719	5.5105	1.4652	2.24664	9.6154
12:09:41				892	10.24192	1.1746285	5.5105	1.4652	2.29548	9.59745
12:09:41				893	10.24096	1.1744684	5.4121	1.51404	2.05128	9.5963

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:09:42				894	10.23903	1.1698035	5.4121	1.41636	2.10012	9.55564
12:09:42				895	10.24	1.1765588	5.4121	1.4652	2.14896	9.61501
12:09:43				896	10.23903	1.1752711	5.5105	1.4652	2.39316	9.60388
12:09:43				897	10.23807	1.1730194	5.5105	1.4652	2.34432	9.58426
12:09:44				898	10.23807	1.171411	5.4121	1.4652	2.14896	9.57008
12:09:44				899	10.23711	1.1781676	5.4121	1.4652	2.1978	9.62998
12:09:45				900	10.23903	1.175916	5.5105	1.4652	2.1978	9.60958
12:09:45				901	10.24	1.1746285	5.5105	1.4652	2.1978	9.59796
12:09:46				902	10.23807	1.1746285	5.5105	1.4652	2.39316	9.59846
12:09:46				903	10.23807	1.1746285	5.5105	1.4652	2.24664	9.59846
12:09:47				904	10.23807	1.1743062	5.4121	1.41636	2.24664	9.59563
12:09:47				905	10.23807	1.1731816	5.5105	1.4652	2.34432	9.58569
12:09:48				906	10.23807	1.1772018	5.4121	1.4652	2.39316	9.6212
12:09:48				907	10.23519	1.175916	5.5105	1.4652	2.10012	9.61059
12:09:49				908	10.23711	1.1738239	5.5105	1.4652	2.14896	9.59161
12:09:49				909	10.23711	1.1735038	5.5105	1.4652	2.14896	9.58879
12:09:50				910	10.23519	1.1762363	5.4121	1.4652	2.29548	9.61344
12:09:50				911	10.23519	1.1772018	5.4121	1.4652	2.29548	9.62196
12:09:51				912	10.23519	1.1765589	5.5105	1.4652	2.24664	9.61627
12:09:51				913	10.23615	1.1743062	5.5105	1.4652	2.49084	9.59613
12:09:52				914	10.23519	1.1749509	5.4121	1.41636	2.05128	9.60208
12:09:52				915	10.23519	1.175916	5.4121	1.4652	2.10012	9.61061
12:09:53				916	10.23423	1.1781677	5.4121	1.4652	2.442	9.63075
12:09:53				917	10.23807	1.1755936	5.5105	1.4652	2.1978	9.60698
12:09:54				918	10.23711	1.1749509	5.4121	1.51404	2.1978	9.60158
12:09:54				919	10.23615	1.1755935	5.4121	1.4652	2.14896	9.60751
12:09:55				920	10.23711	1.176719	5.4121	1.4652	2.24664	9.61719
12:09:55				921	10.24192	1.175916	5.4121	1.4652	2.14896	9.60883
12:09:56				922	10.24	1.1776847	5.4121	1.4652	2.29548	9.62496
12:09:56				923	10.23903	1.1852446	5.4121	1.4652	2.10012	9.69199
12:09:57				924	10.25538	1.1929638	5.5105	1.41636	2.14896	9.75583
12:09:57				925	10.29389	1.1982726	5.7073	1.4652	2.10012	9.79237
12:09:58				926	10.33525	1.2058329	5.7073	1.51404	2.14896	9.84799
12:09:58				927	10.39962	1.2063155	5.904	1.4652	2.05128	9.83486
12:09:59				928	10.43415	1.2066365	6.1992	1.4652	1.66056	9.82835
12:09:59				929	10.4447	1.2050287	6.2976	1.4652	1.75824	9.81135
12:10:00				930	10.44662	1.2064748	6.4943	1.4652	1.61172	9.82353
12:10:00				931	10.45147	1.2087283	6.9862	1.4652	1.75824	9.84199
12:10:01				932	10.45531	1.2067983	7.2814	1.4652	1.80708	9.82393
12:10:01				933	10.45914	1.2069578	7.183	1.4652	1.9536	9.82432
12:10:02				934	10.45722	1.2079238	7.183	1.41636	1.9536	9.83333
12:10:02				935	10.46777	1.2096926	7.3798	1.4652	1.80708	9.84603
12:10:03				936	10.48406	1.2090497	7.5765	1.4652	1.7094	9.83596
12:10:03				937	10.49077	1.2085664	7.4781	1.4652	1.66056	9.82992
12:10:04				938	10.48502	1.2104976	7.5765	1.4652	1.66056	9.84844

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:10:04				939	10.49077	1.2082451	7.5765	1.4652	2.00244	9.82708
12:10:05				940	10.49172	1.2080855	7.5765	1.4652	1.90476	9.82542
12:10:05				941	10.48406	1.2084069	7.4781	1.4652	1.66056	9.83032
12:10:06				942	10.48119	1.2093711	7.4781	1.4652	1.75824	9.83958
12:10:06				943	10.48789	1.2100141	7.5765	1.4652	1.75824	9.84341
12:10:07				944	10.49747	1.2087282	7.5765	1.41636	1.7094	9.82953
12:10:07				945	10.48981	1.2087282	7.4781	1.51404	1.56288	9.8316
12:10:08				946	10.4831	1.2092115	7.4781	1.4652	1.80708	9.83766
12:10:08				947	10.48885	1.2104975	7.5765	1.4652	1.7094	9.84741
12:10:09				948	10.50322	1.2106572	7.6749	1.4652	1.7094	9.84493
12:10:09				949	10.50999	1.2095329	7.5765	1.4652	1.85592	9.83324
12:10:10				950	10.50035	1.2095329	7.5765	1.4652	1.90476	9.83583
12:10:10				951	10.49077	1.2092115	7.4781	1.4652	1.66056	9.8356
12:10:11				952	10.48885	1.2103356	7.4781	1.4652	1.7094	9.846
12:10:11				953	10.49556	1.2103356	7.5765	1.4652	1.75824	9.84418
12:10:12				954	10.50418	1.2095329	7.6749	1.4652	1.61172	9.83479
12:10:12				955	10.50903	1.209371	7.5765	1.4652	1.61172	9.83207
12:10:13				956	10.50131	1.2093711	7.5765	1.4652	1.61172	9.83415
12:10:13				957	10.49747	1.2095329	7.4781	1.4652	1.75824	9.83662
12:10:14				958	10.49747	1.2103356	7.5765	1.4652	1.75824	9.84366
12:10:14				959	10.50322	1.2096925	7.5765	1.51404	1.80708	9.83646
12:10:15				960	10.50035	1.2095329	7.5765	1.4652	1.61172	9.83583
12:10:15				961	10.49652	1.2096925	7.4781	1.41636	1.66056	9.83828
12:10:16				962	10.50035	1.2093711	7.4781	1.4652	1.85592	9.83442
12:10:16				963	10.49843	1.2096926	7.5765	1.51404	1.61172	9.83775
12:10:17				964	10.50035	1.2093711	7.5765	1.4652	1.66056	9.83441
12:10:18				967	10.49658	1.2093622	7.5765	1.4652	1.75824	9.83534
12:10:19				968	10.49753	1.2088789	7.4781	1.4652	1.51404	9.83085
12:10:19				969	10.49274	1.208398	7.4781	1.4652	1.61172	9.82791
12:10:20				970	10.48891	1.2093622	7.4781	1.4652	1.85592	9.83742
12:10:20				971	10.49083	1.2085576	7.5765	1.4652	1.61172	9.82982
12:10:21				972	10.49083	1.2090408	7.5765	1.51404	1.61172	9.83406
12:10:21				973	10.48795	1.2104887	7.4781	1.51404	1.75824	9.84758
12:10:22				974	10.4937	1.2112938	7.4781	1.4652	1.85592	9.85311
12:10:22				975	10.51094	1.2112937	7.5765	1.4652	2.10012	9.84846
12:10:23				976	10.51765	1.2106505	7.5765	1.4652	1.61172	9.841
12:10:23				977	10.51956	1.210167	7.5765	1.4652	1.4652	9.83624
12:10:24				978	10.51382	1.2109721	7.5765	1.41636	1.7094	9.84486
12:10:24				979	10.50999	1.2112937	7.5765	1.4652	1.7094	9.84871
12:10:25				980	10.51382	1.2104886	7.5765	1.4652	1.61172	9.84061
12:10:25				981	10.51382	1.2103267	7.5765	1.4652	1.4652	9.83919
12:10:26				982	10.50807	1.210167	7.5765	1.4652	2.00244	9.83933
12:10:26				983	10.50807	1.210167	7.5765	1.4652	1.9536	9.83933
12:10:27				984	10.51094	1.2103267	7.5765	1.4652	2.34432	9.83996
12:10:27				985	10.50999	1.210167	7.5765	1.4652	1.75824	9.83881

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:10:28				986	10.50999	1.2104886	7.5765	1.4652	1.66056	9.84164
12:10:28				987	10.5119	1.2104886	7.5765	1.4652	1.4652	9.84112
12:10:29				988	10.5119	1.2109721	7.5765	1.41636	1.51404	9.84537
12:10:29				989	10.51382	1.2109721	7.5765	1.4652	1.61172	9.84486
12:10:30				990	10.51669	1.2093621	7.5765	1.51404	1.90476	9.82994
12:10:30				991	10.5052	1.2098455	7.4781	1.4652	1.56288	9.83729
12:10:31				992	10.50041	1.2098455	7.5765	1.4652	1.61172	9.83856
12:10:31				993	10.50807	1.2108102	7.5765	1.4652	1.66056	9.84498
12:10:32				994	10.51478	1.210167	7.5765	1.4652	2.00244	9.83752
12:10:32				995	10.51094	1.2108102	7.5765	1.4652	1.61172	9.84421
12:10:33				996	10.51478	1.207753	7.5765	1.4652	1.56288	9.81631
12:10:33				997	10.49562	1.2090408	7.5765	1.4652	1.7094	9.83278
12:10:34				998	10.49849	1.2087193	7.5765	1.4652	1.61172	9.82918
12:10:34				999	10.49562	1.2080766	7.5765	1.4652	1.61172	9.8243
12:10:35				1000	10.48795	1.208398	7.5765	1.4652	1.56288	9.82919
12:10:35				1001	10.48508	1.208879	7.5765	1.4652	1.66056	9.83419
12:10:36				1002	10.48891	1.2085576	7.6749	1.4652	1.7094	9.83032
12:10:36				1003	10.48891	1.208398	7.6749	1.4652	1.80708	9.82891
12:10:37				1004	10.48412	1.2080767	7.5765	1.4652	1.75824	9.82739
12:10:37				1005	10.48412	1.208398	7.5765	1.41636	1.66056	9.83022
12:10:38				1006	10.48508	1.2082362	7.5765	1.4652	1.66056	9.82854
12:10:38				1007	10.48412	1.2085576	7.4781	1.51404	1.7094	9.83163
12:10:39				1008	10.48124	1.2082362	7.3798	1.4652	1.7094	9.82959
12:10:39				1009	10.48316	1.2082362	7.3798	1.4652	2.00244	9.82908
12:10:40				1010	10.48604	1.2082362	7.3798	1.4652	1.7094	9.82831
12:10:40				1011	10.48604	1.2100052	7.3798	1.4652	1.80708	9.84386
12:10:41				1012	10.49083	1.2109721	7.2814	1.4652	1.85592	9.85109
12:10:41				1013	10.51094	1.2090407	7.5765	1.4652	1.61172	9.82866
12:10:42				1014	10.51478	1.2085575	7.5765	1.4652	1.61172	9.82338
12:10:42				1015	10.50903	1.2092025	7.5765	1.4652	1.80708	9.83059
12:10:43				1016	10.50615	1.2093622	7.5765	1.51404	1.9536	9.83277
12:10:43				1017	10.50328	1.2092026	7.4781	1.4652	1.66056	9.83215
12:10:44				1018	10.50137	1.2093622	7.4781	1.4652	1.7094	9.83407
12:10:44				1019	10.49753	1.2088789	7.4781	1.4652	1.85592	9.83085
12:10:45				1020	10.49753	1.2083979	7.3798	1.4652	1.66056	9.82664
12:10:45				1021	10.48987	1.207753	7.0846	1.4652	1.61172	9.82307
12:10:46				1022	10.47352	1.2061448	6.8878	1.4652	1.80708	9.81335
12:10:46				1023	10.44093	1.2048584	6.9862	1.4652	1.9536	9.81077
12:10:47				1024	10.42846	1.2046968	6.9862	1.4652	1.80708	9.81269
12:10:47				1025	10.42175	1.2046968	6.8878	1.4652	1.90476	9.81451
12:10:48				1026	10.42079	1.2046968	6.7895	1.4652	1.85592	9.81478
12:10:48				1027	10.42175	1.2055027	6.8878	1.4652	1.90476	9.82161
12:10:49				1028	10.41887	1.2055028	7.0846	1.4652	2.00244	9.82235
12:10:49				1029	10.42175	1.2051795	7.0846	1.4652	1.85592	9.81873
12:10:50				1030	10.42175	1.2058239	7.0846	1.4652	1.9536	9.8244

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:10:50	12:09:35 start transect	10.0	180	1031	10.43038	1.2067895	7.183	1.4652	2.10012	9.83057
12:10:51				1032	10.44284	1.2066278	7.183	1.4652	2.05128	9.8258
12:10:51				1033	10.44189	1.206949	7.183	1.4652	1.66056	9.82888
12:10:52				1034	10.45435	1.2067894	7.183	1.4652	1.80708	9.82413
12:10:52				1035	10.45435	1.2072724	7.2814	1.4652	1.66056	9.82836
12:10:53				1036	10.45627	1.2071107	7.3798	1.4652	1.85592	9.82641
12:10:53				1037	10.4601	1.2075936	7.183	1.4652	1.9536	9.82966
12:10:54				1038	10.47256	1.2082362	6.9862	1.4652	1.85592	9.83199
12:10:54				1039	10.4755	1.2085576	7.0846	1.41636	1.7094	9.83401
12:10:55				1040	10.48029	1.208879	7.183	1.4652	1.66056	9.83553
12:10:55				1041	10.48412	1.2085575	7.0846	1.51404	1.80708	9.83169
12:10:56				1042	10.48412	1.2088789	6.9862	1.4652	1.75824	9.83453
12:10:56				1043	10.48699	1.2092026	6.9862	1.4652	2.05128	9.8366
12:10:57				1044	10.49466	1.2098455	6.9862	1.4652	1.85592	9.84019
12:10:57				1045	10.50424	1.2100051	6.9862	1.4652	1.7094	9.83902
12:10:58				1046	10.5052	1.209524	6.9862	1.4652	1.66056	9.83453
12:10:58				1047	10.5052	1.2098454	6.9862	1.4652	1.56288	9.83736
12:10:59				1048	10.50999	1.2100051	7.0846	1.4652	1.66056	9.83746
12:10:59				1049	10.5119	1.2098454	7.183	1.4652	1.85592	9.83553
12:11:00				1050	10.50903	1.2100051	7.183	1.4652	1.80708	9.8377
12:11:00				1051	10.50999	1.2100051	7.183	1.4652	1.66056	9.83745
12:11:01				1052	10.51094	1.2103266	7.183	1.4652	1.75824	9.84002
12:11:01				1053	10.5119	1.2108101	7.2814	1.4652	1.75824	9.84399
12:11:02				1054	10.51573	1.2109721	7.3798	1.51404	1.56288	9.84437
12:11:02				1055	10.51861	1.2112937	7.3798	1.4652	1.66056	9.84642
12:11:03				1056	10.52244	1.2114534	7.3798	1.41636	1.75824	9.8468
12:11:03				1057	10.52052	1.2116154	7.3798	1.4652	1.90476	9.84873
12:11:04				1058	10.52244	1.2114534	7.3798	1.4652	1.75824	9.8468
12:11:04				1059	10.52052	1.2114534	7.2814	1.4652	1.75824	9.84733
12:11:05				1060	10.52148	1.2116153	7.3798	1.4652	1.75824	9.84848
12:11:05				1061	10.52244	1.2117751	7.3798	1.4652	1.90476	9.84962
12:11:06				1062	10.52148	1.2117751	7.3798	1.51404	1.75824	9.84988
12:11:06				1063	10.52435	1.211937	7.2814	1.4652	1.7094	9.85054
12:11:07				1064	10.52627	1.211937	7.2814	1.4652	1.66056	9.85003
12:11:07				1065	10.52723	1.2120968	7.3798	1.4652	1.7094	9.85116
12:11:08				1066	10.52531	1.2120968	7.3798	1.4652	1.51404	9.85168
12:11:08				1067	10.52339	1.2120968	7.2814	1.4652	1.56288	9.85221
12:11:09				1068	10.52627	1.2122588	7.2814	1.41636	1.75824	9.85285
12:11:09				1069	10.52627	1.2124185	7.3798	1.4652	1.51404	9.85424
12:11:10				1070	10.52339	1.2124186	7.3798	1.4652	1.61172	9.85502
12:11:10				1071	10.52339	1.2124186	7.3798	1.4652	1.61172	9.85502
12:11:11				1072	10.52531	1.2129023	7.3798	1.4652	1.80708	9.85875
12:11:11				1073	10.52339	1.213384	7.4781	1.4652	1.75824	9.86349
12:11:12				1074	10.52435	1.2132242	7.4781	1.51404	1.85592	9.86182
12:11:12				1075	10.52339	1.2130622	7.4781	1.4652	1.9536	9.86066

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:11:13				1076	10.52435	1.2132242	7.3798	1.4652	1.85592	9.86184
12:11:13				1077	10.52435	1.2143498	7.4781	1.4652	1.7094	9.87172
12:11:14				1078	10.52627	1.213384	7.4781	1.4652	1.61172	9.86271
12:11:14				1079	10.52723	1.2137059	7.4781	1.4652	1.9536	9.86528
12:11:15				1080	10.52627	1.2140278	7.4781	1.41636	1.75824	9.86837
12:11:15				1081	10.52723	1.2138657	7.4781	1.4652	2.05128	9.86669
12:11:16				1082	10.52723	1.2130622	7.4781	1.51404	1.75824	9.85963
12:11:16				1083	10.52818	1.2127403	7.3798	1.4652	1.61172	9.85656
12:11:17				1084	10.52531	1.2125806	7.4781	1.4652	1.80708	9.85591
12:11:18				1087	10.52543	1.2125939	7.3798	1.4652	1.66056	9.85601
12:11:19				1088	10.52256	1.2124341	7.3798	1.4652	1.75824	9.85538
12:11:19				1089	10.52351	1.2124341	7.3798	1.4652	1.7094	9.85512
12:11:20				1090	10.52256	1.2125939	7.3798	1.4652	1.7094	9.85678
12:11:20				1091	10.52351	1.2127559	7.3798	1.4652	1.66056	9.85795
12:11:21				1092	10.52543	1.2127559	7.3798	1.41636	1.7094	9.85743
12:11:21				1093	10.52735	1.2130777	7.3798	1.4652	1.66056	9.85975
12:11:22				1094	10.5283	1.2133995	7.4781	1.51404	1.75824	9.8623
12:11:22				1095	10.52639	1.2133995	7.4781	1.4652	1.9536	9.86282
12:11:23				1096	10.52735	1.2135594	7.4781	1.4652	1.75824	9.86396
12:11:23				1097	10.52926	1.2137214	7.5765	1.41636	1.75824	9.86486
12:11:24				1098	10.5283	1.2135594	7.5765	1.51404	1.56288	9.86369
12:11:24				1099	10.53022	1.2135594	7.5765	1.4652	1.61172	9.86317
12:11:25				1100	10.52926	1.2133995	7.5765	1.4652	1.61172	9.86203
12:11:25				1101	10.52543	1.2133996	7.6749	1.4652	1.4652	9.86305
12:11:26				1102	10.52447	1.2133996	7.7733	1.4652	1.90476	9.86329
12:11:26				1103	10.52256	1.2133996	7.7733	1.4652	2.10012	9.86381
12:11:27				1104	10.5216	1.2133996	7.5765	1.41636	1.61172	9.86409
12:11:27				1105	10.5216	1.2133996	7.5765	1.4652	2.00244	9.86409
12:11:28				1106	10.52064	1.2135594	7.7733	1.4652	1.80708	9.86573
12:11:28				1107	10.5216	1.2133996	7.7733	1.4652	1.66056	9.86407
12:11:29				1108	10.5216	1.2133996	7.6749	1.4652	1.90476	9.86408
12:11:29				1109	10.52064	1.2132375	7.5765	1.4652	1.66056	9.86293
12:11:30				1110	10.52064	1.2133996	7.6749	1.4652	1.7094	9.86434
12:11:30				1111	10.52064	1.2133996	7.7733	1.4652	1.85592	9.86432
12:11:31				1112	10.5216	1.2133996	7.7733	1.4652	1.66056	9.86407
12:11:31				1113	10.52064	1.2132375	7.5765	1.4652	1.56288	9.86293
12:11:32				1114	10.5216	1.2133996	7.6749	1.4652	1.56288	9.86408
12:11:32				1115	10.5216	1.2133996	7.6749	1.4652	1.66056	9.86408
12:11:33				1116	10.52064	1.2133996	7.7733	1.4652	1.66056	9.86432
12:11:33				1117	10.52064	1.2132376	7.7733	1.4652	1.56288	9.8629
12:11:34				1118	10.52064	1.2132376	7.6749	1.4652	1.90476	9.86291
12:11:34				1119	10.5216	1.2132375	7.5765	1.4652	1.85592	9.86267
12:11:35				1120	10.51968	1.2130777	7.6749	1.4652	1.66056	9.86177
12:11:35				1121	10.51968	1.2130778	7.7733	1.41636	1.61172	9.86175
12:11:36				1122	10.52064	1.2132376	7.7733	1.4652	1.75824	9.8629

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:11:36				1123	10.52064	1.2132376	7.7733	1.4652	1.56288	9.8629
12:11:37				1124	10.51968	1.2130777	7.5765	1.51404	1.9536	9.86178
12:11:37				1125	10.52064	1.2130777	7.6749	1.4652	1.85592	9.86151
12:11:38				1126	10.51968	1.2137215	7.7733	1.4652	1.66056	9.86741
12:11:38				1127	10.52064	1.2132376	7.7733	1.4652	1.7094	9.8629
12:11:39				1128	10.51968	1.2132376	7.6749	1.41636	1.66056	9.86317
12:11:39				1129	10.51968	1.2138813	7.7733	1.4652	1.66056	9.86881
12:11:40				1130	10.51968	1.2132376	7.7733	1.51404	1.66056	9.86316
12:11:40				1131	10.51777	1.2132376	7.6749	1.4652	1.75824	9.86369
12:11:41				1132	10.51968	1.2130777	7.6749	1.4652	2.14896	9.86177
12:11:41				1133	10.51968	1.2132376	7.6749	1.4652	2.05128	9.86317
12:11:42				1134	10.51968	1.2129157	7.7733	1.4652	1.80708	9.86033
12:11:42				1135	10.51777	1.2130778	7.7733	1.4652	1.51404	9.86227
12:11:43				1136	10.51777	1.2130778	7.7733	1.4652	1.61172	9.86227
12:11:43				1137	10.51873	1.2130777	7.6749	1.4652	1.61172	9.86203
12:11:44				1138	10.51777	1.2130778	7.6749	1.4652	1.4652	9.86228
12:11:44				1139	10.51681	1.2125939	7.5765	1.4652	1.66056	9.8583
12:11:45				1140	10.51777	1.2124342	7.7733	1.41636	1.56288	9.85661
12:11:45				1141	10.51585	1.2133996	7.8717	1.4652	1.56288	9.8656
12:11:46				1142	10.51585	1.212756	7.8717	1.4652	1.51404	9.85994
12:11:46				1143	10.51681	1.2129157	7.7733	1.4652	1.4652	9.8611
12:11:47				1144	10.51681	1.2129157	7.5765	1.4652	1.56288	9.86113
12:11:47				1145	10.51585	1.2132376	7.6749	1.41636	1.61172	9.8642
12:11:48				1146	10.51777	1.2133996	7.8717	1.51404	1.61172	9.86508
12:11:48				1147	10.51681	1.2130778	7.8717	1.4652	1.7094	9.86251
12:11:49				1148	10.51777	1.2130778	7.6749	1.4652	1.80708	9.86228
12:11:49				1149	10.51681	1.2130777	7.5765	1.4652	1.7094	9.86256
12:11:50				1150	10.51681	1.2133996	7.7733	1.4652	1.66056	9.86536
12:11:50				1151	10.51777	1.2132376	7.8717	1.4652	1.56288	9.86366
12:11:51				1152	10.51873	1.2130778	7.7733	1.4652	1.61172	9.86201
12:11:51				1153	10.51777	1.2127559	7.5765	1.51404	1.66056	9.85947
12:11:52	end transect	10.0	270	1154	10.51777	1.2127559	7.3798	1.51404	1.66056	9.8595
12:11:52				1155	10.51585	1.2122721	7.183	1.4652	1.7094	9.85579
12:11:53				1156	10.5149	1.2114689	6.9862	1.4652	1.51404	9.84902
12:11:53				1157	10.51394	1.2098586	6.2976	1.4652	1.85592	9.83523
12:11:54				1158	10.48897	1.2040678	5.8056	1.4652	1.7094	9.7911
12:11:54				1159	10.36034	1.1801019	5.4121	1.41636	1.90476	9.61452
12:11:55				1160	10.3517	1.1886278	5.2153	1.4652	2.00244	9.69192
12:11:55				1161	10.33153	1.1497047	4.8218	1.51404	2.10012	9.35472
12:11:56				1162	9.90426	0.7650059	4.2315	1.4652	2.10012	6.10438
12:11:56				1163	9.44989	0.5645768	3.9364	1.4652	5.12821	4.46447
12:11:57				1164	9.47136	0.4004208	3.7396	1.4652	8.69353	3.09317
12:11:57				1165	9.40506	0.4109964	3.5428	1.4652	11.72161	3.18604
12:11:58				1166	9.29775	0.3406672	3.0509	1.4652	11.77045	2.61767
12:11:58				1167	9.23037	0.3012715	2.559	1.4652	12.55189	2.30209

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:11:59				1168	9.2059	0.3060746	2.3623	1.51404	12.79609	2.34261
12:11:59				1169	9.19711	0.3025517	2.2639	1.4652	13.13797	2.31461
12:12:00				1170	9.18051	0.2999895	1.6736	1.4652	13.08913	2.29492
12:12:00				1171	9.15797	0.2980688	1.3784	1.41636	12.94261	2.28079
12:12:01				1172	9.16579	0.294866	1.3784	1.4652	13.23565	2.25434
12:12:01				1173	9.17165	0.2956664	1.3784	1.4652	13.47985	2.26046
12:12:02				1174	9.15504	0.2934254	1.1817	1.4652	13.13797	2.24335
12:12:02				1175	9.1237	0.2935856	0.8865	1.4652	13.28449	2.24662
12:12:03				1176	9.11099	0.2926249	0.8865	1.4652	16.89866	2.23962
12:12:03				1177	9.11881	0.2923048	1.0833	1.4652	13.38217	2.23654
12:12:04				1178	9.1149	0.2899036	0.9849	1.4652	13.08913	2.21732
12:12:04				1179	9.09534	0.2895827	0.8865	1.4652	32.38095	2.21593
12:12:05				1180	9.09143	0.2899036	0.8865	1.4652	32.38095	2.21878
12:12:05				1181	9.09338	0.289423	0.9849	2.29548	13.87057	2.21476
12:12:06				1182	9.08556	0.2897424	0.7881	2.24664	13.87057	2.21784
12:12:06				1183	9.08947	0.2899036	0.7881	1.4652	33.99267	2.2189
12:12:07				1184	9.09436	0.2897424	0.8865	1.51404	33.99267	2.21729
12:12:07				1185	9.0973	0.2857404	0.8865	9.23077	17.97314	2.18468
12:12:08				1186	9.0836	0.2900634	0.7881	1.4652	24.90842	2.22056
12:12:08				1187	9.09045	0.2902231	0.7881	1.4652	23.58974	2.22143
12:12:09				1188	9.09925	0.2905427	0.6898	1.51404	20.75702	2.22348
12:12:09				1189	9.11686	0.2902231	0.6898	1.41636	23.0525	2.2198
12:12:10				1190	9.11588	0.2902231	0.6898	3.95604	8.30281	2.21986
12:12:10				1191	9.11001	0.2902231	0.7881	9.37729	38.82784	2.22022
12:12:11				1192	9.10708	0.2924648	0.6898	9.37729	38.82784	2.23858
12:12:11				1193	9.13354	0.2943866	0.6898	9.32845	38.779	2.2525
12:12:12				1194	9.14429	0.2923048	0.6898	3.12576	54.99389	2.23496
12:12:12				1195	9.11392	0.0235947	0.6898	3.07692	54.99389	0.16217
12:12:13				1196	9.11979	0.0186417	0.6898	3.07692	54.94505	0.12747
12:12:13				1197	9.14136	0.0178437	0.6898	0	0	0.12186
12:12:14				1198	9.16774	0.0157662	0.6898	0	0	0.1074
12:12:14				1199	9.20004	0.0189616	0.6898	0	0	0.12944
12:12:15				1200	9.22549	0.0143287	0.6898	0	0	0.09737
12:12:15	12:11:06 switch off			1201	9.2655	0.0144889	0.6898	0	0	0.09837
	flow stopped 12:11:43									
12:17:05	12:15:48 switch on	5.0	180	7	8.31287	0.233255	1.3784	0	0	1.80179
12:17:06				8	8.31287	0.2342156	1.3784	0	0	1.80963
12:17:06				9	8.31386	0.2318154	1.3784	0	0	1.78999
12:17:07				10	8.3099	0.2319752	1.3784	0	0	1.7915
12:17:07				11	8.30594	0.2342156	1.3784	0	0	1.80998
12:17:08				12	8.31287	0.2321351	1.3784	0	0	1.79265
12:17:08				13	8.30792	0.2310149	1.3784	0	0	1.78376
12:17:09				14	8.30298	0.2311747	1.3784	0	0	1.78531
12:17:09				15	8.28906	0.2310149	1.3784	0	0	1.78471
12:17:10				16	8.30891	0.2310149	1.3784	0	0	1.78371

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:17:10				17	8.32969	0.2327749	1.3784	0	0	1.79702
12:17:11				18	8.32376	0.2335751	1.3784	0	0	1.80385
12:17:11				19	8.32178	0.2337352	1.3784	0	0	1.80525
12:17:12				20	8.35053	0.2343758	1.3784	0	0	1.80901
12:17:12				21	8.37531	0.2343758	1.3784	0	0	1.80775
12:17:13				22	8.41689	0.2369372	1.3784	0	0	1.82649
12:17:13				23	8.43566	0.2417391	1.3784	0	0	1.86464
12:17:14				24	8.40694	0.2406188	1.4768	0	0	1.85701
12:17:14				25	8.39904	0.238697	1.4768	0	0	1.84175
12:17:15				26	8.45942	0.2374174	1.4768	0	0	1.82821
12:17:15				27	8.48312	0.2396575	1.4768	0	0	1.84521
12:17:16				28	8.44257	0.2412587	1.3784	0	0	1.86037
12:17:16				29	8.50489	0.2417391	1.4768	0	0	1.86101
12:17:17				30	8.59968	0.2398183	1.4768	0	0	1.84048
12:17:17				31	8.58194	0.2393372	1.3784	0	0	1.8375
12:17:18				32	8.51575	0.2425392	1.3784	0	0	1.86696
12:17:18				33	8.46535	0.241099	1.3784	0	0	1.85787
12:17:19				34	8.42578	0.241578	1.4768	0	0	1.86385
12:17:19				35	8.41195	0.241099	1.4768	0	0	1.86067
12:17:20				36	8.39311	0.2402984	1.4768	0	0	1.85512
12:17:20				37	8.34361	0.2398185	1.4768	0	0	1.85379
12:17:21				38	8.35547	0.2404579	1.4768	0	0	1.85839
12:17:21				39	8.3852	0.2402984	1.4768	0	0	1.85553
12:17:22				40	8.38619	0.2394981	1.4768	0	0	1.84895
12:17:22				41	8.35646	0.2366162	1.3784	0	0	1.82698
12:17:23				42	8.35152	0.2388578	1.4768	0	0	1.84553
12:17:23				43	8.35547	0.2388578	1.4768	0	0	1.84532
12:17:24				44	8.35646	0.2377372	1.4768	0	0	1.83613
12:17:24				45	8.34954	0.2374174	1.4768	0	0	1.83387
12:17:25				46	8.35152	0.2386971	1.3784	0	0	1.84422
12:17:25				47	8.33965	0.2386971	1.4768	0	0	1.84484
12:17:26				48	8.33965	0.2377372	1.4768	0	0	1.837
12:17:26				49	8.34064	0.2367767	1.4768	0	0	1.8291
12:17:27				50	8.3347	0.2380571	1.4768	0	0	1.83987
12:17:27				51	8.32771	0.2385378	1.4768	0	0	1.84415
12:17:28				52	8.33866	0.2385378	1.4768	0	0	1.84359
12:17:28				53	8.35251	0.2374174	1.4768	0	0	1.83372
12:17:29				54	8.35646	0.2369372	1.4768	0	0	1.8296
12:17:29				55	8.45152	0.238377	1.4768	0	0	1.83643
12:17:30				56	8.53356	0.238057	1.4768	0	0	1.82959
12:17:30				57	8.53455	0.2386969	1.4768	0	0	1.83474
12:17:31				58	8.58095	0.2396574	1.4768	0	0	1.84014
12:17:31				59	8.60264	0.2529444	1.3784	0	0	1.94698
12:17:32				60	8.72096	0.2410988	1.3784	0	0	1.84459
12:17:32				61	8.81151	0.2406185	1.4768	0	0	1.83604

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:17:33				62	8.80463	0.2505428	1.4768	0	0	1.91655
12:17:33				63	8.77116	0.2577461	1.4768	0	0	1.97672
12:17:34				64	8.82827	0.2598282	1.2801	0	0	1.99044
12:17:34				65	8.92162	0.2455802	1.4768	0	0	1.87032
12:17:35				66	8.93044	0.2450998	1.4768	0	0	1.86599
12:17:35				67	8.91279	0.2604675	1.4768	0	0	1.9909
12:17:36				68	8.87741	0.2667123	1.3784	0	0	2.04346
12:17:36				69	8.89508	0.2559857	1.4768	0	0	1.95566
12:17:37				70	8.91083	0.2561458	1.4768	0	0	1.95609
12:17:37				71	8.90691	0.2619093	1.4768	0	0	2.00289
12:17:38				72	8.89311	0.2662312	1.4768	0	0	2.03866
12:17:38				73	8.90298	0.2595072	1.4768	0	0	1.98368
12:17:39				74	8.91279	0.2574269	1.4768	0	0	1.96633
12:17:39				75	8.91279	0.2651113	1.4768	0	0	2.02848
12:17:40				76	8.8971	0.2660714	1.4768	0	0	2.03714
12:17:40				77	8.89409	0.2579063	1.4768	0	0	1.97123
12:17:41				78	8.88723	0.2607887	1.4768	0	0	1.99493
12:17:41				79	8.87349	0.2659116	1.4768	0	0	2.03719
12:17:42				80	8.86956	0.2619093	1.4768	0	0	2.00498
12:17:42				81	8.87447	0.2604675	1.4768	0	0	1.99304
12:17:43				82	8.86367	0.2633498	1.4768	0	0	2.01699
12:17:43				83	8.85582	0.26287	1.4768	0	0	2.01354
12:17:44				84	8.83612	0.260948	1.4768	0	0	1.99907
12:17:44				85	8.82434	0.2620687	1.4768	0	0	2.00881
12:17:45				86	8.80758	0.2639909	1.4768	0	0	2.02536
12:17:45				87	8.76625	0.2622295	1.4768	0	0	2.01339
12:17:46				88	8.74855	0.2622296	1.4768	0	0	2.01439
12:17:46				89	8.74364	0.2617487	1.4768	0	0	2.01076
12:17:47				90	8.76133	0.2606282	1.4768	0	0	2.00066
12:17:47	12:16:32 dye started			91	8.7633	0.2620688	1.4768	0	0	2.01225
12:17:48	start transect	5.0	180	92	8.7692	0.2630295	1.3784	0	0	2.01972
12:17:48				93	8.7692	0.2615893	1.4768	0	0	2.00802
12:17:49				94	8.78891	0.2601479	1.4768	0	0	1.99522
12:17:49				95	8.7899	0.2619094	1.4768	0	0	2.00946
12:17:50				96	8.73085	0.2551859	1.4768	0.58608	0.29304	1.95817
12:17:50				97	8.67859	0.2532637	1.3784	0.39072	0.09768	1.94543
12:17:51				98	8.61452	0.2500621	1.4768	1.4652	1.02564	1.92288
12:17:51				99	8.59475	0.2425392	1.4768	1.4652	14.99389	1.86281
12:17:52				100	8.56413	0.2444597	1.4768	1.4652	14.35897	1.88002
12:17:52				101	8.53554	0.2351755	1.4768	1.41636	14.89621	1.8061
12:17:53				102	8.44949	0.2268524	1.3784	1.4652	15.04274	1.74287
12:17:53				103	8.34361	0.2278138	1.4768	1.4652	14.55433	1.7559
12:17:54				104	8.29605	0.2289341	1.4768	1.4652	14.16361	1.76739
12:17:54				105	8.28311	0.2305343	1.4768	1.41636	14.74969	1.78109
12:17:55				106	8.29202	0.230694	1.4768	1.4652	15.38462	1.78194

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:17:55				107	8.31287	0.2276531	1.3784	1.4652	15.4823	1.75611
12:17:56				108	8.30001	0.2271724	1.4768	1.4652	15.43346	1.75283
12:17:56				109	8.27519	0.2278139	1.4768	1.4652	15.9707	1.75929
12:17:57				110	8.28212	0.2274938	1.4768	1.4652	14.94505	1.75633
12:17:57				111	8.28708	0.2273331	1.4768	1.4652	15.33578	1.75478
12:17:58				112	8.27915	0.2273331	1.4768	1.4652	14.40781	1.75517
12:17:58				113	8.27519	0.2278139	1.4768	1.41636	14.26129	1.75929
12:17:59				114	8.27321	0.2286137	1.4768	1.4652	14.99389	1.76591
12:17:59				115	8.27717	0.2286137	1.4768	1.4652	15.04274	1.76571
12:18:00				116	8.28411	0.2292531	1.4768	1.4652	15.2381	1.77058
12:18:00				117	8.29202	0.2282934	1.4768	1.4652	15.14042	1.76236
12:18:01				118	8.29506	0.2279732	1.4768	1.4652	14.65201	1.7596
12:18:01				119	8.28708	0.2276531	1.4768	1.4652	14.60317	1.75739
12:18:02				120	8.27915	0.2284529	1.4768	1.4652	14.11477	1.7643
12:18:02				121	8.28311	0.228134	1.4768	1.4652	14.40781	1.76151
12:18:03				122	8.28609	0.2271724	1.4768	1.4652	15.18926	1.75352
12:18:03				123	8.27816	0.2282934	1.4768	1.4652	14.40781	1.76305
12:18:04				124	8.28014	0.2270131	1.4768	1.4652	14.99389	1.75251
12:18:05				127	8.2703	0.2578756	1.4768	1.4652	14.89621	2.00582
12:18:06				128	8.36153	0.2686016	1.4768	1.4652	14.70085	2.08882
12:18:06				129	8.63921	0.2612382	1.4768	1.4652	13.87057	2.01249
12:18:07				130	8.67077	0.2561148	1.4768	1.4652	13.96825	1.96902
12:18:07				131	8.63625	0.2452306	1.4768	1.41636	14.01709	1.88248
12:18:08				132	8.57116	0.2441102	1.4768	1.4652	14.11477	1.87681
12:18:08				133	8.48818	0.2421889	1.4768	1.4652	14.06593	1.86555
12:18:09				134	8.4664	0.2409086	1.4768	1.4652	14.21245	1.85626
12:18:09				135	8.41991	0.2386677	1.3784	1.4652	14.74969	1.84043
12:18:10				136	8.38922	0.238507	1.3784	1.4652	14.99389	1.84071
12:18:10				137	8.39712	0.2351463	1.3784	1.4652	14.60317	1.81292
12:18:11				138	8.39317	0.2431493	1.3784	1.41636	14.45665	1.87839
12:18:11				139	8.38625	0.2450707	1.3784	1.4652	15.28694	1.89445
12:18:12				140	8.43276	0.2714842	1.3784	1.4652	15.04274	2.10832
12:18:12				141	8.58989	0.2545138	1.3784	1.4652	14.45665	1.96045
12:18:13				142	8.582	0.252594	1.3784	1.4652	13.08913	1.94525
12:18:13				143	8.52968	0.2469907	1.3784	1.4652	14.01709	1.90245
12:18:14				144	8.50989	0.2501919	1.3784	1.4652	14.31013	1.9296
12:18:14				145	8.54743	0.2489121	1.4768	1.41636	13.96825	1.91714
12:18:15				146	8.5682	0.2495518	1.3784	1.4652	14.16361	1.92123
12:18:15				147	8.54842	0.2457098	1.3784	1.4652	14.31013	1.89103
12:18:16				148	8.46837	0.2420291	1.2801	1.4652	14.84737	1.86529
12:18:16				149	8.45356	0.2394673	1.3784	1.4652	14.45665	1.8452
12:18:17				150	8.45751	0.2364264	1.3784	1.4652	14.74969	1.82025
12:18:17				151	8.39416	0.2322658	1.3784	1.4652	14.06593	1.78961
12:18:18				152	8.31992	0.2324258	1.3784	1.4652	14.45665	1.79466
12:18:18				153	8.33971	0.2444304	1.3784	1.4652	14.74969	1.8917

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:18:19				154	8.36549	0.2415486	1.3784	1.41636	14.60317	1.86678
12:18:19				155	8.4377	0.2369064	1.3784	1.4652	14.99389	1.82517
12:18:20				156	8.42485	0.2383476	1.3784	1.4652	15.18926	1.83757
12:18:20				157	8.41893	0.2351463	1.4768	1.4652	14.45665	1.8118
12:18:21				158	8.40015	0.2356272	1.4768	1.4652	14.45665	1.81668
12:18:21				159	8.39811	0.2369065	1.4768	1.4652	14.16361	1.8272
12:18:22				160	8.37933	0.2322658	1.4768	1.4652	15.38462	1.79036
12:18:22				161	8.3734	0.2327457	1.4768	1.4652	15.2381	1.79456
12:18:23				162	8.36153	0.2335459	1.4768	1.4652	14.65201	1.80168
12:18:23				163	8.35751	0.234667	1.4768	1.4652	14.01709	1.81103
12:18:24				164	8.36746	0.2426697	1.3784	1.4652	14.84737	1.87583
12:18:24				165	8.43078	0.2441103	1.3784	1.41636	14.26129	1.88424
12:18:25				166	8.48423	0.2437889	1.4768	1.41636	15.04274	1.87879
12:18:25				167	8.46541	0.2425084	1.4768	1.41636	14.26129	1.86935
12:18:26				168	8.44961	0.2737256	1.4768	1.4652	14.84737	2.12573
12:18:26				169	8.56229	0.2791688	1.4768	1.4652	15.87302	2.16364
12:18:27				170	8.72993	0.2711631	1.4768	1.4652	14.55433	2.08816
12:18:27				171	8.64419	0.2729248	1.4768	1.4652	13.87057	2.10759
12:18:28				172	8.66782	0.2770866	1.4768	1.4652	14.26129	2.14021
12:18:28				173	8.82931	0.2775671	1.4768	1.4652	14.84737	2.13446
12:18:29				174	8.84011	0.2762867	1.4768	1.4652	13.91941	2.12339
12:18:29				175	8.87748	0.24683	1.3784	1.4652	13.47985	1.8827
12:18:30				176	8.7319	0.2498717	1.4768	1.4652	14.50549	1.91502
12:18:30				177	8.62936	0.2532341	1.4768	1.4652	13.91941	1.94787
12:18:31				178	8.63822	0.2541941	1.4768	1.4652	14.16361	1.95519
12:18:31				179	8.61852	0.2476308	1.4768	1.4652	13.96825	1.90291
12:18:32				180	8.53165	0.2516324	1.3784	1.4652	14.16361	1.94016
12:18:32				181	8.56229	0.2545139	1.4768	1.4652	15.09158	1.96197
12:18:33				182	8.57609	0.2503526	1.4768	1.4652	13.91941	1.92732
12:18:33				183	8.53757	0.2521138	1.3784	1.4652	14.31013	1.94377
12:18:34				184	8.58299	0.252433	1.3784	1.41636	14.55433	1.94389
12:18:34				185	8.6067	0.2537133	1.4768	1.4652	14.21245	1.95301
12:18:35				186	8.63822	0.2546737	1.4768	1.41636	14.01709	1.95909
12:18:35				187	8.65896	0.2543539	1.3784	1.41636	13.96825	1.95536
12:18:36				188	8.67176	0.2549949	1.3784	1.41636	14.31013	1.95987
12:18:36				189	8.66782	0.2545138	1.4768	1.41636	14.21245	1.95617
12:18:37				190	8.66093	0.2549949	1.4768	1.4652	13.77289	1.96046
12:18:37				191	8.66881	0.2554747	1.3784	1.4652	13.82173	1.96393
12:18:38				192	8.66782	0.2541941	1.3784	1.4652	14.01709	1.95357
12:18:38				193	8.66192	0.2527536	1.4768	1.4652	14.45665	1.94219
12:18:39				194	8.63428	0.2508321	1.4768	1.4652	14.01709	1.92807
12:18:39				195	8.61557	0.2474703	1.4768	1.4652	14.21245	1.90176
12:18:40				196	8.58102	0.2495518	1.4768	1.4652	14.16361	1.92054
12:18:40				197	8.58792	0.247151	1.4768	1.4652	14.06593	1.90064
12:18:41				198	8.58792	0.2493926	1.3784	1.4652	14.06593	1.91887

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:18:41				199	8.58397	0.2497125	1.4768	1.51404	15.04274	1.92168
12:18:42				200	8.58102	0.2489121	1.3784	1.4652	14.31013	1.91534
12:18:42				201	8.57412	0.2460302	1.4768	1.4652	13.77289	1.89226
12:18:43				202	8.53954	0.2452307	1.4768	1.4652	13.67521	1.8876
12:18:43				203	8.52771	0.2463508	1.4768	1.4652	14.35897	1.89734
12:18:44				204	8.54743	0.2474704	1.4768	1.4652	13.96825	1.9054
12:18:44				205	8.55138	0.2484318	1.3784	1.4652	13.82173	1.91302
12:18:45				206	8.55335	0.2501919	1.4768	1.41636	14.60317	1.92724
12:18:45				207	8.56426	0.2493926	1.4768	1.41636	14.06593	1.92014
12:18:46				208	8.56722	0.2500325	1.4768	1.41636	13.72405	1.92519
12:18:46				209	8.58496	0.2514728	1.4768	1.41636	14.21245	1.93596
12:18:47				210	8.6067	0.2497125	1.4768	1.41636	14.21245	1.92046
12:18:47				211	8.59679	0.2479517	1.4768	1.41636	14.11477	1.90668
12:18:48				212	8.57313	0.2474704	1.4768	1.41636	14.06593	1.90403
12:18:48				213	8.56025	0.2487515	1.4768	1.4652	14.40781	1.91514
12:18:49				214	8.55927	0.2482713	1.4768	1.4652	14.11477	1.91129
12:18:49				215	8.56229	0.2487515	1.5752	1.4652	14.35897	1.91503
12:18:50				216	8.57214	0.2490713	1.4768	1.4652	13.87057	1.9171
12:18:50	12:17:35 PM stop trans	5.0	270	217	8.56919	0.2493926	1.4768	1.4652	13.72405	1.91988
12:18:51				218	8.57017	0.2498718	1.4768	1.4652	14.01709	1.92373
12:18:51				219	8.57707	0.2492319	1.4768	1.4652	13.82173	1.91815
12:18:52				220	8.57214	0.2492319	1.4768	1.4652	13.91941	1.91841
12:18:52				221	8.58102	0.2492319	1.4768	1.4652	14.06593	1.91793
12:18:53				222	8.59777	0.2506728	1.4768	1.4652	13.72405	1.92875
12:18:53				223	8.60374	0.2497125	1.4768	1.4652	13.72405	1.92062
12:18:54				224	8.60073	0.250993	1.4768	1.4652	14.89621	1.9312
12:18:54				225	8.60073	0.2500325	1.4768	1.4652	14.01709	1.92338
12:18:55				226	8.58299	0.2482713	1.4768	1.4652	14.21245	1.91001
12:18:55				227	8.56124	0.2381869	1.4768	1.4652	15.28694	1.82923
12:18:56				228	8.48028	0.2423486	1.4768	1.4652	14.99389	1.86726
12:18:56				229	8.48423	0.2442703	1.4768	1.4652	14.55433	1.88271
12:18:57				230	8.50298	0.2442703	1.4768	1.4652	14.40781	1.88172
12:18:57				231	8.52179	0.2452307	1.4768	1.4652	13.91941	1.88854
12:18:58				232	8.52278	0.2449105	1.5752	1.41636	14.74969	1.88588
12:18:58				233	8.52573	0.2452307	1.4768	1.4652	14.21245	1.88833
12:18:59				234	8.52771	0.2450706	1.4768	1.4652	14.16361	1.88692
12:18:59				235	8.5208	0.2394673	1.4768	1.4652	14.35897	1.84171
12:19:00				236	8.4862	0.2375472	1.4768	1.4652	14.31013	1.82789
12:19:00				237	8.4427	0.2397876	1.4768	1.4652	14.79853	1.84837
12:19:01				238	8.44961	0.2529134	1.4768	1.4652	14.01709	1.95511
12:19:01				239	8.4941	0.2516324	1.4768	1.4652	13.91941	1.94221
12:19:02				240	8.5682	0.2498718	1.4768	1.4652	13.87057	1.92383
12:19:02				241	8.5682	0.2514728	1.4768	1.4652	13.77289	1.93687
12:19:03				242	8.59383	0.2569154	1.4768	1.4652	14.16361	1.9798
12:19:03				243	8.63921	0.2570756	1.4768	1.4652	14.60317	1.97859

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:19:04				244	8.67471	0.2553148	1.4768	1.4652	14.16361	1.9623
12:19:05				247	8.68898	0.2567538	1.4768	1.4652	13.62637	1.97321
12:19:06				248	8.69193	0.2591552	1.4768	1.4652	14.01709	1.99257
12:19:06				249	8.70276	0.2594747	1.4768	1.4652	13.82173	1.99456
12:19:07				250	8.71358	0.258674	1.4768	1.4652	14.11477	1.98745
12:19:07				251	8.70473	0.2557933	1.4768	1.4652	13.72405	1.96454
12:19:08				252	8.68505	0.2556333	1.4768	1.4652	13.96825	1.96432
12:19:08				253	8.67711	0.2666782	1.4768	1.4652	14.55433	2.05467
12:19:09				254	8.74806	0.2591551	1.4768	1.4652	14.60317	1.98944
12:19:09				255	8.7185	0.2583547	1.4768	1.4652	13.77289	1.98458
12:19:10				256	8.65545	0.278686	1.3784	1.4652	14.01709	2.15404
12:19:10				257	8.75593	0.2673194	1.4768	1.41636	14.74969	2.05535
12:19:11				258	8.78646	0.2671594	1.4768	1.4652	14.11477	2.0523
12:19:11				259	8.71653	0.2666782	1.4768	1.4652	13.96825	2.0524
12:19:12				260	8.75691	0.2719612	1.4768	1.4652	14.16361	2.09309
12:19:12				261	8.80316	0.2673193	1.4768	1.4652	13.52869	2.05264
12:19:13				262	8.82483	0.2708407	1.4768	1.4652	13.57753	2.08
12:19:13				263	8.82189	0.2711615	1.4768	1.4652	13.91941	2.08278
12:19:14				264	8.85729	0.2705199	1.4768	1.4652	14.01709	2.07551
12:19:14				265	8.83563	0.2682795	1.4768	1.4652	14.84737	2.05857
12:19:15				266	8.82974	0.2642773	1.4768	1.41636	13.62637	2.02642
12:19:15				267	8.80218	0.2545123	1.4768	1.4652	13.13797	1.94881
12:19:16				268	8.66431	0.2623563	1.4768	1.4652	14.40781	2.02018
12:19:16				269	8.72741	0.258515	1.4768	1.4652	15.4823	1.98539
12:19:17				270	8.69587	0.2508307	1.4768	1.4652	14.70085	1.92473
12:19:17				271	8.56173	0.252272	1.4768	1.4652	13.87057	1.94373
12:19:18				272	8.51235	0.2365854	1.4768	1.4652	14.16361	1.81873
12:19:18				273	8.44115	0.2415472	1.4768	1.4652	14.26129	1.86279
12:19:19				274	8.41442	0.2340248	1.4768	1.41636	14.74969	1.8029
12:19:19				275	8.40948	0.2375459	1.4768	1.4652	14.74969	1.83183
12:19:20				276	8.37086	0.2373867	1.4768	1.4652	14.99389	1.83252
12:19:20				277	8.35306	0.2410683	1.4768	1.4652	14.11477	1.8635
12:19:21				278	8.4243	0.2449092	1.4768	1.51404	14.21245	1.8911
12:19:21				279	8.48663	0.2415471	1.4768	1.4652	14.50549	1.86041
12:19:22				280	8.46387	0.2423486	1.4768	1.4652	13.91941	1.86813
12:19:22				281	8.44115	0.2321044	1.4768	1.51404	14.11477	1.78593
12:19:23				282	8.43029	0.2308245	1.4768	1.41636	15.4823	1.77607
12:19:23				283	8.38174	0.2324243	1.4768	1.4652	15.33578	1.79153
12:19:24				284	8.34113	0.2332257	1.4768	1.4652	14.55433	1.80011
12:19:24				285	8.31937	0.2377065	1.4768	1.4652	15.2381	1.8378
12:19:25				286	8.34911	0.233706	1.4768	1.4652	16.41026	1.80362
12:19:25				287	8.33025	0.2333858	1.4768	1.4652	14.79853	1.80197
12:19:26				288	8.33816	0.2348258	1.4768	1.4652	15.57998	1.81331
12:19:26				289	8.34014	0.2332257	1.5752	1.41636	15.09158	1.80016
12:19:27				290	8.32135	0.2348258	1.4768	1.4652	14.89621	1.81417

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:19:27				291	8.34515	0.2361056	1.4768	1.4652	16.06838	1.8234
12:19:28				292	8.36098	0.2345053	1.4768	1.4652	15.33578	1.80953
12:19:28				293	8.36394	0.2351463	1.4768	1.4652	14.74969	1.81461
12:19:29				294	8.36889	0.234986	1.4768	1.4652	15.43346	1.81305
12:19:29				295	8.32431	0.2309843	1.4768	1.51404	14.84737	1.78269
12:19:30				296	8.30353	0.2325844	1.4768	1.41636	15.4823	1.79679
12:19:30				297	8.29357	0.2314651	1.4768	1.4652	14.99389	1.78816
12:19:31				298	8.28268	0.2314651	1.4768	1.4652	14.26129	1.7887
12:19:31				299	8.27872	0.2301844	1.4768	1.4652	15.62882	1.77845
12:19:32				300	8.28466	0.2345054	1.4768	1.4652	16.50794	1.81343
12:19:32				301	8.28466	0.2309843	1.4768	1.4652	15.67766	1.78468
12:19:33				302	8.27971	0.2340249	1.4768	1.4652	14.70085	1.80976
12:19:33				303	8.29852	0.2322645	1.4768	1.41636	14.89621	1.79443
12:19:34				304	8.30149	0.2308246	1.4768	1.4652	14.89621	1.78253
12:19:34				305	8.29753	0.2525914	1.4768	1.4652	14.74969	1.96087
12:19:35				306	8.34911	0.2418681	1.5752	1.51404	15.67766	1.87024
12:19:35				307	8.37185	0.2338647	1.6736	1.4652	14.89621	1.80375
12:19:36				308	8.3253	0.2340248	1.5752	1.4652	14.45665	1.80743
12:19:36				309	8.30551	0.2346656	1.5752	1.41636	14.84737	1.81367
12:19:37				310	8.32926	0.2329057	1.6736	1.4652	15.2381	1.7981
12:19:37				311	8.30551	0.2349861	1.5752	1.4652	14.99389	1.81629
12:19:38				312	8.32135	0.2322645	1.6736	1.4652	15.43346	1.79327
12:19:38				313	8.30353	0.2537122	1.772	1.4652	14.55433	1.96973
12:19:39				314	8.43621	0.242988	1.9687	1.4652	15.57998	1.87478
12:19:39				315	8.42133	0.246029	1.9687	1.41636	14.35897	1.90039
12:19:40				316	8.45498	0.2458687	2.0671	1.4652	14.35897	1.89728
12:19:40				317	8.48663	0.241868	2.0671	1.4652	13.82173	1.863
12:19:41				318	8.45004	0.2511512	2.0671	1.4652	15.18926	1.94067
12:19:41				319	8.50144	0.2511511	2.0671	1.4652	15.38462	1.93786
12:19:42				320	8.54293	0.2498704	2.1655	1.4652	14.26129	1.92517
12:19:42				321	8.5163	0.2628361	2.1655	1.4652	14.50549	2.0325
12:19:43				322	8.63668	0.2828482	2.2639	1.4652	14.50549	2.18924
12:19:43				323	8.90642	0.2764434	2.4606	1.4652	14.11477	2.1207
12:19:44				324	8.95845	0.2762838	2.559	1.4652	13.43101	2.11632
12:19:44				325	8.94864	0.2697197	2.559	1.4652	12.99145	2.0637
12:19:45				326	8.9123	0.2753236	2.4606	1.4652	12.89377	2.11126
12:19:45				327	8.92603	0.2828479	2.559	1.4652	12.89377	2.17156
12:19:46				328	8.98001	0.2810863	2.559	1.4652	13.23565	2.15399
12:19:46				329	9.02316	0.283488	2.559	1.4652	13.38217	2.17087
12:19:47				330	9.03791	0.2794854	2.559	1.4652	13.23565	2.13755
12:19:47				331	9.00945	0.2802856	2.559	1.4652	13.33333	2.14573
12:19:48				332	9.02708	0.2807659	2.559	1.41636	13.52869	2.14857
12:19:48				333	9.05945	0.2830082	2.559	1.4652	13.13797	2.16479
12:19:49				334	9.07608	0.2828478	2.559	1.4652	13.08913	2.16249
12:19:49				335	9.07608	0.2822078	2.559	1.4652	12.94261	2.15731

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:19:50				336	9.07315	0.2815668	2.559	1.4652	12.89377	2.1523
12:19:50				337	9.07412	0.2828478	2.559	1.41636	13.23565	2.16261
12:19:51				338	9.08495	0.2826874	2.4606	1.4652	13.23565	2.16066
12:19:51				339	9.08293	0.283488	2.559	1.4652	13.08913	2.16726
12:19:52				340	9.09277	0.2838089	2.559	1.51404	13.13797	2.16926
12:19:52				341	9.09668	0.2841285	2.559	1.4652	13.23565	2.17161
12:19:53				342	9.10158	0.2841285	2.559	1.4652	13.18681	2.17132
12:19:53				343	9.10255	0.2855696	2.559	1.4652	13.18681	2.18292
12:19:54				344	9.10451	0.2844481	2.559	1.4652	14.31013	2.17373
12:19:54				345	9.10549	0.2844481	2.559	1.51404	12.94261	2.17367
12:19:55				346	9.10353	0.2820475	2.559	1.4652	13.23565	2.15436
12:19:55				347	9.08495	0.2822078	2.559	1.4652	12.99145	2.15678
12:19:56				348	9.08397	0.282527	2.559	1.4652	12.84493	2.15942
12:19:56				349	9.08293	0.2831686	2.559	1.4652	12.74725	2.16467
12:19:57				350	9.08397	0.2836484	2.559	1.4652	12.94261	2.1685
12:19:57				351	9.08788	0.282527	2.4606	1.4652	13.04029	2.15919
12:19:58				352	9.09277	0.2814065	2.4606	1.4652	13.38217	2.14983
12:19:58				353	9.0869	0.2812463	2.4606	1.41636	12.79609	2.14888
12:19:59				354	9.08592	0.2814065	2.4606	1.4652	12.69841	2.15024
12:19:59				355	9.08293	0.2799654	2.4606	1.51404	12.99145	2.13876
12:20:00				356	9.07119	0.2780448	2.4606	1.4652	13.47985	2.12392
12:20:00				357	9.0477	0.2785244	2.559	1.4652	12.89377	2.12919
12:20:01				358	9.0477	0.2786857	2.559	1.4652	12.99145	2.1305
12:20:01				359	9.05064	0.2735615	2.559	1.4652	13.04029	2.08888
12:20:02				360	9.01925	0.2734023	2.559	1.51404	13.18681	2.08942
12:20:02				361	8.96237	0.2730824	2.6574	1.4652	12.94261	2.09014
12:20:03				362	8.95354	0.2751626	2.6574	1.41636	12.99145	2.10752
12:20:03	12:18:48 start transect	5.0	180	363	8.97903	0.2738816	2.559	1.4652	13.57753	2.09565
12:20:04				364	8.97119	0.2617158	2.559	1.4652	13.72405	1.99771
12:20:05				367	8.86717	0.2681195	2.6574	1.41636	13.18681	2.05542
12:20:06				368	8.86717	0.2655578	2.6574	1.4652	13.38217	2.03464
12:20:06				369	8.85533	0.2602757	2.6574	1.4652	13.72405	1.99251
12:20:07				370	8.81305	0.2602758	2.6574	1.4652	13.23565	1.99487
12:20:07				371	8.78259	0.2631577	2.6574	1.4652	12.99145	2.01997
12:20:08				372	8.78357	0.2631577	2.6574	1.41636	13.67521	2.01991
12:20:08				373	8.79733	0.2586754	2.559	1.4652	13.87057	1.98277
12:20:09				374	8.77866	0.2548335	2.559	1.51404	13.57753	1.95266
12:20:09				375	8.72643	0.257715	2.6574	1.4652	13.91941	1.97891
12:20:10				376	8.71856	0.2588344	2.6574	1.4652	13.77289	1.98844
12:20:10				377	8.74124	0.2484303	2.6574	1.4652	13.96825	1.90281
12:20:11				378	8.65748	0.2476308	2.6574	1.4652	13.67521	1.90079
12:20:11				379	8.58447	0.2500311	2.6574	1.4652	13.52869	1.92421
12:20:12				380	8.60227	0.2410681	2.6574	1.4652	14.01709	1.85045
12:20:12				381	8.55489	0.2396281	2.559	1.41636	14.26129	1.84122
12:20:13				382	8.44319	0.238827	2.6574	1.4652	14.40781	1.84049

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:20:13				383	8.42634	0.2397877	2.6574	1.4652	14.21245	1.84919
12:20:14				384	8.4343	0.237067	2.6574	1.4652	14.31013	1.82661
12:20:14				385	8.42436	0.2341863	2.559	1.4652	14.84737	1.80368
12:20:15				386	8.36697	0.2349861	2.6574	1.4652	14.16361	1.81311
12:20:15				387	8.34818	0.2369065	2.6574	1.4652	14.06593	1.82974
12:20:16				388	8.34317	0.2377065	2.559	1.4652	14.35897	1.83653
12:20:16				389	8.35411	0.2369065	2.6574	1.51404	14.21245	1.82943
12:20:17				390	8.37093	0.2324258	2.559	1.41636	14.40781	1.79205
12:20:17				391	8.32438	0.2327457	2.6574	1.4652	14.21245	1.79701
12:20:18				392	8.30254	0.2338661	2.6574	1.4652	14.11477	1.80726
12:20:18				393	8.30656	0.2345054	2.6574	1.4652	14.35897	1.81228
12:20:19				394	8.31052	0.233706	2.559	1.41636	14.35897	1.80555
12:20:19				395	8.31349	0.232106	2.4606	1.4652	14.74969	1.79235
12:20:20				396	8.31349	0.232106	2.6574	1.4652	14.60317	1.79234
12:20:20				397	8.31052	0.2327457	2.559	1.4652	14.21245	1.79772
12:20:21				398	8.31745	0.2322659	2.6574	1.4652	14.40781	1.79345
12:20:21				399	8.32141	0.2313053	2.559	1.4652	14.60317	1.78542
12:20:22				400	8.31448	0.2298651	2.6574	1.4652	14.70085	1.77402
12:20:22				401	8.30353	0.2305051	2.6574	1.4652	14.79853	1.77979
12:20:23				402	8.29462	0.2298651	2.6574	1.4652	14.50549	1.77501
12:20:23				403	8.29066	0.2287441	2.6574	1.41636	15.18926	1.76607
12:20:24				404	8.28571	0.2293849	2.559	1.4652	15.18926	1.77155
12:20:24				405	8.28274	0.2271447	2.6574	1.4652	16.4591	1.75342
12:20:25				406	8.27779	0.2287441	2.6574	1.51404	17.6801	1.76671
12:20:25	12:19:10 end transect	5.0	270	407	8.2768	0.2282643	2.6574	1.41636	14.74969	1.76285
12:20:26				408	8.27878	0.2309857	2.559	1.4652	15.18926	1.78496
12:20:26				409	8.28373	0.231625	2.6574	1.51404	15.77534	1.78992
12:20:27				410	8.29561	0.2340263	2.6574	1.4652	14.65201	1.80892
12:20:27				411	8.2966	0.233706	2.6574	1.41636	14.45665	1.80626
12:20:28				412	8.29759	0.2405882	2.6574	1.4652	14.60317	1.86246
12:20:28				413	8.31349	0.2402677	2.6574	1.4652	14.84737	1.859
12:20:29				414	8.31151	0.2335459	2.6574	1.4652	14.60317	1.80419
12:20:29				415	8.30254	0.2330658	2.6574	1.4652	14.94505	1.80073
12:20:30				416	8.30254	0.2335459	2.6574	1.4652	15.2381	1.80465
12:20:30				417	8.29858	0.2330658	2.6574	1.4652	14.65201	1.80093
12:20:31				418	8.29462	0.2325858	2.6574	1.4652	14.31013	1.79721
12:20:31				419	8.29462	0.2324258	2.6574	1.4652	14.84737	1.79591
12:20:32				420	8.29462	0.2322659	2.6574	1.4652	15.04274	1.7946
12:20:32				421	8.29462	0.2319447	2.6574	1.4652	14.21245	1.79198
12:20:33				422	8.29066	0.2319447	2.6574	1.4652	14.89621	1.79218
12:20:33				423	8.29165	0.2322659	2.6574	1.4652	15.33578	1.79475
12:20:34				424	8.29858	0.2322659	2.6574	1.4652	14.84737	1.7944
12:20:34				425	8.29759	0.2327458	2.6574	1.4652	14.84737	1.79837
12:20:35				426	8.32537	0.2410683	2.6574	1.4652	14.94505	1.86492
12:20:35				427	8.3313	0.2362661	2.6574	1.4652	15.14042	1.82538

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:20:36				428	8.34818	0.2362661	2.6574	1.4652	15.28694	1.82451
12:20:36				429	8.35708	0.2375473	2.6574	1.4652	14.35897	1.83451
12:20:37				430	8.43825	0.2505121	2.6574	1.4652	14.74969	1.93607
12:20:37				431	8.47584	0.2522721	2.6574	1.51404	14.99389	1.94839
12:20:38				432	8.55884	0.2506714	2.6574	1.4652	14.11477	1.93081
12:20:38				433	8.55982	0.2493912	2.7558	1.4652	14.01709	1.92033
12:20:39				434	8.54891	0.2460303	2.6574	1.4652	13.57753	1.89357
12:20:39				435	8.54102	0.2477899	2.6574	1.4652	14.84737	1.90831
12:20:40				436	8.50249	0.2452294	2.6574	1.4652	15.18926	1.88952
12:20:40				437	8.47979	0.2455497	2.6574	1.4652	15.09158	1.89333
12:20:41				438	8.47979	0.2444289	2.6574	1.4652	15.82418	1.8842
12:20:41				439	8.50249	0.2469907	2.7558	1.51404	14.35897	1.90386
12:20:42				440	8.52426	0.2471497	2.6574	1.4652	14.70085	1.90399
12:20:42				441	8.54694	0.2423486	2.6574	1.4652	15.53114	1.86373
12:20:43				442	8.52623	0.2479504	2.6574	1.4652	14.99389	1.91041
12:20:43				443	8.54102	0.2412278	2.6574	1.4652	14.35897	1.85493
12:20:44				444	8.48275	0.2348257	2.6574	1.4652	14.99389	1.80591
12:20:44				445	8.40262	0.2402676	2.7558	1.4652	14.45665	1.85433
12:20:45				446	8.42634	0.2394674	2.6574	1.4652	14.21245	1.84658
12:20:45				447	8.42238	0.234986	2.6574	1.4652	14.74969	1.81028
12:20:46				448	8.37191	0.2353066	2.6574	1.4652	14.65201	1.81547
12:20:46				449	8.35609	0.236587	2.7558	1.4652	14.74969	1.82672
12:20:47				450	8.37587	0.2378671	2.7558	1.4652	14.70085	1.83614
12:20:47				451	8.38279	0.2351463	2.6574	1.4652	14.26129	1.81361
12:20:48				452	8.36895	0.2346656	2.6574	1.4652	14.65201	1.8104
12:20:48				453	8.35214	0.236587	2.7558	1.4652	15.14042	1.82693
12:20:49				454	8.36203	0.236746	2.7558	1.4652	14.55433	1.82771
12:20:49				455	8.36994	0.2389878	2.6574	1.41636	14.45665	1.8456
12:20:50				456	8.37884	0.2399472	2.6574	1.4652	15.43346	1.85296
12:20:50				457	8.39669	0.2415486	2.6574	1.4652	14.11477	1.8651
12:20:51				458	8.41053	0.243949	2.6574	1.4652	14.79853	1.88396
12:20:51				459	8.45208	0.2434691	2.6574	1.41636	14.79853	1.87784
12:20:52				460	8.47288	0.2425085	2.6574	1.4652	14.70085	1.86892
12:20:52				461	8.49361	0.2457099	2.6574	1.4652	14.60317	1.8939
12:20:53				462	8.51038	0.2441089	2.6574	1.4652	14.45665	1.87997
12:20:53				463	8.49953	0.2444289	2.6574	1.4652	14.01709	1.88315
12:20:54				464	8.49953	0.2444289	2.6574	1.4652	14.35897	1.88315
12:20:54				465	8.5015	0.2442689	2.6574	1.4652	14.50549	1.88175
12:20:55				466	8.49755	0.2428281	2.7558	1.4652	14.70085	1.87022
12:20:55				467	8.48176	0.2457099	2.7558	1.4652	14.16361	1.89453
12:20:56				468	8.49657	0.2460303	2.6574	1.4652	14.16361	1.89636
12:20:56				469	8.51137	0.244749	2.6574	1.4652	14.06593	1.88513
12:20:57				470	8.49262	0.2437889	2.6574	1.41636	14.31013	1.87831
12:20:57				471	8.48472	0.243469	2.7558	1.4652	14.50549	1.87612
12:20:58				472	8.48472	0.2423487	2.6574	1.4652	14.06593	1.867

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:20:58				473	8.48077	0.244589	2.6574	1.4652	15.04274	1.88545
12:20:59				474	8.48373	0.2431492	2.7558	1.41636	14.40781	1.87356
12:20:59				475	8.48571	0.2453895	2.6574	1.41636	14.31013	1.89171
12:21:00				476	8.50347	0.2492306	2.6574	1.51404	15.09158	1.92207
12:21:00				477	8.53017	0.2455497	2.6574	1.4652	14.50549	1.89065
12:21:01				478	8.51235	0.2455497	2.6574	1.4652	14.50549	1.8916
12:21:01				479	8.51636	0.2439489	2.6574	1.4652	16.11722	1.87836
12:21:02				480	8.50545	0.2442689	2.7558	1.4652	14.21245	1.88153
12:21:02				481	8.49064	0.2421889	2.6574	1.4652	14.31013	1.86538
12:21:03				482	8.46985	0.2428281	2.6574	1.4652	14.65201	1.87168
12:21:03				483	8.44418	0.2415486	2.6574	1.4652	14.60317	1.86261
12:21:04				484	8.45307	0.2457099	2.6574	1.4652	14.45665	1.89606
12:21:05				487	8.4593	0.2449134	2.6574	1.4652	14.50549	1.88924
12:21:06				488	8.46522	0.2471539	2.6574	1.4652	15.28694	1.90719
12:21:06				489	8.48503	0.2436332	2.6574	1.41636	14.70085	1.87744
12:21:07				490	8.48602	0.2445932	2.7558	1.4652	14.16361	1.8852
12:21:07				491	8.50477	0.2450735	2.6574	1.4652	14.50549	1.88812
12:21:08				492	8.50872	0.2524359	2.6574	1.51404	14.60317	1.94793
12:21:08				493	8.55914	0.2522763	2.7558	1.4652	14.31013	1.94387
12:21:09				494	8.57393	0.2529162	2.559	1.51404	14.16361	1.94828
12:21:09				495	8.61735	0.2519557	2.6574	1.4652	13.96825	1.93809
12:21:10				496	8.60849	0.2660431	2.6574	1.4652	13.87057	2.05341
12:21:10	12:19:55 no flow			497	8.68837	0.2586797	2.6574	1.4652	14.45665	1.98886
12:21:11				498	8.6637	0.2564379	2.7558	1.51404	14.70085	1.972
12:21:11				499	8.64795	0.2573988	2.6574	1.4652	13.47985	1.98069
12:21:12				500	8.6765	0.2599605	2.6574	1.4652	13.96825	1.99995
12:21:12				501	8.7228	0.261241	2.6574	1.4652	14.26129	2.00776
12:21:13				502	8.73171	0.2573987	2.6574	1.4652	13.91941	1.97605
12:21:13				503	8.70903	0.2577192	2.6574	1.4652	13.91941	1.97991
12:21:14				504	8.70509	0.2581987	2.6574	1.51404	13.87057	1.98402
12:21:14				505	8.71887	0.2617203	2.6574	1.4652	13.52869	2.01188
12:21:15				506	8.74253	0.261241	2.6574	1.4652	13.77289	2.00665
12:21:15				507	8.74352	0.2615609	2.6574	1.41636	13.91941	2.0092
12:21:16				508	8.74548	0.2602801	2.6574	1.4652	14.06593	1.99868
12:21:16				509	8.73565	0.2591594	2.6574	1.51404	14.16361	1.99013
12:21:17				510	8.71395	0.2610803	2.6574	1.51404	14.65201	2.00696
12:21:17				511	8.72975	0.261561	2.6574	1.4652	14.11477	2.00997
12:21:18				512	8.73467	0.2622011	2.6574	1.4652	14.21245	2.0149
12:21:18				513	8.74155	0.2623605	2.7558	1.4652	14.01709	2.0158
12:21:19				514	8.74941	0.2622011	2.6574	1.4652	14.21245	2.01407
12:21:19				515	8.77798	0.2670037	2.7558	1.4652	13.87057	2.05148
12:21:20				516	8.80549	0.2676436	2.6574	1.4652	13.87057	2.0551
12:21:20				517	8.83993	0.2674836	2.7558	1.4652	13.91941	2.05182
12:21:21				518	8.83698	0.264762	2.7558	1.4652	14.26129	2.0299
12:21:21				519	8.80255	0.2652426	2.6574	1.4652	13.96825	2.03576

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:21:22				520	8.80058	0.2660429	2.6574	1.4652	14.65201	2.04238
12:21:22				521	8.81041	0.2649217	2.7558	1.4652	14.31013	2.03271
12:21:23				522	8.80353	0.2641221	2.7558	1.4652	13.82173	2.02661
12:21:23				523	8.7996	0.2657219	2.7558	1.4652	13.72405	2.03982
12:21:24				524	8.80156	0.2665225	2.6574	1.51404	13.38217	2.04622
12:21:24				525	8.80942	0.2678037	2.6574	1.4652	15.77534	2.05617
12:21:25				526	8.81335	0.264762	2.7558	1.4652	13.57753	2.03125
12:21:25				527	8.81433	0.2652426	2.7558	1.4652	13.28449	2.03509
12:21:26				528	8.81335	0.2649217	2.7558	1.4652	13.67521	2.03254
12:21:26				529	8.82029	0.2644413	2.8542	1.4652	14.35897	2.02824
12:21:27				530	8.84877	0.2670037	2.9526	1.4652	13.72405	2.04741
12:21:27				531	8.84582	0.2668437	3.0509	1.4652	13.38217	2.04628
12:21:28				532	8.8468	0.2727669	3.1493	1.4652	13.47985	2.09432
12:21:28				533	8.90084	0.2738875	3.3461	1.4652	14.31013	2.10025
12:21:29				534	8.94111	0.2722865	3.4445	1.4652	13.47985	2.0849
12:21:29				535	8.93621	0.2737267	3.4445	1.4652	12.99145	2.09687
12:21:30				536	8.93719	0.2767685	3.5428	1.4652	13.47985	2.12148
12:21:30				537	8.96469	0.2742076	3.4445	1.51404	13.82173	2.09909
12:21:31				538	8.96469	0.274848	3.5428	1.4652	13.23565	2.10428
12:21:31				539	8.96175	0.2745278	3.5428	1.4652	13.08913	2.10186
12:21:32				540	8.96959	0.2742076	3.5428	1.4652	13.33333	2.0988
12:21:32				541	8.97743	0.2738874	3.5428	1.4652	13.47985	2.09575
12:21:33				542	8.97547	0.2740468	3.5428	1.4652	13.47985	2.09716
12:21:33				543	8.97155	0.2743669	3.5428	1.4652	13.33333	2.09998
12:21:34				544	8.96371	0.2721259	3.5428	1.4652	13.62637	2.08229
12:21:34				545	8.95091	0.273246	3.5428	1.4652	14.01709	2.09211
12:21:35				546	8.94111	0.2775685	3.5428	1.4652	13.47985	2.12774
12:21:35				547	8.94993	0.2734067	3.6412	1.4652	13.47985	2.09346
12:21:36				548	8.94601	0.275167	3.5428	1.4652	13.28449	2.10797
12:21:36				549	8.94895	0.2724456	3.5428	1.41636	13.43101	2.08573
12:21:37				550	8.94209	0.275167	3.5428	1.4652	14.06593	2.1082
12:21:37				551	8.9313	0.2756484	3.5428	1.51404	13.33333	2.11274
12:21:38				552	8.94307	0.2754874	3.6412	1.51404	13.08913	2.11073
12:21:38				553	8.93522	0.275167	3.5428	1.4652	13.47985	2.1086
12:21:39				554	8.92934	0.2724456	3.5428	1.4652	13.67521	2.08688
12:21:39				555	8.91855	0.273246	3.5428	1.51404	13.47985	2.094
12:21:40				556	8.90973	0.2711658	3.5428	1.41636	13.67521	2.07764
12:21:40				557	8.91463	0.2710054	3.5428	1.4652	14.06593	2.07605
12:21:41				558	8.91169	0.324645	3.5428	1.4652	13.47985	2.5141
12:21:41				559	8.90973	0.2847738	3.6412	1.4652	12.69841	2.18818
12:21:42				560	8.9077	0.3779833	3.6412	1.4652	13.43101	2.95522
12:21:42				561	8.99899	0.527686	3.6412	1.51404	13.52869	4.20606
12:21:43				562	9.28483	0.5029927	3.7396	1.4652	12.79609	3.96451
12:21:43				563	9.28678	0.5629663	3.6412	1.4652	12.40537	4.47112
12:21:44				564	9.19784	0.520149	3.6412	1.4652	13.04029	4.119

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:21:44				565	9.14991	0.3872762	3.6412	1.4652	12.99145	3.01208
12:21:45				566	9.09216	0.4095478	3.4445	1.51404	12.99145	3.20185
12:21:45				567	9.11563	0.3832708	3.7396	1.4652	12.69841	2.98181
12:21:46				568	9.09014	0.4350266	3.6412	1.4652	12.60073	3.41453
12:21:46				569	9.07547	0.6219977	3.6412	6.44689	11.81929	5.00381
12:21:47				570	9.36093	0.5894318	3.7396	1.4652	12.11233	4.68653
12:21:47				571	9.44868	0.4409568	3.7396	1.51404	12.11233	3.42973
12:21:48				572	9.2516	0.4004133	3.6412	1.4652	12.11233	3.11205
12:21:48				573	9.27599	0.7476601	3.6412	7.76557	11.62393	6.06069
12:21:49				574	9.43992	0.7619483	3.7396	2.53968	13.23565	6.15691
12:21:49				575	9.57129	0.41836	3.7396	1.66056	13.33333	3.23189
12:21:50				576	9.24477	0.4489701	3.6412	1.4652	13.38217	3.51605
12:21:50				577	9.08525	0.3449854	3.6412	1.4652	13.23565	2.66863
12:21:51				578	9.17043	0.3049483	3.6412	1.51404	14.74969	2.33573
12:21:51				579	9.10292	0.3485081	3.7396	1.4652	13.82173	2.69624
12:21:52				580	9.07156	0.298383	3.7396	1.4652	13.57753	2.28876
12:21:52				581	9.01766	0.2871748	3.7396	1.4652	13.18681	2.20108
12:21:53				582	8.99115	0.2807703	3.6412	1.4652	12.84493	2.15072
12:21:53				583	8.96763	0.2775685	3.6412	1.41636	13.43101	2.12616
12:21:54				584	8.93228	0.2745278	3.6412	1.4652	13.38217	2.10359
12:21:54				585	8.92248	0.2726063	3.7396	1.4652	13.28449	2.08857
12:21:55				586	8.89201	0.272126	3.7396	1.4652	13.43101	2.08645
12:21:55				587	8.85171	0.2713249	3.7396	1.4652	13.67521	2.0823
12:21:56				588	8.83895	0.2714854	3.7396	1.4652	14.26129	2.08434
12:21:56				589	8.82618	0.2782092	3.6412	1.51404	13.87057	2.1398
12:21:57				590	8.82422	0.343544	3.6412	1.4652	13.87057	2.67624
12:21:57				591	8.84386	0.2722866	3.7396	1.4652	14.79853	2.09057
12:21:58				592	8.83698	0.2890967	3.7396	1.4652	13.52869	2.2279
12:21:58				593	8.8163	0.2844528	3.6412	1.4652	13.62637	2.19129
12:21:59				594	8.81931	0.2846133	3.6412	1.4652	13.57753	2.19241
12:21:59				595	8.84484	0.272767	3.6412	1.4652	13.72405	2.09442
12:22:00				596	8.8576	0.2732461	3.7396	1.41636	15.2381	2.09756
12:22:00				597	8.85858	0.2774088	3.7396	1.4652	13.52869	2.13134
12:22:01				598	8.84778	0.2769282	3.7396	1.4652	12.94261	2.12808
12:22:01				599	8.81532	0.2788502	3.6412	1.4652	14.11477	2.14567
12:22:02				600	8.82127	0.2892564	3.6412	1.4652	13.91941	2.23019
12:22:02				601	8.83306	0.2838135	3.7396	1.4652	13.43101	2.18504
12:22:03				602	8.84189	0.2879752	3.7396	1.4652	13.87057	2.21844
12:22:03				603	8.84778	0.3188795	3.7396	1.4652	13.08913	2.47117
12:22:04				604	8.83404	0.2830127	3.6412	1.4652	13.43101	2.17846
12:22:05	12:20:50 flow starts			607	8.80255	0.2822139	3.7396	1.4652	13.43101	2.17386
12:22:06				608	8.80942	0.2780509	3.7396	1.4652	14.70085	2.13951
12:22:06				609	8.79665	0.2762897	3.7396	1.4652	14.26129	2.12592
12:22:07				610	8.77503	0.2623619	3.6412	1.4652	14.40781	2.0139
12:22:07				611	8.73958	0.2588415	3.6412	1.51404	14.40781	1.98729

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:22:08				612	8.72483	0.2602815	3.7396	1.51404	14.35897	1.99982
12:22:08				613	8.73073	0.2655636	3.7396	1.4652	14.45665	2.04244
12:22:09				614	8.75335	0.2625228	3.6412	1.4652	14.21245	2.01643
12:22:09				615	8.73663	0.2588415	3.7396	1.51404	14.26129	1.98746
12:22:10				616	8.72876	0.2585208	3.7396	1.4652	15.33578	1.98529
12:22:10				617	8.70411	0.2614017	3.838	1.4652	13.96825	2.01008
12:22:11				618	8.70903	0.2609225	3.7396	1.4652	13.57753	2.00591
12:22:11				619	8.71788	0.2614017	3.7396	1.41636	13.57753	2.00931
12:22:12				620	8.70805	0.2578809	3.7396	1.4652	13.67521	1.98124
12:22:12				621	8.70509	0.2586811	3.7396	1.4652	13.91941	1.98791
12:22:13				622	8.70509	0.2626822	3.7396	1.41636	13.72405	2.02045
12:22:13				623	8.70509	0.2617217	3.7396	1.4652	14.35897	2.01264
12:22:14				624	8.70903	0.2567595	3.6412	1.4652	13.96825	1.97208
12:22:14				625	8.70509	0.2580398	3.7396	1.4652	13.43101	1.9827
12:22:15				626	8.69624	0.2610818	3.7396	1.4652	13.57753	2.00793
12:22:15				627	8.70313	0.2610818	3.7396	1.51404	12.89377	2.00754
12:22:16				628	8.711	0.2604421	3.6412	1.4652	13.87057	2.0019
12:22:16				629	8.72385	0.2780509	3.7396	1.4652	14.31013	2.14464
12:22:17				630	8.73073	0.2676452	3.7396	1.4652	13.82173	2.05938
12:22:17				631	8.72876	0.2660445	3.7396	1.4652	14.45665	2.04647
12:22:18				632	8.72581	0.2614017	3.6412	1.4652	13.47985	2.00887
12:22:18				633	8.72876	0.2580398	3.7396	1.4652	14.84737	1.98138
12:22:19				634	8.711	0.2610818	3.7396	1.4652	14.31013	2.0071
12:22:19				635	8.7169	0.2577207	3.7396	1.4652	13.82173	1.97945
12:22:20				636	8.72182	0.2582001	3.7396	1.4652	14.26129	1.98307
12:22:20				637	8.66468	0.2564393	3.7396	1.4652	13.43101	1.97192
12:22:21				638	8.63213	0.2596409	3.7396	1.4652	13.28449	1.9998
12:22:21				639	8.64893	0.2590005	3.7396	1.4652	13.08913	1.99364
12:22:22				640	8.66567	0.255639	3.7396	1.51404	13.38217	1.96536
12:22:22				641	8.65878	0.2513176	3.7396	1.51404	14.55433	1.93062
12:22:23				642	8.63908	0.2559591	3.7396	1.4652	14.40781	1.96943
12:22:23				643	8.64696	0.2564393	3.7396	1.51404	13.72405	1.9729
12:22:24				644	8.65779	0.25724	3.7396	1.51404	14.11477	1.97882
12:22:24				645	8.65385	0.25724	3.7396	1.4652	13.87057	1.97904
12:22:25				646	8.6509	0.2570799	3.7396	1.51404	14.74969	1.9779
12:22:25				647	8.65385	0.2570799	3.838	1.4652	13.91941	1.97773
12:22:26				648	8.65385	0.257881	3.7396	1.4652	13.96825	1.98425
12:22:26				649	8.65484	0.259161	3.7396	1.4652	14.21245	1.99462
12:22:27				650	8.65681	0.2565994	3.7396	1.4652	13.91941	1.97366
12:22:27				651	8.64302	0.2567596	3.7396	1.4652	14.11477	1.97573
12:22:28				652	8.64696	0.2577207	3.7396	1.4652	13.91941	1.98333
12:22:28				653	8.66075	0.2596409	3.7396	1.4652	13.77289	1.9982
12:22:29				654	8.66961	0.2588415	3.6412	1.41636	13.77289	1.9912
12:22:29				655	8.67453	0.257881	3.6412	1.4652	13.87057	1.98311
12:22:30				656	8.66764	0.2564393	3.6412	1.4652	14.06593	1.97176

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:22:30				657	8.64893	0.2559591	3.5428	1.4652	14.01709	1.9689
12:22:31				658	8.62622	0.2541984	3.5428	1.4652	14.70085	1.95582
12:22:31				659	8.6144	0.2545195	3.5428	1.51404	15.77534	1.95908
12:22:32				660	8.60849	0.250677	3.6412	1.4652	14.31013	1.92814
12:22:32				661	8.56999	0.2513176	3.6412	1.51404	14.31013	1.93544
12:22:33				662	8.55914	0.2487572	3.6412	1.51404	14.01709	1.91518
12:22:33				663	8.5364	0.2532385	3.5428	1.4652	14.55433	1.95293
12:22:34				664	8.54928	0.252758	3.7396	1.4652	15.04274	1.9483
12:22:34				665	8.56703	0.2532384	3.7396	1.51404	14.21245	1.95124
12:22:35				666	8.58773	0.2535593	3.7396	1.4652	13.52869	1.95272
12:22:35				667	8.61538	0.2549992	3.6412	1.4652	13.72405	1.96293
12:22:36				668	8.61932	0.2559591	3.7396	1.4652	13.72405	1.97053
12:22:36				669	8.6272	0.2554791	3.7396	1.4652	14.31013	1.96618
12:22:37				670	8.62917	0.2561192	3.7396	1.4652	14.16361	1.97128
12:22:37				671	8.6381	0.2551591	3.7396	1.4652	13.91941	1.96298
12:22:38				672	8.63213	0.2546794	3.838	1.4652	13.67521	1.9594
12:22:38				673	8.62622	0.2543583	3.7396	1.4652	13.72405	1.95712
12:22:39				674	8.62819	0.2548393	3.7396	1.4652	13.82173	1.96092
12:22:39				675	8.64401	0.2545195	3.7396	1.4652	13.82173	1.95745
12:22:40				676	8.63213	0.2548393	3.6412	1.4652	13.82173	1.96071
12:22:40	12:21:25 start transect	5.0	180	677	8.62917	0.2540386	3.6412	1.4652	13.77289	1.95436
12:22:41				678	8.62917	0.2538788	3.6412	1.4652	14.65201	1.95306
12:22:41				679	8.61932	0.2535593	3.6412	1.4652	14.21245	1.95099
12:22:42				680	8.62129	0.2538788	3.6412	1.4652	13.67521	1.95349
12:22:42				681	8.6144	0.2497167	3.5428	1.4652	13.91941	1.92001
12:22:43				682	8.58576	0.2487572	3.5428	1.41636	14.21245	1.91375
12:22:43				683	8.55421	0.2500368	3.5428	1.4652	13.82173	1.92587
12:22:44				684	8.54232	0.2513177	3.6412	1.4652	14.06593	1.93695
12:22:44				685	8.56703	0.2557991	3.6412	1.4652	13.91941	1.97212
12:22:45				686	8.65385	0.445768	3.6412	1.4652	13.96825	3.54753
12:22:45				687	8.91855	0.4416003	3.6412	1.4652	14.01709	3.4862
12:22:46				688	9.13134	0.4422415	3.6412	1.4652	13.57753	3.47089
12:22:46				689	9.26331	0.4930551	3.6412	1.4652	12.79609	3.88332
12:22:47				690	9.37852	0.5052407	3.7396	1.4652	12.84493	3.97305
12:22:47				691	9.35508	0.4760623	3.7396	4.44444	11.47741	3.73118
12:22:48				692	9.27215	0.4433627	3.6412	1.4652	12.25885	3.46664
12:22:48				693	9.2272	0.7075323	3.7396	1.51404	12.30769	5.7202
12:22:49				694	9.4126	0.4922541	3.838	1.51404	12.30769	3.86051
12:22:49				695	9.26721	0.5262454	3.7396	9.76801	10.54945	4.16251
12:22:50				696	9.1871	0.4406382	3.7396	3.4188	11.03785	3.45211
12:22:50				697	9.13623	0.4428831	3.7396	2.1978	11.52625	3.47578
12:22:51				698	9.06471	0.4238118	3.838	1.4652	12.69841	3.32322
12:22:51				699	9.00394	0.3972128	3.6412	1.51404	12.74725	3.10698
12:22:52				700	8.9313	0.392566	3.7396	2.29548	12.06349	3.07457
12:22:52				701	8.8557	0.4183642	3.6412	1.4652	12.11233	3.29699

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:22:53				702	8.8665	0.5249633	3.7396	1.4652	14.06593	4.19844
12:22:53				703	8.96469	0.4141969	3.7396	1.4652	12.60073	3.2521
12:22:54				704	8.87533	0.386478	3.7396	1.41636	12.35653	3.02862
12:22:54				705	8.79763	0.3629277	3.6412	1.4652	12.94261	2.83901
12:22:55				706	8.75236	0.3867975	3.6412	1.4652	12.35653	3.04176
12:22:55				707	8.76121	0.4228512	3.7396	1.4652	12.60073	3.34349
12:22:56				708	8.83011	0.3702968	3.7396	1.4652	12.94261	2.89767
12:22:56				709	8.73762	0.3648497	3.6412	1.4652	12.89377	2.8598
12:22:57				710	8.6864	0.4263762	3.6412	1.4652	12.79609	3.38028
12:22:57				711	8.83502	0.4843986	3.7396	1.4652	12.74725	3.85651
12:22:58				712	8.97645	0.5549502	3.7396	1.4652	12.64957	4.44143
12:22:58				713	9.14014	0.6059584	3.7396	1.41636	12.60073	4.85705
12:22:59				714	9.31408	0.5870278	3.7396	10.84249	11.67277	4.67218
12:22:59				715	9.46035	0.7993647	3.6412	8.79121	10.98901	6.47849
12:23:00				716	9.90789	0.7685333	3.7396	15.4823	8.74237	6.13403
12:23:00				717	10.33417	0.7975951	3.7396	42.49084	7.66789	6.3091
12:23:01				718	10.40046	0.7553671	3.7396	90.54945	6.83761	5.94038
12:23:01				719	10.40526	0.7444514	3.7396	90.54945	6.83761	5.84754
12:23:02				720	10.29185	0.750231	3.6412	117.60684	7.47253	5.91461
12:23:02				721	10.19075	0.7072101	3.7396	65.15263	9.23077	5.56696
12:23:03				722	10.12137	0.6643598	3.7396	69.79243	8.98657	5.21617
12:23:03				723	9.90885	0.6404509	3.7396	65.39683	8.98657	5.0448
12:23:04				724	9.34436	0.3909635	3.6412	57.53358	9.57265	3.02617
12:23:05				727	8.73467	0.3614887	3.7396	13.87057	13.04029	2.83205
12:23:06				728	8.7829	0.3336181	3.838	2.6862	13.62637	2.59723
12:23:06				729	8.64401	0.3248105	3.6412	4.49328	13.33333	2.5344
12:23:07				730	8.61144	0.3281736	3.6412	4.10256	13.47985	2.5646
12:23:07				731	8.51568	0.4174068	3.7396	5.17705	13.77289	3.32054
12:23:08				732	8.54435	0.3390651	3.838	1.4652	13.72405	2.66003
12:23:08				733	8.48207	0.3208066	3.6412	1.4652	13.33333	2.51269
12:23:09				734	8.48997	0.3935316	3.6412	1.4652	14.40781	3.12107
12:23:09				735	8.51174	0.4069905	3.7396	1.4652	14.06593	3.23277
12:23:10				736	8.61144	0.3513985	3.838	1.4652	13.38217	2.75767
12:23:10				737	8.55224	0.3562036	3.7396	1.4652	13.08913	2.80241
12:23:11				738	8.54041	0.3424278	3.6412	1.4652	13.28449	2.68835
12:23:11				739	8.50779	0.3723835	3.6412	1.51404	13.28449	2.94155
12:23:12				740	8.54139	0.4302272	3.7396	1.4652	15.14042	3.42676
12:23:12				741	8.63613	0.3821549	3.7396	1.51404	13.57753	3.01277
12:23:13				742	8.63022	0.4244565	3.7396	1.4652	13.82173	3.36939
12:23:13				743	8.6006	0.3441895	3.7396	1.4652	13.57753	2.69846
12:23:14				744	8.54041	0.3136007	3.7396	1.4652	13.67521	2.44884
12:23:14				745	8.44646	0.4565111	3.6412	1.4652	13.96825	3.66004
12:23:15				746	8.62727	0.605001	3.838	1.4652	15.18926	4.9191
12:23:15				747	8.89599	0.4595571	3.9364	1.4652	13.33333	3.63975
12:23:16				748	8.79469	0.5283344	3.838	1.4652	12.06349	4.23576

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:23:16				749	8.80359	0.4579539	3.7396	1.4652	12.64957	3.63563
12:23:17				750	8.836	0.6343614	3.7396	1.4652	13.47985	5.14476
12:23:17				751	8.91071	0.4954651	3.838	1.51404	12.94261	3.9422
12:23:18				752	8.92542	0.5071695	3.838	1.4652	11.33089	4.04
12:23:18				753	8.89501	0.3727026	3.7396	1.4652	11.37973	2.91238
12:23:19				754	8.78486	0.491458	3.7396	4.49328	12.50305	3.92202
12:23:19				755	8.77307	0.4359952	3.838	1.4652	13.18681	3.45313
12:23:20				756	8.72975	0.4100343	3.838	1.4652	12.55189	3.23857
12:23:20				757	8.67065	0.5278549	3.7396	1.4652	12.55189	4.24644
12:23:21				758	8.8449	0.5993873	3.838	1.4652	12.55189	4.84056
12:23:21				759	8.86846	0.4731817	3.838	1.51404	11.67277	3.75781
12:23:22				760	8.76914	0.4648457	3.7396	1.51404	11.72161	3.69756
12:23:22				761	8.83109	0.5913665	3.7396	1.4652	12.16117	4.77315
12:23:23				762	8.8665	0.4920982	3.838	1.4652	12.21001	3.91848
12:23:23				763	8.88808	0.4632438	3.838	1.4652	11.62393	3.6717
12:23:24				764	8.86257	0.4730217	3.838	1.4652	12.16117	3.75707
12:23:24				765	8.82815	0.4400027	3.838	1.51404	11.37973	3.48157
12:23:25				766	8.79763	0.4448101	3.838	1.4652	11.57509	3.52512
12:23:25				767	8.77995	0.453626	3.7396	1.4652	12.11233	3.60141
12:23:26				768	8.79469	0.6828232	3.838	1.4652	13.38217	5.57339
12:23:26				769	8.76127	0.4997949	3.838	1.51404	12.94261	3.99569
12:23:27				770	8.80261	0.4254183	3.838	1.4652	12.60073	3.3612
12:23:27				771	8.64007	0.3445107	3.7396	1.4652	12.60073	2.69814
12:23:28				772	8.62923	0.4416056	3.6412	1.4652	13.08913	3.51468
12:23:28				773	8.711	0.4686937	3.9364	1.4652	13.08913	3.73629
12:23:29				774	8.78977	0.4603578	3.9364	1.4652	13.52869	3.65739
12:23:29				775	8.69722	0.4225342	3.838	13.96825	9.23077	3.34683
12:23:30				776	8.67065	0.3887244	3.7396	1.4652	12.50305	3.0649
12:23:30	12:22:15 end transect	5.0	270	777	8.69526	0.6534562	3.7396	1.4652	12.50305	5.33185
12:23:31				778	8.88024	0.4640445	3.9364	1.4652	12.35653	3.67927
12:23:31				779	8.86453	0.4896933	3.838	1.4652	11.37973	3.89826
12:23:32				780	8.76717	0.4073105	3.838	1.4652	12.74725	3.21231
12:23:32				781	8.80163	0.446414	3.838	1.51404	13.52869	3.53827
12:23:33				782	8.78191	0.419329	3.838	1.4652	12.30769	3.31192
12:23:33				783	8.74843	0.4145221	3.838	1.51404	11.67277	3.2746
12:23:34				784	8.68738	0.4815186	3.838	1.51404	12.25885	3.84798
12:23:34				785	8.70214	0.5531927	3.838	1.4652	12.79609	4.4606
12:23:35				786	8.73368	0.3882432	3.838	1.4652	12.11233	3.05544
12:23:35				787	8.68738	0.3670956	3.838	1.4652	12.55189	2.88257
12:23:36				788	8.56999	0.3147206	3.7396	1.4652	12.94261	2.45607
12:23:36				789	8.5483	0.3887246	3.7396	1.4652	13.43101	3.07547
12:23:37				790	8.52555	0.4021838	3.838	1.4652	14.84737	3.19091
12:23:37				791	8.51963	0.2879799	3.838	1.41636	14.11477	2.23863
12:23:38				792	8.45936	0.2875	3.838	1.4652	14.16361	2.23847
12:23:38				793	8.46134	0.2626853	3.838	1.4652	14.35897	2.03435

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:23:39				794	8.45239	0.259323	3.838	1.41636	16.4591	2.00732
12:23:39				795	8.44745	0.2614048	3.838	1.4652	14.60317	2.02465
12:23:40				796	8.44449	0.2673283	3.7396	1.4652	14.26129	2.07341
12:23:40				797	8.47318	0.515829	3.838	1.4652	14.55433	4.16634
12:23:41				798	8.71303	0.3996198	3.838	1.4652	13.38217	3.1526
12:23:41				799	8.72385	0.4877693	3.838	1.4652	13.52869	3.89729
12:23:42				800	8.75138	0.3254505	3.838	1.41636	14.01709	2.53205
12:23:42				801	8.61932	0.3411464	3.838	1.4652	13.96825	2.67173
12:23:43				802	8.58484	0.4326303	3.838	5.32357	12.99145	3.44292
12:23:43				803	8.70116	0.7014408	3.838	2.29548	14.31013	5.75158
12:23:44				804	9.10781	0.5762876	3.9364	19.1453	11.72161	4.60724
12:23:44				805	9.1871	0.4811963	3.9364	29.54823	8.35165	3.79179
12:23:45				806	8.92052	0.4039453	3.7396	26.37363	8.98657	3.17042
12:23:45				807	8.85766	0.7964825	3.7396	14.89621	11.03785	6.563
12:23:46				808	9.32195	0.6651692	3.838	17.6801	12.11233	5.33976
12:23:46				809	9.4078	0.614625	3.9364	34.48107	7.76557	4.89476
12:23:47				810	9.18515	0.5334659	3.838	33.55311	8.00977	4.2332
12:23:47				811	9.22524	0.5700319	3.7396	23.58974	10.01221	4.5389
12:23:48				812	9.13525	0.5068479	3.7396	6.34921	12.84493	4.01365
12:23:48				813	9.02947	0.8520502	3.838	5.37241	12.79609	7.02241
12:23:49				814	9.42727	0.5214381	3.838	9.32845	12.94261	4.1036
12:23:49				815	9.13036	0.5251276	3.838	12.60073	11.52625	4.16894
12:23:50				816	8.96469	0.5028405	3.7396	6.05617	12.55189	3.99881
12:23:50				817	8.96175	0.4898547	3.838	8.35165	13.62637	3.88903
12:23:51				818	8.87827	0.4066698	3.838	10.35409	11.67277	3.19695
12:23:51				819	8.83306	0.4029835	3.838	8.69353	11.81929	3.17014
12:23:52				820	8.80752	0.3216065	3.838	1.9536	14.01709	2.4964
12:23:52				821	8.64499	0.3180839	3.838	3.32112	12.84493	2.47868
12:23:53				822	8.60553	0.3650135	3.7396	3.51648	12.99145	2.8718
12:23:53				823	8.62129	0.6290676	3.838	1.75824	13.77289	5.12969
12:23:54				824	8.81538	0.5089331	3.838	7.08181	12.30769	4.06753
12:23:54				825	8.84189	0.3087954	3.838	5.32357	11.96581	2.38877
12:23:55				826	8.67065	0.3126395	3.7396	3.12576	13.04029	2.43196
12:23:55				827	8.6075	0.4162851	3.7396	1.85592	13.47985	3.30249
12:23:56				828	8.67262	0.8504446	3.838	1.90476	13.47985	7.0788
12:23:56				829	9.13818	0.5374749	3.9364	1.51404	13.28449	4.27278
12:23:57				830	8.96861	0.5684274	3.838	34.92063	10.15873	4.55781
12:23:57				831	8.77897	0.3799118	3.7396	15.9707	11.47741	2.98198
12:23:58				832	8.9215	0.4202894	3.838	6.54457	12.94261	3.30703
12:23:58				833	8.84785	0.3638914	3.838	7.03297	12.01465	2.84301
12:23:59				834	8.78781	0.4398426	3.838	4.1514	13.08913	3.48416
12:23:59				835	8.76619	0.4071503	3.838	12.84493	12.16117	3.21105
12:24:00				836	8.78093	0.3791108	3.838	8.40049	12.25885	2.97513
12:24:00				837	8.6923	0.3526794	3.838	4.24908	12.89377	2.76207
12:24:01				838	8.61637	0.331217	3.838	1.4652	13.23565	2.58947

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:24:01				839	8.59469	0.2718095	3.7396	1.4652	13.23565	2.10131
12:24:02				840	8.57689	0.3815151	3.838	1.4652	14.65201	3.01242
12:24:02				841	8.5552	0.3132802	3.838	1.4652	14.65201	2.44516
12:24:03				842	8.55323	0.3156816	3.838	1.4652	13.72405	2.46518
12:24:03				843	8.53443	0.2630056	3.7396	1.4652	13.52869	2.0328
12:24:04				844	8.55224	0.7463876	3.7396	1.4652	15.33578	6.17371
12:24:05				847	8.66721	0.348917	3.838	2.39316	13.33333	2.73271
12:24:06				848	8.7086	0.3082496	3.7396	1.4652	13.91941	2.39322
12:24:06				849	8.63958	0.2957632	3.7396	1.4652	14.11477	2.29503
12:24:07				850	8.59026	0.3388291	3.838	1.41636	14.79853	2.65463
12:24:07				851	8.56463	0.2892	3.838	1.4652	14.16361	2.24583
12:24:08				852	8.58829	0.3862335	3.838	8.64469	13.23565	3.05107
12:24:08				853	8.61791	0.2919213	3.838	2.24664	13.28449	2.26483
12:24:09				854	8.5597	0.2826373	3.7396	3.51648	13.13797	2.1922
12:24:09				855	8.58434	0.3322653	3.7396	1.80708	13.28449	2.60052
12:24:10				856	8.62185	0.3010452	3.9364	1.75824	13.23565	2.33965
12:24:10				857	8.61692	0.316254	3.838	1.75824	13.23565	2.4655
12:24:11				858	8.58533	0.3197768	3.838	21.92918	12.35653	2.49686
12:24:11				859	8.5735	0.3087294	3.838	15.04274	12.45421	2.40628
12:24:12				860	8.55378	0.2908005	3.838	8.15629	12.69841	2.25969
12:24:12				861	8.58237	0.2914415	3.838	5.81197	13.23565	2.26315
12:24:13				862	8.57744	0.2930417	3.838	3.02808	14.35897	2.27663
12:24:13				863	8.53696	0.3023268	3.838	1.51404	13.62637	2.35583
12:24:14				864	8.5735	0.2983236	3.838	1.51404	13.91941	2.32039
12:24:14				865	8.57843	0.2819975	3.838	1.4652	13.57753	2.18579
12:24:15				866	8.53998	0.280237	3.838	1.4652	14.01709	2.17369
12:24:15				867	8.5528	0.2701537	3.838	1.51404	14.70085	2.09022
12:24:16				868	8.53899	0.2583109	3.838	1.51404	15.18926	1.99417
12:24:16				869	8.51821	0.2570304	3.838	1.4652	14.31013	1.98488
12:24:17				870	8.50637	0.2562298	3.838	1.4652	14.70085	1.979
12:24:17				871	8.50933	0.3116113	3.838	1.4652	14.60317	2.43449
12:24:18				872	8.55378	0.2597504	3.838	1.4652	14.94505	2.0051
12:24:18				873	8.53696	0.2787957	3.838	1.4652	14.06593	2.16204
12:24:19				874	8.534	0.3141724	3.7396	1.4652	14.40781	2.45402
12:24:19				875	8.56759	0.3228176	3.838	1.51404	14.60317	2.52331
12:24:20				876	8.61692	0.2816769	3.838	1.4652	13.96825	2.1808
12:24:20				877	8.58434	0.2794369	3.7396	1.4652	13.47985	2.16442
12:24:21				878	8.59124	0.3484376	3.838	1.4652	13.77289	2.73456
12:24:21				879	8.65047	0.3417124	3.838	1.4652	13.96825	2.67409
12:24:22				880	8.66524	0.2928815	3.838	1.4652	13.08913	2.26971
12:24:22				881	8.58533	0.3682949	3.838	1.4652	13.57753	2.90089
12:24:23				882	8.60116	0.8784934	3.838	1.41636	13.23565	7.34499
12:24:23				883	9.44995	0.6881081	3.838	1.4652	14.21245	5.51765
12:24:24				884	9.9545	0.5474448	3.838	1.4652	13.57753	4.26
12:24:24				885	9.32517	0.3836697	3.838	1.41636	13.43101	2.96775

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:24:25				886	8.95826	0.3559629	3.7396	12.60073	13.04029	2.76869
12:24:25				887	8.79321	0.3399503	3.838	5.37241	12.79609	2.64882
12:24:26				888	8.68197	0.3433135	3.7396	8.84005	12.50305	2.68502
12:24:26				889	8.73614	0.4531999	3.838	4.3956	13.23565	3.60223
12:24:27				890	8.71647	0.4514364	3.838	12.25885	12.60073	3.58928
12:24:27	12:23:12 no flow			891	8.71549	0.3530813	3.9364	7.91209	12.79609	2.76361
12:24:28				892	8.71155	1.0010642	3.9364	6.20269	13.13797	8.42786
12:24:28				893	9.63378	1.0933108	4.2315	6.25153	12.45421	9.0325
12:24:29				894	9.90807	1.0340032	4.3299	18.60806	4.73748	8.44076
12:24:29				895	9.96802	1.1037593	4.4283	13.13797	3.85836	9.04171
12:24:30				896	10.02309	1.0867205	4.4283	3.32112	3.51648	8.87767
12:24:30				897	10.04239	1.0987746	4.5267	3.02808	3.61416	8.9792
12:24:31				898	10.04142	1.1008655	4.6251	2.1978	3.46764	8.99787
12:24:31				899	10.03949	1.1100271	4.7234	3.27228	3.56532	9.0792
12:24:32				900	10.04142	1.111797	4.8218	1.4652	3.51648	9.09433
12:24:32				901	10.04528	1.1105103	4.9202	1.51404	2.9304	9.08199
12:24:33				902	10.05974	1.1097071	5.0186	1.4652	2.73504	9.07127
12:24:33				903	10.07909	1.1077774	5.0186	1.4652	2.49084	9.04942
12:24:34				904	10.0974	1.1248174	5.117	1.4652	2.88156	9.19514
12:24:34				905	10.08487	1.1214423	5.3137	1.4652	2.88156	9.16849
12:24:35				906	10.10414	1.1092239	5.3137	1.4652	2.78388	9.05589
12:24:35				907	10.08101	1.1101881	5.4121	1.4652	3.02808	9.07015
12:24:36				908	10.08583	1.1190313	5.4121	1.4652	2.6862	9.14696
12:24:36				909	10.10993	1.1214423	5.4121	1.4652	2.58852	9.16216
12:24:37				910	10.12341	1.123853	5.4121	1.4652	2.58852	9.18002
12:24:37				911	10.12534	1.1158152	5.4121	1.41636	2.49084	9.10867
12:24:38				912	10.1186	1.1175843	5.5105	1.4652	2.58852	9.12594
12:24:38				913	10.10993	1.109868	5.4121	1.4652	2.58852	9.06011
12:24:39				914	10.08391	1.1076165	5.3137	1.4652	2.78388	9.04676
12:24:39				915	10.06945	1.1058491	5.2153	1.4652	2.73504	9.03479
12:24:40				916	10.07041	1.1273908	5.3137	1.4652	2.63736	9.22468
12:24:40				917	10.10222	1.1162973	5.4121	1.4652	2.63736	9.11872
12:24:41				918	10.10029	1.1190313	5.3137	1.4652	2.53968	9.14333
12:24:41				919	10.09644	1.1253008	5.2153	1.4652	2.6862	9.19964
12:24:42				920	10.11282	1.128838	5.3137	1.4652	2.73504	9.22669
12:24:42				921	10.12727	1.1243362	5.4121	1.51404	2.53968	9.1833
12:24:43				922	10.12341	1.1216017	5.4121	1.4652	2.53968	9.16016
12:24:43				923	10.1263	1.1085821	5.3137	1.4652	2.58852	9.04472
12:24:44				924	10.1186	1.1124393	5.4121	1.51404	2.63736	9.08061
12:24:44				925	10.09933	1.1146903	5.4121	1.4652	2.58852	9.10527
12:24:45				926	10.0974	1.109707	5.4121	1.4652	2.63736	9.06182
12:24:45				927	10.07523	1.1154948	5.4121	1.4652	2.73504	9.11841
12:24:46				928	10.05685	1.1109936	5.5105	1.4652	2.78388	9.08328
12:24:46				929	10.05974	1.1108325	5.4121	1.4652	2.63736	9.08115
12:24:47				930	10.0636	1.1116359	5.4121	1.4652	2.6862	9.08727

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:24:47				931	10.06071	1.1122784	5.4121	1.41636	2.6862	9.09367
12:24:48				932	10.06071	1.1111525	5.5105	1.4652	2.58852	9.08372
12:24:48				933	10.06167	1.1114748	5.4121	1.4652	2.58852	9.08633
12:24:49				934	10.06456	1.1119582	5.4121	1.41636	2.58852	9.08988
12:24:49				935	10.06167	1.1121172	5.4121	1.4652	2.83272	9.092
12:24:50				936	10.06264	1.1127619	5.5105	1.4652	2.88156	9.09744
12:24:50				937	10.06456	1.1124395	5.5105	1.41636	2.83272	9.09411
12:24:51				938	10.06167	1.1142087	5.5105	1.4652	2.53968	9.11045
12:24:51				939	10.06752	1.1167794	5.5105	1.4652	2.442	9.13167
12:24:52				940	10.07523	1.1212807	5.5105	1.4652	2.6862	9.16947
12:24:52				941	10.0974	1.1225677	5.5105	1.51404	2.63736	9.17523
12:24:53				942	10.0974	1.1161359	5.5105	1.51404	2.6862	9.11849
12:24:53				943	10.0974	1.1172614	5.5105	1.4652	2.442	9.12842
12:24:54				944	10.09065	1.1243363	5.5105	1.4652	2.58852	9.19255
12:24:54				945	10.09354	1.1185489	5.6089	1.51404	2.442	9.14073
12:24:55				946	10.09162	1.1201558	5.5105	1.4652	2.78388	9.15541
12:24:55				947	10.09547	1.1214423	5.4121	1.51404	2.53968	9.1658
12:24:56				948	10.10222	1.1259441	5.4121	1.4652	2.49084	9.20383
12:24:56				949	10.108	1.1217635	5.5105	1.4652	2.53968	9.16546
12:24:57				950	10.10607	1.123372	5.4121	1.4652	2.53968	9.18015
12:24:57				951	10.108	1.123372	5.3137	1.4652	2.53968	9.17968
12:24:58				952	10.10993	1.1216017	5.2153	1.4652	2.53968	9.16359
12:24:58				953	10.11378	1.1225675	4.9202	1.4652	2.63736	9.17118
12:24:59				954	10.11282	1.1164585	4.8218	1.41636	2.49084	9.11756
12:24:59				955	10.10511	1.1190312	4.7234	1.4652	2.58852	9.1422
12:25:00				956	10.0974	1.112117	4.6251	1.4652	2.9304	9.08317
12:25:00				957	10.08198	1.1056882	4.5267	1.4652	2.88156	9.03035
12:25:01				958	10.07234	1.0994185	4.5267	1.4652	2.97924	8.97748
12:25:01				959	10.05589	1.1003838	4.5267	1.4652	3.02808	8.99006
12:25:02				960	10.04431	1.0908995	4.3299	1.4652	2.97924	8.90932
12:25:02				961	10.03178	1.0900953	4.3299	1.4652	2.88156	8.90531
12:25:03				962	10.02406	1.0883275	4.3299	1.4652	3.02808	8.89162
12:25:03				963	10.01441	1.0843075	4.3299	1.4652	3.32112	8.85853
12:25:04				964	10.01344	1.0806118	4.2315	1.4652	3.02808	8.82621
12:25:05				967	10.12817	1.0691285	4.1331	1.4652	3.32112	8.69755
12:25:06				968	10.13497	1.0704144	3.9364	16.36142	3.32112	8.70723
12:25:06				969	10.1552	1.0670387	3.9364	15.14042	3.36996	8.67279
12:25:07				970	10.10216	1.0524083	3.9364	26.32479	4.1514	8.55706
12:25:07				971	10.09734	1.0072403	3.9364	22.51526	3.663	8.16283
12:25:08				972	9.99885	1.0191348	3.838	23.19902	3.9072	8.28925
12:25:08				973	10.04233	1.0834367	3.9364	19.58486	5.12821	8.84411
12:25:09				974	10.09059	1.0321534	3.9364	21.29426	4.29792	8.38226
12:25:09				975	10.12432	0.9797574	3.9364	19.8779	3.85836	7.91719
12:25:10				976	10.09637	0.896845	3.9364	23.68742	3.85836	7.20375
12:25:10				977	9.85961	1.0054735	3.838	23.63858	4.93284	8.20099

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:25:11				978	9.90215	1.0536959	3.838	14.16361	7.47253	8.61573
12:25:11				979	10.07607	1.0096501	3.9364	12.79609	8.44933	8.18867
12:25:12				980	10.1195	0.9138754	3.9364	22.17338	5.95849	7.34639
12:25:12				981	9.99306	0.8913832	3.9364	24.95726	5.95849	7.17694
12:25:13				982	9.84891	0.9058432	3.838	19.19414	6.88645	7.33141
12:25:13				983	9.83343	0.8635938	3.838	12.64957	8.44933	6.96719
12:25:14				984	10.07415	0.7877916	3.9364	8.54701	9.52381	6.27043
12:25:14				985	10.07903	0.7421954	3.9364	12.99145	5.76313	5.88089
12:25:15				986	9.70258	0.4773397	3.9364	12.25885	6.25153	3.70598
12:25:15				987	9.4283	0.4609891	3.838	5.51893	9.57265	3.59803
12:25:16				988	9.21945	0.3265657	3.9364	1.9536	11.33089	2.50825
12:25:16				989	9.04813	0.3983305	3.9364	1.51404	12.21001	3.11242
12:25:17				990	8.94417	0.3763807	3.9364	3.1746	10.45177	2.93889
12:25:17				991	8.98441	0.8607047	3.9364	3.46764	10.15873	7.1081
12:25:18				992	9.26343	0.6491088	3.9364	2.83272	10.25641	5.21025
12:25:18	12:24:03 in plume	5.0	225	993	9.47506	0.5937588	3.9364	2.29548	10.25641	4.70837
12:25:19				994	9.21066	0.4986623	3.838	1.51404	10.98901	3.93622
12:25:19				995	9.23312	1.0593247	3.838	1.4652	11.08669	8.82786
12:25:20				996	9.52568	0.609801	4.0348	1.41636	11.62393	4.83779
12:25:20				997	9.44491	0.655046	3.9364	1.4652	11.62393	5.2348
12:25:21				998	9.25757	0.4810272	3.838	2.83272	9.81685	3.78294
12:25:21				999	9.29269	0.5656895	3.838	1.4652	10.50061	4.49349
12:25:22				1000	9.27709	0.6545636	3.9364	1.51404	10.45177	5.25516
12:25:22				1001	9.2458	0.3706124	3.9364	1.51404	10.45177	2.86682
12:25:23				1002	9.13629	0.4431993	3.9364	3.663	10.06105	3.4784
12:25:23				1003	8.96972	0.3278466	3.838	1.4652	10.54945	2.53628
12:25:24				1004	8.81839	0.2895758	3.9364	1.4652	10.45177	2.23297
12:25:24				1005	8.77706	0.5883069	3.838	1.4652	10.35409	4.75395
12:25:25				1006	8.98637	0.5908721	3.9364	1.4652	13.62637	4.74815
12:25:25				1007	9.07657	0.4415969	3.9364	1.4652	12.25885	3.47079
12:25:26				1008	8.91862	0.3832695	3.9364	1.4652	12.74725	2.99825
12:25:26				1009	8.77411	0.292618	3.838	1.4652	12.94261	2.26063
12:25:27				1010	8.79776	0.9145223	3.9364	1.4652	14.60317	7.62726
12:25:27				1011	9.29367	0.4783014	4.0348	1.51404	12.55189	3.75629
12:25:28				1012	9.21847	0.4831117	3.9364	1.4652	12.60073	3.80456
12:25:28				1013	8.99029	0.3810264	3.838	1.90476	11.47741	2.97363
12:25:29				1014	9.05107	0.4201214	3.838	1.9536	11.47741	3.29367
12:25:29				1015	8.99421	0.5344169	3.9364	1.4652	12.55189	4.26394
12:25:30				1016	9.09124	0.3648462	4.0348	1.4652	12.55189	2.8316
12:25:30				1017	8.95005	0.3718945	3.9364	1.4652	13.91941	2.90119
12:25:31				1018	8.82723	0.2948606	3.838	1.41636	13.43101	2.27561
12:25:31				1019	8.84594	0.3326526	3.9364	1.4652	13.82173	2.58468
12:25:32				1020	8.75839	0.2927781	3.9364	1.51404	14.11477	2.26294
12:25:32				1021	8.7397	0.2870141	3.9364	1.4652	13.77289	2.21693
12:25:33				1022	8.72883	0.2684441	3.838	1.51404	13.43101	2.066

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:25:33				1023	8.73872	0.2705244	3.9364	1.51404	13.62637	2.08236
12:25:34				1024	8.71801	0.2638016	3.9364	1.4652	13.38217	2.02882
12:25:34				1025	8.69735	0.2631606	3.9364	1.4652	14.11477	2.02478
12:25:35				1026	8.69335	0.2630012	3.9364	1.4652	13.62637	2.02371
12:25:35				1027	8.7003	0.2580384	3.9364	1.4652	13.47985	1.98295
12:25:36				1028	8.68843	0.2673238	3.9364	1.4652	14.50549	2.0592
12:25:36				1029	8.69237	0.2649219	3.9364	1.4652	13.82173	2.0394
12:25:37				1030	8.68252	0.2604393	3.838	1.4652	14.40781	2.00347
12:25:37				1031	8.68548	0.2641222	3.9364	1.4652	14.01709	2.03328
12:25:38				1032	8.68548	0.2618811	3.9364	1.4652	14.16361	2.01503
12:25:38				1033	8.68548	0.258359	3.9364	1.51404	14.01709	1.98638
12:25:39				1034	8.68154	0.2580384	3.9364	1.4652	14.50549	1.98399
12:25:39				1035	8.67859	0.2570784	3.838	1.4652	14.40781	1.97635
12:25:40				1036	8.67563	0.2614003	3.9364	1.4652	14.21245	2.01168
12:25:40				1037	8.68154	0.259479	3.9364	1.41636	13.67521	1.99571
12:25:41				1038	8.68351	0.2578781	3.9364	1.4652	13.28449	1.98258
12:25:41				1039	8.68154	0.2586797	3.9364	1.4652	13.62637	1.9892
12:25:42				1040	8.67465	0.2589991	3.838	1.4652	14.01709	1.99219
12:25:42				1041	8.6776	0.2567581	3.838	1.4652	13.18681	1.9738
12:25:43				1042	8.68351	0.5005859	3.9364	1.51404	14.94505	4.01119
12:25:43				1043	8.69636	0.2748469	4.0348	1.4652	13.96825	2.12011
12:25:44				1044	8.68941	0.2783692	3.9364	1.51404	13.67521	2.14931
12:25:44				1045	8.67465	0.2604393	3.838	1.51404	13.72405	2.00391
12:25:45				1046	8.67465	0.2694038	3.838	1.4652	13.96825	2.07697
12:25:45				1047	8.66776	0.2953403	4.0348	1.51404	14.45665	2.28973
12:25:46				1048	8.6717	0.2988628	4.0348	1.4652	14.01709	2.31843
12:25:46				1049	8.6717	0.2863738	3.9364	1.4652	13.67521	2.21591
12:25:47				1050	8.68548	0.2646025	3.838	1.4652	14.26129	2.0372
12:25:47				1051	8.70325	0.2649219	3.9364	1.4652	15.38462	2.03878
12:25:48				1052	8.70227	0.2652427	3.9364	1.4652	14.11477	2.04145
12:25:48				1053	8.70423	0.265722	3.9364	1.51404	13.62637	2.04524
12:25:49				1054	8.70719	0.2524372	3.838	1.51404	13.57753	1.93708
12:25:49				1055	8.68548	0.2543568	3.9364	1.51404	15.43346	1.95385
12:25:50				1056	8.66284	0.2578781	3.9364	1.4652	14.70085	1.98373
12:25:50				1057	8.6717	0.2559577	3.838	1.4652	13.52869	1.96762
12:25:51				1058	8.66776	0.2599591	3.9364	1.4652	13.67521	2.00039
12:25:51				1059	8.67859	0.2628417	4.0348	1.41636	14.31013	2.02324
12:25:52				1060	8.68154	0.2655622	3.9364	1.4652	13.87057	2.04524
12:25:52				1061	8.67367	0.2658833	3.838	1.4652	13.91941	2.04831
12:25:53				1062	8.68252	0.2738862	3.838	1.4652	13.57753	2.11309
12:25:53				1063	8.69833	0.3105526	4.0348	1.51404	13.87057	2.41286
12:25:54				1064	8.73276	0.27965	3.9364	1.51404	14.01709	2.15716
12:25:54				1065	8.70227	0.2591595	3.838	1.4652	13.43101	1.99195
12:25:55				1066	8.69833	0.7781603	3.9364	1.51404	13.57753	6.42972
12:25:55				1067	8.88723	0.3712544	3.9364	1.4652	13.23565	2.90098

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:25:56				1068	8.89704	0.365007	3.9364	1.4652	12.01465	2.84834
12:25:56				1069	8.77706	0.3515514	3.9364	1.4652	13.38217	2.74614
12:25:57				1070	8.80758	0.2710055	3.838	1.4652	13.77289	2.08227
12:25:57				1071	8.82624	0.3709336	3.9364	1.4652	14.55433	2.90327
12:25:58				1072	8.85282	0.4592266	3.9364	1.4652	14.01709	3.64136
12:25:58				1073	9.03638	0.323843	3.9364	1.4652	13.91941	2.49878
12:25:59				1074	8.88134	0.3662887	3.9364	1.51404	14.89621	2.86023
12:25:59				1075	8.83121	0.3536334	3.838	1.4652	14.35897	2.75923
12:26:00				1076	8.81151	0.2713249	3.9364	1.51404	14.84737	2.08463
12:26:00				1077	8.82133	0.3526732	3.9364	1.4652	14.40781	2.75203
12:26:01				1078	8.80463	0.2921379	3.9364	1.4652	14.40781	2.25477
12:26:01				1079	8.78891	0.2759676	3.9364	1.4652	13.57753	2.12375
12:26:02				1080	8.7574	0.2828524	3.9364	1.4652	13.82173	2.18182
12:26:02				1081	8.73571	0.4380707	3.9364	1.4652	13.13797	3.47428
12:26:03				1082	8.86558	0.3954458	3.9364	1.51404	15.7265	3.10426
12:26:03				1083	8.98931	0.3291283	4.0348	1.51404	13.91941	2.5454
12:26:04				1084	8.88232	0.3049472	3.9364	1.4652	13.43101	2.35455
12:26:05				1087	8.88085	0.3312332	4.0348	1.4652	13.23565	2.57046
12:26:06				1088	8.89557	0.3711193	4.0348	1.4652	11.96581	2.89917
12:26:06				1089	8.81796	0.312176	3.9364	1.4652	12.74725	2.41812
12:26:07				1090	8.86515	0.6244355	3.9364	1.4652	13.43101	5.05447
12:26:07				1091	8.9378	0.4361739	3.9364	1.4652	13.04029	3.43872
12:26:08				1092	8.98986	0.3530158	3.9364	1.4652	11.91697	2.74191
12:26:08				1093	8.88575	0.4015604	3.9364	1.4652	13.04029	3.15357
12:26:09				1094	8.94962	0.7387051	3.9364	1.4652	13.13797	6.03764
12:26:09				1095	9.25611	0.6745001	4.0348	1.51404	12.64957	5.43
12:26:10				1096	9.58652	0.4425841	4.0348	1.4652	9.13309	3.43007
12:26:10				1097	9.10451	0.2961624	3.838	1.4652	9.91453	2.26862
12:26:11				1098	8.99378	0.5856124	3.9364	1.4652	12.11233	4.70198
12:26:11				1099	9.05749	0.3501333	4.0348	1.4652	12.60073	2.71301
12:26:12				1100	9.06532	0.3651903	3.9364	1.41636	10.74481	2.83649
12:26:12				1101	8.89164	0.2635008	3.9364	1.4652	11.62393	2.01655
12:26:13				1102	8.84545	0.5314028	3.9364	1.51404	12.55189	4.25596
12:26:13				1103	8.88772	0.3454882	3.9364	1.4652	13.38217	2.68753
12:26:14				1104	8.85429	0.3195422	3.9364	1.51404	13.52869	2.47616
12:26:14				1105	8.92015	0.526431	3.9364	1.51404	12.99145	4.20463
12:26:15				1106	8.95354	0.3297912	3.9364	1.4652	12.94261	2.5534
12:26:15				1107	8.92799	0.3427648	3.9364	1.4652	13.47985	2.66204
12:26:16				1108	8.93682	0.3799301	3.9364	1.4652	13.38217	2.96897
12:26:16				1109	8.96825	0.3257884	3.9364	1.4652	13.23565	2.51949
12:26:17				1110	8.94668	0.4044437	3.9364	1.4652	12.11233	3.17225
12:26:17				1111	9.04183	0.6740189	3.9364	1.4652	12.16117	5.45843
12:26:18				1112	9.27569	0.5703743	4.0348	1.4652	12.11233	4.53542
12:26:18				1113	9.42301	0.3986752	3.9364	1.4652	11.03785	3.08295
12:26:19				1114	9.25514	0.4286425	3.9364	1.4652	10.94017	3.34575

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:26:19				1115	9.09473	0.4257577	3.838	1.51404	11.37973	3.33667
12:26:20				1116	9.1515	0.7729022	3.9364	1.4652	12.40537	6.30244
12:26:20				1117	9.38984	0.4709565	3.9364	1.4652	11.96581	3.68495
12:26:21				1118	9.34302	0.4438667	3.9364	1.4652	10.94017	3.46398
12:26:21				1119	9.23952	0.3621472	3.9364	1.41636	12.69841	2.79778
12:26:22				1120	9.21115	0.4111745	3.9364	1.4652	13.28449	3.20472
12:26:22				1121	9.23952	0.4238337	3.9364	1.51404	12.45421	3.30723
12:26:23				1122	9.24928	0.2916779	4.0348	1.41636	12.79609	2.22327
12:26:23				1123	9.1965	0.3808902	3.9364	1.51404	14.40781	2.95545
12:26:24				1124	9.03002	0.6034191	4.0348	1.51404	14.94505	4.85016
12:26:24				1125	9.19845	0.3892221	4.0348	1.4652	14.74969	3.02407
12:26:25				1126	9.04379	0.3626282	3.9364	1.4652	13.62637	2.81705
12:26:25				1127	9.02708	0.5229038	3.9364	1.4652	13.33333	4.16208
12:26:26				1128	8.98196	0.3711192	4.0348	1.4652	14.11477	2.89218
12:26:26				1129	8.96237	0.3198624	3.9364	1.4652	13.47985	2.47131
12:26:27				1130	9.00456	0.8586632	3.9364	1.4652	13.96825	7.08597
12:26:27				1131	9.65646	0.659895	4.0348	1.51404	13.43101	5.24544
12:26:28				1132	9.66622	0.6473799	4.0348	1.51404	12.01465	5.13757
12:26:28				1133	9.68173	0.7054764	3.9364	1.4652	12.84493	5.63077
12:26:29				1134	9.75448	0.7218478	3.9364	1.51404	13.04029	5.75942
12:26:29				1135	9.87273	0.5549759	4.0348	1.4652	10.06105	4.33238
12:26:30				1136	9.94623	0.6221885	4.0348	1.4652	9.62149	4.8859
12:26:30				1137	9.95106	0.5575405	4.0348	1.4652	9.03541	4.3444
12:26:31				1138	9.80779	0.5376547	3.9364	1.41636	9.32845	4.19559
12:26:31				1139	9.63511	0.5084704	3.9364	1.4652	10.10989	3.97179
12:26:32				1140	9.55246	0.5070287	4.0348	1.4652	12.30769	3.96884
12:26:32				1141	9.51359	0.4990114	4.0348	1.4652	11.52625	3.90611
12:26:33				1142	9.50089	0.4371355	4.0348	1.51404	11.96581	3.39315
12:26:33				1143	9.38205	0.3139366	3.9364	1.51404	12.35653	2.39465
12:26:34				1144	9.21603	0.490034	3.9364	1.4652	12.64957	3.863
12:26:34				1145	9.04868	0.3699975	4.0348	1.4652	14.11477	2.87752
12:26:35				1146	8.99378	0.391306	4.0348	1.4652	12.94261	3.05871
12:26:35				1147	8.99378	0.4207896	4.0348	1.4652	13.13797	3.30452
12:26:36				1148	9.00456	0.4012395	4.0348	1.4652	14.16361	3.14043
12:26:36				1149	9.03393	0.3369981	4.0348	1.4652	13.47985	2.60679
12:26:37				1150	8.94368	0.3589432	4.0348	1.4652	14.31013	2.79444
12:26:37				1151	8.9506	0.3483707	3.9364	1.4652	12.35653	2.70658
12:26:38				1152	8.94472	0.6818831	3.9364	1.4652	12.84493	5.54177
12:26:38				1153	8.91819	0.7950628	4.0348	1.51404	12.64957	6.53928
12:26:39				1154	9.36056	0.8814722	4.0348	1.4652	13.13797	7.21648
12:26:39				1155	9.73317	0.5451929	4.0348	1.4652	13.18681	4.26724
12:26:40				1156	9.23952	0.6244347	3.9364	1.4652	12.99145	5.00181
12:26:40				1157	9.24928	0.9441347	4.0348	1.41636	12.84493	7.79424
12:26:41				1158	9.44734	0.5514469	4.0348	1.4652	12.99145	4.3539
12:26:41				1159	9.30592	0.5939543	4.0348	1.4652	8.44933	4.73223

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:26:42				1160	9.14661	0.5100758	3.9364	1.4652	10.98901	4.03965
12:26:42	12:25:27 flow starts			1161	9.18478	0.7106127	4.0348	1.4652	13.08913	5.75369
12:26:43				1162	9.30397	0.8660516	4.1331	1.51404	13.23565	7.09194
12:26:43				1163	9.75254	0.5910655	4.0348	1.4652	12.79609	4.64964
12:26:44				1164	9.43955	0.6935993	3.9364	1.51404	12.11233	5.56647
12:26:44				1165	9.49506	0.9319201	3.9364	1.4652	12.74725	7.6333
12:26:45				1166	10.13551	0.8538406	4.0348	1.4652	10.50061	6.82553
12:26:45				1167	10.43086	0.8618722	4.0348	1.4652	8.88889	6.83899
12:26:46				1168	10.60821	0.8372954	4.0348	1.4652	8.93773	6.59752
12:26:46				1169	10.64359	0.9603609	4.0348	1.4652	8.93773	7.63908
12:26:47				1170	10.66086	0.9404338	4.0348	1.4652	8.74237	7.46501
12:26:47				1171	10.79465	0.9195454	4.0348	1.4652	6.69109	7.26018
12:26:48				1172	10.83857	0.9062097	4.0348	1.51404	5.56777	7.1384
12:26:48				1173	10.8481	0.8535177	4.0348	1.4652	5.66545	6.69121
12:26:49				1174	10.49418	0.8127227	4.0348	1.4652	5.61661	6.40959
12:26:49				1175	10.33093	0.8801841	4.0348	1.4652	6.59341	7.01455
12:26:50				1176	10.69812	0.8596212	4.1331	1.41636	5.71429	6.77021
12:26:50				1177	10.82326	0.8223576	4.1331	1.4652	5.56777	6.43334
12:26:51				1178	10.63977	0.7785195	4.0348	1.4652	5.66545	6.09607
12:26:51				1179	10.62925	0.9793228	4.0348	1.4652	7.17949	7.80473
12:26:52				1180	10.88526	0.917617	4.0348	1.51404	6.05617	7.22598
12:26:52				1181	10.91865	0.8777737	4.0348	1.51404	4.78632	6.88272
12:26:53				1182	10.79751	0.9206696	4.0348	1.4652	5.32357	7.26916
12:26:53				1183	10.9177	0.9418799	4.0348	1.4652	5.90965	7.42533
12:26:54				1184	10.98913	0.9049235	4.1331	1.4652	4.83516	7.09843
12:26:54				1185	10.97391	0.8747199	4.1331	1.4652	4.83516	6.84669
12:26:55				1186	10.88431	0.8496629	4.0348	2.58852	5.03053	6.65218
12:26:55				1187	10.75547	0.9624483	4.0348	1.4652	4.98168	7.63367
12:26:56				1188	10.65799	0.9680733	4.1331	1.4652	7.27717	7.70214
12:26:56				1189	10.61873	0.9224378	4.1331	1.4652	7.27717	7.31972
12:26:57				1190	10.70385	1.0288284	4.0348	16.55678	5.37241	8.21406
12:26:57				1191	10.65034	1.0158082	4.0348	28.81563	5.51893	8.11387
12:26:58				1192	10.59195	0.9931458	4.1331	9.37729	4.44444	7.93155
12:26:58				1193	10.6063	0.9769126	4.0348	7.52137	3.85836	7.78891
12:26:59				1194	10.68284	0.9855908	4.0348	14.11477	4.1514	7.84709
12:26:59				1195	10.68284	0.9315959	4.0348	26.71551	4.6398	7.38508
12:27:00				1196	10.69335	0.9462176	3.9364	24.56654	4.49328	7.50782
12:27:00				1197	10.6283	1.0198281	4.0348	17.87546	4.24908	8.15338
12:27:01				1198	10.47597	0.989772	4.1331	8.59585	4.6398	7.92759
12:27:01				1199	10.38667	0.9179394	4.1331	3.9072	4.05372	7.32762
12:27:02				1200	10.29923	0.9108703	3.9364	4.00488	4.44444	7.28436
12:27:02				1201	10.2886	1.0458699	4.0348	10.69597	5.37241	8.4563
12:27:03				1202	10.2886	0.97611	4.2315	7.91209	5.66545	7.84991
12:27:03				1203	10.27899	0.9846276	4.1331	1.41636	4.10256	7.92584
12:27:04				1204	10.25208	0.8962497	4.0348	1.4652	4.05372	7.16787

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:27:05				1207	10.17475	0.9922996	4.1331	3.61416	4.83516	8.01531
12:27:06				1208	10.1931	0.9722104	4.0348	1.4652	4.05372	7.83667
12:27:06				1209	10.22196	1.0636688	4.0348	8.88889	4.68864	8.62739
12:27:07				1210	10.20946	0.9902096	4.1331	6.98413	4.884	7.9895
12:27:07				1211	10.22581	0.9879586	4.0348	2.83272	4.00488	7.96636
12:27:08				1212	10.24895	1.0496819	4.0348	7.17949	4.59096	8.49879
12:27:08				1213	10.18341	1.0173716	4.1331	6.44689	4.6398	8.23184
12:27:09				1214	10.1709	1.0114241	4.1331	1.75824	3.71184	8.18279
12:27:09				1215	10.21138	1.0639902	4.0348	3.32112	3.9072	8.63271
12:27:10				1216	10.14876	1.0482351	4.1331	8.49817	4.3956	8.50953
12:27:10				1217	10.14298	1.0197839	4.0348	3.46764	3.80952	8.26207
12:27:11				1218	10.21523	1.0421262	4.0348	5.07937	4.10256	8.44064
12:27:11				1219	10.18341	1.0561125	4.0348	5.22589	4.3956	8.57037
12:27:12				1220	10.11209	1.0594885	4.1331	4.10256	4.29792	8.61679
12:27:12				1221	10.07252	1.0133536	4.1331	1.90476	3.663	8.22184
12:27:13				1222	10.11209	1.0210689	4.0348	2.29548	3.56532	8.28033
12:27:13				1223	10.1372	1.0422881	3.9364	4.59096	4.20024	8.46019
12:27:14				1224	10.13232	1.0782989	4.1331	11.62393	5.81197	8.77707
12:27:14				1225	10.10149	1.0156042	4.1331	4.10256	4.05372	8.23495
12:27:15				1226	10.09186	1.0114244	4.1331	1.85592	3.56532	8.2006
12:27:15	12:26:00 in plume	5.0	225	1227	10.07637	0.9993705	4.0348	5.27473	4.24908	8.09877
12:27:16				1228	10.08415	0.9890853	4.0348	9.81685	4.93284	8.00727
12:27:16				1229	10.15839	1.0424475	3.9364	17.63126	5.71429	8.45666
12:27:17				1230	10.1632	0.9926192	4.1331	11.62393	4.49328	8.02064
12:27:17				1231	10.15261	0.9988887	4.1331	8.74237	4.05372	8.07759
12:27:18				1232	10.16224	0.9489088	4.0348	18.70574	4.78632	7.64103
12:27:18				1233	10.1863	1.0062825	4.0348	24.7619	4.98168	8.13453
12:27:19				1234	10.10342	1.0900353	4.1331	19.24298	4.83516	8.88726
12:27:19				1235	10.06191	0.9853892	4.1331	5.66545	4.24908	7.9799
12:27:20				1236	10.04841	1.0130318	4.2315	2.39316	3.663	8.22447
12:27:20				1237	10.03298	1.0017818	4.0348	5.03053	4.10256	8.12954
12:27:21				1238	10.03973	0.9892461	4.0348	6.83761	4.1514	8.01847
12:27:21				1239	10.05613	1.0438963	4.0348	7.08181	7.32601	8.49318
12:27:22				1240	10.07155	1.0353757	4.1331	8.79121	6.44689	8.41486
12:27:22				1241	10.07155	0.9987278	4.1331	3.27228	3.80952	8.09422
12:27:23				1242	10.04745	1.0278198	4.0348	3.32112	3.76068	8.35422
12:27:23				1243	10.03395	1.0207484	4.0348	6.34921	4.05372	8.29535
12:27:24				1244	10.07155	0.9763895	4.0348	21.97802	6.34921	7.89932
12:27:24				1245	10.15839	0.9849056	4.1331	28.91331	7.27717	7.95455
12:27:25				1246	10.17956	1.001138	4.1331	29.69475	5.90965	8.0912
12:27:25				1247	10.18438	0.9685143	4.1331	27.69231	5.71429	7.80644
12:27:26				1248	10.0986	0.9633724	4.0348	24.71306	5.71429	7.78014
12:27:26				1249	10.09764	1.0112645	4.0348	23.88278	6.54457	8.19791
12:27:27				1250	10.16031	0.9762273	4.1331	26.91087	5.47009	7.87864
12:27:27				1251	10.13335	0.9665855	4.1331	14.11477	4.05372	7.80062

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:27:28				1252	10.09282	0.9577472	4.0348	21.44078	4.884	7.73245
12:27:28				1253	10.12943	0.9526049	4.1331	20.90354	5.22589	7.68
12:27:29				1254	10.15742	0.9450517	4.0348	19.3895	4.83516	7.60859
12:27:29				1255	10.15068	1.0027457	4.0348	20.07326	4.98168	8.11166
12:27:30				1256	10.19887	0.9609616	4.1331	21.5873	6.15385	7.7378
12:27:30				1257	10.18438	0.928182	4.1331	25.78755	4.3956	7.45693
12:27:31				1258	10.09282	0.9178982	4.0348	26.95971	5.03053	7.38661
12:27:31				1259	10.11787	0.9513189	4.1331	25.59219	7.71673	7.67127
12:27:32				1260	10.18919	0.9262535	4.1331	29.20635	5.71429	7.43927
12:27:32				1261	10.15357	0.8899436	4.0348	24.7619	4.73748	7.13289
12:27:33				1262	10.12654	0.9445696	4.0348	24.46886	6.73993	7.61087
12:27:33				1263	10.13816	0.8968529	4.1331	26.17827	6.78877	7.19552
12:27:34				1264	10.12076	0.8595836	4.0348	27.69231	6.15385	6.8777
12:27:34				1265	10.14298	0.9897278	4.0348	27.25275	6.30037	7.99992
12:27:35				1266	10.26433	0.9622459	4.1331	26.27595	5.51893	7.73503
12:27:35				1267	10.27779	0.9175767	4.1331	24.56654	5.37241	7.34639
12:27:36				1268	10.23158	0.907294	4.0348	25.83639	5.12821	7.26704
12:27:36				1269	10.20657	0.9599975	4.0348	29.45055	5.32357	7.72782
12:27:37				1270	10.19791	0.9440892	4.1331	29.79243	5.03053	7.59179
12:27:37				1271	10.20465	0.9220754	4.0348	26.61783	4.49328	7.40002
12:27:38				1272	10.20272	0.970602	4.0348	27.20391	4.49328	7.82064
12:27:38				1273	10.24799	0.9903702	4.1331	26.56899	4.93284	7.98244
12:27:39				1274	10.26145	0.9627272	4.1331	17.63126	3.76068	7.73981
12:27:39				1275	10.2528	0.9622459	4.1331	18.75458	3.663	7.73748
12:27:40				1276	10.24799	1.0127112	4.1331	20.17094	3.85836	8.17669
12:27:40				1277	10.25184	1.0512897	4.1331	26.52015	3.71184	8.51214
12:27:41				1278	10.22485	1.0236401	4.2315	22.0757	4.00488	8.2771
12:27:41				1279	10.21619	0.9730128	4.2315	5.17705	3.51648	7.83864
12:27:42				1280	10.25857	0.9935841	4.0348	10.45177	3.61416	8.00805
12:27:42				1281	10.26818	0.989406	4.0348	24.81074	3.663	7.96967
12:27:43				1282	10.27202	0.9061694	3.9364	29.25519	3.9072	7.24931
12:27:43				1283	10.21908	0.6269704	3.838	35.6044	4.05372	4.88931
12:27:44				1284	9.58919	0.5732331	3.5428	32.47863	6.10501	4.52022
12:27:44				1285	9.30866	0.3991362	3.3461	6.44689	11.91697	3.09659
12:27:45				1286	9.09253	0.3976949	3.4445	6.49573	11.91697	3.10332
12:27:45				1287	8.95232	0.3799116	3.5428	1.51404	13.13797	2.96755
12:27:46				1288	8.93663	0.3682163	3.5428	1.4652	13.13797	2.8718
12:27:46				1289	8.90127	0.2894218	3.4445	3.22344	12.64957	2.22656
12:27:47				1290	8.84429	0.2825374	3.4445	1.90476	13.13797	2.17397
12:27:47				1291	8.74493	0.2918238	3.5428	1.4652	13.18681	2.25599
12:27:48				1292	8.70848	0.2879811	3.4445	1.4652	13.13797	2.22681
12:27:48				1293	8.69765	0.2875012	3.4445	1.4652	13.38217	2.22355
12:27:49				1294	8.72225	0.2810966	3.4445	1.51404	13.47985	2.16963
12:27:49				1295	8.73411	0.2822183	3.4445	1.4652	13.96825	2.17808
12:27:50				1296	8.74984	0.2753338	3.4445	1.4652	13.91941	2.12093

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(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:27:50				1297	8.76361	0.2690904	3.4445	1.4652	13.33333	2.06926
12:27:51				1298	8.71536	0.2785362	3.4445	1.4652	14.50549	2.14913
12:27:51				1299	8.7193	0.2777357	3.4445	1.51404	13.57753	2.14235
12:27:52				1300	8.70848	0.2761345	3.4445	1.51404	14.01709	2.12992
12:27:52				1301	8.69864	0.2754934	3.4445	1.4652	13.28449	2.12528
12:27:53				1302	8.72225	0.2716517	3.4445	1.4652	13.82173	2.09253
12:27:53				1303	8.68978	0.2726122	3.4445	1.41636	14.70085	2.10228
12:27:54				1304	8.65822	0.2705316	3.4445	1.4652	13.96825	2.08714
12:27:54				1305	8.6365	0.2689303	3.4445	1.51404	14.01709	2.07534
12:27:55				1306	8.62271	0.2681297	3.4445	1.4652	13.96825	2.0696
12:27:55				1307	8.61187	0.2828583	3.5428	1.4652	14.89621	2.19081
12:27:56				1308	8.60498	0.7277562	3.6412	1.4652	14.55433	5.99958
12:27:56				1309	8.6365	0.9044075	3.838	1.4652	13.82173	7.57083
12:27:57				1310	9.08959	0.6329095	3.838	1.4652	13.67521	5.09581
12:27:57				1311	9.02102	0.8644054	3.9364	1.4652	13.43101	7.13365
12:27:58				1312	9.40914	0.7993611	3.9364	1.51404	12.69841	6.48767
12:27:58				1313	9.59016	1.030234	3.9364	1.51404	12.64957	8.48195
12:27:59				1314	9.85895	1.0500052	4.1331	13.96825	8.64469	8.59339
12:27:59				1315	9.97019	1.0323212	4.3299	4.884	4.34676	8.41153
12:28:00				1316	9.97019	1.0022641	4.3299	2.05128	3.46764	8.14781
12:28:00				1317	9.94406	1.0318403	4.3299	4.884	3.9072	8.41336
12:28:01				1318	9.96434	1.0651161	4.2315	5.86081	4.44444	8.7015
12:28:01				1319	9.99722	1.0546671	4.3299	1.4652	3.61416	8.60164
12:28:02				1320	10.00687	1.0604538	4.4283	1.4652	3.61416	8.65025
12:28:02				1321	9.99336	1.0636697	4.6251	1.41636	3.27228	8.68175
12:28:03				1322	10.01266	1.0514506	4.5267	1.4652	3.4188	8.56968
12:28:03				1323	9.99143	1.0578807	4.4283	1.4652	3.51648	8.63128
12:28:04				1324	9.99336	1.0606143	4.4283	1.4652	3.85836	8.65488
12:28:05				1327	10.00657	1.0618478	4.4283	1.4652	3.663	8.66259
12:28:06				1328	10.01622	1.0565433	4.5267	1.4652	3.51648	8.61361
12:28:06				1329	10.01622	1.0555776	4.4283	1.4652	3.56532	8.60513
12:28:07				1330	10.00753	1.0554174	4.4283	1.4652	3.27228	8.60578
12:28:07				1331	10.01236	1.0573469	4.4283	1.51404	3.56532	8.62161
12:28:08				1332	10.01911	1.056383	4.5267	1.51404	3.51648	8.61152
12:28:08				1333	10.02008	1.0554174	4.5267	1.4652	3.32112	8.6028
12:28:09				1334	10.01718	1.0541317	4.4283	1.4652	3.36996	8.59219
12:28:09				1335	10.01622	1.0536492	4.4283	1.4652	3.51648	8.58818
12:28:10				1336	10.01815	1.0565433	4.5267	1.4652	3.71184	8.61315
12:28:10				1337	10.01429	1.050434	4.5267	5.03053	3.46764	8.56036
12:28:11				1338	10.01622	1.050112	4.4283	1.51404	3.36996	8.55708
12:28:11				1339	10.01429	1.0525244	4.4283	1.4652	3.36996	8.57875
12:28:12				1340	10.01622	1.0531668	4.4283	1.4652	3.32112	8.58394
12:28:12				1341	10.01525	1.0497922	4.4283	1.4652	3.4188	8.5545
12:28:13				1342	10.01429	1.0538094	4.4283	1.4652	3.4188	8.59004
12:28:13				1343	10.01139	1.0586319	4.4283	1.4652	3.56532	8.63314

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:28:14				1344	10.01911	1.0640987	4.4283	1.51404	3.56532	8.6794
12:28:14				1345	10.02104	1.0708513	4.4283	5.42125	4.24908	8.73837
12:28:15				1346	10.01911	1.0729396	4.5267	1.56288	3.85836	8.7572
12:28:15	12:27:00 flow stopped	5.0	225	1347	10.01622	1.0515601	4.5267	1.51404	3.85836	8.5698
12:28:16				1348	10.01332	1.0494703	4.4283	1.4652	3.27228	8.55213
12:28:16				1349	9.97665	1.0663494	4.4283	1.4652	4.49328	8.70939
12:28:17				1350	9.99016	1.050756	4.4283	1.4652	4.24908	8.5689
12:28:17				1351	9.99113	0.9919291	4.5267	1.4652	3.663	8.05263
12:28:18				1352	9.95341	1.0515603	4.4283	1.4652	3.663	8.58467
12:28:18				1353	9.96114	1.0806567	4.4283	1.4652	4.34676	8.83931
12:28:19				1354	9.98823	1.0530068	4.5267	1.4652	4.05372	8.58914
12:28:19				1355	9.99306	1.0472202	4.4283	1.4652	3.51648	8.53712
12:28:20				1356	9.99209	1.0801761	4.3299	1.51404	3.76068	8.82755
12:28:20				1357	10.00946	1.0647416	4.5267	1.4652	3.71184	8.68735
12:28:21				1358	10.01139	1.0645809	4.4283	1.4652	3.32112	8.68549
12:28:21				1359	10.01332	1.0682776	4.3299	1.4652	3.46764	8.71758
12:28:22				1360	10.01622	1.062169	4.4283	1.41636	3.76068	8.66311
12:28:22				1361	10.01236	1.0221443	4.4283	1.4652	3.36996	8.31247
12:28:23				1362	9.96211	1.0520424	4.3299	1.51404	3.85836	8.58686
12:28:23				1363	9.9863	1.0536493	4.4283	1.4652	4.10256	8.59526
12:28:24				1364	10.00464	1.051238	4.5267	8.88889	3.95604	8.5697
12:28:24				1365	10.00271	1.0422361	4.5267	1.75824	3.71184	8.49104
12:28:25				1366	10.00271	1.0417535	4.3299	1.75824	3.71184	8.48682
12:28:25				1367	10.00657	1.0554174	4.4283	1.4652	3.71184	8.60601
12:28:26				1368	10.00946	1.0544542	4.5267	6.15385	3.663	8.59684
12:28:26				1369	10.0056	1.050112	4.5267	1.51404	3.46764	8.55958
12:28:27				1370	10.00657	1.0467367	4.5267	1.4652	3.46764	8.52968
12:28:27				1371	10.00657	1.0385388	4.3299	1.4652	3.71184	8.45768
12:28:28				1372	9.99016	1.0618479	4.4283	1.4652	3.95604	8.66651
12:28:28				1373	9.9892	1.044808	4.5267	1.41636	3.95604	8.51681
12:28:29				1374	9.99306	1.0401468	4.5267	2.29548	3.46764	8.47494
12:28:29				1375	9.99595	1.0296977	4.4283	1.51404	3.56532	8.38251
12:28:30				1376	9.99788	1.0282523	4.4283	1.4652	3.76068	8.36938
12:28:30				1377	9.98437	1.0387003	4.5267	1.4652	4.1514	8.46425
12:28:31				1378	9.98148	1.0317879	4.5267	1.4652	3.85836	8.4042
12:28:31				1379	9.98148	1.0364502	4.5267	1.4652	3.71184	8.44516
12:28:32				1380	9.98148	1.0353237	4.4283	1.51404	3.85836	8.43527
12:28:32				1381	9.98244	1.04304	4.4283	1.51404	4.3956	8.50286
12:28:33				1382	9.99113	1.05574	4.4283	1.4652	3.95604	8.61251
12:28:33				1383	9.99885	1.0395031	4.5267	1.41636	3.56532	8.46793
12:28:34				1384	9.99499	1.0456125	4.4283	1.4652	3.71184	8.52253
12:28:34				1385	9.99113	1.0708515	4.4283	1.4652	3.85836	8.74557
12:28:35				1386	10.00657	1.0565433	4.4283	1.4652	3.80952	8.61592
12:28:35				1387	10.01236	1.0530067	4.4283	1.51404	3.56532	8.58344
12:28:36				1388	10.01043	1.0657061	4.4283	1.4652	3.85836	8.69562

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:28:36				1389	10.01815	1.0676361	4.4283	1.4652	3.71184	8.71076
12:28:37				1390	10.02201	1.0702072	4.5267	1.4652	3.36996	8.73245
12:28:37				1391	10.02587	1.0491484	4.5267	1.4652	3.12576	8.54633
12:28:38				1392	10.00946	1.0398259	4.4283	1.51404	3.1746	8.4683
12:28:38				1393	9.99499	1.1009149	4.4283	1.4652	3.71184	9.00986
12:28:39				1394	10.02104	1.0705292	4.5267	1.4652	3.76068	8.73552
12:28:39				1395	10.0278	1.0692433	4.5267	1.4652	3.12576	8.72257
12:28:40				1396	10.01236	1.0671535	4.4283	1.41636	3.27228	8.7079
12:28:40				1397	10.01815	1.0994679	4.4283	1.4652	3.71184	8.99133
12:28:41				1398	10.03461	1.0854807	4.5267	1.51404	3.32112	8.86392
12:28:41				1399	10.04618	1.0793703	4.5267	1.4652	3.22344	8.80728
12:28:42				1400	10.03943	1.0776025	4.4283	1.4652	3.1746	8.79336
12:28:42				1401	10.03364	1.0713324	4.3299	1.4652	3.61416	8.73958
12:28:43				1402	10.0375	1.0697262	4.4283	1.4652	3.56532	8.7245
12:28:43				1403	10.03557	1.0841946	4.4283	1.4652	3.56532	8.85236
12:28:44				1404	10.03557	1.0919111	4.5267	1.51404	3.56532	8.92036
12:28:44				1405	10.04811	1.0790493	4.5267	1.4652	3.27228	8.80399
12:28:45				1406	10.04329	1.0788878	4.5267	1.4652	3.12576	8.80373
12:28:45				1407	10.02882	1.0703682	4.4283	1.4652	3.32112	8.73224
12:28:46				1408	10.03268	1.0743883	4.4283	1.4652	3.46764	8.7667
12:28:46				1409	10.04329	1.0895002	4.5267	1.4652	3.76068	8.89721
12:28:47				1410	10.04618	1.0761563	4.6251	1.51404	3.51648	8.77897
12:28:47				1411	10.04233	1.0804969	4.5267	1.4652	3.12576	8.81814
12:28:48				1412	10.03461	1.0731007	4.3299	1.4652	3.61416	8.75491
12:28:48				1413	10.0404	1.0962535	4.4283	1.4652	4.29792	8.95747
12:28:49				1414	10.05486	1.0788878	4.5267	1.4652	3.56532	8.80093
12:28:49				1415	10.05583	1.0780846	4.5267	1.4652	3.22344	8.79362
12:28:50				1416	10.0404	1.0742271	4.4283	1.51404	3.4188	8.76342
12:28:50				1417	10.0375	1.0914287	4.4283	1.4652	3.76068	8.91565
12:28:51				1418	10.04425	1.0983425	4.5267	1.4652	3.80952	8.97493
12:28:51				1419	10.04522	1.0821048	4.6251	1.41636	3.02808	8.83158
12:28:52				1420	10.04233	1.082909	4.5267	1.51404	2.9304	8.83938
12:28:52				1421	10.03654	1.082426	4.4283	1.51404	3.12576	8.83655
12:28:53				1422	10.03461	1.0938412	4.4283	1.4652	3.56532	8.93763
12:28:53				1423	10.0404	1.0896601	4.5267	1.4652	3.4188	8.89933
12:28:54				1424	10.04233	1.0846757	4.5267	1.41636	3.51648	8.85494
12:28:54				1425	10.0375	1.0878926	4.5267	1.4652	3.12576	8.88446
12:28:55				1426	10.03268	1.0824261	4.4283	1.4652	3.36996	8.83749
12:28:55				1427	10.03557	1.0859621	4.4283	1.4652	3.46764	8.86794
12:28:56				1428	10.0375	1.0886963	4.5267	1.51404	3.22344	8.89155
12:28:56				1429	10.0375	1.087249	4.5267	1.4652	3.1746	8.87879
12:28:57				1430	10.03847	1.0735843	4.5267	1.4652	3.32112	8.75821
12:28:57				1431	10.03268	1.0716546	4.4283	1.4652	3.4188	8.74263
12:28:58				1432	10.01718	1.0790494	4.4283	1.4652	3.71184	8.8115
12:28:58				1433	10.02882	1.0903044	4.5267	1.51404	4.05372	8.90785

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:28:59				1434	10.03364	1.0661884	4.5267	1.4652	3.51648	8.69429
12:28:59				1435	10.0249	1.0541317	4.5267	1.4652	3.12576	8.59035
12:29:00				1436	9.94182	1.053007	4.3299	1.4652	3.56532	8.60017
12:29:00				1437	9.95728	1.0788881	4.4283	1.4652	5.81197	8.82465
12:29:01				1438	10.00464	1.0692433	4.5267	1.51404	4.93284	8.72814
12:29:01				1439	10.01236	1.0486668	4.5267	1.4652	3.51648	8.54528
12:29:02				1440	9.99016	1.0541318	4.5267	1.4652	3.36996	8.59858
12:29:02				1441	9.96307	1.0293782	4.4283	1.4652	4.6398	8.38731
12:29:03				1442	9.9679	1.0430401	4.4283	1.41636	5.51893	8.50627
12:29:03				1443	9.96404	1.038539	4.5267	1.51404	6.30037	8.46758
12:29:04				1444	9.97375	1.0229489	4.5267	1.51404	6.30037	8.32837
12:29:05				1447	9.93905	1.0137031	4.4283	1.4652	5.32357	8.25516
12:29:06				1448	9.93808	1.0437644	4.4283	1.4652	5.90965	8.51965
12:29:06				1449	9.93705	1.0429604	4.5267	1.4652	5.95849	8.5128
12:29:07				1450	9.95643	1.0739876	4.5267	1.51404	5.42125	8.7816
12:29:07				1451	9.97478	1.0283317	4.5267	1.4652	4.49328	8.3754
12:29:08				1452	9.9574	1.0283318	4.5267	1.41636	4.1514	8.37941
12:29:08				1453	9.9545	1.0569464	4.4283	1.4652	4.68864	8.63184
12:29:09				1454	9.98347	1.0834732	4.5267	1.51404	5.03053	8.85871
12:29:09				1455	10.00283	1.0601603	4.5267	1.4652	3.9072	8.64861
12:29:10				1456	10.01537	1.0579102	4.5267	1.4652	3.76068	8.62583
12:29:10				1457	10.01827	1.0646633	4.5267	1.4652	4.24908	8.68455
12:29:11				1458	10.02309	1.0669143	4.4283	1.4652	4.34676	8.70322
12:29:11				1459	10.02116	1.0741486	4.5267	1.4652	4.6398	8.76736
12:29:12				1460	10.02599	1.0624119	4.5267	1.4652	3.80952	8.6629
12:29:12				1461	10.02695	1.0545342	4.6251	1.4652	3.71184	8.59339
12:29:13				1462	10.01827	1.0743099	4.4283	1.4652	3.85836	8.76949
12:29:13				1463	10.0202	1.0714151	4.5267	1.4652	3.85836	8.74352
12:29:14				1464	10.02502	1.054374	4.5267	1.4652	3.85836	8.59245
12:29:14				1465	10.01344	1.0252759	4.3299	1.4652	3.51648	8.3397
12:29:15				1466	9.90614	1.0636995	4.4283	1.51404	3.56532	8.70296
12:29:15				1467	9.95257	1.069968	4.5267	1.4652	5.66545	8.74707
12:29:16				1468	10.00573	1.0537315	4.5267	1.4652	4.59096	8.59137
12:29:16				1469	10.01441	1.0082379	4.5267	1.4652	3.36996	8.19015
12:29:17				1470	9.93808	1.0278495	4.4283	1.4652	3.663	8.37965
12:29:17				1471	9.86644	1.059198	4.4283	1.51404	5.61661	8.67274
12:29:18				1472	9.93609	1.0400652	4.5267	1.4652	7.86325	8.48754
12:29:18				1473	9.97285	1.0239913	4.6251	1.4652	3.85836	8.33772
12:29:19				1474	9.90614	1.0225448	4.5267	1.4652	4.10256	8.34037
12:29:19				1475	9.92256	1.0182048	4.4283	1.4652	6.34921	8.29846
12:29:20				1476	9.94484	1.0395829	4.5267	1.51404	5.47009	8.48125
12:29:20				1477	9.96416	1.0498723	4.5267	1.51404	6.15385	8.56725
12:29:21				1478	9.98347	1.0125792	4.5267	1.4652	4.73748	8.23519
12:29:21				1479	9.94581	0.9471669	4.4283	1.4652	4.24908	7.67145
12:29:22				1480	9.90227	1.0656282	4.4283	1.4652	5.37241	8.72091

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:29:22				1481	9.96995	1.0280102	4.5267	1.4652	4.93284	8.37369
12:29:23				1482	9.96802	1.0214194	4.5267	1.4652	3.51648	8.31626
12:29:23				1483	9.87901	1.0336372	4.3299	1.4652	4.29792	8.44431
12:29:24				1484	9.8587	1.057107	4.4283	1.4652	6.88645	8.65612
12:29:24				1485	9.9545	1.020455	4.5267	1.4652	4.6398	8.3109
12:29:25				1486	9.92353	0.9507021	4.4283	1.51404	4.1514	7.70703
12:29:25				1487	9.79672	0.9556844	4.3299	1.51404	4.54212	7.77774
12:29:26				1488	9.80446	1.0662717	4.4283	1.4652	6.88645	8.75021
12:29:26				1489	9.93319	1.0645029	4.5267	1.4652	5.95849	8.70354
12:29:27				1490	9.998	1.0183648	4.5267	1.4652	3.76068	8.28261
12:29:27				1491	9.97381	1.0283317	4.5267	1.51404	3.76068	8.37562
12:29:28				1492	9.97864	1.0670753	4.4283	1.51404	4.83516	8.71531
12:29:28				1493	9.99221	1.0910299	4.4283	1.4652	5.12821	8.92326
12:29:29				1494	10.02502	1.0778468	4.6251	1.4652	3.80952	8.79898
12:29:29				1495	10.02599	1.0529267	4.5267	1.41636	3.32112	8.5795
12:29:30				1496	10.00766	1.0413528	4.4283	1.4652	3.46764	8.48213
12:29:30				1497	10.00283	1.0895835	4.4283	1.51404	4.78632	8.90789
12:29:31				1498	10.01634	1.0860474	4.5267	1.4652	4.24908	8.87338
12:29:31				1499	10.02502	1.0559803	4.5267	1.4652	3.32112	8.60657
12:29:32				1500	10.01151	1.0656278	4.4283	1.4652	3.76068	8.69467
12:29:32				1501	9.98057	1.0789731	4.4283	1.4652	4.49328	8.81973
12:29:33				1502	9.98154	1.0636993	4.5267	1.51404	4.59096	8.68486
12:29:33				1503	9.99511	1.0625726	4.4283	1.4652	4.44444	8.6717
12:29:34				1504	10.0009	1.0394234	4.5267	1.4652	3.95604	8.46675
12:29:34				1505	9.99897	1.0477815	4.5267	1.4652	3.663	8.54065
12:29:35				1506	9.998	1.022384	4.4283	1.4652	3.80952	8.31787
12:29:35				1507	9.99318	0.9813983	4.4283	1.51404	4.73748	7.96011
12:29:36				1508	9.9825	0.9900765	4.4283	1.4652	5.51893	8.03834
12:29:36				1509	9.95064	1.0897458	4.4283	1.51404	5.76313	8.92215
12:29:37				1510	9.95643	1.0074357	4.5267	1.4652	5.07937	8.19622
12:29:37				1511	9.93905	0.9883075	4.4283	1.4652	4.1514	8.03249
12:29:38				1512	9.9158	1.0572671	4.4283	1.4652	4.78632	8.6439
12:29:38				1513	9.8955	1.0823478	4.5267	1.51404	5.61661	8.87028
12:29:39				1514	9.9129	1.0040589	4.5267	1.4652	4.83516	8.17642
12:29:39				1515	9.90517	1.0051855	4.4283	1.4652	3.9072	8.18807
12:29:40				1516	9.87998	1.0305821	4.4283	1.4652	4.884	8.41716
12:29:40				1517	9.90904	1.0934423	4.5267	1.4652	5.17705	8.96509
12:29:41				1518	9.9545	1.0937646	4.5267	1.4652	5.07937	8.9567
12:29:41				1519	9.97864	1.0829922	4.5267	1.51404	3.80952	8.85564
12:29:42				1520	9.99022	1.0442451	4.5267	1.4652	3.36996	8.51162
12:29:42				1521	9.94677	1.0580708	4.5267	1.4652	3.9072	8.64358
12:29:43				1522	9.95933	1.0942473	4.5267	1.4652	4.29792	8.95977
12:29:43				1523	9.99221	1.0778469	4.5267	1.4652	3.4188	8.80695
12:29:44				1524	10.00283	1.0723798	4.5267	1.51404	3.07692	8.7562
12:29:44				1525	9.98347	1.077042	4.4283	1.4652	3.4188	8.80199

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:29:45				1526	9.98443	1.0971408	4.4283	1.4652	4.24908	8.97914
12:29:45				1527	10.00862	1.0942471	4.5267	1.4652	4.98168	8.9476
12:29:46				1528	10.00959	1.0778469	4.6251	1.4652	3.95604	8.80273
12:29:46				1529	10.01055	1.0617697	4.5267	1.51404	3.61416	8.66094
12:29:47				1530	9.98057	1.0728633	4.4283	1.4652	3.27228	8.76585
12:29:47				1531	9.98154	1.1043765	4.4283	1.4652	4.00488	9.04379
12:29:48				1532	10.0009	1.0730223	4.6251	1.4652	3.4188	8.76232
12:29:48				1533	9.99414	1.0772033	4.5267	1.4652	3.07692	8.80081
12:29:49				1534	9.99022	1.0958539	4.4283	1.51404	3.4188	8.96634
12:29:49				1535	10.00283	1.0820262	4.5267	1.4652	3.36996	8.84122
12:29:50				1536	10.00959	1.0942471	4.5267	1.4652	3.12576	8.94736
12:29:50				1537	10.01055	1.0894235	4.5267	1.4652	3.02808	8.90457
12:29:51				1538	10.00862	1.0831517	4.4283	1.4652	3.12576	8.84974
12:29:51				1539	10.00187	1.0929594	4.4283	1.51404	3.02808	8.93791
12:29:52				1540	9.998	1.0903877	4.5267	1.4652	2.97924	8.91615
12:29:52				1541	9.99704	1.0813839	4.5267	1.4652	2.83272	8.83697
12:29:53				1542	9.99704	1.0854042	4.4283	1.4652	2.83272	8.87244
12:29:53				1543	9.99607	1.0968201	4.4283	1.4652	3.22344	8.97342
12:29:54				1544	9.99897	1.0900655	4.5267	1.51404	3.22344	8.91307
12:29:54				1545	9.99993	1.0820262	4.5267	1.4652	2.97924	8.84193
12:29:55				1546	9.998	1.0834731	4.4283	1.4652	2.83272	8.85517
12:29:55				1547	9.99414	1.0780062	4.4283	1.4652	2.97924	8.8079
12:29:56				1548	9.99414	1.0788115	4.4283	1.4652	3.22344	8.815
12:29:56				1549	9.99511	1.0735059	4.4283	1.51404	3.27228	8.768
12:29:57				1550	9.98636	1.0870105	4.5267	1.4652	3.36996	8.88921
12:29:57				1551	9.98926	1.0770419	4.4283	1.4652	3.22344	8.80059
12:29:58				1552	9.98347	1.0670753	4.5267	1.4652	3.4188	8.71414
12:29:58				1553	9.99022	1.0854042	4.4283	1.4652	3.4188	8.8741
12:29:59				1554	9.99993	1.0923168	4.4283	1.51404	3.76068	8.93272
12:29:59				1555	9.99414	1.0831518	4.5267	1.4652	3.12576	8.85326
12:30:00				1556	9.99511	1.08058	4.5267	1.4652	2.83272	8.83035
12:30:00				1557	9.998	1.0696458	4.4283	1.4652	3.02808	8.7333
12:30:01				1558	9.99704	1.080259	4.4283	1.4652	3.02808	8.82706
12:30:01				1559	10.00187	1.0919966	4.5267	1.51404	3.36996	8.9294
12:30:02				1560	10.00573	1.0863691	4.5267	1.51404	3.22344	8.87881
12:30:02				1561	10.00669	1.0818667	4.5267	1.4652	2.88156	8.83887
12:30:03				1562	10.01344	1.0810627	4.4283	1.4652	2.97924	8.83015
12:30:03				1563	10.01537	1.0932818	4.4283	1.4652	3.46764	8.93743
12:30:04				1564	10.01537	1.0834731	4.5267	1.51404	3.56532	8.85092
12:30:05				1567	10.03009	1.0807245	4.4283	1.4652	3.27228	8.82313
12:30:06				1568	10.02816	1.0813667	4.4283	1.4652	3.27228	8.82925
12:30:06				1569	10.02719	1.0913349	4.4283	1.51404	3.46764	8.91735
12:30:07				1570	10.01658	1.0874771	4.5267	1.4652	4.1514	8.88592
12:30:07				1571	10.0214	1.0823325	4.4283	1.4652	3.56532	8.83941
12:30:08				1572	10.01851	1.0813668	4.5267	1.4652	3.27228	8.83159

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:30:08				1573	10.02237	1.0738113	4.4283	1.4652	3.1746	8.76411
12:30:09				1574	10.02623	1.0847439	4.4283	1.51404	3.61416	8.85948
12:30:09				1575	10.01851	1.0977673	4.5267	1.4652	4.29792	8.97622
12:30:10				1576	10.02237	1.0765428	4.5267	1.4652	4.68864	8.78815
12:30:10				1577	10.02526	1.0765428	4.5267	1.4652	3.61416	8.78745
12:30:11				1578	10.01948	1.047445	4.4283	1.4652	4.24908	8.53288
12:30:11				1579	9.98081	1.0940699	4.4283	1.51404	5.51893	8.95291
12:30:12				1580	10.00597	1.069631	4.5267	1.4652	5.90965	8.73124
12:30:12				1581	10.01079	1.0593411	4.5267	1.4652	4.3956	8.63951
12:30:13				1582	10.00018	1.0734889	4.4283	1.4652	4.6398	8.76663
12:30:13				1583	10.00018	1.0918173	4.4283	1.4652	5.81197	8.92825
12:30:14				1584	10.00886	1.0890845	4.5267	1.51404	4.34676	8.90199
12:30:14				1585	10.01369	1.0963198	4.5267	1.4652	4.44444	8.96464
12:30:15				1586	10.02237	1.0834582	4.5267	1.4652	4.54212	8.84908
12:30:15				1587	10.0243	1.0726851	4.4283	1.51404	3.56532	8.75373
12:30:16				1588	10.01079	1.0746155	4.4283	1.4652	3.51648	8.77399
12:30:16				1589	10.01079	1.0881208	4.4283	1.51404	3.663	8.89303
12:30:17				1590	10.02623	1.0993759	4.5267	1.4652	3.1746	8.98851
12:30:17				1591	10.02237	1.0832964	4.5267	1.4652	3.02808	8.84765
12:30:18				1592	10.02237	1.0844224	4.4283	1.4652	2.88156	8.85759
12:30:18				1593	10.0243	1.0792768	4.3299	1.4652	3.22344	8.81179
12:30:19				1594	10.02526	1.0966426	4.4283	1.51404	3.4188	8.96464
12:30:19				1595	10.0243	1.0868335	4.5267	1.4652	3.22344	8.87836
12:30:20				1596	10.02526	1.0807245	4.5267	1.4652	3.12576	8.82429
12:30:20				1597	10.02719	1.0802418	4.4283	1.51404	3.36996	8.81958
12:30:21				1598	10.03009	1.087315	4.5267	1.4652	3.80952	8.88119
12:30:21				1599	10.03202	1.0665757	4.4283	1.51404	3.27228	8.6981
12:30:22				1600	10.01658	1.0733277	4.4283	1.41636	3.22344	8.76125
12:30:22				1601	10.01079	1.0961595	4.5267	1.4652	4.05372	8.96394
12:30:23				1602	10.0214	1.0713982	4.6251	1.4652	3.56532	8.74307
12:30:23				1603	10.01272	1.0625557	4.4283	1.4652	2.97924	8.66735
12:30:24				1604	9.91991	1.0411768	4.3299	1.4652	4.00488	8.50115
12:30:24				1605	9.95764	1.0968031	4.5267	1.4652	5.61661	8.98278
12:30:25				1606	9.98178	1.0521076	4.6251	1.4652	4.00488	8.58274
12:30:25				1607	9.97695	1.0448731	4.5267	1.51404	3.07692	8.52026
12:30:26				1608	9.94895	1.0479267	4.4283	1.4652	3.663	8.55373
12:30:26				1609	9.94702	1.0918175	4.4283	1.4652	4.20024	8.94135
12:30:27				1610	9.98371	1.0691481	4.4283	1.4652	4.1514	8.73235
12:30:27				1611	9.99632	1.0598246	4.5267	1.4652	3.22344	8.64721
12:30:28				1612	9.97212	1.0685043	4.4283	1.51404	3.51648	8.72947
12:30:28				1613	9.98853	1.0974466	4.5267	1.4652	3.76068	8.98081
12:30:29				1614	10.00211	1.0659325	4.5267	1.4652	3.51648	8.6996
12:30:29				1615	9.99632	1.0652894	4.4283	1.41636	3.36996	8.69534
12:30:30				1616	9.97792	1.0784737	4.4283	1.4652	3.61416	8.81597
12:30:30				1617	9.98371	1.07783	4.4283	1.51404	3.76068	8.80888

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:30:31				1618	9.98956	1.0831369	4.4283	1.4652	3.32112	8.85426
12:30:31				1619	9.98956	1.0865119	4.5267	1.4652	3.51648	8.88403
12:30:32				1620	9.99149	1.0871553	4.4283	1.4652	3.27228	8.88924
12:30:32				1621	10.00211	1.0685042	4.5267	1.4652	3.27228	8.72224
12:30:33				1622	9.99728	1.0768656	4.4283	1.4652	3.12576	8.79709
12:30:33				1623	9.99535	1.0812073	4.4283	1.4652	3.56532	8.83583
12:30:34				1624	10.00404	1.0884427	4.5267	1.4652	3.22344	8.89751
12:30:34				1625	10.01369	1.081688	4.5267	1.41636	3.12576	8.83559
12:30:35				1626	10.01851	1.0787944	4.5267	1.51404	3.22344	8.80892
12:30:35				1627	10.01755	1.0874771	4.5267	1.4652	3.1746	8.88569
12:30:36				1628	10.01948	1.0810456	4.5267	1.4652	3.27228	8.82852
12:30:36				1629	10.01079	1.0905327	4.4283	1.4652	3.12576	8.91431
12:30:37				1630	10.01658	1.0940698	4.5267	1.4652	3.46764	8.94407
12:30:37				1631	10.02719	1.0815284	4.5267	1.51404	3.46764	8.8309
12:30:38				1632	10.02719	1.080884	4.4283	1.4652	3.32112	8.82524
12:30:38				1633	10.01079	1.0754177	4.4283	1.4652	3.27228	8.78106
12:30:39				1634	10.01658	1.0831368	4.4283	1.4652	3.4188	8.84767
12:30:39				1635	10.01851	1.0697919	4.4283	1.4652	3.36996	8.72965
12:30:40				1636	10.01755	1.0910148	4.5267	1.4652	3.32112	8.91689
12:30:40				1637	10.02237	1.0795978	4.5267	1.4652	3.27228	8.81506
12:30:41				1638	10.02333	1.0733277	4.4283	1.4652	3.02808	8.75962
12:30:41				1639	10.01658	1.0728463	4.4283	1.4652	3.1746	8.75701
12:30:42				1640	10.01658	1.0873151	4.4283	1.4652	3.36996	8.88451
12:30:42				1641	10.02044	1.0908527	4.4283	1.51404	3.61416	8.91476
12:30:43				1642	10.02237	1.0845821	4.5267	1.41636	3.56532	8.85899
12:30:43				1643	10.0243	1.0750971	4.5267	1.4652	3.46764	8.77495
12:30:44				1644	10.01851	1.0734889	4.3299	1.56288	3.22344	8.76221
12:30:44				1645	10.01658	1.0931045	4.4283	1.4652	3.36996	8.93557
12:30:45				1646	10.0243	1.0898884	4.5267	1.51404	3.1746	8.90529
12:30:45				1647	10.02719	1.0765428	4.5267	1.41636	3.02808	8.78698
12:30:46				1648	10.0214	1.0763835	4.4283	1.4652	3.07692	8.787
12:30:46				1649	10.02237	1.0908527	4.4283	1.4652	3.27228	8.91428
12:30:47				1650	10.03009	1.0876369	4.5267	1.51404	3.07692	8.88402
12:30:47				1651	10.0378	1.0818495	4.5267	1.4652	2.97924	8.83115
12:30:48				1652	10.02816	1.0810456	4.5267	1.41636	3.1746	8.82641
12:30:48				1653	10.03009	1.0795977	4.4283	1.4652	3.51648	8.8132
12:30:49				1654	10.03009	1.0847439	4.4283	1.51404	3.12576	8.85854
12:30:49				1655	10.03009	1.0910148	4.5267	1.4652	3.1746	8.9138
12:30:50				1656	10.03298	1.0786329	4.5267	1.4652	3.27228	8.80399
12:30:50				1657	10.02719	1.0686651	4.4283	1.4652	3.02808	8.71764
12:30:51				1658	10.0243	1.0812072	4.4283	1.4652	3.51648	8.82879
12:30:51				1659	10.02526	1.0776684	4.4283	1.4652	3.85836	8.79738
12:30:52				1660	10.02333	1.0927821	4.4283	1.4652	3.32112	8.93106
12:30:52				1661	10.02333	1.0845821	4.5267	1.4652	3.51648	8.85875
12:30:53				1662	10.02333	1.080884	4.5267	1.4652	3.1746	8.82616

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:30:53				1663	10.02333	1.0730074	4.4283	1.51404	3.4188	8.7568
12:30:54				1664	10.01851	1.0837796	4.4283	1.4652	3.27228	8.85287
12:30:54				1665	10.01658	1.093427	4.5267	1.4652	3.32112	8.9384
12:30:55				1666	10.01948	1.0816879	4.5267	1.4652	3.95604	8.83418
12:30:55				1667	10.02044	1.0804035	4.5267	1.4652	3.663	8.82263
12:30:56				1668	10.01851	1.0837796	4.4283	1.51404	3.9072	8.85287
12:30:56				1669	10.01755	1.0892465	4.4283	1.4652	4.24908	8.9013
12:30:57				1670	10.01658	1.0805629	4.5267	1.4652	3.71184	8.82497
12:30:57				1671	10.01851	1.0794384	4.5267	1.4652	3.71184	8.8146
12:30:58				1672	10.01948	1.0918172	4.4283	1.4652	3.56532	8.9235
12:30:58				1673	10.01948	1.0823325	4.5267	1.51404	3.56532	8.83986
12:30:59				1674	10.01851	1.0818496	4.5267	1.41636	3.22344	8.83584
12:30:59				1675	10.01562	1.0887625	4.4283	1.4652	3.51648	8.89751
12:31:00				1676	10.01948	1.0850655	4.5267	1.51404	3.95604	8.86395
12:31:00				1677	10.02044	1.0759016	4.5267	1.4652	3.46764	8.78297
12:31:01				1678	10.01176	1.0836178	4.4283	1.4652	3.51648	8.85309
12:31:01				1679	10.01465	1.0947128	4.5267	1.41636	4.1514	8.95022
12:31:02				1680	10.02044	1.0746154	4.5267	1.4652	3.61416	8.77164
12:31:02				1681	10.01658	1.0762222	4.4283	1.51404	3.22344	8.78674
12:31:03				1682	10.01369	1.0931045	4.4283	1.4652	3.80952	8.93628
12:31:03				1683	10.01755	1.0927821	4.4283	1.4652	3.9072	8.93249
12:31:04				1684	10.01948	1.0955162	4.4283	1.4652	3.32112	8.95613
12:31:05				1687	10.01338	1.0873087	4.4283	1.4652	3.1746	8.88523
12:31:06				1688	10.01145	1.0943817	4.4283	1.4652	3.02808	8.9481
12:31:06				1689	10.01628	1.0911663	4.4283	1.4652	4.1514	8.91855
12:31:07				1690	10.01917	1.0911663	4.5267	1.51404	3.56532	8.91782
12:31:07				1691	10.02207	1.0914886	4.5267	1.4652	3.663	8.91995
12:31:08				1692	10.02014	1.0918087	4.5267	1.4652	3.22344	8.92325
12:31:08				1693	10.01821	1.0955076	4.5267	1.4652	3.07692	8.95636
12:31:09				1694	10.0211	1.0783036	4.5267	1.4652	2.88156	8.80397
12:31:09				1695	10.01724	1.0848951	4.5267	1.4652	2.88156	8.863
12:31:10				1696	10.01917	1.1019404	4.4283	1.41636	3.36996	9.01291
12:31:10				1697	10.0211	1.0948645	4.5267	1.4652	3.32112	8.94997
12:31:11				1698	10.0211	1.088916	4.5267	1.51404	2.97924	8.8975
12:31:11				1699	10.02303	1.0810371	4.4283	1.4652	2.83272	8.8276
12:31:12				1700	10.01821	1.0911663	4.4283	1.4652	3.02808	8.91807
12:31:12				1701	10.02207	1.0934184	4.4283	1.4652	2.97924	8.93699
12:31:13				1702	10.02496	1.0963112	4.5267	1.4652	3.07692	8.96178
12:31:13				1703	10.02786	1.0910063	4.7234	1.4652	2.9304	8.91425
12:31:14				1704	10.02979	1.0869869	4.5267	1.4652	2.9304	8.87837
12:31:14				1705	10.02303	1.0935786	4.4283	1.4652	2.97924	8.93816
12:31:15				1706	10.02593	1.0940612	4.4283	1.41636	3.32112	8.94171
12:31:15				1707	10.02882	1.092131	4.5267	1.51404	3.07692	8.92396
12:31:16				1708	10.02979	1.090042	4.5267	1.4652	2.6862	8.9053
12:31:16				1709	10.02593	1.0953473	4.4283	1.4652	2.9304	8.95305

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:31:17				1710	10.02882	1.0951871	4.5267	1.4652	3.12576	8.95091
12:31:17				1711	10.03268	1.0906841	4.5267	1.4652	3.02808	8.91025
12:31:18				1712	10.02979	1.0918087	4.4283	1.51404	3.02808	8.92089
12:31:18				1713	10.02882	1.1077282	4.4283	1.4652	3.02808	9.06161
12:31:19				1714	10.04618	1.0992068	4.5267	1.4652	2.9304	8.98208
12:31:19				1715	10.05396	1.0993672	4.5267	1.51404	2.83272	8.98157
12:31:20				1716	10.04329	1.0942214	4.3299	1.4652	2.88156	8.93886
12:31:20				1717	10.04522	1.1125512	4.4283	1.51404	3.02808	9.10009
12:31:21				1718	10.08095	1.1033861	4.5267	1.4652	2.83272	9.01031
12:31:21				1719	10.08095	1.0985627	4.5267	1.4652	2.6862	8.96781
12:31:22				1720	10.05974	1.1011352	4.5267	1.4652	2.88156	8.99573
12:31:22				1721	10.04811	1.0930959	4.4283	1.51404	2.83272	8.92773
12:31:23				1722	10.05203	1.0974378	4.4283	1.4652	3.07692	8.96505
12:31:23				1723	10.04522	1.0959905	4.5267	1.41636	2.97924	8.95395
12:31:24				1724	10.04522	1.0950246	4.6251	1.4652	2.83272	8.94542
12:31:24				1725	10.04329	1.0975982	4.5267	1.51404	2.88156	8.96861
12:31:25				1726	10.04522	1.0945439	4.5267	1.4652	2.78388	8.9412
12:31:25				1727	10.04233	1.1035469	4.4283	1.4652	2.78388	9.02133
12:31:26				1728	10.04811	1.1022616	4.5267	1.4652	3.1746	9.00854
12:31:26				1729	10.06746	1.0987232	4.5267	1.51404	2.97924	8.97255
12:31:27				1730	10.05685	1.0972753	4.5267	1.4652	2.88156	8.96241
12:31:27				1731	10.05878	1.1037076	4.4283	1.4652	2.97924	9.01866
12:31:28				1732	10.05974	1.1048328	4.5267	1.4652	3.12576	9.02834
12:31:28				1733	10.06939	1.1000092	4.5267	1.4652	2.97924	8.98341
12:31:29				1734	10.06939	1.1024221	4.4283	1.51404	3.12576	9.0047
12:31:29				1735	10.07131	1.1086916	4.5267	1.4652	2.9304	9.05949
12:31:30				1736	10.07999	1.0984023	4.5267	1.4652	2.88156	8.96663
12:31:30				1737	10.06649	1.0906839	4.4283	1.4652	2.9304	8.90197
12:31:31				1738	10.05878	1.1115864	4.4283	1.4652	2.9304	9.08818
12:31:31				1739	10.07131	1.1004929	4.6251	1.51404	2.97924	8.98719
12:31:32				1740	10.07324	1.0996881	4.5267	1.41636	2.6862	8.97963
12:31:32				1741	10.06167	1.0913262	4.4283	1.4652	2.9304	8.90881
12:31:33				1742	10.0636	1.0980794	4.4283	1.51404	3.07692	8.96784
12:31:33				1743	10.06264	1.1069236	4.5267	1.4652	2.9304	9.04606
12:31:34				1744	10.06264	1.0974378	4.5267	1.4652	2.88156	8.96241
12:31:34				1745	10.06167	1.0990441	4.5267	1.4652	2.78388	8.97681
12:31:35				1746	10.05782	1.0982419	4.4283	1.51404	2.88156	8.97071
12:31:35				1747	10.06456	1.0987232	4.4283	1.51404	2.88156	8.97328
12:31:36				1748	10.06746	1.1025828	4.4283	1.4652	3.02808	9.00659
12:31:36				1749	10.06939	1.100814	4.5267	1.4652	2.97924	8.99051
12:31:37				1750	10.06746	1.0987232	4.4283	1.41636	2.9304	8.97257
12:31:37				1751	10.06553	1.1069235	4.4283	1.51404	2.97924	9.04535
12:31:38				1752	10.07035	1.1053151	4.5267	1.4652	2.88156	9.02995
12:31:38				1753	10.07035	1.0988836	4.4283	1.4652	2.78388	8.97327
12:31:39				1754	10.0501	1.1033862	4.4283	1.4652	2.88156	9.01798

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:31:39				1755	10.05878	1.1061193	4.5267	1.4652	3.22344	9.03992
12:31:40				1756	10.07228	1.0953472	4.5267	1.51404	2.88156	8.94162
12:31:40				1757	10.06264	1.0980794	4.4283	1.4652	2.88156	8.96808
12:31:41				1758	10.06264	1.1064409	4.5267	1.4652	2.9304	9.0418
12:31:41				1759	10.0636	1.1021009	4.5267	1.51404	2.97924	9.00329
12:31:42				1760	10.05974	1.1009746	4.5267	1.4652	2.88156	8.99431
12:31:42				1761	10.06071	1.0950246	4.4283	1.4652	2.83272	8.94163
12:31:43				1762	10.05782	1.1053152	4.4283	1.41636	2.83272	9.03308
12:31:43				1763	10.0636	1.1059584	4.5267	1.4652	3.07692	9.0373
12:31:44				1764	10.05107	1.0938988	4.5267	1.4652	2.88156	8.93407
12:31:44				1765	10.0501	1.0963111	4.4283	1.4652	2.83272	8.95559
12:31:45				1766	10.05299	1.1033862	4.5267	1.4652	3.07692	9.01725
12:31:45				1767	10.04425	1.1029042	4.5267	1.41636	2.83272	9.01517
12:31:46				1768	10.04136	1.1014564	4.5267	1.51404	2.78388	9.00312
12:31:46				1769	10.04136	1.1009746	4.4283	1.51404	2.88156	8.99888
12:31:47				1770	10.04233	1.1001698	4.4283	1.4652	2.97924	8.99154
12:31:47				1771	10.04715	1.1012958	4.5267	1.4652	2.78388	9.00026
12:31:48				1772	10.04522	1.1008141	4.4283	1.4652	2.88156	8.99651
12:31:48				1773	10.04811	1.1075672	4.5267	1.51404	2.73504	9.05536
12:31:49				1774	10.04811	1.1029042	4.5267	1.4652	2.73504	9.01421
12:31:49				1775	10.04908	1.1025829	4.5267	1.4652	2.73504	9.01114
12:31:50				1776	10.04811	1.1037076	4.5267	1.4652	2.6862	9.0213
12:31:50				1777	10.04715	1.1019403	4.4283	1.4652	2.6862	9.00596
12:31:51				1778	10.0501	1.1046721	4.4283	1.4652	2.88156	9.02933
12:31:51				1779	10.05107	1.110783	4.5267	1.4652	3.07692	9.083
12:31:52				1780	10.05396	1.1017775	4.5267	1.4652	3.1746	9.00282
12:31:52				1781	10.05396	1.0975982	4.4283	1.4652	2.9304	8.96598
12:31:53				1782	10.05107	1.1038683	4.4283	1.4652	3.02808	9.022
12:31:53				1783	10.04811	1.1043506	4.5267	1.4652	3.36996	9.02697
12:31:54				1784	10.04811	1.0995277	4.5267	1.41636	3.07692	8.98443
12:31:54				1785	10.04715	1.1027435	4.5267	1.4652	3.02808	9.01303
12:31:55				1786	10.04715	1.1027435	4.4283	1.4652	2.97924	9.01305
12:31:55				1787	10.04811	1.100493	4.4283	1.4652	2.88156	8.99296
12:31:56				1788	10.04522	1.0998487	4.4283	1.4652	3.1746	8.98799
12:31:56				1789	10.04618	1.097919	4.4283	1.4652	3.07692	8.97073
12:31:57				1790	10.04811	1.0974378	4.5267	1.4652	3.07692	8.966
12:31:57				1791	10.04811	1.0980794	4.4283	1.4652	3.9072	8.97167
12:31:58				1792	10.04811	1.0990442	4.5267	1.4652	2.88156	8.98017
12:31:58				1793	10.04908	1.0990442	4.5267	1.4652	3.07692	8.97993
12:31:59				1794	10.0501	1.0984024	4.5267	1.4652	2.78388	8.97401
12:31:59				1795	10.04811	1.0980794	4.4283	1.51404	2.78388	8.97167
12:32:00				1796	10.04908	1.0988837	4.5267	1.4652	2.88156	8.97851
12:32:00				1797	10.0501	1.0988837	4.5267	1.4652	2.88156	8.97826
12:32:01				1798	10.0501	1.0988837	4.5267	1.4652	3.51648	8.97826
12:32:01				1799	10.04908	1.0984024	4.5267	1.51404	3.61416	8.97427

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:32:02				1800	10.04908	1.0972753	4.4283	1.4652	3.12576	8.96434
12:32:02				1801	10.04811	1.1001698	4.4283	1.4652	2.97924	8.99011
12:32:03				1802	10.04908	1.0995277	4.5267	1.51404	2.9304	8.98419
12:32:03				1803	10.0501	1.0975982	4.5267	1.51404	2.88156	8.96692
12:32:04				1804	10.04908	1.0975982	4.4283	1.4652	2.83272	8.96719
12:32:05				1807	10.04667	1.0981051	4.5267	1.51404	2.83272	8.97224
12:32:06				1808	10.04763	1.0993908	4.4283	1.4652	2.97924	8.98336
12:32:06				1809	10.04667	1.0993908	4.4283	1.4652	2.88156	8.98359
12:32:07				1810	10.04474	1.1030906	4.4283	1.4652	3.07692	9.01671
12:32:07				1811	10.03991	1.1037334	4.5267	1.4652	3.02808	9.02357
12:32:08				1812	10.03606	1.0998745	4.5267	1.4652	2.88156	8.99047
12:32:08				1813	10.03798	1.0997139	4.4283	1.4652	2.9304	8.98859
12:32:09				1814	10.04281	1.0989094	4.4283	1.4652	3.02808	8.9803
12:32:09				1815	10.04088	1.0997139	4.4283	1.4652	2.9304	8.98788
12:32:10				1816	10.04088	1.1051802	4.5267	1.51404	2.97924	9.03609
12:32:10				1817	10.03895	1.099714	4.5267	1.4652	2.9304	8.98834
12:32:11				1818	10.03991	1.0989094	4.5267	1.41636	2.88156	8.98101
12:32:11				1819	10.04281	1.0913519	4.4283	1.4652	2.88156	8.91367
12:32:12				1820	10.04088	1.0963368	4.4283	1.51404	3.02808	8.95809
12:32:12				1821	10.04184	1.0960141	4.5267	1.4652	2.9304	8.95499
12:32:13				1822	10.04281	1.0958538	4.5267	1.4652	2.58852	8.95334
12:32:13				1823	10.04088	1.0976218	4.4283	1.4652	2.83272	8.96942
12:32:14				1824	10.04184	1.0961765	4.5267	1.51404	3.07692	8.95643
12:32:14				1825	10.04088	1.0961765	4.4283	1.4652	2.9304	8.95668
12:32:15				1826	10.04088	1.0971406	4.4283	1.4652	3.07692	8.96518
12:32:15				1827	10.04088	1.0982655	4.5267	1.51404	3.02808	8.97509
12:32:16				1828	10.04088	1.0971407	4.5267	1.4652	3.02808	8.96517
12:32:16				1829	10.03991	1.0969803	4.5267	1.51404	3.02808	8.96399
12:32:17				1830	10.03991	1.0961765	4.5267	1.4652	3.22344	8.9569
12:32:17				1831	10.03991	1.0952105	4.4283	1.4652	3.1746	8.9484
12:32:18				1832	10.03798	1.0997139	4.4283	1.4652	3.32112	8.98859
12:32:18				1833	10.03895	1.0937643	4.5267	1.51404	3.27228	8.93587
12:32:19				1834	10.03798	1.0944072	4.5267	1.4652	3.07692	8.94177
12:32:19				1835	10.03798	1.098426	4.5267	1.41636	3.1746	8.97722
12:32:20				1836	10.03702	1.0932817	4.5267	1.51404	3.12576	8.93209
12:32:20				1837	10.03895	1.0932817	4.4283	1.51404	3.22344	8.93163
12:32:21				1838	10.03798	1.0993908	4.4283	1.4652	3.32112	8.98574
12:32:21				1839	10.03991	1.09489	4.5267	1.4652	3.32112	8.94556
12:32:22				1840	10.03895	1.0937643	4.5267	1.4652	2.88156	8.93587
12:32:22				1841	10.03798	1.0929593	4.5267	1.51404	3.02808	8.92901
12:32:23				1842	10.03702	1.0932817	4.4283	1.4652	3.1746	8.9321
12:32:23				1843	10.03606	1.092639	4.4283	1.4652	3.12576	8.92667
12:32:24				1844	10.03702	1.0918343	4.5267	1.51404	3.32112	8.91933
12:32:24				1845	10.03606	1.0902275	4.5267	1.4652	3.1746	8.9054
12:32:25				1846	10.03316	1.0868505	4.4283	1.4652	3.12576	8.87635

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:32:25				1847	10.03316	1.0884575	4.5267	1.4652	3.27228	8.89051
12:32:26				1848	10.03316	1.0879757	4.5267	1.4652	3.61416	8.88626
12:32:26				1849	10.03316	1.0850803	4.4283	1.51404	3.51648	8.86076
12:32:27				1850	10.0293	1.0821878	4.4283	1.51404	3.36996	8.83621
12:32:27				1851	10.02641	1.0863669	4.4283	1.51404	3.46764	8.87374
12:32:28				1852	10.02737	1.0842777	4.5267	1.4652	3.46764	8.85508
12:32:28				1853	10.02737	1.0767212	4.5267	1.51404	3.46764	8.78851
12:32:29				1854	10.06113	1.0709317	4.4283	200	3.02808	8.72943
12:32:29				1855	10.10071	1.0545339	4.4283	200	3.07692	8.57598
12:32:30				1856	10.08722	1.0656276	4.5267	200	2.78388	8.67655
12:32:30				1857	10.12967	1.0382974	4.4283	200	2.83272	8.42694
12:32:31				1858	10.30109	1.0566225	4.5267	200	3.1746	8.54711
12:32:31				1859	10.41929	1.0567845	4.5267	200	2.88156	8.52089
12:32:32				1860	10.42888	1.0538901	4.4283	200	2.88156	8.49351
12:32:32				1861	10.49604	1.0421547	4.4283	200	2.83272	8.37615
12:32:33				1862	10.51232	1.0493886	4.4283	200	3.07692	8.43512
12:32:33				1863	10.61963	1.0508339	4.5267	200	3.02808	8.42292
12:32:34				1864	10.64353	1.042958	4.5267	200	2.88156	8.34942
12:32:34				1865	10.64067	1.0387777	4.5267	200	2.78388	8.31398
12:32:35				1866	10.70857	1.037009	4.4283	200	2.78388	8.28339
12:32:35				1867	10.73441	0.9682182	4.4283	200	3.07692	7.68733
12:32:36				1868	10.722	0.9911991	4.4283	200	3.36996	7.88676
12:32:36				1869	10.80031	0.9881462	4.5267	200	3.56532	7.84384
12:32:37				1870	10.85471	1.0018061	4.6251	200	4.1514	7.94898
12:32:37				1871	10.80222	0.9936092	4.4283	200	3.663	7.89018
12:32:38				1872	10.81461	0.9842888	4.4283	200	3.46764	7.80783
12:32:38				1873	10.82796	1.0284897	4.4283	200	3.56532	8.18341
12:32:39				1874	10.85376	1.0506731	4.5267	200	3.4188	8.36803
12:32:39				1875	10.91002	1.0077539	4.5267	200	3.22344	7.98786
12:32:40				1876	10.88711	1.008235	4.5267	200	2.9304	7.99694
12:32:40				1877	10.85852	1.0439209	4.4283	200	2.97924	8.30898
12:32:41				1878	10.84423	1.0275249	4.5267	200	3.12576	8.17151
12:32:41				1879	10.79459	1.0108077	4.5267	200	2.9304	8.03913
12:32:42				1880	10.81652	1.0055036	4.4283	200	2.9304	7.98891
12:32:42				1881	10.80699	1.0493876	4.5267	200	2.78388	8.36762
12:32:43				1882	10.7535	1.0173989	4.4283	200	3.12576	8.10471
12:32:43				1883	10.73059	1.0268824	4.5267	200	2.9304	8.19128
12:32:44				1884	10.75064	1.0207731	4.5267	200	2.9304	8.13431
12:32:44				1885	10.764	1.0292941	4.5267	200	3.02808	8.20456
12:32:45				1886	10.74586	1.044083	4.5267	200	2.88156	8.33586
12:32:45				1887	10.69711	1.0431174	4.5267	200	2.83272	8.33861
12:32:46				1888	10.67036	1.0291335	4.5267	200	2.6862	8.22412
12:32:46				1889	10.69233	1.0366886	4.5267	200	2.6862	8.28428
12:32:47				1890	10.70761	1.0410273	4.4283	200	2.83272	8.31822
12:32:47				1891	10.69233	1.0556575	4.4283	200	2.88156	8.44788

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:32:48				1892	10.66844	1.0423136	4.5267	200	3.02808	8.33819
12:32:48				1893	10.66653	1.0407066	4.5267	200	2.88156	8.32476
12:32:49				1894	10.68087	1.0538893	4.4283	200	2.88156	8.43526
12:32:49				1895	10.68946	1.0500297	4.5267	200	2.88156	8.39996
12:32:50				1896	10.71436	1.0506736	4.5267	200	2.78388	8.39982
12:32:50	12:31:35 flow starts			1897	10.70857	1.0569438	4.4283	200	2.97924	8.45525
12:32:51				1898	10.71722	1.054692	4.4283	200	2.83272	8.43383
12:32:51				1899	10.76209	1.0789682	4.4283	200	2.73504	8.63289
12:32:52	dye 60 to 90 @ 180	5.0	180	1900	10.87091	1.0628908	4.4283	200	2.9304	8.4691
12:32:52				1901	10.89568	1.0599967	4.5267	200	2.6862	8.43854
12:32:53				1902	10.89187	1.068679	4.4283	200	2.78388	8.51401
12:32:53				1903	10.92621	1.0635332	4.4283	200	2.97924	8.46191
12:32:54				1904	10.87186	1.0553343	4.5267	200	3.32112	8.40394
12:32:54				1905	10.81175	1.0509953	4.5267	200	2.88156	8.38036
12:32:55				1906	10.8108	1.0500293	4.5267	200	2.97924	8.37227
12:32:55				1907	10.79649	1.0556572	4.5267	200	3.07692	8.42395
12:32:56				1908	10.80889	1.0524417	4.4283	200	2.83272	8.39346
12:32:56				1909	10.78219	1.0532464	4.4283	200	2.97924	8.40649
12:32:57				1910	10.678	1.0630522	4.5267	200	3.07692	8.51504
12:32:57				1911	10.4855	1.0538899	4.5267	200	3.12576	8.48035
12:32:58				1912	10.50562	1.0537297	4.4283	200	3.1746	8.47431
12:32:58				1913	10.5526	1.0509962	4.4283	200	3.12576	8.43976
12:32:59				1914	10.49604	1.0580689	4.5267	200	3.36996	8.51417
12:32:59				1915	10.43463	1.046977	4.5267	200	3.46764	8.43209
12:33:00				1916	10.49699	1.0439221	4.4283	200	3.27228	8.39125
12:33:00				1917	10.50753	1.0542101	4.4283	200	3.32112	8.47803
12:33:01				1918	10.50945	1.0509963	4.5267	200	3.1746	8.44971
12:33:01				1919	10.49412	1.0444051	4.6251	200	2.9304	8.39607
12:33:02				1920	10.51328	1.0484232	4.5267	200	3.12576	8.42651
12:33:02				1921	10.49891	1.0442434	4.4283	200	3.1746	8.3936
12:33:03				1922	10.48933	1.0373324	4.5267	200	3.12576	8.33588
12:33:03				1923	10.49316	1.0386168	4.6251	200	3.07692	8.34612
12:33:04				1924	10.49795	1.0331518	4.5267	200	3.12576	8.2977
12:33:05				1927	10.58095	1.0456883	4.5267	200	3.80952	8.3873
12:33:06				1928	10.55505	1.0323464	4.5267	200	3.61416	8.27781
12:33:06				1929	10.59913	1.0284884	4.5267	200	3.36996	8.23454
12:33:07				1930	10.67567	1.0376502	4.4283	200	3.51648	8.29634
12:33:07				1931	10.61252	1.0402223	4.5267	200	3.32112	8.33285
12:33:08				1932	10.61539	1.0382937	4.5267	200	3.4188	8.31554
12:33:08				1933	10.6173	1.0302557	4.5267	200	3.46764	8.24571
12:33:09				1934	10.64318	1.0275235	4.5267	200	3.32112	8.21634
12:33:09				1935	10.76269	1.0291311	4.4283	200	3.4188	8.20346
12:33:10				1936	10.7254	1.0484204	4.5267	200	3.61416	8.37788
12:33:10				1937	10.67471	1.0299337	4.5267	200	3.46764	8.23004
12:33:11				1938	10.6872	1.0350785	4.5267	200	3.1746	8.27156

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:33:11				1939	10.72444	1.0355598	4.4283	200	3.32112	8.26733
12:33:12				1940	10.75601	1.0474572	4.4283	200	3.27228	8.36262
12:33:12				1941	10.72635	1.0685165	4.4283	200	3.32112	8.55101
12:33:13				1942	10.64318	1.0760735	4.5267	200	3.61416	8.63582
12:33:13				1943	10.52441	1.0752694	4.5267	200	3.36996	8.65687
12:33:14				1944	10.37276	1.0603195	4.5267	200	3.27228	8.56254
12:33:14				1945	10.4275	1.0458506	4.5267	200	3.1746	8.42395
12:33:15				1946	10.62023	1.0553352	4.5267	200	3.27228	8.46171
12:33:15				1947	10.59147	1.0778427	4.4283	200	3.1746	8.66336
12:33:16				1948	10.41983	1.0673934	4.5267	200	3.32112	8.61308
12:33:16				1949	10.33147	1.0616059	4.6251	200	3.02808	8.58344
12:33:17				1950	10.43134	1.0633743	4.4283	200	2.97924	8.57541
12:33:17				1951	10.47645	1.0649811	4.4283	200	3.22344	8.57879
12:33:18				1952	10.43326	1.0675542	4.4283	200	3.46764	8.61132
12:33:18				1953	10.36124	1.0710897	4.6251	200	3.22344	8.65913
12:33:19				1954	10.23044	1.0648212	4.6251	170.84249	3.1746	8.63539
12:33:19				1955	10.31989	1.0662678	4.4283	166.73993	3.02808	8.62687
12:33:20				1956	10.33435	1.0657854	4.3299	200	3.12576	8.61926
12:33:20				1957	10.27761	1.0624089	4.4283	200	3.12576	8.60317
12:33:21				1958	10.22755	1.060641	4.5267	200	3.22344	8.59952
12:33:21				1959	10.22659	1.061283	4.5267	123.663	3.07692	8.60536
12:33:22				1960	10.26025	1.0572638	4.4283	136.65446	3.12576	8.56231
12:33:22				1961	10.26794	1.0575865	4.4283	196.0928	3.12576	8.56332
12:33:23				1962	10.25544	1.0591946	4.5267	198.87668	3.32112	8.5803
12:33:23				1963	10.24775	1.0649819	4.5267	194.28571	3.12576	8.6327
12:33:24				1964	10.21114	1.0677159	4.5267	193.45543	3.27228	8.66532
12:33:24				1965	10.20729	1.0643391	4.4283	189.45055	2.9304	8.63669
12:33:25				1966	10.23236	1.0768797	4.4283	193.16239	3.02808	8.7405
12:33:25				1967	10.16687	1.0792912	4.5267	191.59951	3.02808	8.77739
12:33:26				1968	10.1042	1.073181	4.5267	184.95726	2.97924	8.73883
12:33:26				1969	10.07619	1.0722163	4.5267	172.11233	3.02808	8.73709
12:33:27				1970	10.1254	1.0752708	4.4283	156.28816	3.12576	8.7521
12:33:27				1971	10.10999	1.0772008	4.4283	168.98657	2.97924	8.77277
12:33:28				1972	10.09258	1.079453	4.5267	161.12332	2.97924	8.79676
12:33:28				1973	10.0733	1.0789706	4.5267	134.65201	3.1746	8.79719
12:33:29				1974	10.06173	1.0752711	4.5267	101.14774	2.97924	8.76744
12:33:29				1975	10.07523	1.0757549	4.4283	97.24054	3.1746	8.76845
12:33:30				1976	10.07041	1.0685188	4.4283	97.1917	3.1746	8.70599
12:33:30				1977	10.08583	1.0681969	4.5267	169.37729	3.12576	8.69945
12:33:31				1978	10.11384	1.071896	4.5267	138.46154	3.1746	8.72523
12:33:31				1979	10.12444	1.0730198	4.5267	138.1685	3.12576	8.73255
12:33:32				1980	10.10999	1.0715738	4.5267	133.52869	3.07692	8.72333
12:33:32				1981	10.10318	1.0699654	4.5267	136.01954	3.22344	8.71083
12:33:33				1982	10.10613	1.0715738	4.5267	120.7326	3.12576	8.72425
12:33:33				1983	10.1071	1.0693235	4.5267	121.7094	3.1746	8.70426

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:33:34				1984	10.11288	1.067875	4.5267	108.81563	3.36996	8.69015
12:33:34				1985	10.11095	1.0653039	4.5267	104.66422	3.36996	8.66804
12:33:35				1986	10.1254	1.0577474	4.4283	84.49328	3.1746	8.59833
12:33:35				1987	10.14177	1.0653037	4.4283	81.41636	3.1746	8.66071
12:33:36				1988	10.14852	1.0628912	4.5267	96.4591	3.32112	8.63794
12:33:36				1989	10.15044	1.0624094	4.5267	89.57265	3.12576	8.63326
12:33:37				1990	10.1765	1.0630518	4.4283	86.20269	3.07692	8.63272
12:33:37				1991	10.20633	1.0792911	4.5267	60.41514	3.1746	8.76788
12:33:38				1992	10.16687	1.077362	4.5267	37.89988	3.1746	8.76046
12:33:38				1993	10.11866	1.0747891	4.5267	37.94872	3.27228	8.74948
12:33:39				1994	10.12444	1.0733422	4.4283	50.01221	3.27228	8.7354
12:33:39				1995	10.1254	1.0735034	4.5267	52.21001	3.4188	8.73657
12:33:40				1996	10.1148	1.0738237	4.5267	30.08547	3.27228	8.74193
12:33:40				1997	10.09354	1.0730199	4.5267	11.33089	3.02808	8.73998
12:33:41				1998	10.07523	1.0709317	4.5267	2.442	3.12576	8.72603
12:33:41				1999	10.0868	1.0702875	4.4283	40.9768	3.07692	8.7176
12:33:42				2000	10.08872	1.0746279	4.4283	50.45177	3.1746	8.75529
12:33:42				2001	10.07234	1.0728609	4.5267	58.31502	3.32112	8.74369
12:33:43				2002	10.05884	1.0714129	4.5267	45.90965	3.07692	8.7342
12:33:43				2003	10.08391	1.0720572	4.4283	37.21612	3.46764	8.73385
12:33:44				2004	10.07716	1.0743076	4.4283	44.93284	3.27228	8.75526
12:33:44				2005	10.06366	1.0717351	4.5267	34.77411	3.36996	8.73587
12:33:45				2006	10.05788	1.072861	4.5267	24.12698	3.12576	8.74717
12:33:45				2007	10.05498	1.0731812	4.5267	29.20635	3.27228	8.75068
12:33:46				2008	10.05305	1.0718962	4.5267	17.87546	3.1746	8.73984
12:33:46				2009	10.06463	1.074628	4.4283	24.2735	3.1746	8.7611
12:33:47				2010	10.05788	1.0760756	4.5267	26.03175	3.12576	8.77545
12:33:47				2011	10.04914	1.0717351	4.6251	3.663	3.12576	8.73936
12:33:48				2012	10.05113	1.0720574	4.5267	3.71184	3.1746	8.74172
12:33:48				2013	10.04817	1.0669121	4.4283	1.4652	3.1746	8.69719
12:33:49				2014	10.03563	1.0749507	4.5267	1.4652	3.1746	8.77092
12:33:49				2015	10.02695	1.0699656	4.5267	29.20635	3.02808	8.72913
12:33:50				2016	10.03274	1.0691627	4.4283	14.94505	3.07692	8.72069
12:33:50				2017	10.0337	1.0688408	4.4283	18.60806	3.1746	8.71763
12:33:51				2018	10.01923	1.0691628	4.5267	4.68864	3.36996	8.72392
12:33:51				2019	10.01923	1.0678753	4.5267	4.73748	3.4188	8.71259
12:33:52				2020	10.0202	1.0661081	4.4283	1.4652	3.27228	8.69682
12:33:52				2021	10.02213	1.0616069	4.4283	1.51404	3.22344	8.65675
12:33:53				2022	9.99897	1.0636971	4.5267	1.41636	3.22344	8.68067
12:33:53				2023	9.98733	1.0620888	4.6251	1.75824	3.1746	8.66928
12:33:54				2024	9.99704	1.0538895	4.4283	1.51404	3.32112	8.59483
12:33:54				2025	9.9854	1.0543721	4.4283	1.51404	3.32112	8.60184
12:33:55				2026	9.97864	1.0563009	4.5267	1.4652	3.36996	8.62041
12:33:55				2027	9.97671	1.0529247	4.5267	1.4652	3.36996	8.59115
12:33:56				2028	9.97767	1.0498701	4.5267	1.51404	3.51648	8.56404

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:33:56				2029	9.97671	1.054212	4.5267	1.4652	3.51648	8.60248
12:33:57				2030	9.98347	1.0500321	4.5267	1.4652	3.51648	8.5641
12:33:57				2031	9.98443	1.0538895	4.5267	1.4652	3.36996	8.59781
12:33:58				2032	9.99022	1.051156	4.5267	1.51404	3.22344	8.57239
12:33:58				2033	9.99022	1.0522823	4.5267	1.51404	3.36996	8.5823
12:33:59				2034	9.98443	1.0524424	4.6251	1.41636	3.51648	8.58506
12:33:59				2035	9.98829	1.0537294	4.5267	7.61905	3.32112	8.59548
12:34:00				2036	10.00862	1.050192	4.4283	10.35409	3.4188	8.55958
12:34:00				2037	10.01537	1.0672339	4.5267	30.57387	3.4188	8.70787
12:34:01				2038	10.00283	1.0553373	4.6251	10.35409	3.51648	8.60617
12:34:01				2039	10.0038	1.0588725	4.5267	10.40293	3.51648	8.63705
12:34:02				2040	10.01923	1.0543719	4.4283	1.51404	3.27228	8.59382
12:34:02				2041	10.01923	1.0608022	4.4283	46.05617	3.56532	8.65037
12:34:03				2042	10.01055	1.0566235	4.5267	60.8547	3.46764	8.61566
12:34:03				2043	10.00766	1.0601603	4.6251	21.73382	3.32112	8.64745
12:34:04				2044	10.01344	1.0588725	4.5267	14.70085	3.36996	8.63476
12:34:05				2047	10.01176	1.0649721	4.5267	39.36508	3.51648	8.68883
12:34:06				2048	10.00597	1.0620781	4.5267	37.41148	3.663	8.66474
12:34:06				2049	10.00114	1.0601497	4.5267	35.26252	3.61416	8.64892
12:34:07				2050	10.00693	1.0606312	4.5267	33.30891	3.46764	8.65178
12:34:07				2051	10.005	1.06449	4.4283	31.40415	3.46764	8.68622
12:34:08				2052	10.00307	1.0667408	4.5267	19.68254	3.27228	8.70648
12:34:08				2053	9.99728	1.0627227	4.5267	17.97314	3.4188	8.67249
12:34:09				2054	9.99535	1.0612754	4.5267	16.7033	3.32112	8.66021
12:34:09				2055	10.00211	1.0612754	4.5267	6.44689	3.32112	8.6586
12:34:10				2056	10.03105	1.0606311	4.5267	15.62882	3.51648	8.64603
12:34:10				2057	10.01948	1.0652936	4.5267	64.2735	3.4188	8.68981
12:34:11				2058	10.00114	1.0603102	4.6251	64.2735	3.4188	8.65032
12:34:11				2059	10.00693	1.0607938	4.5267	165.17705	3.22344	8.65321
12:34:12				2060	10.02044	1.0593453	4.4283	141.19658	3.36996	8.63726
12:34:12				2061	10.02333	1.0619175	4.5267	138.11966	3.1746	8.65919
12:34:13				2062	10.02044	1.0595078	4.6251	148.47375	3.22344	8.63867
12:34:13				2063	10.02237	1.0614358	4.6251	143.44322	3.27228	8.65517
12:34:14				2064	10.02526	1.0612753	4.5267	122.78388	3.4188	8.65308
12:34:14				2065	10.02237	1.058864	4.5267	108.47375	3.27228	8.63256
12:34:15				2066	10.03304	1.058864	4.5267	109.35287	3.22344	8.63002
12:34:15				2067	10.03497	1.0654543	4.5267	116.48352	3.36996	8.68752
12:34:16				2068	10.04076	1.0669015	4.5267	116.53236	3.36996	8.69886
12:34:16				2069	10.04654	1.0633651	4.5267	67.35043	3.27228	8.66638
12:34:17				2070	10.04365	1.0574164	4.5267	67.05739	3.22344	8.61478
12:34:17				2071	10.06583	1.0591847	4.5267	70.62271	3.22344	8.62505
12:34:18				2072	10.07547	1.0667406	4.5267	76.337	3.27228	8.68913
12:34:18				2073	10.05908	1.0622407	4.6251	75.116	3.4188	8.65349
12:34:19				2074	10.0504	1.0609542	4.6251	43.95604	3.32112	8.64425
12:34:19				2075	10.05715	1.06031	4.4283	46.88645	3.22344	8.63701

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:34:20				2076	10.06197	1.0660973	4.4283	72.86935	3.32112	8.68672
12:34:20				2077	10.06294	1.0627225	4.6251	93.13797	3.51648	8.65681
12:34:21				2078	10.05233	1.0646505	4.6251	93.13797	3.51648	8.67628
12:34:21				2079	10.05233	1.067545	4.5267	93.13797	3.51648	8.70175
12:34:22				2080	10.05137	1.0680277	4.5267	57.38706	3.22344	8.70622
12:34:22				2081	10.04944	1.0670624	4.5267	59.6337	3.27228	8.6982
12:34:23				2082	10.0504	1.0691521	4.5267	66.17827	3.1746	8.71634
12:34:23				2083	10.03786	1.0683495	4.5267	75.31136	3.27228	8.71229
12:34:24				2084	10.02526	1.0688324	4.5267	51.18437	3.02808	8.71957
12:34:24				2085	10.01948	1.0636865	4.5267	44.68864	3.22344	8.67567
12:34:25				2086	10.02719	1.0636864	4.5267	65.64103	3.02808	8.67382
12:34:25				2087	10.04076	1.0667407	4.5267	69.30403	3.32112	8.69745
12:34:26				2088	10.0504	1.0636864	4.5267	76.63004	3.51648	8.66828
12:34:26				2089	10.05715	1.0622407	4.5267	78.73016	3.32112	8.65396
12:34:27				2090	10.05137	1.0617569	4.6251	73.69963	3.27228	8.65108
12:34:27				2091	10.07354	1.0591847	4.5267	70.32967	3.36996	8.62322
12:34:28				2092	10.08903	1.0606309	4.4283	90.01221	3.36996	8.63225
12:34:28				2093	10.08222	1.0593451	4.5267	89.96337	3.36996	8.62257
12:34:29				2094	10.07933	1.0622406	4.6251	107.78999	3.22344	8.64867
12:34:29				2095	10.08222	1.0595076	4.5267	61.5873	3.27228	8.62399
12:34:30				2096	10.09963	1.0590242	4.5267	59.6337	3.32112	8.61562
12:34:30				2097	10.1372	1.0522713	4.5267	81.31868	3.36996	8.54754
12:34:31				2098	10.13046	1.0733337	4.5267	91.37973	3.22344	8.73386
12:34:31				2099	10.0977	1.059668	4.5267	57.9243	3.32112	8.62173
12:34:32				2100	10.11793	1.0601493	4.5267	58.31502	3.22344	8.62115
12:34:32				2101	10.13046	1.0606307	4.5267	68.08303	3.32112	8.6224
12:34:33				2102	10.11023	1.059668	4.5267	78.63248	3.36996	8.61876
12:34:33				2103	10.07354	1.0731727	4.5267	85.42125	3.1746	8.74614
12:34:34				2104	10.07065	1.0752625	4.5267	96.60562	3.22344	8.76521
12:34:34				2105	10.07354	1.059989	4.5267	96.55678	3.27228	8.63028
12:34:35				2106	10.13527	1.0646502	4.5267	102.51526	3.02808	8.65651
12:34:35				2107	10.11986	1.0778337	4.5267	82.63736	3.32112	8.77594
12:34:36				2108	10.08222	1.0664189	4.5267	92.40537	3.32112	8.68469
12:34:36				2109	10.06872	1.0648112	4.5267	82.49084	3.12576	8.67379
12:34:37				2110	10.07644	1.0818536	4.5267	85.71429	3.32112	8.82179
12:34:37				2111	10.06197	1.0677058	4.5267	84.6398	3.46764	8.70085
12:34:38				2112	10.05715	1.0677058	4.5267	65.39683	3.22344	8.702
12:34:38				2113	10.06583	1.072369	4.5267	74.09035	3.4188	8.74093
12:34:39				2114	10.06005	1.0808903	4.5267	71.79487	3.36996	8.8173
12:34:39				2115	10.0533	1.0714044	4.5267	38.33944	3.32112	8.73546
12:34:40				2116	10.05619	1.0683495	4.5267	40.53724	3.07692	8.7079
12:34:40				2117	10.08318	1.0733338	4.5267	54.26129	3.32112	8.74523
12:34:41				2118	10.06197	1.0752626	4.5267	62.0757	3.1746	8.76731
12:34:41				2119	10.04654	1.0776747	4.5267	45.22589	3.36996	8.79226
12:34:42				2120	10.03883	1.0697961	4.5267	42.39316	3.27228	8.72479

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:34:42				2121	10.07258	1.0678667	4.4283	40.39072	3.22344	8.69974
12:34:43				2122	10.07933	1.0752625	4.5267	52.21001	3.22344	8.76312
12:34:43				2123	10.06005	1.0747808	4.5267	49.18193	3.27228	8.76353
12:34:44				2124	10.05233	1.0720468	4.6251	17.38706	3.12576	8.74133
12:34:44				2125	10.06005	1.072528	4.5267	8.69353	3.32112	8.74372
12:34:45				2126	10.06776	1.0730115	4.5267	27.00855	3.1746	8.74611
12:34:45				2127	10.06197	1.072528	4.5267	28.13187	3.12576	8.74325
12:34:46				2128	10.05619	1.0689911	4.5267	18.26618	3.22344	8.71354
12:34:46				2129	10.04944	1.0710823	4.5267	25.64103	3.22344	8.73355
12:34:47				2130	10.0533	1.0677058	4.5267	29.54823	3.22344	8.70293
12:34:47				2131	10.05233	1.0583806	4.5267	41.02564	3.4188	8.62119
12:34:48				2132	10.04558	1.0699571	4.5267	40.14652	3.4188	8.72458
12:34:48				2133	10.0504	1.0702791	4.5267	31.45299	3.12576	8.72626
12:34:49				2134	10.0533	1.0717245	4.5267	38.38828	3.46764	8.73827
12:34:49				2135	10.06101	1.0685104	4.6251	40.63492	3.27228	8.70814
12:34:50				2136	10.05812	1.0667406	4.5267	25.59219	3.22344	8.69329
12:34:50				2137	10.06005	1.070599	4.4283	43.07692	3.32112	8.72676
12:34:51				2138	10.05137	1.0686714	4.5267	57.63126	3.36996	8.71188
12:34:51				2139	10.04462	1.0669015	4.5267	41.51404	3.1746	8.69794
12:34:52				2140	10.05715	1.0691521	4.5267	40.87912	3.27228	8.71472
12:34:52				2141	10.05619	1.0757444	4.5267	51.08669	3.22344	8.77294
12:34:53				2142	10.04269	1.0673841	4.6251	35.8486	3.1746	8.70263
12:34:53				2143	10.04847	1.0688323	4.5267	28.76679	3.12576	8.71399
12:34:54				2144	10.06294	1.063365	4.4283	39.90232	3.07692	8.66248
12:34:54				2145	10.06197	1.0894105	4.5267	41.02564	3.36996	8.89185
12:34:55				2146	10.04269	1.067545	4.6251	19.48718	3.27228	8.70404
12:34:55				2147	10.05522	1.0673841	4.5267	13.52869	3.1746	8.69964
12:34:56				2148	10.06679	1.0466461	4.4283	28.76679	3.4188	8.51476
12:34:56				2149	10.07933	1.0752625	4.5267	35.55556	3.27228	8.76312
12:34:57				2150	10.08903	1.058543	4.6251	37.94872	3.32112	8.6139
12:34:57				2151	10.08415	1.0582202	4.6251	44.1514	3.4188	8.61222
12:34:58				2152	10.08318	1.0537185	4.4283	48.25397	3.32112	8.57296
12:34:58				2153	10.0774	1.0566127	4.4283	52.16117	3.27228	8.59973
12:34:59				2154	10.08999	1.0606309	4.5267	62.71062	3.51648	8.63201
12:34:59				2155	10.03594	1.0583807	4.5267	60.8547	3.4188	8.62508
12:35:00				2156	10.03202	1.0553267	4.5267	46.93529	3.22344	8.59917
12:35:00				2157	10.05522	1.0423052	4.4283	33.11355	3.32112	8.47938
12:35:01				2158	10.06005	1.0517894	4.5267	48.69353	3.27228	8.56147
12:35:01				2159	10.06101	1.0434302	4.5267	57.28938	3.46764	8.48789
12:35:02				2160	10.11023	1.0437513	4.5267	55.33578	3.32112	8.47921
12:35:02				2161	10.16037	1.035231	4.5267	80.39072	3.4188	8.39301
12:35:03				2162	10.41335	1.0389273	4.4283	97.97314	3.46764	8.36708
12:35:03				2163	10.45848	1.0339449	4.4283	98.02198	3.46764	8.31355
12:35:04				2164	10.48148	1.0358747	4.5267	126.83761	3.32112	8.32503
12:35:05				2167	10.39351	1.0488989	4.5267	95.43346	3.32112	8.4583

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:35:06				2168	10.42325	1.0463276	4.4283	95.43346	3.27228	8.42909
12:35:06				2169	10.46933	1.0429523	4.4283	79.12088	3.32112	8.38919
12:35:07				2170	10.47316	1.0479355	4.4283	94.84737	3.27228	8.43154
12:35:07				2171	10.39063	1.0728556	4.4283	93.08913	3.22344	8.66757
12:35:08				2172	10.21751	1.0862	4.4283	93.04029	3.1746	8.82576
12:35:08				2173	10.12594	1.0702831	4.5267	107.49695	3.1746	8.70817
12:35:09				2174	10.23483	1.0734987	4.5267	107.49695	3.1746	8.7103
12:35:09				2175	10.21367	1.0807323	4.4283	31.11111	3.02808	8.77875
12:35:10				2176	10.17415	1.0853972	4.5267	32.67399	3.27228	8.82922
12:35:10				2177	10.10571	1.0821811	4.5267	20.70818	3.36996	8.81757
12:35:11				2178	10.07866	1.0841093	4.5267	4.68864	3.02808	8.8411
12:35:11				2179	10.06035	1.0823409	4.5267	1.4652	3.02808	8.82999
12:35:12				2180	10.07095	1.0783225	4.5267	1.4652	2.9304	8.79206
12:35:12				2181	10.05649	1.0770353	4.5267	1.4652	2.9304	8.78423
12:35:13				2182	10.05553	1.0881291	4.5267	1.51404	3.07692	8.88214
12:35:13				2183	10.04492	1.0825026	4.6251	1.4652	3.02808	8.83516
12:35:14				2184	10.04202	1.0800909	4.5267	1.4652	3.02808	8.81463
12:35:14				2185	10.05553	1.0831452	4.5267	1.51404	3.12576	8.83825
12:35:15				2186	10.0536	1.088935	4.5267	18.26618	3.22344	8.88971
12:35:15				2187	10.04781	1.0873256	4.5267	27.05739	3.12576	8.87695
12:35:16				2188	10.04395	1.0826643	4.5267	31.45299	3.02808	8.83683
12:35:16				2189	10.05167	1.0754281	4.5267	27.54579	2.97924	8.77125
12:35:17				2190	10.05745	1.0779997	4.5267	22.95482	3.07692	8.79248
12:35:17				2191	10.04974	1.0755895	4.5267	7.37485	3.02808	8.77314
12:35:18				2192	10.04685	1.0636906	4.5267	4.6398	2.97924	8.66917
12:35:18				2193	10.03811	1.0701224	4.5267	4.54212	3.02808	8.72783
12:35:19				2194	10.03618	1.073177	4.5267	2.39316	2.97924	8.75518
12:35:19				2195	10.05649	1.0691584	4.4283	1.4652	3.22344	8.71495
12:35:20				2196	10.07095	1.0781611	4.4283	1.51404	3.12576	8.79065
12:35:20				2197	10.06131	1.0784841	4.6251	1.4652	3.12576	8.7958
12:35:21				2198	10.04974	1.0706054	4.6251	1.51404	3.32112	8.72927
12:35:21				2199	10.09993	1.066586	4.4283	1.56288	3.36996	8.68194
12:35:22				2200	10.12016	1.0717306	4.4283	1.51404	3.36996	8.72227
12:35:22				2201	10.10667	1.0661035	4.5267	30.86691	3.02808	8.67608
12:35:23				2202	10.06999	1.0616005	4.6251	32.28327	2.9304	8.64527
12:35:23				2203	10.04974	1.0599933	4.6251	26.27595	3.1746	8.63596
12:35:24				2204	10.04492	1.0673884	4.6251	8.40049	3.46764	8.70213
12:35:24				2205	10.07481	1.064014	4.5267	29.40171	3.27228	8.66534
12:35:25				2206	10.19147	1.0677096	4.4283	45.03053	3.22344	8.66996
12:35:25				2207	10.16356	1.0509912	4.5267	66.81319	3.32112	8.53014
12:35:26				2208	10.1086	1.0635297	4.6251	29.74359	3.32112	8.65302
12:35:26				2209	10.18089	1.0604764	4.5267	19.73138	3.27228	8.60911
12:35:27				2210	10.28584	1.060476	4.4283	37.41148	3.27228	8.58435
12:35:27				2211	10.16356	1.0644958	4.5267	80.63492	3.22344	8.64843
12:35:28				2212	10.12113	1.0640138	4.5267	87.76557	2.97924	8.6543

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:35:28				2213	10.17319	1.0633688	4.4283	87.76557	2.97924	8.63628
12:35:29				2214	10.16549	1.0624051	4.3299	94.16361	3.02808	8.62968
12:35:29				2215	10.11342	1.0725342	4.3299	94.26129	3.02808	8.73096
12:35:30				2216	10.06324	1.064014	4.5267	25.25031	3.36996	8.6681
12:35:30				2217	10.06227	1.0599932	4.4283	7.96093	3.36996	8.63301
12:35:31				2218	10.10764	1.0603161	4.3299	8.00977	3.4188	8.62508
12:35:31				2219	10.11245	1.0575828	4.3299	7.96093	3.4188	8.59996
12:35:32				2220	10.09415	1.0622447	4.3299	66.95971	3.4188	8.64522
12:35:32				2221	10.0671	1.0620843	4.4283	38.58364	3.36996	8.65023
12:35:33				2222	10.10089	1.0638532	4.5267	34.96947	3.22344	8.65771
12:35:33				2223	10.10186	1.0688364	4.4283	31.89255	3.22344	8.70125
12:35:34				2224	10.05938	1.0743034	4.3299	26.91087	3.27228	8.75952
12:35:34	12:34:19 flow stopped			2225	10.04877	1.0821813	4.5267	3.1746	3.1746	8.8314
12:35:35				2226	10.05745	1.0815389	4.5267	3.22344	3.22344	8.82363
12:35:35				2227	10.06035	1.0833069	4.5267	1.51404	3.1746	8.8385
12:35:36				2228	10.05745	1.0858789	4.5267	1.41636	3.12576	8.86185
12:35:36				2229	10.06227	1.0826643	4.5267	1.4652	3.02808	8.83237
12:35:37				2230	10.05938	1.0726955	4.5267	1.51404	2.97924	8.74535
12:35:37				2231	10.0642	1.0771967	4.5267	1.4652	3.07692	8.78378
12:35:38				2232	10.08059	1.0765532	4.5267	1.4652	3.07692	8.77416
12:35:38				2233	10.08445	1.0767146	4.5267	1.4652	3.02808	8.77465
12:35:39				2234	10.07866	1.0773581	4.5267	15.77534	3.1746	8.78171
12:35:39				2235	10.0777	1.078484	4.5267	10.50061	3.12576	8.79184
12:35:40				2236	10.06806	1.0730157	4.5267	11.18437	3.1746	8.74608
12:35:40				2237	10.07577	1.0715697	4.4283	9.27961	3.07692	8.73152
12:35:41				2238	10.07866	1.0762326	4.4283	12.64957	3.27228	8.77182
12:35:41				2239	10.06227	1.0728567	4.6251	13.91941	3.22344	8.74606
12:35:42				2240	10.06035	1.0699613	4.6251	2.53968	3.02808	8.72106
12:35:42				2241	10.08734	1.0643353	4.4283	6.39805	3.12576	8.66518
12:35:43				2242	10.09216	1.0678708	4.4283	14.06593	3.1746	8.69509
12:35:43				2243	10.08638	1.0649782	4.6251	10.10989	3.27228	8.67103
12:35:44				2244	10.06806	1.0628873	4.6251	14.16361	3.27228	8.65703
12:35:44				2245	10.08059	1.0630479	4.5267	27.35043	3.27228	8.65547
12:35:45				2246	10.10475	1.0582243	4.5267	22.27106	3.22344	8.60739
12:35:45				2247	10.11245	1.0580639	4.5267	31.06227	3.46764	8.60416
12:35:46				2248	10.11631	1.0625659	4.6251	33.35775	3.36996	8.64273
12:35:46				2249	10.09896	1.0591888	4.6251	35.50672	3.36996	8.61721
12:35:47				2250	10.10475	1.0591888	4.5267	32.28327	3.12576	8.61585
12:35:47				2251	10.11824	1.0508293	4.4283	29.89011	3.4188	8.53937
12:35:48				2252	10.11631	1.0616003	4.5267	32.86935	3.32112	8.63427
12:35:48				2253	10.10571	1.0567792	4.6251	28.22955	3.36996	8.59447
12:35:49				2254	10.1086	1.0572601	4.5267	25.00611	3.27228	8.59802
12:35:49				2255	10.11535	1.0562963	4.5267	24.37118	3.36996	8.58797
12:35:50				2256	10.11149	1.0543674	4.5267	26.22711	3.36996	8.57196
12:35:50				2257	10.09607	1.0664252	4.5267	25.49451	3.32112	8.68144

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:35:51				2258	10.05842	1.0638534	4.6251	29.98779	3.27228	8.66782
12:35:51				2259	10.04877	1.0574207	4.6251	10.84249	3.07692	8.61359
12:35:52				2260	10.05842	1.0580641	4.5267	2.97924	3.27228	8.61696
12:35:52				2261	10.07866	1.0685145	4.4283	11.86813	3.32112	8.70397
12:35:53				2262	10.05167	1.0743034	4.5267	16.26374	3.61416	8.76136
12:35:53				2263	10.04106	1.0669079	4.6251	7.03297	3.32112	8.69883
12:35:54				2264	10.04299	1.0704444	4.5267	7.03297	3.27228	8.72949
12:35:54				2265	10.04781	1.0765533	4.5267	1.4652	3.1746	8.78209
12:35:55				2266	10.03425	1.0751077	4.5267	1.4652	3.22344	8.77264
12:35:55				2267	10.02846	1.071731	4.6251	2.00244	3.02808	8.7443
12:35:56				2268	10.03521	1.0775175	4.6251	1.90476	3.02808	8.79361
12:35:56				2269	10.04685	1.0802524	4.5267	1.4652	3.1746	8.81489
12:35:57				2270	10.0642	1.0792873	4.6251	1.51404	3.22344	8.80217
12:35:57				2271	10.06999	1.0796082	4.6251	14.01709	2.97924	8.80359
12:35:58				2272	10.07384	1.0714086	4.5267	26.71551	3.1746	8.73055
12:35:58				2273	10.07192	1.0775174	4.5267	31.94139	3.32112	8.78474
12:35:59				2274	10.14135	1.0725341	4.5267	28.81563	3.36996	8.72423
12:35:59				2275	10.32241	1.0738188	4.6251	23.2967	3.27228	8.69218
12:36:00				2276	10.38583	1.0678698	4.6251	23.58974	3.02808	8.62523
12:36:00				2277	10.32049	1.0670678	4.5267	24.22466	3.07692	8.6337
12:36:01				2278	10.49238	1.0678695	4.5267	19.58486	3.27228	8.60014
12:36:01				2279	10.63702	1.0672275	4.5267	16.75214	3.1746	8.56069
12:36:02				2280	10.7919	1.0656188	4.5267	16.55678	3.1746	8.51079
12:36:02				2281	10.92829	1.0661007	4.5267	19.04762	2.9304	8.48345
12:36:03				2282	11.03875	1.0649749	4.6251	23.83394	3.27228	8.44844
12:36:03				2283	10.9635	1.0648144	4.5267	36.19048	3.1746	8.46432
12:36:04				2284	10.91877	1.0649753	4.5267	33.06471	3.1746	8.47598
12:36:05				2287	11.05134	1.0714094	4.5267	24.56654	3.07692	8.50063
12:36:06				2288	11.08364	1.070123	4.6251	23.73626	3.02808	8.48219
12:36:06				2289	11.06179	1.0673891	4.5267	29.30403	3.02808	8.46383
12:36:07				2290	11.03703	1.0678718	4.5267	31.25763	3.12576	8.47364
12:36:07				2291	11.03607	1.0656201	4.6251	29.01099	3.22344	8.45457
12:36:08				2292	11.02372	1.0609592	4.5267	21.29426	3.27228	8.41752
12:36:08				2293	11.00185	1.056618	4.5267	17.6801	3.27228	8.38534
12:36:09				2294	10.97801	1.0590296	4.5267	18.55922	3.12576	8.41142
12:36:09				2295	10.94757	1.0575821	4.5267	20.21978	3.12576	8.40596
12:36:10				2296	10.86847	1.0532419	4.5267	21.5873	3.4188	8.38674
12:36:10				2297	10.83601	1.0566185	4.5267	4.68864	3.32112	8.42317
12:36:11				2298	10.82838	1.0715713	4.5267	7.66789	3.22344	8.5536
12:36:11				2299	10.44656	1.0611218	4.6251	9.08425	3.4188	8.55222
12:36:12				2300	10.38703	1.0598359	4.5267	17.48474	3.36996	8.55499
12:36:12				2301	10.51561	1.0599959	4.5267	19.97558	3.32112	8.52634
12:36:13				2302	10.37839	1.0612825	4.6251	23.63858	3.22344	8.5696
12:36:13				2303	10.35242	1.058388	4.5267	25.88523	3.07692	8.55048
12:36:14				2304	10.47052	1.0620871	4.5267	24.07814	3.32112	8.55502

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:36:14				2305	10.3553	1.0624087	4.6251	21.24542	3.32112	8.58484
12:36:15				2306	10.27262	1.0598363	4.6251	24.37118	3.46764	8.58185
12:36:15				2307	10.34762	1.0644972	4.5267	22.12454	3.36996	8.60487
12:36:16				2308	10.30626	1.0662658	4.5267	15.77534	3.27228	8.63007
12:36:16				2309	10.25045	1.0675528	4.6251	14.01709	3.12576	8.65453
12:36:17				2310	10.21391	1.0636943	4.6251	12.89377	3.22344	8.62945
12:36:17				2311	10.26007	1.0670701	4.5267	10.25641	3.07692	8.64804
12:36:18				2312	10.22833	1.0699649	4.6251	17.63126	3.27228	8.6809
12:36:18				2313	10.18017	1.0606411	4.6251	17.9243	3.32112	8.61071
12:36:19				2314	10.25238	1.0571035	4.5267	18.1685	3.1746	8.56275
12:36:19				2315	10.30242	1.0529236	4.5267	19.04762	3.27228	8.51454
12:36:20				2316	10.30722	1.055174	4.6251	21.97802	3.32112	8.53303
12:36:20				2317	10.3053	1.0508328	4.5267	19.97558	3.22344	8.49563
12:36:21				2318	10.29857	1.0545312	4.6251	23.44322	3.46764	8.52945
12:36:21				2319	10.30722	1.0556567	4.6251	28.57143	3.22344	8.53724
12:36:22				2320	10.3409	1.0505107	4.5267	29.98779	3.32112	8.48454
12:36:22				2321	10.33417	1.0482598	4.5267	19.29182	3.27228	8.46649
12:36:23				2322	10.30818	1.0503509	4.5267	15.09158	3.4188	8.49076
12:36:23				2323	10.27839	1.0521192	4.6251	26.37363	3.4188	8.51312
12:36:24				2324	10.28224	1.0493852	4.4283	24.85958	3.4188	8.48839
12:36:24				2325	10.24084	1.0501912	4.6251	22.12454	3.36996	8.50505
12:36:25				2326	10.20615	1.0513152	4.6251	1.51404	3.07692	8.52299
12:36:25				2327	10.27166	1.051315	4.5267	13.33333	3.4188	8.50768
12:36:26				2328	10.25045	1.0540488	4.5267	26.56899	3.46764	8.53651
12:36:26				2329	10.19941	1.0519595	4.6251	18.51038	3.51648	8.5302
12:36:27				2330	10.18402	1.0522796	4.6251	14.70085	3.22344	8.53661
12:36:27				2331	10.18883	1.0516374	4.6251	12.94261	3.4188	8.52986
12:36:28				2332	10.17535	1.0524418	4.6251	13.77289	3.51648	8.54006
12:36:28				2333	10.1638	1.0517975	4.6251	13.13797	3.36996	8.53713
12:36:29				2334	10.17439	1.0527619	4.5267	13.62637	3.1746	8.5431
12:36:29				2335	10.15706	1.0535666	4.4283	16.84982	3.51648	8.55423
12:36:30				2336	10.11366	1.052602	4.6251	18.51038	3.76068	8.55596
12:36:30				2337	10.09728	1.0517977	4.6251	10.64713	3.27228	8.55276
12:36:31				2338	10.14545	1.0509934	4.5267	14.65201	3.32112	8.53441
12:36:31				2339	10.14545	1.0519596	4.5267	16.11722	3.46764	8.54287
12:36:32				2340	10.09921	1.052442	4.6251	8.00977	3.46764	8.55796
12:36:32				2341	10.07891	1.0511557	4.6251	5.76313	3.4188	8.55146
12:36:33				2342	10.07794	1.0509936	4.5267	10.50061	3.22344	8.55027
12:36:33				2343	10.10788	1.0497077	4.5267	3.663	3.46764	8.53196
12:36:34				2344	10.09433	1.0495478	4.5267	1.4652	3.51648	8.53374
12:36:34				2345	10.08469	1.0493859	4.6251	1.4652	3.51648	8.53457
12:36:35				2346	10.07891	1.0513157	4.6251	1.4652	3.61416	8.55286
12:36:35				2347	10.06637	1.0501918	4.6251	1.51404	3.56532	8.54595
12:36:36				2348	10.07891	1.0477791	4.5267	1.4652	3.56532	8.52185
12:36:36				2349	10.09728	1.0489041	4.5267	9.67033	3.32112	8.5274

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:36:37				2350	10.06059	1.0506737	4.6251	13.82173	3.46764	8.55154
12:36:37				2351	10.04323	1.0482608	4.6251	6.20269	3.4188	8.53444
12:36:38				2352	10.05962	1.0497079	4.5267	1.51404	3.36996	8.5433
12:36:38				2353	10.04902	1.0503518	4.5267	1.41636	3.4188	8.55145
12:36:39				2354	10.03835	1.0493861	4.6251	7.13065	3.51648	8.54547
12:36:39				2355	10.03256	1.0517979	4.6251	4.1514	3.4188	8.56802
12:36:40				2356	10.03159	1.0482608	4.5267	3.02808	3.32112	8.53719
12:36:40				2357	10.04709	1.0509937	4.6251	7.27717	3.51648	8.55753
12:36:41				2358	10.03063	1.0611232	4.5267	13.87057	3.4188	8.65046
12:36:41				2359	10.0123	1.0521201	4.6251	7.17949	3.46764	8.57564
12:36:42				2360	10.01423	1.0519601	4.6251	3.71184	3.4188	8.57377
12:36:42				2361	10.02967	1.0489044	4.5267	1.4652	3.22344	8.54329
12:36:43				2362	10.01905	1.0656236	4.6251	1.4652	3.22344	8.6928
12:36:43				2363	10.00844	1.0553352	4.6251	7.03297	3.4188	8.60482
12:36:44				2364	10.00168	1.0550148	4.6251	1.4652	3.61416	8.6036
12:36:44				2365	9.99782	1.0588726	4.6251	1.51404	3.36996	8.63846
12:36:45				2366	9.99879	1.0567817	4.6251	1.51404	3.32112	8.61984
12:36:45				2367	9.99686	1.0542098	4.6251	2.39316	3.36996	8.59767
12:36:46				2368	10.00747	1.0474577	4.6251	1.4652	3.4188	8.53579
12:36:46				2369	10.03642	1.057908	4.5267	1.51404	3.4188	8.62082
12:36:47				2370	10.07891	1.074628	4.5267	1.4652	3.36996	8.75764
12:36:47				2371	10.09433	1.0709295	4.6251	21.68498	3.4188	8.72141
12:36:48				2372	10.10981	1.061444	4.6251	21.8315	3.02808	8.63443
12:36:48				2373	10.11655	1.0644981	4.6251	12.50305	2.97924	8.65962
12:36:49				2374	10.09921	1.0693214	4.5267	10.20757	3.07692	8.70613
12:36:49				2375	10.09728	1.0662665	4.7234	6.15385	3.1746	8.67973
12:36:50				2376	10.10017	1.0654626	4.6251	3.46764	3.22344	8.672
12:36:50				2377	10.09728	1.0659449	4.6251	4.83516	3.07692	8.67692
12:36:51				2378	10.09336	1.0664273	4.6251	5.76313	3.02808	8.68209
12:36:51				2379	10.09824	1.0653018	4.6251	7.42369	3.1746	8.67104
12:36:52				2380	10.09529	1.0677142	4.5267	8.74237	3.12576	8.69295
12:36:52				2381	10.10691	1.0808986	4.6251	9.62149	3.02808	8.80599
12:36:53				2382	10.17247	1.072216	4.6251	13.82173	3.07692	8.71397
12:36:53				2383	10.17535	1.0683575	4.6251	19.09646	2.88156	8.67945
12:36:54				2384	10.1561	1.0683576	4.5267	18.70574	2.97924	8.68406
12:36:54				2385	10.16573	1.0699652	4.6251	16.80098	3.1746	8.69585
12:36:55				2386	10.16765	1.0707682	4.6251	17.72894	3.1746	8.70243
12:36:55				2387	10.16669	1.0744664	4.6251	16.99634	3.07692	8.73509
12:36:56				2388	10.16669	1.072216	4.6251	16.50794	3.1746	8.71535
12:36:56				2389	10.17247	1.0730196	4.6251	16.60562	3.12576	8.72102
12:36:57				2390	10.18305	1.0788087	4.6251	19.3895	3.07692	8.76924
12:36:57				2391	10.20326	1.0815405	4.6251	18.6569	3.12576	8.78832
12:36:58				2392	10.23314	1.0823445	4.6251	18.80342	3.46764	8.78816
12:36:58				2393	10.27262	1.0823444	4.7234	21.39194	2.97924	8.77863
12:36:59				2394	10.31881	1.0836317	4.7234	29.69475	3.02808	8.77877

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:36:59				2395	10.32265	1.0810574	4.8218	29.25519	2.88156	8.75533
12:37:00				2396	10.29665	1.0826656	4.9202	20.56166	2.9304	8.77563
12:37:00				2397	10.28608	1.0828274	4.9202	16.26374	2.9304	8.77959
12:37:01				2398	10.29281	1.0823443	4.9202	15.04274	2.88156	8.77374
12:37:01				2399	10.32937	1.1001924	5.2153	16.80098	2.9304	8.92099
12:37:02				2400	10.15026	1.0984235	5.5105	8.69353	2.97924	8.94937
12:37:02				2401	10.10691	1.0972988	5.7073	8.74237	2.97924	8.95012
12:37:03				2402	10.08758	1.0963346	5.6089	1.4652	2.78388	8.9464
12:37:03				2403	10.07794	1.0985842	5.6089	1.4652	2.78388	8.96859
12:37:04				2404	10.08662	1.0993886	5.7073	1.51404	2.83272	8.97353
12:37:05	12:35:50	5.0	225	2407	10.10487	1.0995106	5.7073	2.6862	2.78388	8.97009
12:37:06				2408	10.10583	1.1027263	5.6089	3.32112	2.9304	8.99819
12:37:06				2409	10.10487	1.1061021	5.7073	3.51648	2.83272	9.02815
12:37:07				2410	10.11065	1.1088354	5.7073	3.46764	2.9304	9.0508
12:37:07				2411	10.11547	1.1040118	5.7073	1.51404	2.88156	9.00711
12:37:08				2412	10.11643	1.102405	5.7073	1.4652	2.88156	8.99272
12:37:08				2413	10.12317	1.1007968	5.7073	1.4652	3.02808	8.9769
12:37:09				2414	10.13961	1.1025655	5.7073	8.69353	2.73504	8.9884
12:37:09				2415	10.14539	1.1017602	5.6089	2.63736	2.73504	8.9799
12:37:10				2416	10.14153	1.1094793	5.7073	4.49328	2.83272	9.04878
12:37:10				2417	10.13569	1.1046547	5.7073	7.37485	3.02808	9.00776
12:37:11				2418	10.12895	1.1020837	5.8056	1.9536	2.6862	8.98678
12:37:11				2419	10.15116	1.1024048	5.7073	1.9536	2.6862	8.98413
12:37:12				2420	10.15405	1.1061019	5.6089	1.4652	2.6862	9.01596
12:37:12				2421	10.1502	1.1061019	5.7073	1.4652	2.73504	9.0169
12:37:13				2422	10.15309	1.1049762	5.7073	5.12821	2.88156	9.00628
12:37:13				2423	10.15213	1.1064236	5.7073	5.42125	2.83272	9.01925
12:37:14				2424	10.14924	1.1030475	5.7073	5.42125	2.9304	8.99026
12:37:14				2425	10.15598	1.1044939	5.6089	2.88156	2.88156	9.00133
12:37:15				2426	10.15694	1.1054586	5.7073	5.90965	3.27228	9.00957
12:37:15				2427	10.15405	1.1033688	5.7073	6.59341	3.1746	8.9919
12:37:16				2428	10.15694	1.1036902	5.6089	1.4652	2.97924	8.99403
12:37:16				2429	10.15502	1.1065844	5.7073	1.51404	2.73504	9.01995
12:37:17				2430	10.1425	1.1032082	5.7073	1.51404	2.88156	8.99334
12:37:17				2431	10.1579	1.1032081	5.7073	1.4652	2.58852	8.98953
12:37:18				2432	10.1579	1.1070671	5.6089	1.4652	2.63736	9.02349
12:37:18				2433	10.14153	1.1065845	5.7073	1.4652	2.88156	9.0233
12:37:19				2434	10.13961	1.1085134	5.7073	1.51404	2.73504	9.04075
12:37:19				2435	10.12414	1.1033689	5.7073	1.4652	2.78388	8.9993
12:37:20				2436	10.13377	1.104494	5.7073	1.4652	2.83272	9.00682
12:37:20				2437	10.13281	1.1048155	5.7073	1.51404	2.88156	9.00989
12:37:21				2438	10.12125	1.1041725	5.7073	1.4652	2.73504	9.00709
12:37:21				2439	10.12028	1.1065846	5.7073	1.51404	2.73504	9.02857
12:37:22				2440	10.11354	1.1035297	5.7073	1.4652	2.6862	9.00334
12:37:22				2441	10.11836	1.1035297	5.7073	1.51404	2.63736	9.00215

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:37:23				2442	10.12414	1.1040118	5.6089	1.4652	2.78388	9.00497
12:37:23				2443	10.10487	1.1036904	5.7073	1.4652	2.88156	9.00691
12:37:24				2444	10.10101	1.1057804	5.7073	1.4652	2.78388	9.02627
12:37:24				2445	10.09619	1.1057804	5.7073	1.4652	2.63736	9.02747
12:37:25				2446	10.09427	1.1022444	5.8056	1.4652	2.53968	8.99678
12:37:25				2447	10.0933	1.101118	5.7073	1.4652	2.9304	8.98711
12:37:26				2448	10.09427	1.0988666	5.6089	1.51404	2.78388	8.96705
12:37:26				2449	10.05275	1.0961338	5.7073	1.4652	2.88156	8.9532
12:37:27				2450	10.01121	1.0962943	5.8056	1.4652	2.73504	8.96485
12:37:27				2451	10.00735	1.0943647	5.7073	1.51404	2.63736	8.94879
12:37:28				2452	10.01411	1.095651	5.6089	1.51404	2.78388	8.95849
12:37:28				2453	10.01218	1.0917918	5.6089	1.4652	2.78388	8.92491
12:37:29				2454	9.99963	1.089059	5.7073	1.4652	2.9304	8.90387
12:37:29				2455	9.99674	1.0917918	5.7073	1.51404	2.9304	8.9287
12:37:30				2456	10.00639	1.0903451	5.7073	1.4652	2.97924	8.91356
12:37:30				2457	10.01507	1.0911494	5.7073	1.4652	2.9304	8.91852
12:37:31				2458	10.02183	1.0876114	5.7073	1.51404	2.9304	8.88566
12:37:31				2459	10.01411	1.0872897	5.7073	1.4652	2.9304	8.88472
12:37:32				2460	10.01025	1.0888991	5.8056	3.76068	2.9304	8.89984
12:37:32				2461	10.01314	1.089863	5.7073	3.80952	2.73504	8.90765
12:37:33				2462	10.01893	1.0890589	5.6089	1.51404	2.9304	8.89915
12:37:33				2463	10.02086	1.0866482	5.6089	1.4652	2.78388	8.87742
12:37:34				2464	10.00639	1.0884172	5.7073	1.4652	2.78388	8.89655
12:37:34				2465	10.00253	1.0903451	5.7073	1.4652	2.88156	8.91451
12:37:35				2466	10.01604	1.0829497	5.6089	1.51404	2.9304	8.846
12:37:35				2467	10.00832	1.0839138	5.7073	1.4652	3.07692	8.85637
12:37:36				2468	9.99963	1.0851998	5.7073	1.4652	2.88156	8.86983
12:37:36				2469	9.99963	1.0832711	5.6089	1.51404	2.9304	8.85283
12:37:37				2470	9.99674	1.082788	5.7073	1.51404	2.9304	8.84926
12:37:37				2471	9.98805	1.0834329	5.7073	1.4652	2.83272	8.85707
12:37:38				2472	9.98805	1.0848783	5.7073	1.51404	3.12576	8.86982
12:37:38				2473	10.0006	1.0850401	5.7073	1.4652	3.02808	8.86818
12:37:39				2474	10.02472	1.084397	5.7073	1.4652	2.88156	8.85662
12:37:39				2475	10.01314	1.0808586	5.7073	1.41636	2.9304	8.82826
12:37:40				2476	9.99674	1.0823072	5.7073	1.51404	2.9304	8.84502
12:37:40				2477	9.99191	1.0842353	5.7073	1.51404	2.78388	8.86321
12:37:41				2478	10.00735	1.0850401	5.6089	1.4652	2.9304	8.86655
12:37:41				2479	10.00446	1.0840756	5.6089	1.4652	2.97924	8.85875
12:37:42				2480	10.01314	1.083271	5.7073	10.35409	2.88156	8.84952
12:37:42				2481	10.01507	1.0831114	5.7073	3.95604	2.88156	8.84764
12:37:43				2482	10.01314	1.0808586	5.7073	2.49084	3.02808	8.82826
12:37:43				2483	10.01218	1.0821454	5.7073	2.78388	2.78388	8.83984
12:37:44				2484	10.01411	1.0816625	5.7073	1.51404	2.6862	8.83511
12:37:44				2485	10.01411	1.0806991	5.6089	1.4652	2.63736	8.82663
12:37:45				2486	10.01411	1.0782867	5.6089	1.4652	3.07692	8.80537

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:37:45				2487	10.01411	1.0819859	5.7073	14.70085	3.02808	8.83796
12:37:46				2488	10.01507	1.080055	5.8056	4.05372	3.02808	8.82069
12:37:46				2489	10.01604	1.0798955	5.7073	1.90476	2.9304	8.81907
12:37:47				2490	10.02183	1.0792514	5.7073	1.9536	2.9304	8.81199
12:37:47				2491	10.0199	1.0792515	5.7073	2.00244	2.9304	8.81245
12:37:48				2492	10.01893	1.0806991	5.7073	2.73504	2.88156	8.82544
12:37:48				2493	10.02086	1.0761968	5.7073	2.53968	2.88156	8.78531
12:37:49				2494	10.0325	1.0795723	5.7073	2.24664	2.9304	8.81222
12:37:49				2495	10.04118	1.0798954	5.8056	1.9536	2.9304	8.81295
12:37:50				2496	10.03732	1.0810202	5.6089	1.61172	3.12576	8.82382
12:37:50	12:36:35 start transect	5.0	180	2497	10.04214	1.0808585	5.6089	4.05372	3.1746	8.82122
12:37:51				2498	10.04311	1.0806991	5.7073	1.56288	2.97924	8.81957
12:37:51				2499	10.04504	1.0808585	5.7073	1.51404	2.97924	8.8205
12:37:52				2500	10.046	1.0802164	5.7073	1.4652	2.83272	8.81462
12:37:52				2501	10.04986	1.0805374	5.7073	1.4652	2.83272	8.81651
12:37:53				2502	10.05082	1.080699	5.7073	5.22589	2.97924	8.81769
12:37:53				2503	10.0489	1.0794129	5.7073	3.663	2.83272	8.80684
12:37:54				2504	10.0489	1.0797338	5.7073	6.73993	2.88156	8.80966
12:37:54				2505	10.05179	1.0798954	5.7073	7.81441	2.9304	8.81039
12:37:55				2506	10.04986	1.080378	5.7073	9.52381	2.83272	8.8151
12:37:55				2507	10.04697	1.0798954	5.7073	9.37729	2.97924	8.81156
12:37:56				2508	10.04697	1.0800548	5.7073	8.00977	2.97924	8.81296
12:37:56				2509	10.0489	1.0798954	5.6089	8.30281	2.97924	8.8111
12:37:57				2510	10.04793	1.0808585	5.7073	12.25885	2.83272	8.8198
12:37:57				2511	10.046	1.0805374	5.7073	13.57753	2.9304	8.81744
12:37:58				2512	10.04697	1.0805374	5.7073	13.96825	2.97924	8.81721
12:37:58				2513	10.04793	1.0826283	5.6089	13.82173	2.73504	8.8354
12:37:59				2514	10.05854	1.0819857	5.7073	14.74969	3.07692	8.82715
12:37:59				2515	10.06818	1.0810201	5.7073	16.50794	3.12576	8.81631
12:38:00				2516	10.07011	1.0816624	5.7073	16.84982	2.73504	8.82149
12:38:00				2517	10.073	1.0805373	5.6089	17.53358	2.83272	8.8109
12:38:01				2518	10.07204	1.0803779	5.6089	14.99389	3.12576	8.80973
12:38:01				2519	10.06625	1.0795722	5.6089	9.03541	3.22344	8.80405
12:38:02				2520	10.07878	1.0815028	5.7073	5.27473	2.78388	8.81798
12:38:02				2521	10.08848	1.0808584	5.7073	9.57265	2.9304	8.80996
12:38:03				2522	10.12703	1.0823067	5.5105	10.45177	2.9304	8.81337
12:38:03				2523	10.13281	1.0945245	5.5105	11.72161	2.97924	8.91937
12:38:04				2524	10.11258	1.0913091	5.7073	8.59585	3.02808	8.89602
12:38:05				2527	10.1384	1.0914648	5.5105	6.20269	3.07692	8.89109
12:38:06				2528	10.14033	1.0941976	5.5105	9.47497	3.07692	8.91465
12:38:06				2529	10.15002	1.0990225	5.6089	5.47009	3.07692	8.95468
12:38:07				2530	10.15291	1.0948406	5.6089	1.61172	2.97924	8.9172
12:38:07				2531	10.15195	1.0974141	5.6089	1.4652	2.83272	8.94006
12:38:08				2532	10.15676	1.108348	5.6089	1.4652	2.9304	9.03505
12:38:08				2533	10.17698	1.1073824	5.6089	1.51404	3.02808	9.02154

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:38:09				2534	10.18275	1.1065779	5.6089	1.4652	3.02808	9.01303
12:38:09				2535	10.18371	1.1115646	5.5105	1.51404	3.02808	9.05666
12:38:10				2536	10.18949	1.1114034	5.7073	1.4652	2.78388	9.05378
12:38:10				2537	10.2011	1.110439	5.8056	1.4652	2.83272	9.0424
12:38:11				2538	10.20014	1.1102779	5.6089	1.4652	2.6862	9.04125
12:38:11				2539	10.19526	1.104811	5.5105	1.4652	2.73504	8.99442
12:38:12				2540	10.18853	1.1057758	5.6089	1.4652	2.88156	9.00455
12:38:12				2541	10.16735	1.1062584	5.6089	1.4652	2.78388	9.01404
12:38:13				2542	10.1635	1.1060976	5.7073	1.51404	2.88156	9.01356
12:38:13				2543	10.16543	1.1054543	5.7073	1.4652	2.6862	9.00743
12:38:14				2544	10.15772	1.1052935	5.6089	1.4652	2.63736	9.00794
12:38:14				2545	10.15291	1.0999876	5.6089	1.51404	2.73504	8.96246
12:38:15				2546	10.15291	1.1003086	5.5105	1.4652	2.73504	8.96529
12:38:15				2547	10.13937	1.0988621	5.6089	1.4652	2.97924	8.95589
12:38:16				2548	10.12107	1.1006298	5.6089	1.4652	2.78388	8.97596
12:38:16				2549	10.11721	1.101756	5.7073	1.51404	2.88156	8.98681
12:38:17				2550	10.12396	1.1020772	5.7073	1.41636	2.6862	8.98798
12:38:17				2551	10.12203	1.0988622	5.6089	1.4652	2.73504	8.96017
12:38:18				2552	10.11528	1.097735	5.6089	1.51404	2.9304	8.95191
12:38:18				2553	10.11047	1.106739	5.6089	1.51404	2.97924	9.03238
12:38:19				2554	10.12107	1.1068999	5.6089	1.51404	3.07692	9.03117
12:38:19				2555	10.13359	1.1007904	5.8056	1.4652	2.83272	8.97426
12:38:20				2556	10.1307	1.1027198	5.6089	1.51404	2.83272	8.99198
12:38:20	12:37:05 end transect	5.0	270	2557	10.13166	1.099504	5.5105	1.4652	2.88156	8.96345
12:38:21	start transect			2558	10.12877	1.1027198	5.6089	1.4652	2.97924	8.99245
12:38:21				2559	10.12781	1.099825	5.7073	1.51404	2.78388	8.9672
12:38:22				2560	10.12877	1.1007904	5.7073	1.4652	2.83272	8.97546
12:38:22				2561	10.12877	1.1006298	5.7073	1.4652	2.83272	8.97405
12:38:23				2562	10.1307	1.1025591	5.7073	1.4652	2.78388	8.99055
12:38:23				2563	10.1307	1.1036839	5.6089	1.51404	2.83272	9.00046
12:38:24				2564	10.1307	1.1004692	5.6089	1.4652	2.88156	8.97217
12:38:24				2565	10.12974	1.1003087	5.6089	1.4652	3.1746	8.971
12:38:25				2566	10.12877	1.1009509	5.8056	1.4652	3.07692	8.97686
12:38:25				2567	10.12685	1.1019166	5.7073	1.51404	2.73504	8.98585
12:38:26				2568	10.1307	1.1033625	5.6089	1.4652	2.78388	8.99763
12:38:26				2569	10.1307	1.1019166	5.6089	1.4652	2.78388	8.98491
12:38:27				2570	10.13166	1.101756	5.6089	1.51404	2.83272	8.98326
12:38:27				2571	10.1307	1.1035232	5.7073	1.4652	2.9304	8.99904
12:38:28				2572	10.13166	1.1014348	5.7073	1.4652	2.78388	8.98042
12:38:28				2573	10.13166	1.101756	5.6089	1.51404	2.9304	8.98326
12:38:29				2574	10.13262	1.0996645	5.5105	1.4652	2.83272	8.96463
12:38:29				2575	10.13166	1.1019166	5.7073	1.4652	2.83272	8.98466
12:38:30				2576	10.13166	1.099504	5.7073	1.4652	2.83272	8.96343
12:38:30				2577	10.13166	1.093715	5.7073	1.51404	2.88156	8.9125
12:38:31				2578	10.13262	1.0951633	5.7073	1.4652	2.78388	8.925

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:38:31				2579	10.13166	1.0956463	5.6089	1.4652	2.73504	8.9295
12:38:32				2580	10.12877	1.1003087	5.6089	1.4652	2.83272	8.97123
12:38:32				2581	10.12685	1.1022379	5.7073	1.4652	2.88156	8.98867
12:38:33				2582	10.13455	1.0988621	5.7073	1.51404	3.12576	8.95707
12:38:33				2583	10.12877	1.099504	5.7073	1.41636	2.88156	8.96414
12:38:34				2584	10.13262	1.09436	5.6089	1.51404	2.78388	8.91795
12:38:34				2585	10.12877	1.1007904	5.7073	1.51404	2.97924	8.97546
12:38:35				2586	10.13166	1.0975745	5.7073	1.4652	2.9304	8.94645
12:38:35				2587	10.1307	1.0970934	5.7073	1.4652	2.88156	8.94246
12:38:36				2588	10.12685	1.0964499	5.5105	1.51404	2.88156	8.93777
12:38:36				2589	10.1307	1.109634	5.7073	1.51404	2.9304	9.05284
12:38:37				2590	10.14129	1.0975745	5.8056	1.41636	2.78388	8.94407
12:38:37				2591	10.1384	1.0970934	5.7073	1.51404	2.78388	8.94056
12:38:38				2592	10.12877	1.0933947	5.6089	1.51404	2.9304	8.91041
12:38:38				2593	10.12877	1.0966103	5.7073	1.4652	3.02808	8.93868
12:38:39				2594	10.13166	1.09436	5.7073	1.4652	3.1746	8.91818
12:38:39				2595	10.12974	1.1035232	5.7073	1.4652	3.02808	8.99927
12:38:40				2596	10.13262	1.1091509	5.7073	1.51404	2.88156	9.0481
12:38:40				2597	10.15002	1.1014347	5.7073	1.41636	2.78388	8.97588
12:38:41				2598	10.15387	1.099504	5.7073	1.4652	2.88156	8.95795
12:38:41				2599	10.14328	1.1073825	5.6089	1.51404	3.07692	9.0299
12:38:42				2600	10.14521	1.1093119	5.7073	1.4652	2.83272	9.04639
12:38:42				2601	10.16157	1.1117237	5.7073	1.4652	2.88156	9.06354
12:38:43				2602	10.16639	1.1007902	5.7073	1.4652	2.78388	8.96618
12:38:43				2603	10.16061	1.1009508	5.6089	1.51404	2.83272	8.96903
12:38:44				2604	10.14906	1.106578	5.6089	1.4652	2.97924	9.02139
12:38:44				2605	10.15772	1.1133334	5.7073	1.4652	2.9304	9.07867
12:38:45				2606	10.16543	1.1038445	5.7073	1.51404	2.58852	8.99327
12:38:45				2607	10.16254	1.1027197	5.7073	1.4652	2.58852	8.98409
12:38:46				2608	10.15195	1.1022378	5.6089	1.4652	2.73504	8.98248
12:38:46				2609	10.13648	1.1020772	5.7073	1.4652	2.6862	8.98488
12:38:47				2610	10.08439	1.1019168	5.7073	1.51404	2.78388	8.99635
12:38:47				2611	10.07089	1.1015956	5.7073	1.4652	2.88156	8.99686
12:38:48				2612	10.09119	1.1017561	5.7073	1.4652	2.83272	8.99325
12:38:48				2613	10.10372	1.1014349	5.7073	1.51404	2.78388	8.98732
12:38:49				2614	10.068	1.1012723	5.7073	1.4652	2.78388	8.99473
12:38:49				2615	10.04389	1.1012724	5.7073	1.4652	2.83272	9.0007
12:38:50				2616	10.05257	1.1017563	5.6089	1.4652	2.73504	9.00283
12:38:50				2617	10.0255	1.1015958	5.7073	1.51404	2.83272	9.00812
12:38:51				2618	10.01489	1.1001486	5.7073	1.4652	2.73504	8.99798
12:38:51				2619	10.04003	1.0996648	5.6089	1.4652	2.83272	8.98749
12:38:52				2620	10.03425	1.1006301	5.6089	1.51404	2.6862	8.99744
12:38:52				2621	10.01296	1.1009513	5.7073	1.4652	2.83272	9.00554
12:38:53				2622	10.00814	1.1009514	5.8056	1.4652	2.73504	9.00673
12:38:53				2623	10.01007	1.099665	5.7073	1.4652	2.83272	8.9949

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:38:54				2624	10.01875	1.0999881	5.6089	1.51404	2.78388	8.99562
12:38:54				2625	10.02068	1.1007907	5.6089	1.4652	2.6862	9.00222
12:38:55				2626	10.01489	1.1015958	5.7073	1.4652	2.73504	9.01075
12:38:55				2627	10.012	1.1004697	5.8056	1.51404	2.78388	9.00152
12:38:56				2628	10.012	1.1004697	5.7073	1.4652	2.73504	9.00153
12:38:56				2629	10.01296	1.1006302	5.6089	1.4652	3.1746	9.00272
12:38:57				2630	10.01586	1.1007908	5.6089	1.4652	2.6862	9.00342
12:38:57				2631	10.01586	1.1015958	5.7073	1.51404	2.9304	9.01051
12:38:58				2632	10.01393	1.1011119	5.8056	1.4652	2.88156	9.00671
12:38:58				2633	10.01586	1.1006302	5.7073	1.4652	2.88156	9.00199
12:38:59				2634	10.01682	1.0991835	5.6089	1.4652	2.78388	8.98899
12:38:59				2635	10.01393	1.1014352	5.6089	1.51404	2.83272	9.00959
12:39:00				2636	10.01586	1.1023989	5.8056	1.4652	2.73504	9.01759
12:39:00				2637	10.01586	1.1011119	5.7073	1.4652	2.88156	9.00624
12:39:01				2638	10.01586	1.1003091	5.7073	1.51404	2.88156	8.99915
12:39:01				2639	10.01586	1.1007908	5.6089	1.4652	2.78388	9.00342
12:39:02				2640	10.01393	1.1004697	5.6089	1.4652	2.78388	9.00106
12:39:02				2641	10.012	1.1023989	5.7073	1.51404	2.88156	9.01856
12:39:03				2642	10.01007	1.1011119	5.8056	1.4652	2.9304	9.00767
12:39:03				2643	10.012	1.1003091	5.7073	1.4652	2.9304	9.00011
12:39:04				2644	10.01296	1.0998254	5.6089	1.41636	2.83272	8.99562
12:39:05				2647	10.01411	1.0994916	5.7073	1.4652	2.88156	8.99237
12:39:06				2648	10.01411	1.0990081	5.7073	1.51404	3.07692	8.9881
12:39:06				2649	10.01604	1.0999731	5.6089	1.4652	2.73504	8.99616
12:39:07				2650	10.01797	1.101099	5.7073	1.4652	2.63736	9.0056
12:39:07				2651	10.01893	1.0998126	5.7073	1.4652	3.02808	8.99401
12:39:08				2652	10.01996	1.1002941	5.7073	1.51404	2.88156	8.99801
12:39:08				2653	10.01797	1.1006174	5.7073	1.51404	2.97924	9.00135
12:39:09				2654	10.017	1.0998126	5.6089	1.4652	2.83272	8.9945
12:39:09				2655	10.01797	1.0986871	5.6089	1.51404	2.88156	8.98433
12:39:10				2656	10.02382	1.0991685	5.7073	1.4652	3.07692	8.98711
12:39:10				2657	10.02382	1.0974017	5.7073	1.51404	3.07692	8.97152
12:39:11				2658	10.02671	1.0959544	5.5105	1.4652	3.12576	8.95807
12:39:11				2659	10.02671	1.0906479	5.6089	1.4652	3.07692	8.91125
12:39:12				2660	10.02768	1.0904879	5.6089	3.76068	2.97924	8.90961
12:39:12				2661	10.02671	1.090648	5.7073	1.4652	3.02808	8.91124
12:39:13				2662	10.02478	1.084859	5.7073	1.51404	2.97924	8.86068
12:39:13				2663	10.02189	1.0872704	5.7073	2.10012	2.97924	8.88264
12:39:14				2664	10.02478	1.084859	5.7073	1.4652	2.97924	8.86068
12:39:14				2665	10.02671	1.0718371	5.6089	1.41636	2.97924	8.74552
12:39:15				2666	10.01218	1.0776239	5.7073	1.51404	3.07692	8.79999
12:39:15				2667	10.01025	1.0774646	5.7073	1.51404	3.07692	8.79905
12:39:16				2668	10.01893	1.0776239	5.7073	1.51404	3.1746	8.79835
12:39:16				2669	10.017	1.0779468	5.7073	1.4652	3.1746	8.80166
12:39:17				2670	10.01314	1.0750527	5.6089	14.60317	3.46764	8.77712

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:39:17				2671	10.01797	1.0666922	5.6089	15.67766	3.22344	8.70234
12:39:18				2672	10.01797	1.0739281	5.7073	14.06593	3.27228	8.76603
12:39:18				2673	10.01797	1.0723205	5.7073	8.30281	3.22344	8.75187
12:39:19				2674	10.02671	1.075214	5.6089	6.05617	3.02808	8.77525
12:39:19				2675	10.02092	1.0753732	5.6089	5.61661	3.12576	8.77806
12:39:20				2676	10.01314	1.074571	5.6089	1.4652	3.02808	8.77287
12:39:20				2677	10.01507	1.0750527	5.7073	1.4652	3.07692	8.77664
12:39:21				2678	10.01604	1.0885579	5.7073	1.4652	2.97924	8.89543
12:39:21				2679	10.01797	1.0875923	5.7073	1.4652	2.97924	8.88644
12:39:22				2680	10.02285	1.0798763	5.7073	3.76068	3.12576	8.81724
12:39:22				2681	10.01893	1.0829305	5.7073	1.51404	2.88156	8.84511
12:39:23				2682	10.01893	1.0748914	5.6089	1.4652	3.02808	8.77429
12:39:23				2683	10.01893	1.0756958	5.7073	1.4652	3.12576	8.78137
12:39:24				2684	10.017	1.0782676	5.7073	1.4652	3.02808	8.80449
12:39:24				2685	10.01797	1.08068	5.7073	1.51404	2.88156	8.82551
12:39:25				2686	10.01797	1.0715149	5.7073	1.4652	3.02808	8.74478
12:39:25	12:38:10 end transect	5.0	180	2687	10.017	1.074571	5.7073	1.51404	3.07692	8.77193
12:39:26				2688	10.01604	1.0737669	5.7073	1.51404	3.07692	8.76508
12:39:26				2689	10.01604	1.0663706	5.7073	9.13309	3.07692	8.69996
12:39:27				2690	10.01604	1.0731242	5.7073	4.1514	3.12576	8.75942
12:39:27				2691	10.017	1.0710338	5.7073	1.4652	2.97924	8.74078
12:39:28				2692	10.01507	1.0728019	5.7073	1.51404	3.1746	8.75681
12:39:28				2693	10.017	1.0726407	5.7073	1.4652	3.02808	8.75493
12:39:29				2694	10.017	1.0742485	5.7073	4.1514	3.22344	8.76909
12:39:29				2695	10.01604	1.0755345	5.7073	4.68864	3.22344	8.78065
12:39:30				2696	10.01604	1.0838946	5.7073	3.51648	3.12576	8.85431
12:39:30				2697	10.01604	1.0855022	5.7073	3.02808	3.07692	8.86848
12:39:31				2698	10.01604	1.0781083	5.7073	2.49084	3.46764	8.80332
12:39:31				2699	10.01507	1.0760164	5.6089	2.24664	3.12576	8.78514
12:39:32				2700	10.01604	1.0777854	5.6089	1.4652	2.97924	8.80049
12:39:32				2701	10.01604	1.0813222	5.7073	1.4652	3.22344	8.83164
12:39:33				2702	10.01604	1.0805184	5.7073	2.88156	3.22344	8.82456
12:39:33				2703	10.01604	1.0843779	5.6089	1.4652	3.1746	8.85859
12:39:34				2704	10.01507	1.0835732	5.7073	1.4652	2.88156	8.85172
12:39:34				2705	10.01411	1.0835732	5.7073	1.4652	3.07692	8.85195
12:39:35				2706	10.01411	1.082288	5.6089	1.51404	3.02808	8.84063
12:39:35				2707	10.01314	1.0840564	5.6089	1.4652	3.02808	8.85646
12:39:36				2708	10.01411	1.0838946	5.6089	1.4652	3.07692	8.8548
12:39:36				2709	10.01314	1.0851806	5.7073	1.51404	3.02808	8.86636
12:39:37				2710	10.01314	1.0880761	5.6089	1.51404	3.02808	8.8919
12:39:37				2711	10.01314	1.0863074	5.7073	1.4652	3.12576	8.87629
12:39:38				2712	10.01314	1.0967582	5.6089	1.4652	3.07692	8.9685
12:39:38				2713	10.01797	1.0940251	5.7073	1.51404	2.97924	8.94318
12:39:39				2714	10.01893	1.0885579	5.7073	1.4652	2.88156	8.89472
12:39:39				2715	10.01893	1.101099	5.6089	1.4652	2.88156	9.00538

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:39:40				2716	10.01893	1.0999731	5.6089	1.51404	3.12576	8.99544
12:39:40				2717	10.01604	1.0946681	5.7073	1.51404	2.88156	8.94933
12:39:41				2718	10.01797	1.1020626	5.6089	1.4652	2.83272	9.01412
12:39:41				2719	10.01121	1.1041536	5.7073	1.4652	2.88156	9.03425
12:39:42				2720	9.99963	1.0975622	5.7073	1.51404	2.83272	8.97892
12:39:42				2721	10.00735	1.0999731	5.6089	1.4652	2.73504	8.99831
12:39:43				2722	10.00639	1.1027074	5.6089	1.4652	2.97924	9.02269
12:39:43				2723	10.0006	1.1046359	5.6089	1.51404	2.97924	9.04117
12:39:44				2724	9.9977	1.1028681	5.7073	1.4652	2.97924	9.02626
12:39:44				2725	9.99963	1.1059223	5.7073	1.4652	2.6862	9.05276
12:39:45				2726	9.99963	1.1041537	5.7073	1.4652	3.32112	9.03714
12:39:45				2727	10.00446	1.1068874	5.7073	1.51404	2.9304	9.06009
12:39:46				2728	10.00349	1.1150886	5.6089	1.4652	2.88156	9.13283
12:39:46				2729	10.02864	1.1099414	5.7073	1.4652	2.78388	9.08102
12:39:47				2730	10.0489	1.1083334	5.7073	1.51404	2.63736	9.06176
12:39:47				2731	10.02575	1.1076919	5.7073	1.4652	2.83272	9.06188
12:39:48				2732	10.02478	1.1065656	5.6089	1.4652	3.02808	9.05219
12:39:48				2733	10.02864	1.1084944	5.6089	1.4652	2.78388	9.06826
12:39:49				2734	10.03153	1.1072091	5.7073	1.51404	2.78388	9.05617
12:39:49				2735	10.02864	1.1109078	5.6089	1.4652	2.83272	9.08957
12:39:50				2736	10.02864	1.1142841	5.7073	1.4652	2.9304	9.11938
12:39:50				2737	10.04697	1.1091383	5.7073	1.4652	2.88156	9.06935
12:39:51				2738	10.03925	1.1088164	5.7073	1.51404	2.9304	9.06843
12:39:51				2739	10.03829	1.1120335	5.7073	1.4652	3.12576	9.09708
12:39:52				2740	10.04022	1.1091384	5.7073	1.4652	2.78388	9.07104
12:39:52				2741	10.03925	1.1076918	5.7073	1.51404	2.97924	9.05851
12:39:53				2742	10.03346	1.1146045	5.6089	1.51404	2.83272	9.12101
12:39:53				2743	10.03443	1.1138003	5.7073	1.51404	2.9304	9.11365
12:39:54				2744	10.04986	1.1101023	5.7073	1.4652	2.63736	9.07713
12:39:54				2745	10.03539	1.1099413	5.6089	1.51404	2.6862	9.07934
12:39:55				2746	10.03732	1.1131575	5.6089	1.4652	2.88156	9.10726
12:39:55				2747	10.04697	1.1104245	5.7073	1.4652	2.78388	9.0807
12:39:56				2748	10.0489	1.1110667	5.7073	1.51404	2.6862	9.08589
12:39:56				2749	10.04407	1.1113889	5.7073	1.4652	2.73504	9.08994
12:39:57				2750	10.05854	1.1117111	5.6089	1.4652	2.73504	9.08918
12:39:57				2751	10.05854	1.1118723	5.7073	1.4652	2.73504	9.09059
12:39:58				2752	10.05661	1.1105855	5.7073	1.51404	2.73504	9.07971
12:39:58				2753	10.05082	1.1092993	5.7073	1.51404	2.78388	9.06981
12:39:59				2754	10.03636	1.1096214	5.7073	1.4652	2.73504	9.07626
12:39:59				2755	10.03153	1.1112279	5.7073	1.51404	2.83272	9.09166
12:40:00				2756	10.02864	1.1091384	5.6089	1.51404	2.6862	9.07394
12:40:00				2757	10.02864	1.1092994	5.6089	1.4652	2.63736	9.07536
12:40:01				2758	10.03346	1.11348	5.7073	1.51404	3.4188	9.11107
12:40:01				2759	10.04118	1.1131575	5.7073	1.51404	2.78388	9.10628
12:40:02				2760	10.05082	1.1099413	5.7073	1.4652	2.63736	9.07547

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:40:02				2761	10.03925	1.1086554	5.6089	1.4652	2.53968	9.06703
12:40:03				2762	10.03829	1.1102634	5.6089	1.51404	2.6862	9.08146
12:40:03				2763	10.04022	1.1107467	5.7073	1.51404	2.88156	9.08524
12:40:04				2764	10.046	1.1094604	5.7073	1.4652	2.6862	9.07243
12:40:05				2767	10.04208	1.1099585	5.7073	1.4652	2.53968	9.07781
12:40:06				2768	10.04112	1.1083506	5.7073	1.41636	2.63736	9.06386
12:40:06				2769	10.04305	1.1077068	5.6089	1.51404	2.6862	9.0577
12:40:07				2770	10.03437	1.1064197	5.7073	1.51404	2.58852	9.04849
12:40:07				2771	10.02659	1.1064198	5.7073	1.4652	2.58852	9.05043
12:40:08				2772	10.02177	1.1062589	5.7073	1.4652	2.73504	9.05022
12:40:08				2773	10.02466	1.102883	5.6089	1.4652	2.97924	9.0197
12:40:09				2774	10.02177	1.103365	5.7073	1.51404	2.83272	9.02466
12:40:09				2775	10.01887	1.1043294	5.7073	1.41636	2.9304	9.0339
12:40:10				2776	10.01887	1.1001507	5.7073	1.51404	2.88156	8.99701
12:40:10				2777	10.00536	1.1001508	5.7073	1.51404	2.78388	9.00036
12:40:11				2778	9.99378	1.1009535	5.7073	1.4652	2.78388	9.01032
12:40:11				2779	9.99571	1.1017586	5.7073	1.4652	2.53968	9.01696
12:40:12				2780	10.0015	1.0999881	5.7073	1.4652	2.73504	8.99988
12:40:12				2781	9.99571	1.1003113	5.7073	1.51404	2.58852	9.00417
12:40:13				2782	9.99185	1.100793	5.7073	1.41636	2.63736	9.00938
12:40:13				2783	9.99282	1.1001508	5.7073	1.4652	2.73504	9.00347
12:40:14				2784	9.99282	1.0999882	5.7073	1.51404	2.6862	9.00204
12:40:14	12:38:59 no flow			2785	9.99475	1.0998277	5.7073	1.4652	2.6862	9.00014
12:40:15				2786	9.99282	1.1006324	5.7073	1.4652	2.78388	9.00773
12:40:15				2787	9.99378	1.1001508	5.6089	1.4652	2.88156	9.00325
12:40:16				2788	9.99089	1.1003113	5.5105	1.51404	2.88156	9.0054
12:40:16				2789	9.98896	1.0999882	5.7073	1.41636	2.97924	9.00299
12:40:17				2790	9.98992	1.0996672	5.7073	1.4652	2.63736	8.99992
12:40:17				2791	9.99089	1.0998277	5.7073	1.51404	3.02808	9.0011
12:40:18				2792	9.98896	1.0996672	5.7073	1.4652	2.9304	9.00016
12:40:18				2793	9.98703	1.0998277	5.7073	1.4652	2.73504	9.00206
12:40:19				2794	9.98799	1.0993462	5.7073	1.4652	2.78388	8.99756
12:40:19				2795	9.98896	1.0995067	5.7073	1.51404	2.83272	8.99874
12:40:20				2796	9.99089	1.0990253	5.7073	1.4652	2.63736	8.99401
12:40:20				2797	9.98799	1.0988627	5.6089	1.51404	2.78388	8.9933
12:40:21				2798	9.98896	1.0982209	5.7073	1.51404	2.78388	8.98738
12:40:21				2799	9.98896	1.0982209	5.7073	1.51404	2.73504	8.98738
12:40:22				2800	9.98992	1.0985418	5.8056	1.4652	2.63736	8.98997
12:40:22				2801	9.98992	1.0985418	5.7073	1.4652	2.63736	8.98998
12:40:23				2802	9.99089	1.0975772	5.6089	1.51404	2.73504	8.98123
12:40:23				2803	9.99185	1.0972564	5.7073	1.4652	2.88156	8.97815
12:40:24				2804	9.98799	1.0974168	5.8056	1.4652	2.73504	8.98051
12:40:24				2805	9.98703	1.0969336	5.7073	1.51404	2.63736	8.97649
12:40:25				2806	9.98896	1.0967732	5.7073	1.4652	2.73504	8.9746
12:40:25				2807	9.98703	1.0964526	5.7073	1.51404	2.6862	8.97224

**Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:40:26				2808	9.98799	1.0950036	5.7073	1.4652	2.58852	8.95921
12:40:26				2809	9.98413	1.0961298	5.7073	1.51404	2.83272	8.97011
12:40:27				2810	9.9822	1.0962901	5.7073	1.4652	2.78388	8.972
12:40:27				2811	9.9851	1.0959695	5.7073	1.4652	2.73504	8.96845
12:40:28				2812	9.9851	1.0959695	5.6089	1.51404	2.6862	8.96847
12:40:28				2813	9.98413	1.0950036	5.7073	1.4652	2.78388	8.96016
12:40:29				2814	9.9822	1.095166	5.7073	1.4652	3.07692	8.96207
12:40:29				2815	9.98123	1.0954865	5.7073	1.4652	2.73504	8.96514
12:40:30				2816	9.98123	1.0958092	5.7073	1.51404	2.97924	8.96799
12:40:30				2817	9.9822	1.0962901	5.7073	1.51404	2.6862	8.972
12:40:31				2818	9.98413	1.0962901	5.6089	1.4652	2.97924	8.97154
12:40:31				2819	9.98123	1.0962901	5.7073	1.51404	3.02808	8.97224
12:40:32				2820	9.9822	1.0959695	5.7073	1.4652	2.83272	8.96917
12:40:32				2821	9.9822	1.0961298	5.7073	1.51404	2.73504	8.97059
12:40:33				2822	9.98316	1.0958092	5.7073	1.4652	2.73504	8.96752
12:40:33	12:39:18 start flow			2823	9.98123	1.0962901	5.7073	1.51404	2.6862	8.97224
12:40:34				2824	9.98316	1.0959695	5.7073	1.51404	2.83272	8.96893
12:40:34				2825	9.9822	1.095166	5.7073	1.4652	2.78388	8.96207
12:40:35				2826	9.98123	1.095166	5.7073	1.51404	2.83272	8.96231
12:40:35				2827	9.98027	1.0953263	5.7073	1.4652	2.63736	8.96397
12:40:36				2828	9.98027	1.095166	5.7073	1.51404	2.63736	8.96255
12:40:36				2829	9.9793	1.0945229	5.7073	1.4652	2.78388	8.95711
12:40:37				2830	9.98123	1.0948434	5.6089	1.4652	2.88156	8.95948
12:40:37				2831	9.98027	1.095166	5.7073	1.4652	2.73504	8.96255
12:40:38				2832	9.98027	1.0946831	5.7073	1.51404	2.63736	8.95829
12:40:38				2833	9.98123	1.0948434	5.7073	1.4652	3.07692	8.95946
12:40:39				2834	9.9822	1.0946831	5.7073	1.4652	2.97924	8.95781
12:40:39				2835	9.98027	1.0948434	5.7073	1.51404	2.78388	8.9597
12:40:40				2836	9.98123	1.095166	5.7073	1.4652	2.78388	8.96231
12:40:40				2837	9.98316	1.0950036	5.6089	1.4652	2.73504	8.96041
12:40:41				2838	9.9822	1.0948434	5.7073	1.51404	2.83272	8.95922
12:40:41				2839	9.9822	1.0943606	5.7073	1.51404	2.83272	8.95496
12:40:42				2840	9.98413	1.0868039	5.4121	1.4652	2.78388	8.88781
12:40:42				2841	9.98413	1.0593117	5.0186	1.4652	3.07692	8.64554
12:40:43				2842	9.98606	1.0636528	4.9202	1.51404	3.12576	8.68331
12:40:43				2843	9.98413	1.0589908	4.8218	1.51404	3.22344	8.64274
12:40:44				2844	9.9851	1.0596347	5.0186	1.4652	3.12576	8.64815
12:40:44				2845	9.98413	1.0609206	4.9202	1.51404	3.07692	8.65972
12:40:45				2846	9.98992	1.0607601	4.7234	1.51404	2.97924	8.65695
12:40:45				2847	10.00054	1.0604369	4.5267	1.51404	3.12576	8.6516
12:40:46				2848	10.00343	1.0551328	4.4283	1.4652	3.1746	8.60425
12:40:46				2849	10.00247	1.0485427	4.4283	1.51404	3.22344	8.54653
12:40:47				2850	10.0208	1.0511138	4.5267	7.03297	3.32112	8.5648
12:40:47				2851	10.02755	1.0514358	4.5267	9.52381	3.36996	8.56603
12:40:48				2852	10.02563	1.0499878	4.4283	5.47009	3.1746	8.55378

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:40:48				2853	10.02659	1.0514358	4.4283	8.84005	3.22344	8.56627
12:40:49				2854	10.02852	1.0506317	4.4283	10.10989	3.36996	8.55875
12:40:49				2855	10.02948	1.0512737	4.4283	8.79121	3.1746	8.56416
12:40:50				2856	10.02755	1.0512737	4.5267	6.39805	3.1746	8.56461
12:40:50				2857	10.02466	1.0511137	4.5267	3.51648	3.07692	8.56388
12:40:51				2858	10.02466	1.0509538	4.5267	3.12576	3.1746	8.56248
12:40:51				2859	10.02563	1.0507917	4.6251	3.85836	3.1746	8.56081
12:40:52				2860	10.02563	1.0589906	4.5267	3.71184	3.22344	8.6329
12:40:52				2861	10.0237	1.0607599	4.5267	6.10501	2.97924	8.64892
12:40:53				2862	10.01791	1.0588303	4.5267	8.79121	3.07692	8.63332
12:40:53				2863	10.01791	1.0573828	4.5267	10.54945	3.4188	8.62059
12:40:54				2864	10.01791	1.0554532	4.5267	11.13553	3.27228	8.60363
12:40:54				2865	10.01115	1.0522381	4.5267	9.91453	3.02808	8.57696
12:40:55				2866	10.01212	1.052078	4.5267	7.17949	3.12576	8.57532
12:40:55	12:39:40 start transect	5.0	180	2867	10.01598	1.0453267	4.5267	6.49573	3.27228	8.51508
12:40:56				2868	10.0044	1.049828	4.5267	5.17705	3.07692	8.55736
12:40:56				2869	10.00054	1.0507918	4.6251	2.58852	3.02808	8.56674
12:40:57				2870	10.00247	1.0522381	4.6251	2.39316	3.07692	8.579
12:40:57				2871	10.00826	1.0524002	4.5267	3.46764	2.97924	8.57907
12:40:58				2872	10.00633	1.0543298	4.4283	4.05372	3.1746	8.5965
12:40:58				2873	10.00343	1.0565792	4.5267	4.78632	3.61416	8.61696
12:40:59				2874	10.0015	1.0549727	4.6251	4.98168	3.1746	8.60328
12:40:59				2875	10.00247	1.0533649	4.6251	4.3956	3.22344	8.58891
12:41:00				2876	10.00054	1.0528825	4.5267	3.9072	3.07692	8.58513
12:41:00				2877	9.99861	1.0493462	4.4283	5.03053	3.22344	8.55451
12:41:01				2878	9.99764	1.0501499	4.5267	4.73748	3.32112	8.56179
12:41:01				2879	9.99957	1.0509539	4.6251	3.61416	3.1746	8.56839
12:41:02				2880	9.99861	1.049828	4.6251	2.83272	3.1746	8.55872
12:41:02				2881	9.99571	1.049666	4.5267	2.58852	3.1746	8.55799
12:41:03				2882	9.99282	1.0487026	4.4283	3.12576	3.27228	8.55021
12:41:03				2883	9.99378	1.048221	4.5267	4.59096	3.36996	8.54574
12:41:04				2884	9.99571	1.0469343	4.5267	4.93284	3.12576	8.53397
12:41:05				2887	9.99288	1.0430694	4.5267	4.24908	3.12576	8.50066
12:41:06				2888	9.99288	1.0456419	4.5267	4.1514	3.32112	8.52327
12:41:06				2889	9.98709	1.0461231	4.5267	3.85836	3.1746	8.52887
12:41:07				2890	9.98612	1.0427483	4.5267	3.76068	3.07692	8.49942
12:41:07				2891	9.98516	1.0453205	4.6251	3.56532	3.4188	8.52225
12:41:08				2892	9.98033	1.0429099	4.5267	3.32112	3.1746	8.5022
12:41:08				2893	9.97454	1.0453206	4.6251	3.4188	3.12576	8.52475
12:41:09				2894	9.97936	1.0413004	4.5267	3.80952	3.07692	8.48828
12:41:09				2895	9.97647	1.0435523	4.5267	3.71184	3.22344	8.50875
12:41:10				2896	9.97647	1.047893	4.5267	3.9072	3.1746	8.54693
12:41:10				2897	9.9755	1.0472497	4.5267	3.51648	3.46764	8.5415
12:41:11				2898	9.97357	1.0454802	4.6251	3.12576	3.32112	8.52638
12:41:11				2899	9.97454	1.0459635	4.5267	2.39316	3.27228	8.53041

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:41:12				2900	9.97936	1.045642	4.5267	2.05128	3.1746	8.52645
12:41:12				2901	9.97647	1.0509476	4.5267	2.1978	3.12576	8.57381
12:41:13				2902	9.97164	1.046285	4.6251	1.4652	3.27228	8.53391
12:41:13				2903	9.97067	1.0458017	4.6251	1.51404	3.12576	8.52989
12:41:14				2904	9.97261	1.0446778	4.5267	1.51404	3.07692	8.51956
12:41:14				2905	9.97647	1.0430694	4.4283	1.4652	3.12576	8.50452
12:41:15				2906	9.97743	1.0453205	4.2315	1.4652	3.22344	8.52412
12:41:15				2907	9.98419	1.0448373	3.9364	1.4652	3.07692	8.51832
12:41:16				2908	9.99384	1.0403376	3.838	9.57265	3.36996	8.47652
12:41:16				2909	9.99577	1.0400146	3.838	7.66789	3.32112	8.47323
12:41:17				2910	9.9977	1.0414618	3.838	7.81441	3.12576	8.48549
12:41:17				2911	10.00162	1.0377655	3.6412	9.08425	3.12576	8.45213
12:41:18				2912	10.0132	1.0167086	3.4445	11.28205	3.27228	8.26476
12:41:18				2913	10.01127	0.982795	3.4445	25.44567	3.76068	7.96846
12:41:19				2914	10.01513	1.032139	3.4445	22.8083	3.663	8.39963
12:41:19				2915	10.02092	1.0099573	3.4445	22.85714	3.663	8.20387
12:41:20				2916	10.0161	1.0035285	3.4445	21.63614	3.56532	8.14868
12:41:20				2917	10.0161	1.0252278	3.4445	20.46398	3.56532	8.33878
12:41:21				2918	10.0132	1.027799	3.4445	22.61294	3.56532	8.362
12:41:21				2919	10.01127	1.0089926	3.4445	22.41758	3.56532	8.1976
12:41:22				2920	10.01031	1.0191181	3.4445	23.5409	3.56532	8.28654
12:41:22				2921	10.01031	1.0197613	3.4445	24.66422	3.76068	8.29218
12:41:23				2922	10.01031	1.0151014	3.4445	28.42491	3.85836	8.25133
12:41:23				2923	10.00934	1.0035285	3.5428	31.35531	3.85836	8.15018
12:41:24				2924	10.00838	1.0038494	3.4445	31.20879	4.05372	8.15322
12:41:24				2925	10.00259	0.9946887	3.4445	28.91331	4.05372	8.07435
12:41:25				2926	10.00066	0.9395681	3.4445	27.15507	4.20024	7.59382
12:41:25				2927	9.9977	0.9479252	3.4445	33.35775	4.1514	7.66721
12:41:26				2928	10.00355	0.950978	3.4445	28.52259	4.73748	7.69256
12:41:26				2929	10.0296	0.9185202	3.4445	28.62027	4.78632	7.40494
12:41:27				2930	9.99674	0.8977966	3.4445	30.28083	4.3956	7.23184
12:41:27				2931	9.85266	0.535049	3.3461	23.0525	6.00733	4.16875
12:41:28				2932	9.76543	0.6333734	3.4445	10.01221	9.37729	5.00493
12:41:28				2933	9.67913	0.5507648	3.4445	13.87057	7.91209	4.32034
12:41:29				2934	9.6393	0.5462738	3.4445	12.21001	7.91209	4.28743
12:41:29				2935	9.66549	0.5539724	3.4445	7.32601	8.10745	4.34887
12:41:30				2936	9.64512	0.5236633	3.4445	8.88889	8.30281	4.0975
12:41:30				2937	9.58585	0.5276732	3.4445	6.00733	9.13309	4.1378
12:41:31				2938	9.54597	0.5308805	3.4445	4.54212	8.93773	4.16927
12:41:31				2939	9.54014	0.54467	3.4445	1.51404	10.06105	4.28575
12:41:32				2940	9.52848	0.5414628	3.4445	1.56288	10.06105	4.26017
12:41:32				2941	9.45932	0.583323	3.4445	1.51404	10.89133	4.62197
12:41:33				2942	9.47397	0.5552549	3.4445	1.4652	11.18437	4.38284
12:41:33				2943	9.46029	0.5153274	3.4445	1.51404	12.89377	4.04859
12:41:34				2944	9.45445	0.4964087	3.4445	1.51404	11.23321	3.89079

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:41:34				2945	9.44472	0.4752477	3.4445	1.4652	10.98901	3.71513
12:41:35				2946	9.45251	0.4863083	3.4445	1.4652	11.42857	3.80659
12:41:35				2947	9.4418	0.4664316	3.4445	1.4652	11.47741	3.64199
12:41:36				2948	9.40962	0.4298884	3.3461	1.51404	11.13553	3.34176
12:41:36				2949	9.37262	0.4489603	3.4445	1.4652	12.25885	3.5035
12:41:37				2950	9.36281	0.3899907	3.4445	1.51404	12.40537	3.01663
12:41:37				2951	9.2652	0.3207939	3.3461	1.51404	12.89377	2.45814
12:41:38				2952	9.20071	0.5384174	3.3461	1.4652	13.13797	4.27336
12:41:38				2953	9.22122	0.4346975	3.4445	1.4652	13.18681	3.39934
12:41:39				2954	9.28867	0.394317	3.5428	1.4652	11.13553	3.05852
12:41:39				2955	9.18997	0.3798974	3.3461	1.51404	11.18437	2.94782
12:41:40				2956	9.26422	0.5101956	3.3461	1.4652	12.84493	4.02747
12:41:40				2957	9.25739	0.4103388	3.4445	1.4652	12.74725	3.1937
12:41:41				2958	9.25446	0.4455951	3.4445	1.51404	12.35653	3.48696
12:41:41				2959	9.26325	0.4927216	3.4445	1.4652	12.55189	3.88053
12:41:42				2960	9.38138	0.6460487	3.4445	1.4652	12.89377	5.16698
12:41:42				2961	9.46515	0.4832623	3.5428	1.4652	12.01465	3.77983
12:41:43				2962	9.45932	0.4050513	3.4445	1.51404	11.91697	3.1323
12:41:43				2963	9.33553	0.3669218	3.4445	1.4652	12.40537	2.82944
12:41:44				2964	9.28282	0.7251695	3.3461	1.4652	13.04029	5.8642
12:41:44				2965	9.30622	0.645729	3.4445	1.51404	13.87057	5.17506
12:41:45				2966	9.33456	0.6041765	3.5428	1.51404	11.57509	4.8156
12:41:45				2967	9.33845	0.3795777	3.5428	1.4652	10.50061	2.93304
12:41:46				2968	9.22616	0.4457559	3.3461	1.4652	10.74481	3.49106
12:41:46				2969	9.15083	0.4720418	3.3461	1.51404	12.06349	3.7187
12:41:47				2970	9.23787	0.866795	3.4445	1.4652	13.04029	7.11166
12:41:47				2971	9.53625	0.5892576	3.5428	1.51404	10.30525	4.66231
12:41:48				2972	9.4564	0.5701709	3.4445	1.4652	10.30525	4.511
12:41:48				2973	9.2652	0.7502109	3.3461	4.78632	9.91453	6.08474
12:41:49				2974	9.6393	1.029889	3.2477	1.56288	10.69597	8.46742
12:41:49				2975	10.66588	0.9991866	3.4445	1.4652	10.69597	7.96755
12:41:50				2976	11.07497	0.9458312	3.4445	1.4652	10.64713	7.42722
12:41:50				2977	11.09207	0.9802202	3.3461	1.51404	10.69597	7.71492
12:41:51				2978	11.08257	0.9699364	3.3461	200	4.93284	7.62972
12:41:51				2979	11.18993	1.0112401	3.4445	200	4.68864	7.95724
12:41:52				2980	11.15762	0.9988626	3.4445	200	4.884	7.85918
12:41:52				2981	11.08162	0.7730052	3.4445	200	4.83516	5.97765
12:41:53				2982	10.6974	0.8023886	3.4445	200	4.93284	6.2872
12:41:53				2983	10.39651	0.7359215	3.4445	200	5.66545	5.77709
12:41:54				2984	10.18492	0.8473572	3.4445	167.61905	6.78877	6.7607
12:41:54				2985	10.43973	0.9080766	3.4445	152.72283	6.78877	7.23249
12:41:55				2986	10.67639	0.7502075	3.5428	200	5.12821	5.85262
12:41:55				2987	10.29371	0.7550256	3.4445	195.40904	5.27473	5.9549
12:41:56				2988	10.19262	0.8128293	3.3461	115.79976	7.42369	6.46373
12:41:56				2989	10.37636	0.910326	3.4445	115.75092	7.42369	7.26436

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:41:57				2990	10.37636	0.8586006	3.4445	93.08913	9.37729	6.8213
12:41:57				2991	10.57491	0.8298494	3.4445	93.08913	9.42613	6.54048
12:41:58				2992	10.55672	0.8529786	3.4445	164.6398	6.73993	6.73998
12:41:58				2993	10.73853	1.0347077	3.4445	97.04518	9.23077	8.25695
12:41:59				2994	10.86168	0.9932397	3.4445	96.99634	9.23077	7.8744
12:41:59				2995	10.98271	0.9119307	3.4445	97.04518	9.23077	7.15891
12:42:00				2996	10.69836	1.0252255	3.4445	200	5.90965	8.18434
12:42:00				2997	10.82826	1.0152587	3.4445	200	5.17705	8.07003
12:42:01				2998	10.89979	0.967204	3.4445	200	5.17705	7.64433
12:42:01				2999	10.8397	1.02442	3.4445	181.92918	6.59341	8.14603
12:42:02				3000	11.0236	1.0345456	3.4445	164.3956	7.42369	8.19189
12:42:02				3001	11.25729	0.9638298	3.4445	142.17338	7.61905	7.54229
12:42:03				3002	11.11296	0.9275147	3.4445	162.63736	7.03297	7.26501
12:42:03				3003	10.79584	0.8844605	3.3461	112.72283	8.54701	6.96239
12:42:04				3004	10.85596	0.9564379	3.4445	112.72283	8.49817	7.56172
12:42:05				3007	10.00277	0.8022506	3.2477	143.68742	7.71673	6.40677
12:42:06				3008	10.162	1.0445405	3.4445	98.80342	9.57265	8.47419
12:42:06				3009	10.64025	0.7622674	3.5428	98.80342	9.57265	5.95952
12:42:07				3010	10.37084	0.7717413	3.4445	98.80342	9.57265	6.08367
12:42:07	12:40:52 big hits	5.0	240	3011	9.9796	1.0154465	3.3461	114.92063	8.54701	8.26136
12:42:08				3012	10.29587	1.0477551	3.4445	114.92063	8.49817	8.47113
12:42:08				3013	10.95244	0.944569	3.5428	67.20391	10.50061	7.44119
12:42:09				3014	10.9591	0.9723696	3.5428	67.20391	10.50061	7.67595
12:42:09				3015	10.91722	0.9145239	3.4445	200	5.07937	7.19359
12:42:10				3016	10.93055	0.8883364	3.4445	198.5348	5.90965	6.96966
12:42:10				3017	10.65847	0.8931569	3.4445	200	5.22589	7.06241
12:42:11				3018	10.67471	0.9008678	3.5428	200	5.90965	7.12487
12:42:11				3019	10.63547	0.8836789	3.5428	146.95971	6.73993	6.98618
12:42:12				3020	10.51765	0.8089927	3.4445	136.80098	7.42369	6.37396
12:42:12				3021	10.29203	0.6860204	3.4445	159.46276	7.08181	5.37343
12:42:13				3022	9.8955	0.9943898	3.4445	133.62637	7.81441	8.09562
12:42:13				3023	10.40736	0.983139	3.5428	41.07448	9.91453	7.88521
12:42:14				3024	10.77891	0.8907456	3.5428	91.13553	6.69109	7.01884
12:42:14				3025	10.6814	0.8957273	3.5428	91.08669	6.69109	7.07984
12:42:15				3026	10.74067	0.6059534	3.4445	200	4.49328	4.64751
12:42:15				3027	10.30067	0.6495935	3.4445	180.95238	6.93529	5.06713
12:42:16				3028	10.06463	0.7593792	3.4445	118.97436	9.18193	6.02957
12:42:16				3029	9.92836	0.794703	3.5428	164.24908	7.47253	6.35504
12:42:17				3030	9.9545	0.7344947	3.5428	162.78388	6.88645	5.83546
12:42:17				3031	9.87418	0.7203693	3.5428	134.11477	7.66789	5.72783
12:42:18				3032	9.69779	0.547731	3.5428	108.81563	8.35165	4.2927
12:42:18				3033	9.42155	0.3986533	3.4445	95.2381	8.64469	3.08292
12:42:19				3034	9.35039	0.8398306	3.5428	95.2381	8.64469	6.85252
12:42:19				3035	9.53358	0.5608819	3.6412	10.45177	8.49817	4.42299
12:42:20				3036	9.4547	0.5246397	3.5428	3.36996	7.57021	4.12738

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:42:20				3037	9.30842	0.4601917	3.4445	5.61661	10.25641	3.6034
12:42:21				3038	9.31914	0.934933	3.5428	1.51404	11.72161	7.69752
12:42:21				3039	9.67252	0.8097981	3.838	1.51404	11.72161	6.53079
12:42:22				3040	9.74534	0.6401287	3.7396	1.4652	11.67277	5.06489
12:42:22				3041	9.49464	0.5280083	3.4445	28.42491	7.22833	4.15109
12:42:23				3042	9.44399	0.9424856	3.5428	4.6398	11.13553	7.73755
12:42:23				3043	9.74534	0.7434869	3.7396	35.16484	7.76557	5.94637
12:42:24				3044	9.73365	0.7137899	3.6412	61.00122	5.03053	5.6938
12:42:24				3045	9.67931	0.9183828	3.6412	26.32479	7.47253	7.47571
12:42:25				3046	9.67931	0.869706	3.6412	17.53358	7.81441	7.05025
12:42:25				3047	9.76374	0.7372251	3.6412	18.46154	6.88645	5.88966
12:42:26				3048	9.63469	0.8788619	3.5428	14.60317	7.81441	7.13895
12:42:26				3049	9.7259	0.9763906	3.7396	6.59341	8.64469	7.9751
12:42:27				3050	9.97188	0.8342089	3.838	15.53114	5.95849	6.68704
12:42:27				3051	9.9042	0.7526355	3.6412	42.05128	4.68864	5.99855
12:42:28				3052	9.67834	0.7478201	3.4445	20.07326	6.30037	5.9947
12:42:28				3053	9.68907	0.9241671	3.6412	4.00488	10.79365	7.52437
12:42:29				3054	9.84903	0.8019292	3.7396	8.25397	7.86325	6.43117
12:42:29				3055	9.77536	0.800966	3.7396	33.21123	5.22589	6.43597
12:42:30				3056	9.69004	0.9428047	3.6412	20.75702	5.90965	7.68767
12:42:30				3057	9.81221	0.9003881	3.5428	7.76557	7.08181	7.29133
12:42:31				3058	9.82188	0.937341	3.5428	4.24908	7.47253	7.6119
12:42:31				3059	9.9574	0.9763898	3.6412	89.86569	6.15385	7.92426
12:42:32				3060	10.09258	0.8831975	3.838	89.86569	6.20269	7.08663
12:42:32				3061	10.0627	0.8589426	3.6412	98.75458	4.3956	6.88321
12:42:33				3062	9.81317	0.769975	3.4445	127.61905	5.03053	6.16251
12:42:33				3063	9.95353	0.9489114	3.5428	110.28083	6.64225	7.68514
12:42:34				3064	10.21403	0.9228791	3.7396	158.38828	6.20269	7.40509
12:42:34				3065	10.25352	0.8833573	3.6412	173.77289	4.59096	7.05676
12:42:35				3066	10.36508	0.9238434	3.5428	196.14164	4.24908	7.3828
12:42:35				3067	10.43326	0.977192	3.5428	200	4.44444	7.82829
12:42:36				3068	10.59243	0.9614435	3.6412	200	4.20024	7.65908
12:42:36				3069	10.63547	0.9633706	3.6412	182.22222	3.56532	7.66661
12:42:37				3070	10.58573	1.0041933	3.6412	200	3.46764	8.02809
12:42:37				3071	10.66038	1.0021025	3.7396	200	3.4188	7.99378
12:42:38				3072	10.78463	0.9624074	3.7396	200	3.51648	7.6273
12:42:38				3073	10.777	0.9839414	3.6412	200	3.663	7.81294
12:42:39				3074	10.80466	0.9882799	3.6412	200	3.80952	7.84416
12:42:39				3075	10.83327	1.0014586	3.6412	200	3.61416	7.95075
12:42:40				3076	10.86287	1.0159239	3.7396	200	3.61416	8.0681
12:42:40				3077	10.8924	1.0032276	3.7396	200	3.76068	7.95309
12:42:41		5.0	240	3078	10.86668	1.0024226	3.7396	200	3.36996	7.95177
12:42:41				3079	10.83422	0.9779947	3.6412	200	3.51648	7.75001
12:42:42				3080	10.83809	1.0501638	3.7396	200	4.20024	8.36731
12:42:42				3081	10.70242	0.9903708	3.7396	200	3.85836	7.88394

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:42:43				3082	10.72253	0.9900493	3.6412	200	3.56532	7.87687
12:42:43				3083	10.72444	0.9786371	3.5428	200	3.80952	7.7787
12:42:44				3084	10.72922	1.0467888	3.7396	192.57631	4.54212	8.36304
12:42:44				3085	10.55888	0.9704413	3.838	164.54212	3.663	7.74338
12:42:45				3086	10.64312	0.9659425	3.7396	182.51526	3.76068	7.68704
12:42:45				3087	10.69096	0.9627279	3.5428	200	4.34676	7.64954
12:42:46				3088	10.6173	1.003067	3.6412	174.50549	4.884	8.01149
12:42:46				3089	10.5359	1.0024236	3.7396	188.86447	4.10256	8.02374
12:42:47				3090	10.37276	0.9783182	3.7396	174.89621	4.00488	7.85097
12:42:47				3091	10.42942	0.9704417	3.7396	152.57631	3.85836	7.77084
12:42:48				3092	10.39291	0.9624086	3.5428	158.38828	4.1514	7.70929
12:42:48				3093	10.367	0.9804073	3.5428	127.42369	4.93284	7.8703
12:42:49				3094	10.39195	0.9791203	3.7396	120.09768	5.07937	7.85378
12:42:49				3095	10.37372	0.9363756	3.7396	101.8315	3.85836	7.48887
12:42:50				3096	10.25736	0.9379823	3.6412	112.67399	4.05372	7.52669
12:42:50				3097	10.22749	0.9625682	3.5428	98.36386	4.44444	7.74572
12:42:51				3098	10.37372	1.0170506	3.6412	98.36386	4.49328	8.18625
12:42:51				3099	10.53207	1.0414852	3.838	72.77167	4.98168	8.36218
12:42:52				3100	10.53112	0.9482664	3.7396	72.82051	4.98168	7.55872
12:42:52				3101	10.47933	0.9672279	3.6412	112.67399	3.46764	7.73257
12:42:53				3102	10.34876	0.9877997	3.6412	127.81441	4.34676	7.93822
12:42:53				3103	10.40154	0.9709246	3.7396	111.59951	5.03053	7.78094
12:42:54				3104	10.4323	0.9432844	3.7396	45.42125	5.90965	7.53629
12:42:54				3105	10.36892	0.9436066	3.6412	75.31136	5.07937	7.55216
12:42:55				3106	10.3622	1.0356971	3.7396	67.15507	5.66545	8.35081
12:42:55				3107	10.51861	0.9383029	3.838	87.66789	5.71429	7.47578
12:42:56				3108	10.44093	0.9392675	3.6412	180.90354	4.1514	7.49998
12:42:56				3109	10.36892	0.9762286	3.5428	101.24542	5.86081	7.83376
12:42:57				3110	10.46304	1.0323215	3.7396	101.19658	5.86081	8.29853
12:42:57				3111	10.54548	0.9971209	3.6412	101.24542	5.86081	7.97593
12:42:58				3112	10.54548	1.0085326	3.7396	169.96337	4.54212	8.07435
12:42:58				3113	10.5119	1.0234807	3.7396	135.53114	5.22589	8.21095
12:42:59				3114	10.44284	1.0054778	3.7396	133.33333	4.884	8.0706
12:42:59	12:41:44 out of dye			3115	10.42079	0.9759066	3.6412	130.98901	5.03053	7.81985
12:43:00	moving to 270 ?			3116	10.42654	1.0154451	3.6412	128.59585	5.12821	8.16051
12:43:00				3117	10.39579	1.0371441	3.7396	102.61294	4.49328	8.3557
12:43:01				3118	10.37276	0.987318	3.838	102.51526	4.49328	7.92881
12:43:01				3119	10.35644	0.9058497	3.7396	86.25153	3.663	7.22984
12:43:02				3120	10.20248	0.8398283	3.6412	76.38584	4.78632	6.6929
12:43:02				3121	10.22948	0.95598	3.838	57.48474	8.44933	7.68818
12:43:03				3122	10.22749	0.9509997	3.838	77.70452	7.76557	7.64547
12:43:03				3123	10.22851	0.9980867	3.838	77.70452	7.76557	8.05383
12:43:04				3124	10.26217	0.8926753	3.838	107.05739	6.83761	7.13516
12:43:05				3127	9.86034	0.637539	3.7396	49.57265	8.10745	5.02696
12:43:06				3128	9.75375	0.5783437	3.838	48.64469	8.54701	4.54256

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(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:43:06				3129	9.64894	0.5799485	3.838	47.52137	8.74237	4.56927
12:43:07				3130	9.67998	0.7818323	3.838	49.27961	8.49817	6.28755
12:43:07				3131	9.82642	0.6876043	3.838	36.337	10.01221	5.45612
12:43:08				3132	9.73141	0.5167636	3.838	26.03175	10.74481	4.03024
12:43:08				3133	9.58088	0.4983271	3.838	19.48718	10.98901	3.89314
12:43:09				3134	9.39593	0.6835929	3.7396	16.16606	11.13553	5.4871
12:43:09				3135	9.35691	0.7778192	3.838	5.03053	12.40537	6.30925
12:43:10				3136	9.53716	0.5560509	3.838	1.4652	12.45421	4.38184
12:43:10				3137	9.35496	0.5836386	3.838	6.30037	11.52625	4.63805
12:43:11				3138	9.4339	0.9863251	3.838	9.96337	11.62393	8.12817
12:43:11				3139	9.73141	0.8275973	3.838	30.32967	9.96337	6.67428
12:43:12				3140	9.69361	0.7296563	3.7396	41.90476	8.35165	5.83611
12:43:12				3141	9.52836	0.8823679	3.7396	26.71551	10.25641	7.19076
12:43:13				3142	9.60521	0.7903421	3.7396	20.17094	11.13553	6.37428
12:43:13	estimate at hull	5.0	270	3143	9.7256	0.6311207	3.838	34.38339	8.74237	4.99134
12:43:14				3144	9.50405	0.6139561	3.7396	39.36508	8.30281	4.87602
12:43:14				3145	9.48357	0.3939912	3.6412	26.37363	10.35409	3.03934
12:43:15				3146	9.39885	0.4425442	3.838	13.47985	11.62393	3.44764
12:43:15				3147	9.32761	0.4800514	3.838	11.67277	11.13553	3.7674
12:43:16				3148	9.32956	0.4484757	3.838	9.13309	11.72161	3.50364
12:43:16				3149	9.33449	0.4903108	3.838	8.15629	11.42857	3.85261
12:43:17				3150	9.30714	0.4390189	3.838	8.35165	10.79365	3.42712
12:43:17				3151	9.23482	0.3790918	3.7396	6.39805	11.96581	2.93749
12:43:18				3152	9.20553	0.6476473	3.838	4.83516	12.25885	5.20609
12:43:18				3153	9.19088	0.4342122	3.9364	20.90354	12.06349	3.39814
12:43:19				3154	9.1987	0.4521615	3.838	32.13675	10.64713	3.54723
12:43:19				3155	9.23976	0.5218964	3.7396	14.70085	11.47741	4.12894
12:43:20				3156	9.34716	0.5953466	3.838	12.74725	11.67277	4.73866
12:43:20				3157	9.48357	0.5355245	3.838	23.73626	10.54945	4.2155
12:43:21				3158	9.38522	0.5934229	3.838	25.10379	10.30525	4.71729
12:43:21				3159	9.41346	0.7355962	3.838	11.67277	12.60073	5.93304
12:43:22				3160	9.50405	0.5156416	3.838	9.76801	11.77045	4.04628
12:43:22				3161	9.36081	0.52382	3.838	9.62149	12.06349	4.13124
12:43:23				3162	9.27392	0.4558485	3.7396	8.88889	11.81929	3.57058
12:43:23				3163	9.27977	0.458732	3.7396	15.04274	11.91697	3.59407
12:43:24				3164	9.23189	0.4600151	3.838	13.13797	11.08669	3.60959
12:43:24				3165	9.20846	0.4537642	3.7396	10.84249	11.37973	3.55966
12:43:25				3166	9.18496	0.4818148	3.838	9.42613	11.28205	3.79722
12:43:25				3167	9.2544	0.5515614	3.838	8.25397	11.23321	4.37832
12:43:26				3168	9.22897	0.4790895	3.7396	9.27961	10.69597	3.7697
12:43:26				3169	9.1537	0.4675483	3.838	9.47497	10.84249	3.68065
12:43:27				3170	9.19577	0.5085877	3.838	7.52137	11.62393	4.02156
12:43:27				3171	9.22409	0.4986474	3.838	8.93773	10.59829	3.93462
12:43:28				3172	9.23189	0.4810141	3.838	9.96337	10.20757	3.78554
12:43:28				3173	9.20749	0.4632206	3.838	9.62149	10.94017	3.63888

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:43:29				3174	9.15956	0.4768463	3.7396	9.23077	11.08669	3.75814
12:43:29				3175	9.17812	0.5440237	3.7396	8.30281	10.94017	4.32361
12:43:30				3176	9.23684	0.8226188	3.6412	5.12821	10.79365	6.72293
12:43:30				3177	9.34814	0.5785052	3.9364	11.47741	9.91453	4.59531
12:43:31				3178	9.32176	0.6049716	3.838	18.46154	9.08425	4.82408
12:43:31				3179	9.26709	0.6333673	3.7396	15.38462	9.96337	5.07456
12:43:32				3180	9.3969	0.8492784	3.7396	11.96581	10.50061	6.92643
12:43:32				3181	9.65476	0.825028	3.838	26.17827	8.59585	6.66615
12:43:33				3182	9.8119	0.7302968	3.9364	41.51404	7.03297	5.82251
12:43:33				3183	9.76828	0.7455486	3.7396	43.07692	6.78877	5.96028
12:43:34				3184	9.73625	0.8691959	3.7396	30.86691	7.86325	7.0347
12:43:34				3185	9.82545	0.8852575	3.838	29.25519	8.10745	7.15693
12:43:35				3186	9.88451	0.8666241	3.838	35.50672	7.13065	6.98363
12:43:35				3187	9.84577	1.0162163	3.838	40	5.81197	8.29865
12:43:36				3188	9.95124	1.0049657	3.838	42.34432	5.51893	8.17582
12:43:36				3189	10.04691	0.9798931	3.838	40.14652	4.34676	7.93527
12:43:37				3190	10.08264	0.9763587	3.838	38.63248	4.05372	7.89667
12:43:37				3191	10.06523	0.9376312	3.838	37.16728	3.85836	7.56346
12:43:38				3192	10.01405	0.9583603	3.7396	37.46032	3.85836	7.75462
12:43:38				3193	10.04884	1.0355055	3.838	37.46032	4.29792	8.4213
12:43:39				3194	10.11155	0.9847145	3.9364	35.26252	4.1514	7.96316
12:43:39				3195	10.10577	0.928152	3.838	28.91331	3.46764	7.47283
12:43:40				3196	9.89224	0.9586824	3.6412	31.74603	3.9072	7.78354
12:43:40				3197	9.95993	1.0031975	3.7396	32.52747	5.66545	8.15837
12:43:41				3198	10.07975	1.024896	3.838	33.79731	4.54212	8.32122
12:43:41				3199	10.10095	0.9831071	3.9364	30.57387	3.56532	7.95147
12:43:42				3200	10.0865	0.9900184	3.838	30.32967	3.36996	8.01492
12:43:42				3201	10.06137	0.9778043	3.7396	30.96459	3.56532	7.91391
12:43:43				3202	10.04884	1.0004663	3.6412	32.42979	3.663	8.11454
12:43:43				3203	10.07686	1.0385595	3.7396	34.52991	3.76068	8.44158
12:43:44				3204	10.12022	1.0430605	3.838	34.38339	3.51648	8.47092
12:43:44				3205	10.12793	1.0224856	3.9364	27.15507	3.32112	8.28912
12:43:45				3206	10.11926	1.0142884	3.838	25.93407	3.4188	8.21947
12:43:45				3207	10.11348	1.026181	3.6412	28.52259	3.46764	8.32476
12:43:46				3208	10.10288	1.0446668	3.6412	31.35531	3.46764	8.48906
12:43:46				3209	10.1434	1.0457926	3.838	36.5812	3.51648	8.48944
12:43:47				3210	10.1511	1.0285921	3.9364	31.74603	3.4188	8.33719
12:43:47				3211	10.14533	1.026663	3.838	26.61783	3.36996	8.32166
12:43:48				3212	10.13178	1.027949	3.7396	29.45055	3.46764	8.33602
12:43:48				3213	10.13473	1.0494908	3.7396	33.89499	3.80952	8.52386
12:43:49				3214	10.14436	1.0478819	3.838	32.77167	3.36996	8.5075
12:43:49				3215	10.14436	1.0220021	3.838	29.25519	3.4188	8.28116
12:43:50				3216	10.12986	1.0295572	3.7396	29.05983	3.22344	8.35052
12:43:50				3217	10.11059	1.0433817	3.7396	31.55067	3.36996	8.47599
12:43:51				3218	10.13082	1.042095	3.838	30.42735	3.51648	8.46

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:43:51				3219	10.13762	1.0276274	3.9364	26.91087	3.32112	8.33184
12:43:52				3220	10.13178	1.0228066	3.7396	26.71551	3.36996	8.29107
12:43:52				3221	10.12889	1.0295573	3.7396	30.23199	3.51648	8.35075
12:43:53				3222	10.12889	1.0449881	3.838	30.18315	3.56532	8.48578
12:43:53				3223	10.13082	1.0474004	3.838	27.59463	3.36996	8.50645
12:43:54				3224	10.13178	1.0302008	3.838	25.83639	3.12576	8.3557
12:43:54				3225	10.13178	1.0281098	3.838	26.08059	3.27228	8.33741
12:43:55				3226	10.12697	1.0385593	3.7396	28.32723	3.36996	8.42995
12:43:55				3227	10.12986	1.0478819	3.7396	31.55067	3.61416	8.51091
12:43:56				3228	10.14051	1.0465954	3.838	30.96459	3.663	8.49714
12:43:56				3229	10.14244	1.0435411	3.838	29.45055	3.56532	8.46995
12:43:57				3230	10.1434	1.0417739	3.838	29.01099	3.51648	8.45426
12:43:57				3231	10.14244	1.0398443	3.838	28.18071	3.663	8.4376
12:43:58				3232	10.13762	1.0330944	3.7396	29.10867	3.663	8.37967
12:43:58				3233	10.14147	1.0422566	3.7396	30.47619	3.95604	8.45894
12:43:59				3234	10.15303	1.0369522	3.9364	25.88523	3.76068	8.40983
12:43:59				3235	10.15496	1.0348625	3.838	26.03175	3.36996	8.39113
12:44:00				3236	10.13082	1.0332534	3.7396	25.73871	3.46764	8.38263
12:44:00				3237	10.14051	1.0372727	3.838	31.01343	3.85836	8.41554
12:44:01				3238	10.16169	1.0187887	3.838	28.22955	3.663	8.24916
12:44:01				3239	10.13666	1.0186265	3.7396	28.03419	3.56532	8.25344
12:44:02				3240	10.13377	1.0522228	3.838	31.20879	3.9072	8.54801
12:44:02				3241	10.16843	1.0359867	4.0348	29.98779	3.85836	8.39782
12:44:03				3242	10.18287	0.9978926	3.838	29.84127	3.46764	8.06224
12:44:03				3243	10.07493	0.8993952	3.5428	32.91819	3.9072	7.2301
12:44:04				3244	10.07005	1.037273	3.838	39.46276	5.47009	8.43188
12:44:05				3247	10.11161	0.9737748	3.6412	36.5812	3.80952	7.8679
12:44:06				3248	10.09234	0.9896847	3.838	52.01465	5.07937	8.01072
12:44:06				3249	10.10776	0.9745778	3.9364	42.49084	4.68864	7.87569
12:44:07				3250	10.11643	0.9750592	3.9364	33.01587	3.61416	7.87801
12:44:07				3251	10.12131	0.9231587	3.838	36.5812	3.85836	7.42639
12:44:08				3252	10.09619	0.9499929	3.838	40.39072	4.6398	7.66436
12:44:08				3253	10.08848	0.9509554	3.838	38.43712	4.29792	7.67435
12:44:09				3254	10.09041	0.9990067	3.7396	39.7558	4.20024	8.0925
12:44:09				3255	10.09909	1.0239178	3.838	38.58364	4.3956	8.30824
12:44:10				3256	10.10487	0.9742562	3.9364	37.3138	3.61416	7.87352
12:44:10				3257	10.10101	0.9585087	3.838	39.65812	3.71184	7.73735
12:44:11				3258	10.07981	0.981971	3.7396	41.66056	4.00488	7.94621
12:44:11				3259	10.09427	1.0245601	3.7396	42.10012	4.44444	8.31497
12:44:12				3260	10.16464	1.0491541	3.838	43.12576	4.884	8.5139
12:44:12				3261	10.20128	1.0157203	3.9364	54.79853	4.29792	8.21343
12:44:13				3262	10.19743	0.997719	3.9364	64.5177	3.56532	8.0575
12:44:13				3263	10.14442	0.9649355	3.7396	63.39438	3.9072	7.78396
12:44:14				3264	10.12709	1.0528525	3.7396	60.90354	4.93284	8.55511
12:44:14				3265	10.16753	1.0163629	3.9364	66.71551	4.49328	8.22666

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:44:15				3266	10.16946	1.0081668	3.9364	34.33455	3.46764	8.15474
12:44:15				3267	10.10679	0.9289435	3.7396	44.98168	3.61416	7.47949
12:44:16				3268	10.11161	1.0219897	3.838	58.99878	4.83516	8.28851
12:44:16				3269	10.15887	0.9797204	3.9364	66.66667	4.93284	7.90935
12:44:17				3270	10.15694	0.9824515	3.838	56.36142	3.36996	7.93354
12:44:17				3271	10.12227	0.9771499	3.7396	64.95726	3.9072	7.89496
12:44:18				3272	10.14442	1.0306689	3.838	65.68987	5.22589	8.35689
12:44:18				3273	10.17427	0.9914523	3.9364	69.84127	5.76313	8.00806
12:44:19				3274	10.17914	0.989845	3.838	75.31136	3.80952	7.99302
12:44:19				3275	10.15309	0.9777917	3.7396	72.91819	4.20024	7.89386
12:44:20				3276	10.16849	1.0452967	3.838	65.25031	5.22589	8.47924
12:44:20				3277	10.19262	1.0457778	3.9364	69.45055	5.12821	8.47782
12:44:21				3278	10.19647	0.9964344	3.9364	64.12698	3.663	8.04653
12:44:21				3279	10.18973	0.9752209	3.838	60.1221	3.51648	7.86356
12:44:22				3280	10.12612	0.9435648	3.6412	61.8315	4.05372	7.60229
12:44:22				3281	10.10679	1.0411174	3.6412	58.55922	5.17705	8.45705
12:44:23				3282	10.16561	1.0007741	3.9364	63.15018	4.44444	8.09116
12:44:23				3283	10.17523	1.0097742	4.0348	38.24176	3.46764	8.16744
12:44:24				3284	10.16368	1.000131	3.838	39.12088	3.36996	8.086
12:44:24				3285	10.13864	0.944529	3.6412	51.23321	3.663	7.60803
12:44:25				3286	9.98419	0.9911314	3.5428	56.60562	4.73748	8.04731
12:44:25				3287	10.11258	1.0536552	3.838	50.20757	6.34921	8.56555
12:44:26				3288	10.17818	1.0311517	4.1331	57.63126	4.05372	8.35331
12:44:26				3289	10.17722	0.9400307	3.838	49.52381	3.56532	7.56098
12:44:27				3290	9.96392	0.9765066	3.4445	54.40781	4.00488	7.92388
12:44:27				3291	10.01417	1.0510842	3.6412	49.03541	5.95849	8.56622
12:44:28				3292	10.15405	1.0046316	3.9364	52.35653	4.59096	8.12736
12:44:28				3293	10.16561	1.0073624	3.9364	37.21612	3.61416	8.14858
12:44:29				3294	10.1579	0.9933802	3.7396	47.91209	3.9072	8.02848
12:44:29				3295	10.15213	0.9642925	3.7396	51.52625	4.10256	7.77672
12:44:30				3296	10.13961	1.0414383	3.838	52.94261	4.44444	8.4522
12:44:30				3297	10.20416	1.045618	3.838	53.13797	4.49328	8.47374
12:44:31				3298	10.24366	1.0174879	3.9364	53.33333	3.95604	8.21927
12:44:31				3299	10.23302	1.0234358	3.838	53.57753	4.05372	8.27351
12:44:32				3300	10.20224	1.0266503	3.838	52.55189	4.24908	8.30855
12:44:32				3301	10.23495	1.0184534	3.838	52.45421	4.05372	8.22966
12:44:33				3302	10.25135	1.0483504	3.838	52.25885	4.00488	8.48663
12:44:33				3303	10.26578	1.0477069	3.838	50.84249	3.95604	8.47765
12:44:34				3304	10.24847	1.0099337	3.9364	45.95849	3.46764	8.15243
12:44:34				3305	10.22533	1.0311515	3.838	38.68132	3.4188	8.34254
12:44:35				3306	10.19165	1.0104174	3.7396	42.442	3.51648	8.1694
12:44:35				3307	10.20705	1.0536548	3.838	46.64225	3.85836	8.54333
12:44:36				3308	10.21282	1.0329185	3.9364	42.05128	3.46764	8.36081
12:44:36				3309	10.2109	1.0289011	3.9364	38.09524	3.22344	8.3262
12:44:37				3310	10.21282	1.0319543	3.7396	36.19048	3.46764	8.35242

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:44:37				3311	10.2109	1.0441708	3.7396	37.46032	3.61416	8.45954
12:44:38				3312	10.20801	1.0592812	3.838	39.85348	3.56532	8.59233
12:44:38				3313	10.20416	1.0457777	3.9364	36.92308	3.36996	8.47513
12:44:39				3314	10.19839	1.0443326	3.9364	29.30403	3.27228	8.46384
12:44:39				3315	10.20224	1.049154	3.838	28.13187	3.27228	8.5051
12:44:40				3316	10.20032	1.0483506	3.7396	34.82295	3.32112	8.49854
12:44:40				3317	10.20128	1.0457777	3.7396	37.21612	3.4188	8.47582
12:44:41				3318	10.19839	1.0526901	3.838	37.11844	3.51648	8.53693
12:44:41				3319	10.19454	1.0473855	3.9364	34.52991	3.51648	8.49143
12:44:42				3320	10.19262	1.0465826	3.838	33.06471	3.32112	8.48487
12:44:42				3321	10.19069	1.0415996	3.838	34.09035	3.36996	8.44175
12:44:43				3322	10.18299	1.0411172	3.838	35.01832	3.51648	8.43932
12:44:43				3323	10.17427	1.0407963	3.838	34.38339	3.4188	8.43854
12:44:44				3324	10.17523	1.0404733	3.838	34.48107	3.27228	8.43549
12:44:44				3325	10.17523	1.0449753	3.838	34.67643	3.36996	8.47486
12:44:45				3326	10.17818	1.0481908	3.838	34.92063	3.51648	8.5023
12:44:45				3327	10.17914	1.0425628	3.838	32.86935	3.4188	8.45285
12:44:46				3328	10.17626	1.0428861	3.838	31.89255	3.56532	8.45635
12:44:46				3329	10.17818	1.0478691	3.838	32.42979	3.4188	8.49949
12:44:47				3330	10.17626	1.0403139	3.838	32.08791	3.51648	8.43386
12:44:47				3331	10.17427	1.0379011	3.838	31.55067	3.4188	8.41323
12:44:48				3332	10.16561	1.0324376	3.838	29.49939	3.56532	8.36748
12:44:48				3333	10.15887	1.0298643	3.838	28.66911	3.56532	8.34654
12:44:49				3334	10.15887	1.0330797	3.838	30.18315	3.61416	8.37464
12:44:49				3335	10.16849	1.023436	3.838	34.57875	3.56532	8.28819
12:44:50				3336	10.16368	1.0309907	3.838	35.45788	3.46764	8.35527
12:44:50				3337	10.15405	1.0317935	3.838	34.92063	3.663	8.3645
12:44:51				3338	10.13961	1.0240782	3.838	37.0696	3.51648	8.30038
12:44:51				3339	10.14442	1.0367763	3.838	39.95116	3.46764	8.41029
12:44:52				3340	10.15694	1.0380626	3.838	52.89377	3.76068	8.41865
12:44:52				3341	10.18588	1.0166852	3.838	54.16361	3.80952	8.22533
12:44:53				3342	10.17234	1.009934	3.7396	49.76801	3.80952	8.16952
12:44:53				3343	10.16753	1.0440114	3.838	41.12332	3.9072	8.46822
12:44:54				3344	10.21379	1.0308296	3.9364	52.30769	3.76068	8.34236
12:44:54				3345	10.21667	1.0295444	3.9364	54.40781	3.4188	8.33049
12:44:55				3346	10.18107	1.025365	3.7396	53.96825	3.61416	8.30217
12:44:55				3347	10.17914	1.0343664	3.838	51.23321	3.9072	8.38121
12:44:56				3348	10.14827	1.0261684	3.838	53.28449	3.61416	8.31667
12:44:56				3349	10.14539	1.0239177	3.838	51.28205	3.51648	8.29766
12:44:57				3350	10.16368	1.0170056	3.838	52.74725	3.71184	8.23315
12:44:57				3351	10.17042	1.0174882	3.838	56.55678	3.85836	8.23583
12:44:58				3352	10.18011	1.0287403	3.838	61.19658	3.85836	8.33185
12:44:58				3353	10.19358	1.0128277	3.838	51.86813	3.80952	8.18996
12:44:59				3354	10.15983	1.0076837	3.838	62.3199	3.71184	8.15269
12:44:59				3355	10.08366	0.9818087	3.7396	53.77289	3.85836	7.94396

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:45:00				3356	10.10005	0.9675069	3.838	25.83639	4.49328	7.81582
12:45:00				3357	10.05372	1.0162032	3.838	28.86447	4.1514	8.25107
12:45:01				3358	10.08174	0.9740965	3.9364	13.13797	4.68864	7.87714
12:45:01				3359	10.06631	0.9747398	3.838	14.55433	4.3956	7.8861
12:45:02				3360	10.02768	0.9639725	3.7396	18.02198	4.44444	7.80061
12:45:02				3361	10.0296	0.9768283	3.838	14.31013	4.54212	7.9123
12:45:03				3362	10.07017	1.01331	3.838	15.53114	4.68864	8.22202
12:45:03				3363	10.11739	0.9818086	3.838	29.93895	4.68864	7.93657
12:45:04				3364	10.09138	0.9879158	3.838	52.45421	4.24908	7.9955
12:45:05				3367	10.22635	0.9802312	3.838	59.82906	3.9072	7.89915
12:45:06				3368	10.12709	0.9697861	3.7396	61.44078	4.00488	7.82985
12:45:06				3369	10.02575	0.9596619	3.838	37.89988	4.6398	7.76345
12:45:07				3370	10.03738	0.9892317	3.838	13.08913	5.81197	8.01889
12:45:07				3371	10.16952	0.9151533	3.838	6.78877	5.37241	7.34735
12:45:08				3372	10.03931	0.8953931	3.838	35.79976	4.54212	7.20251
12:45:08				3373	9.91846	0.9174032	3.7396	23.0525	5.03053	7.41791
12:45:09				3374	10.00259	0.9223834	3.7396	8.49817	6.20269	7.44397
12:45:09				3375	10.04413	0.8997319	3.7396	2.6862	6.39805	7.23913
12:45:10				3376	10.11456	0.9309	3.7396	2.9304	6.49573	7.49485
12:45:10				3377	10.11264	0.9064774	3.838	3.36996	6.20269	7.28379
12:45:11				3378	9.96392	0.8733856	3.838	22.71062	4.68864	7.02683
12:45:11				3379	9.82364	1.0081969	3.7396	15.82418	5.07937	8.23312
12:45:12				3380	9.95522	0.996144	3.838	9.96337	6.93529	8.0976
12:45:12				3381	10.06342	0.9490572	3.838	21.05006	5.47009	7.66314
12:45:13				3382	10.07788	1.000001	3.7396	31.11111	4.59096	8.10398
12:45:13				3383	10.11553	1.0099653	3.838	22.3199	5.51893	8.18255
12:45:14				3384	10.14737	0.9715535	3.838	39.12088	3.9072	7.84083
12:45:14				3385	10.0827	0.9855351	3.7396	40.34188	4.05372	7.97666
12:45:15				3386	10.10685	0.9975892	3.838	25.15263	6.00733	8.07646
12:45:15				3387	10.16759	0.9591807	3.9364	42.442	4.59096	7.72902
12:45:16				3388	10.157	0.976215	3.838	47.91209	4.20024	7.87928
12:45:16				3389	10.1724	0.9161173	3.838	45.37241	4.49328	7.3551
12:45:17				3390	10.04896	0.880614	3.838	14.26129	5.42125	7.07282
12:45:17				3391	9.92039	0.8576435	3.7396	7.81441	6.25153	6.89901
12:45:18				3392	9.88463	0.7574408	3.838	9.42613	6.88645	6.04291
12:45:18				3393	9.81293	0.838532	3.838	9.47497	7.32601	6.75386
12:45:19				3394	9.89236	0.9151541	3.838	10.30525	7.76557	7.40365
12:45:19				3395	10.03153	0.8226321	3.838	9.42613	6.88645	6.57654
12:45:20				3396	9.90589	0.866158	3.7396	23.0525	5.71429	6.97548
12:45:20				3397	9.91266	0.9603061	3.838	11.96581	6.88645	7.79332
12:45:21				3398	10.04124	0.9159573	3.838	21.44078	5.71429	7.38029
12:45:21				3399	10.03642	0.9382902	3.838	23.73626	5.17705	7.57519
12:45:22				3400	10.05281	0.9471279	3.838	23.15018	5.32357	7.6486
12:45:22				3401	10.10589	0.9246324	3.838	22.61294	5.17705	7.4423
12:45:23				3402	10.02285	0.931864	3.838	18.4127	5.03053	7.52216

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:45:23				3403	10.00741	0.8888071	3.838	17.1917	5.12821	7.15181
12:45:24				3404	9.90589	0.9617515	3.838	16.06838	5.56777	7.80741
12:45:24				3405	9.97357	0.9717158	3.838	10.98901	6.88645	7.87986
12:45:25				3406	10.08951	0.9076021	3.9364	40.78144	4.98168	7.29815
12:45:25				3407	9.94557	0.8765976	3.838	36.77656	4.93284	7.0582
12:45:26				3408	9.91942	0.9525913	3.838	16.9475	6.44689	7.72447
12:45:26				3409	9.99873	0.9344343	3.838	16.55678	6.25153	7.54952
12:45:27				3410	10.08366	0.9291329	3.838	14.55433	5.47009	7.48588
12:45:27				3411	10.06535	0.873064	3.838	11.67277	5.22589	7.00445
12:45:28				3412	9.95329	0.8221494	3.838	7.66789	5.71429	6.58658
12:45:28				3413	9.85749	0.7885883	3.838	9.62149	6.15385	6.31484
12:45:29				3414	9.79454	0.8484904	3.838	12.89377	6.78877	6.84361
12:45:29				3415	9.79357	0.8210259	3.838	11.81929	8.05861	6.60597
12:45:30				3416	9.81584	0.7210002	3.838	14.84737	8.00977	5.74243
12:45:30				3417	9.72669	0.7242105	3.838	15.82418	7.47253	5.78409
12:45:31				3418	9.68688	0.6582478	3.838	13.28449	7.91209	5.22702
12:45:31				3419	9.66943	0.6410807	3.838	9.81685	8.49817	5.08361
12:45:32				3420	9.66264	0.7256561	3.838	7.66789	9.08425	5.80677
12:45:32				3421	9.72572	0.7351263	3.838	8.10745	9.13309	5.87783
12:45:33				3422	9.74219	0.683123	3.9364	10.59829	8.79121	5.43063
12:45:33				3423	9.67234	0.6474979	3.9364	11.62393	8.40049	5.13771
12:45:34				3424	9.63251	0.7763853	3.838	9.91453	8.59585	6.24874
12:45:34				3425	9.66846	0.7585638	3.838	8.25397	8.88889	6.08881
12:45:35				3426	9.7024	0.6420417	3.838	13.82173	7.76557	5.08713
12:45:35				3427	9.65676	0.7982241	3.838	10.74481	8.35165	6.43338
12:45:36				3428	9.7053	0.790195	3.838	5.86081	8.98657	6.35535
12:45:36				3429	9.75091	0.6158902	3.9364	11.18437	8.20513	4.85911
12:45:37				3430	9.68107	0.60402	3.838	9.67033	8.30281	4.76817
12:45:37				3431	9.63251	0.6008116	3.838	7.42369	8.79121	4.74746
12:45:38				3432	9.63154	0.6771851	3.838	4.10256	9.08425	5.39657
12:45:38				3433	9.6927	0.6866537	3.838	4.20024	9.23077	5.46821
12:45:39				3434	9.67331	0.6134843	3.838	6.93529	8.98657	4.8492
12:45:39				3435	9.6131	0.6531136	3.838	6.78877	8.74237	5.19397
12:45:40				3436	9.68301	0.6763818	3.838	4.3956	9.23077	5.38204
12:45:40				3437	9.71215	0.6077088	3.838	4.24908	8.98657	4.79521
12:45:41				3438	9.62571	0.6394751	3.838	4.44444	9.03541	5.07612
12:45:41				3439	9.62668	0.621186	3.838	2.29548	9.52381	4.92073
12:45:42				3440	9.64221	0.5863746	3.838	3.663	9.42613	4.62429
12:45:42				3441	9.61407	0.5818833	3.838	4.3956	9.37729	4.59
12:45:43				3442	9.5742	0.5417883	3.838	2.49084	9.37729	4.25748
12:45:43				3443	9.54014	0.5611936	3.838	1.7094	9.47497	4.4248
12:45:44				3444	9.5518	0.5472414	3.838	1.4652	9.91453	4.30595
12:45:44				3445	9.58197	0.6295284	3.838	1.4652	9.91453	4.99769
12:45:45				3446	9.60921	0.4960908	3.9364	1.51404	10.15873	3.87145
12:45:45				3447	9.50314	0.5328087	3.838	1.4652	9.76801	4.19039

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:45:46				3448	9.4457	0.5252716	3.7396	6.05617	9.57265	4.13371
12:45:46				3449	9.4905	0.5504483	3.838	1.51404	10.10989	4.34029
12:45:47				3450	9.54888	0.5393836	3.838	1.4652	9.91453	4.24027
12:45:47				3451	9.5606	0.4322957	3.838	1.51404	10.15873	3.34762
12:45:48				3452	9.43402	0.4653128	3.838	1.4652	10.50061	3.63344
12:45:48				3453	9.39112	0.6088323	3.838	1.51404	10.25641	4.84766
12:45:49				3454	9.44862	0.6933946	3.838	1.51404	10.84249	5.56331
12:45:49				3455	9.57711	0.5363358	3.838	1.51404	10.30525	4.21138
12:45:50				3456	9.46619	0.527357	3.838	1.51404	10.20757	4.14887
12:45:50				3457	9.47105	0.4653128	3.7396	1.4652	10.64713	3.62971
12:45:51				3458	9.4623	0.4520095	3.838	1.51404	11.81929	3.52006
12:45:51				3459	9.44862	0.4189959	3.838	1.51404	10.69597	3.24814
12:45:52				3460	9.3882	0.4202776	3.838	1.4652	10.54945	3.26418
12:45:52				3461	9.33358	0.4569773	3.838	1.51404	10.89133	3.57406
12:45:53				3462	9.35898	0.4476823	3.838	1.4652	11.77045	3.49417
12:45:53				3463	9.38723	0.4220404	3.838	1.51404	11.03785	3.27885
12:45:54				3464	9.31993	0.4145087	3.838	1.4652	10.84249	3.22262
12:45:54				3465	9.33163	0.4129068	3.838	1.51404	11.13553	3.20832
12:45:55				3466	9.3404	0.397203	3.838	1.51404	11.28205	3.0779
12:45:55				3467	9.32286	0.3883914	3.838	1.4652	10.94017	3.00679
12:45:56				3468	9.30628	0.3975245	3.838	1.4652	11.42857	3.08347
12:45:56				3469	9.31798	0.4016897	3.838	1.4652	12.55189	3.11684
12:45:57				3470	9.31993	0.3712492	3.838	1.51404	11.33089	2.86614
12:45:57				3471	9.25843	0.3765358	3.838	1.4652	11.52625	2.91452
12:45:58				3472	9.23006	0.4213989	3.838	1.4652	12.25885	3.28788
12:45:58				3473	9.28379	0.3831051	3.838	1.51404	12.06349	2.96651
12:45:59				3474	9.28965	0.3674057	3.9364	1.4652	11.28205	2.837
12:45:59				3475	9.25745	0.3739734	3.838	1.51404	11.08669	2.89352
12:46:00				3476	9.25446	0.3646825	3.838	1.4652	12.16117	2.81742
12:46:00				3477	9.26623	0.3638802	3.838	1.4652	12.50305	2.80992
12:46:01				3478	9.27697	0.3363317	3.838	1.51404	12.50305	2.58379
12:46:01				3479	9.21249	0.3257613	3.838	1.51404	12.55189	2.50218
12:46:02				3480	9.19192	0.3169534	3.838	1.4652	12.55189	2.43187
12:46:02				3481	9.17238	0.3115089	3.838	1.41636	12.50305	2.38889
12:46:03				3482	9.14887	0.3339292	3.838	1.51404	12.79609	2.57335
12:46:03				3483	9.19192	0.3388931	3.838	1.51404	12.79609	2.61084
12:46:04				3484	9.2164	0.3454606	3.838	1.4652	13.23565	2.66278
12:46:05				3487	9.19748	0.3891973	3.838	1.51404	12.89377	3.02396
12:46:06				3488	9.23757	0.3368148	3.9364	1.4652	11.86813	2.59056
12:46:06				3489	9.1838	0.3278449	3.838	1.4652	12.55189	2.52118
12:46:07				3490	9.15248	0.3174361	3.838	1.51404	12.16117	2.43847
12:46:07				3491	9.14759	0.3396973	3.838	1.4652	12.69841	2.62065
12:46:08				3492	9.16616	0.3134317	3.838	1.51404	12.99145	2.40495
12:46:08				3493	9.15932	0.3195181	3.838	1.4652	12.74725	2.45497
12:46:09				3494	9.15345	0.3159946	3.838	1.51404	13.08913	2.42667

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:46:09				3495	9.13488	0.3332913	3.838	1.51404	13.28449	2.56914
12:46:10				3496	9.1515	0.3408178	3.838	1.51404	13.28449	2.62954
12:46:10				3497	9.14075	0.3198385	3.838	1.51404	12.79609	2.45885
12:46:11				3498	9.11918	0.332009	3.838	1.4652	12.94261	2.55977
12:46:11				3499	9.12804	0.3244826	3.838	1.51404	13.23565	2.49763
12:46:12				3500	9.1339	0.3175961	3.838	1.51404	12.94261	2.44104
12:46:12				3501	9.12217	0.3155139	3.838	1.4652	12.79609	2.42486
12:46:13				3502	9.12217	0.3235217	3.838	1.4652	12.94261	2.49019
12:46:13				3503	9.12511	0.3134318	3.838	1.51404	12.25885	2.4077
12:46:14				3504	9.13097	0.3597199	3.838	1.4652	12.50305	2.78627
12:46:14				3505	9.16616	0.3248025	3.838	1.4652	12.79609	2.49759
12:46:15				3506	9.17794	0.3099097	3.838	1.4652	12.21001	2.37553
12:46:15				3507	9.14759	0.3217591	3.7396	1.51404	12.40537	2.47405
12:46:16				3508	9.13195	0.2929364	3.6412	1.4652	12.64957	2.24074
12:46:16				3509	9.13488	0.287653	3.6412	1.4652	13.08913	2.19778
12:46:17				3510	9.13097	0.283329	3.5428	1.4652	13.52869	2.16304
12:46:17				3511	9.11331	0.2828492	3.5428	1.51404	13.33333	2.16023
12:46:18				3512	9.10158	0.2799669	3.5428	1.4652	13.91941	2.13762
12:46:18				3513	9.09668	0.2801269	3.5428	1.4652	13.43101	2.13921
12:46:19				3514	9.09277	0.2807673	3.5428	1.4652	13.38217	2.14462
12:46:19				3515	9.08592	0.2796468	3.5428	1.4652	13.28449	2.13597
12:46:20				3516	9.08006	0.2932566	3.5428	1.51404	13.91941	2.24659
12:46:20				3517	9.08788	0.2913349	3.6412	1.4652	13.08913	2.2305
12:46:21				3518	9.08397	0.2847708	3.6412	1.4652	13.28449	2.17755
12:46:21				3519	9.08886	0.3759	3.5428	1.51404	13.28449	2.92308
12:46:22				3520	9.1339	0.5834986	3.6412	1.51404	13.43101	4.66554
12:46:22				3521	9.21017	0.5517405	3.7396	1.51404	12.79609	4.38525
12:46:23				3522	9.22293	0.4105072	3.7396	1.4652	13.04029	3.19814
12:46:23				3523	9.26886	0.4063412	3.6412	1.4652	12.35653	3.15958
12:46:24				3524	9.30494	0.6014644	3.6412	1.51404	12.74725	4.79642
12:46:24				3525	9.42496	0.7001486	3.7396	1.51404	12.16117	5.62514
12:46:25				3526	9.46005	0.5350615	3.7396	1.4652	10.89133	4.21437
12:46:25				3527	9.40153	0.5132539	3.6412	1.4652	10.25641	4.03777
12:46:26				3528	9.41619	0.790211	3.7396	1.51404	11.47741	6.40669
12:46:26				3529	9.62153	0.8809553	3.838	1.51404	9.91453	7.15983
12:46:27				3530	9.66525	0.8979847	3.838	1.4652	6.98413	7.29999
12:46:27				3531	9.73898	0.8946105	3.7396	1.51404	7.27717	7.25566
12:46:28				3532	9.7923	0.9193517	3.7396	1.4652	7.32601	7.46082
12:46:28				3533	9.83011	0.9228863	3.838	1.51404	6.20269	7.48386
12:46:29				3534	9.84365	0.9172631	3.838	1.4652	5.12821	7.43201
12:46:29				3535	9.81656	0.9580758	3.838	1.4652	5.07937	7.79449
12:46:30				3536	9.84559	0.9691654	3.838	1.51404	5.71429	7.88539
12:46:30				3537	9.87273	0.9749494	3.838	1.51404	5.66545	7.93015
12:46:31				3538	9.88626	0.9680389	3.838	1.51404	6.25153	7.86667
12:46:31				3539	9.89689	0.9887709	3.838	1.4652	6.59341	8.04597

Table B-2. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Coral Princess
(7/11/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:46:32				3540	9.90463	0.9817004	3.9364	1.4652	6.69109	7.98228
12:46:32				3541	9.90559	0.9725388	3.838	1.51404	5.71429	7.90185
12:46:33				3542	9.84849	0.6380428	3.3461	1.4652	5.71429	5.03289
12:46:33				3543	9.4025	0.4927312	2.9526	1.4652	6.73993	3.86564
12:46:34				3544	9.17208	0.285891	2.6574	1.4652	10.35409	2.1813
12:46:34				3545	9.06727	0.3052655	2.3623	1.51404	11.52625	2.34508
12:46:35				3546	8.9928	0.280127	2.0671	1.51404	12.94261	2.14546
12:46:35				3547	8.94668	0.2745234	1.772	1.51404	13.13797	2.10277
12:46:36				3548	8.90936	0.2697211	1.4768	1.4652	13.28449	2.06602
12:46:36				3549	8.90053	0.2679607	1.1817	1.4652	13.18681	2.05227
12:46:37				3550	8.90347	0.2666794	0.9849	1.51404	13.57753	2.04172
12:46:37				3551	8.9123	0.2647591	0.8865	1.51404	13.47985	2.02567
12:46:38				3552	8.90249	0.2647591	0.9849	1.4652	14.01709	2.02622
12:46:38				3553	8.89759	0.2657189	0.9849	1.4652	13.43101	2.03428
12:46:39				3554	8.89661	0.2655591	0.9849	1.4652	13.82173	2.03304
12:46:39				3555	8.89661	0.2663597	0.9849	1.51404	14.50549	2.03952
12:46:40				3556	8.8936	0.2650785	0.9849	1.4652	13.82173	2.02931
12:46:40				3557	8.89458	0.2644383	0.8865	1.51404	13.82173	2.02408
12:46:41				3558	8.88772	0.2631575	0.7881	1.51404	13.47985	2.0141
12:46:41				3559	8.8779	0.2637985	0.7881	1.51404	13.62637	2.01984
12:46:42				3560	8.88183	0.2641191	0.7881	1.4652	13.82173	2.02222
12:46:42				3561	8.89066	0.2637985	0.6898	1.51404	13.82173	2.01912
12:46:43				3562	8.89458	0.2639581	0.6898	1.51404	13.08913	2.02019
12:46:43				3563	8.88575	0.2641191	0.6898	1.51404	14.35897	2.022
12:46:44				3564	8.90642	0.2637985	0.6898	1.51404	12.16117	2.01823
12:46:44				3565	8.94766	0.264759	0.6898	1.51404	4.1514	2.02368
12:46:45				3566	8.99084	0.2698813	0.6898	1.4652	2.6862	2.06264
12:46:45				3567	9.02708	0.1050938	0.6898	1.4652	2.83272	0.76399
12:46:46				3568	9.0614	0.0475508	0.6898	1.4652	2.53968	0.3343
12:46:46	12:45:40 switch off			3569	9.1006	0.0398801	0.6898	0	0	0.27838

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:26:48	10:25:33 Switch on			7	9.54451	0.4536619	0.9849	0	0	3.52589
10:26:49	background transect - no dye			8	9.54937	0.4555861	1.0833	0	0	3.54135
10:26:49				9	9.53285	0.4568685	1.0833	0	0	3.5536
10:26:50				10	9.53091	0.4557461	1.0833	0	0	3.54449
10:26:50				11	9.53771	0.4538218	1.1817	0	0	3.52787
10:26:51				12	9.5241	0.4552645	1.1817	0	0	3.54116
10:26:51				13	9.51238	0.4559062	1.1817	0	0	3.54763
10:26:52				14	9.51238	0.4584724	1.1817	0	0	3.56891
10:26:52				15	9.51821	0.4602366	1.1817	0	0	3.58297
10:26:53				16	9.5241	0.4632833	1.1817	0	0	3.60767
10:26:53				17	9.53091	0.466651	1.1817	0	0	3.63495
10:26:54				18	9.52993	0.4676144	1.1817	0	0	3.64305
10:26:54				19	9.52313	0.4693782	1.1817	0	0	3.65839
10:26:55				20	9.51043	0.4701801	1.2801	0	0	3.66634
10:26:55				21	9.50557	0.4682559	1.1817	0	0	3.65084
10:26:56				22	9.49877	0.4669732	1.1817	0	0	3.64087
10:26:56				23	9.50266	0.466651	1.1817	0	0	3.6378
10:26:57				24	9.51043	0.4695379	1.1817	0	0	3.66101
10:26:57				25	9.51529	0.4705012	1.1817	0	0	3.66852
10:26:58				26	9.51821	0.4698589	1.1817	0	0	3.66289
10:26:58				27	9.51724	0.4674533	1.1817	0	0	3.64299
10:26:59				28	9.52022	0.4671326	1.2801	0	0	3.64002
10:26:59				29	9.52313	0.466651	1.1817	0	0	3.63573
10:27:00				30	9.51821	0.4669732	1.2801	0	0	3.6389
10:27:00				31	9.51141	0.4671326	1.2801	0	0	3.64091
10:27:01				32	9.50655	0.4676144	1.2801	0	0	3.64541
10:27:01				33	9.50557	0.4695379	1.3784	0	0	3.66149
10:27:02				34	9.50655	0.4717833	1.3784	0	0	3.68006
10:27:02				35	9.51238	0.4735481	1.3784	0	0	3.69414
10:27:03				36	9.51529	0.4748307	1.3784	0	0	3.70451
10:27:03				37	9.51918	0.4756334	1.3784	0	0	3.71079
10:27:04				38	9.52022	0.4765952	1.3784	0	0	3.71869
10:27:04				39	9.52216	0.4765952	1.3784	0	0	3.71849
10:27:05				40	9.52507	0.4764349	1.3784	0	0	3.71685
10:27:05				41	9.52507	0.4767556	1.3784	0	0	3.71952
10:27:06				42	9.5241	0.4765952	1.3784	0	0	3.71829
10:27:06				43	9.52313	0.4773971	1.3784	0	0	3.72506
10:27:07				44	9.52507	0.4770763	1.3784	0	0	3.72219
10:27:07				45	9.5241	0.475954	1.3784	0	0	3.71295
10:27:08				46	9.53479	0.4773971	1.3784	0	0	3.72386
10:27:08				47	9.53674	0.4778784	1.3784	0	0	3.72766
10:27:09				48	9.54354	0.4764349	1.3784	0	0	3.71495
10:27:09				49	9.53771	0.4764349	1.3784	0	0	3.71555
10:27:10				50	9.53577	0.4765952	1.3784	0	0	3.71709
10:27:10				51	9.52119	0.4772367	1.3784	0	0	3.72393

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:11				52	9.5241	0.4769159	1.3784	0	0	3.72096
10:27:11				53	9.52507	0.4772367	1.3784	0	0	3.72352
10:27:12				54	9.52799	0.4775576	1.3784	0	0	3.72589
10:27:12				55	9.52993	0.4772367	1.3784	0	0	3.72302
10:27:13				56	9.52702	0.4773971	1.3784	0	0	3.72466
10:27:13				57	9.51627	0.4770763	1.3784	0	0	3.7231
10:27:14				58	9.50655	0.4775576	1.3784	0	0	3.72811
10:27:14				59	9.50071	0.476916	1.3784	0	0	3.72337
10:27:15				60	9.50266	0.4772368	1.3784	0	0	3.72584
10:27:15				61	9.50849	0.4775576	1.3784	0	0	3.72791
10:27:16				62	9.51918	0.4770763	1.3784	0	0	3.7228
10:27:16				63	9.52507	0.4785204	1.3784	0	0	3.73421
10:27:17				64	9.53382	0.4772367	1.3784	0	0	3.72262
10:27:17				65	9.52702	0.4767556	1.3784	0	0	3.71932
10:27:18				66	9.51821	0.4780389	1.3784	0	0	3.73091
10:27:18				67	9.51141	0.477718	1.3784	0	0	3.72894
10:27:19				68	9.50266	0.4770764	1.3784	0	0	3.7245
10:27:19				69	9.49974	0.4770764	1.3784	0	0	3.72481
10:27:20				70	9.4978	0.4781995	1.3784	0	0	3.73436
10:27:20				71	9.49585	0.4775576	1.3784	0	0	3.72922
10:27:21				72	9.49196	0.476916	1.3784	0	0	3.72427
10:27:21				73	9.49682	0.4778785	1.3784	0	0	3.73179
10:27:22				74	9.49877	0.4773972	1.3784	0	0	3.72758
10:27:22				75	9.49974	0.4775576	1.3784	0	0	3.72881
10:27:23				76	9.50071	0.4770764	1.3784	0	0	3.72471
10:27:23				77	9.50363	0.477718	1.3784	0	0	3.72975
10:27:24				78	9.50168	0.477718	1.3784	0	0	3.72995
10:27:24				79	9.50168	0.4772368	1.3784	0	0	3.72594
10:27:25				80	9.49682	0.477718	1.3784	0	0	3.73045
10:27:25				81	9.49293	0.4775576	1.3784	0	0	3.72952
10:27:26				82	9.49682	0.4773972	1.3784	0	0	3.72778
10:27:26				83	9.4978	0.4773972	1.3784	0	0	3.72768
10:27:27				84	9.50557	0.4772368	1.3784	0	0	3.72554
10:27:27				85	9.50655	0.4773972	1.3784	0	0	3.72677
10:27:28				86	9.50946	0.4772367	1.3784	0	0	3.72514
10:27:28				87	9.50946	0.4773972	1.3784	0	0	3.72647
10:27:29				88	9.51238	0.4773972	1.3784	0	0	3.72617
10:27:29				89	9.51335	0.4772367	1.3784	0	0	3.72474
10:27:30				90	9.52022	0.4772367	1.3784	0	0	3.72403
10:27:30				91	9.52507	0.4770763	1.3784	0	0	3.72219
10:27:31				92	9.52896	0.4773971	1.3784	0	0	3.72446
10:27:31				93	9.52216	0.4773971	1.3784	0	0	3.72516
10:27:32				94	9.52799	0.4769159	1.3784	0	0	3.72056
10:27:32				95	9.53382	0.4806051	1.3784	0	0	3.75065
10:27:33				96	9.52799	0.4960032	1.3784	0.58608	0.29304	3.8796

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:33				97	9.52022	0.4952011	1.3784	0.34188	0.09768	3.87374
10:27:34				98	9.5241	0.4982493	1.3784	1.4652	0.9768	3.89877
10:27:34				99	9.52799	0.4980886	1.3784	1.36752	6.34921	3.89701
10:27:35				100	9.52993	0.4995333	1.3784	1.4652	6.69109	3.90886
10:27:35				101	9.52702	0.4984099	1.3784	1.41636	6.69109	3.89979
10:27:36				102	9.52799	0.4960032	1.3784	1.4652	6.49573	3.8796
10:27:36				103	9.52702	0.4952011	1.3784	1.41636	6.59341	3.87301
10:27:37				104	9.52507	0.4961636	1.3784	1.41636	6.69109	3.88125
10:27:37				105	9.52507	0.5012976	1.3784	1.4652	7.08181	3.92412
10:27:38				106	9.52507	0.5025805	1.3784	1.41636	6.78877	3.93484
10:27:38				107	9.52993	0.5094784	1.3784	1.4652	6.69109	3.99197
10:27:39				108	9.53577	0.5117245	1.3784	1.4652	6.93529	4.01011
10:27:39				109	9.5484	0.5146117	1.3784	1.41636	6.39805	4.03285
10:27:40				110	9.55131	0.5179806	1.3784	1.4652	6.98413	4.06071
10:27:40				111	9.5572	0.5288904	1.3784	1.4652	6.59341	4.15142
10:27:41				112	9.56594	0.5590549	1.3784	1.41636	6.64225	4.40379
10:27:41				113	9.57566	0.5850509	1.3784	1.41636	7.03297	4.62182
10:27:42				114	9.57954	0.5807184	1.3784	1.4652	7.08181	4.58474
10:27:42				115	9.58051	0.5890645	1.3784	1.41636	6.69109	4.65511
10:27:43				116	9.58731	0.5898657	1.3784	1.4652	6.69109	4.66101
10:27:43				117	9.60096	0.6362548	1.3784	1.4652	6.20269	5.05242
10:27:44				118	9.61261	0.6219682	1.3784	1.4652	6.30037	4.92947
10:27:44				119	9.63208	0.5953232	1.3784	1.41636	6.05617	4.70131
10:27:45				120	9.64275	0.5874593	1.3784	1.41636	6.34921	4.63355
10:27:45				121	9.63111	0.5882617	1.3784	1.4652	6.73993	4.64182
10:27:46				122	9.63111	0.5897057	1.3784	1.41636	6.05617	4.654
10:27:46				123	9.63305	0.583125	1.4768	1.41636	6.20269	4.59823
10:27:47				124	9.63402	0.5900273	1.3784	1.41636	6.83761	4.65634
10:27:48				127	9.69367	0.623394	1.3784	1.41636	6.10501	4.93049
10:27:49				128	9.71021	0.6314169	1.3784	1.41636	6.10501	4.99616
10:27:49				129	9.71118	0.6485888	1.3784	1.41636	5.95849	5.14165
10:27:50				130	9.7073	0.6484296	1.3784	1.4652	5.95849	5.14085
10:27:50				131	9.70827	0.6797287	1.3784	1.4652	5.86081	5.40701
10:27:51				132	9.71893	0.6961013	1.3784	1.4652	6.00733	5.54509
10:27:51				133	9.73734	0.7179352	1.3784	1.4652	5.71429	5.72888
10:27:52				134	9.75581	0.7144038	1.3784	1.41636	5.56777	5.69576
10:27:52				135	9.77712	0.7092655	1.3784	1.41636	5.61661	5.64851
10:27:53				136	9.78583	0.7007579	1.3784	1.41636	5.47009	5.57455
10:27:53				137	9.78486	0.6911257	1.3784	1.41636	5.81197	5.49259
10:27:54				138	9.78976	0.683581	1.3784	1.4652	5.90965	5.42761
10:27:54				139	9.77712	0.6956201	1.3784	1.4652	5.76313	5.53207
10:27:55				140	9.7684	0.6953001	1.4768	1.41636	6.05617	5.53067
10:27:55				141	9.76356	0.702203	1.3784	1.41636	6.05617	5.59031
10:27:56				142	9.76356	0.7071797	1.3784	1.41636	5.56777	5.63281
10:27:56				143	9.7655	0.6688121	1.3784	1.41636	5.51893	5.3056

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:57				144	9.75387	0.6548495	1.3784	1.41636	5.42125	5.1887
10:27:57				145	9.73734	0.6325405	1.3784	1.41636	5.42125	5.00192
10:27:58				146	9.73056	0.618098	1.3784	1.41636	5.71429	4.88069
10:27:58				147	9.71796	0.623714	1.3784	1.41636	5.66545	4.92988
10:27:59				148	9.71021	0.6209862	1.3784	1.41636	5.37241	4.90786
10:27:59				149	9.70827	0.6310958	1.3784	1.41636	5.27473	4.99371
10:28:00				150	9.71021	0.6407257	1.3784	1.41636	5.27473	5.07506
10:28:00				151	9.71118	0.6408861	1.3784	1.41636	5.12821	5.07629
10:28:01				152	9.71506	0.6413675	1.3784	1.41636	5.22589	5.07983
10:28:01				153	9.71603	0.6434529	1.3784	1.41636	5.07937	5.09738
10:28:02				154	9.71603	0.6418489	1.3784	1.41636	5.37241	5.08377
10:28:02				155	9.7199	0.6318979	1.3784	1.41636	5.22589	4.99889
10:28:03				156	9.71021	0.630294	1.3784	1.41636	5.42125	4.98665
10:28:03				157	9.70046	0.6535651	1.3784	1.41636	5.37241	5.18545
10:28:04				158	9.70827	0.6517993	1.3784	1.41636	5.66545	5.16933
10:28:04				159	9.72378	0.6474654	1.3784	1.41636	5.76313	5.13033
10:28:05				160	9.72669	0.6477874	1.3784	1.41636	5.61661	5.13265
10:28:05	10:26:50 start transect	10.0	90	161	9.72184	0.6500332	1.3784	1.41636	5.56777	5.1524
10:28:06				162	9.72475	0.6538861	1.3784	1.41636	5.81197	5.1847
10:28:06				163	9.72572	0.6307746	1.3784	1.41636	5.61661	4.98858
10:28:07				164	9.70827	0.6386394	1.3784	1.41636	5.51893	5.05764
10:28:07				165	9.70343	0.6408861	1.3784	1.41636	5.47009	5.07738
10:28:08				166	9.70143	0.6318979	1.3784	1.4652	5.76313	5.00145
10:28:08				167	9.69755	0.6420095	1.3784	1.41636	5.86081	5.08774
10:28:09				168	9.69658	0.6349477	1.3784	1.41636	5.95849	5.02797
10:28:09				169	9.68398	0.6542073	1.3784	1.41636	6.15385	5.19328
10:28:10				170	9.69658	0.6465036	1.3784	1.41636	6.00733	5.12602
10:28:10				171	9.6927	0.6408861	1.3784	1.41636	6.20269	5.07889
10:28:11				172	9.68882	0.6566145	1.3784	1.4652	6.00733	5.21305
10:28:11				173	9.68301	0.6633549	1.3784	1.4652	5.95849	5.27125
10:28:12				174	9.68495	0.6760354	1.3784	1.4652	5.66545	5.379
10:28:12				175	9.69561	0.7044495	1.3784	1.4652	5.51893	5.62005
10:28:13				176	9.71796	0.7182567	1.3784	1.4652	5.47009	5.73471
10:28:13				177	9.75	0.7227528	1.3784	1.4652	5.22589	5.76811
10:28:14				178	9.78976	0.7193802	1.3784	1.4652	5.27473	5.73293
10:28:14				179	9.81686	0.7344744	1.3784	1.4652	5.17705	5.85768
10:28:15				180	9.82364	0.7433053	1.3784	1.41636	5.37241	5.93217
10:28:15				181	9.83434	0.7564729	1.3784	1.41636	5.03053	6.04324
10:28:16				182	9.84498	0.7524573	1.3784	1.41636	4.83516	6.00705
10:28:16				183	9.85175	0.7550265	1.3784	1.41636	4.83516	6.02794
10:28:17				184	9.86336	0.7775105	1.3784	1.41636	4.73748	6.21886
10:28:17				185	9.87109	0.7646626	1.3784	1.4652	4.884	6.10729
10:28:18				186	9.86916	0.7539019	1.3784	1.41636	4.49328	6.01541
10:28:18				187	9.86626	0.769319	1.3784	1.41636	4.44444	6.14805
10:28:19				188	9.87013	0.7598442	1.3784	1.4652	4.49328	6.06615

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:19				189	9.87399	0.7739772	1.3784	1.4652	4.54212	6.1867
10:28:20				190	9.87399	0.7453929	1.3784	1.41636	4.49328	5.94179
10:28:20				191	9.85369	0.7431445	1.3784	1.4652	4.884	5.92588
10:28:21				192	9.84208	0.7445891	1.3784	1.4652	5.07937	5.94014
10:28:21				193	9.84788	0.7381659	1.3784	1.41636	5.17705	5.88423
10:28:22				194	9.84014	0.742502	1.3784	1.41636	4.884	5.92259
10:28:22				195	9.83821	0.7497279	1.3784	1.41636	4.884	5.98479
10:28:23				196	9.83918	0.7522978	1.3784	1.4652	4.98168	6.00665
10:28:23				197	9.84014	0.7272485	1.3784	1.41636	4.884	5.79215
10:28:24				198	9.84111	0.7066979	1.3784	1.41636	8.10745	5.61664
10:28:24				199	9.80525	0.6811724	1.3784	1.4652	5.51893	5.4048
10:28:25				200	9.77131	0.6736278	1.3784	1.4652	5.51893	5.34569
10:28:25				201	9.75775	0.654688	1.3784	1.41636	6.05617	5.18677
10:28:26				202	9.73928	0.6498738	1.3784	1.4652	5.76313	5.14856
10:28:26				203	9.72669	0.6630342	1.3784	1.41636	5.76313	5.26215
10:28:27				204	9.72765	0.6692945	1.3784	1.41636	5.86081	5.31526
10:28:27				205	9.73347	0.6463427	1.3784	1.4652	5.71429	5.11943
10:28:28				206	9.73444	0.6482685	1.3784	1.41636	5.51893	5.13563
10:28:28				207	9.72572	0.6668874	1.3784	1.41636	5.66545	5.29507
10:28:29				208	9.72572	0.6832592	1.2801	1.4652	5.66545	5.43449
10:28:29				209	9.72378	0.7121566	1.3784	1.41636	5.61661	5.68157
10:28:30				210	9.72475	0.6822974	1.3784	1.4652	4.93284	5.42643
10:28:30				211	9.72669	0.6736279	1.3784	1.4652	5.17705	5.35229
10:28:31				212	9.7325	0.6659239	1.3784	1.41636	4.93284	5.28588
10:28:31				213	9.74413	0.666245	1.3784	1.41636	4.93284	5.28691
10:28:32				214	9.75968	0.6633548	1.3784	1.4652	4.78632	5.26008
10:28:32				215	9.7655	0.6673675	1.3784	1.41636	5.03053	5.29332
10:28:33				216	9.76743	0.6625531	1.4768	1.4652	5.12821	5.25214
10:28:33				217	9.77131	0.6980283	1.3784	1.41636	5.17705	5.5535
10:28:34				218	9.7684	0.7127979	1.3784	1.4652	5.51893	5.68005
10:28:34				219	9.76356	0.7034874	1.3784	1.4652	5.27473	5.60128
10:28:35				220	9.75678	0.6932129	1.3784	1.41636	5.17705	5.51465
10:28:35				221	9.76162	0.6890388	1.3784	1.4652	5.37241	5.47833
10:28:36				222	9.7684	0.6818157	1.3784	1.41636	5.37241	5.41579
10:28:36				223	9.77518	0.6879141	1.3784	1.4652	5.32357	5.4667
10:28:37				224	9.77712	0.6879141	1.3784	1.4652	5.47009	5.4664
10:28:37				225	9.78099	0.6824573	1.3784	1.41636	5.56777	5.41936
10:28:38				226	9.79751	0.6880762	1.3784	1.4652	5.51893	5.4647
10:28:38				227	9.7917	0.6920878	1.3784	1.41636	5.32357	5.49975
10:28:39				228	9.78583	0.7420204	1.3784	1.41636	5.61661	5.92736
10:28:39				229	9.7868	0.7375249	1.3784	1.41636	5.76313	5.88868
10:28:40				230	9.7917	0.7346346	1.3784	1.4652	5.51893	5.86313
10:28:40				231	9.79267	0.7513341	1.3784	1.41636	5.32357	6.0061
10:28:41				232	9.79751	0.7812031	1.3784	1.4652	5.61661	6.26196
10:28:41				233	9.81493	0.8017624	1.3784	1.41636	5.32357	6.43603

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:42				234	9.82848	0.788592	1.3784	1.41636	5.37241	6.32018
10:28:42				235	9.85272	0.7898762	1.3784	1.4652	4.98168	6.32699
10:28:43				236	9.87013	0.771247	1.3784	1.4652	4.884	6.16393
10:28:43				237	9.87303	0.775261	1.3784	1.41636	5.03053	6.19789
10:28:44				238	9.86336	0.7860217	1.3784	1.4652	5.03053	6.29199
10:28:44				239	9.86142	0.7832908	1.3784	1.41636	5.07937	6.26885
10:28:45				240	9.86723	0.7739772	1.3784	1.41636	5.17705	6.18786
10:28:45				241	9.86626	0.7842546	1.3784	1.41636	5.03053	6.2763
10:28:46				242	9.86819	0.7969442	1.3784	1.4652	4.93284	6.38509
10:28:46				243	9.86916	0.7985485	1.3784	1.41636	5.03053	6.39873
10:28:47				244	9.86432	0.7963001	1.3784	1.4652	5.56777	6.38023
10:28:48				247	9.85701	0.7673077	1.3784	1.41636	5.81197	6.13236
10:28:49				248	9.826	0.6965072	1.3784	1.4652	6.00733	5.53216
10:28:49				249	9.79303	0.6828627	1.3784	1.41636	6.10501	5.42101
10:28:50				250	9.76398	0.6721094	1.3784	1.4652	6.30037	5.33386
10:28:50				251	9.72517	0.6836648	1.3784	1.41636	6.10501	5.43803
10:28:51				252	9.697	0.720586	1.3784	1.4652	6.05617	5.758
10:28:51				253	9.67373	0.7160905	1.3784	1.41636	6.15385	5.72316
10:28:52				254	9.67082	0.7066192	1.3784	1.41636	6.25153	5.64248
10:28:52				255	9.68343	0.6894438	1.3784	1.4652	6.44689	5.49365
10:28:53				256	9.69797	0.7154482	1.3784	1.41636	5.86081	5.71382
10:28:53				257	9.72033	0.7184987	1.3784	1.4652	5.76313	5.7364
10:28:54				258	9.73002	0.7173755	1.3784	1.41636	6.15385	5.72525
10:28:54				259	9.73002	0.6905674	1.3784	1.4652	6.05617	5.49616
10:28:55				260	9.71936	0.6984331	1.3784	1.4652	5.51893	5.56494
10:28:55				261	9.71154	0.678529	1.3784	1.41636	5.76313	5.39629
10:28:56				262	9.72033	0.6815795	1.3784	1.41636	5.90965	5.42098
10:28:56				263	9.72323	0.6902463	1.3784	1.41636	5.66545	5.49445
10:28:57				264	9.72711	0.692654	1.3784	1.4652	5.61661	5.51441
10:28:57				265	9.72614	0.6740353	1.3784	1.4652	5.76313	5.35584
10:28:58				266	9.7242	0.6660105	1.3784	1.41636	5.86081	5.28783
10:28:58				267	9.72614	0.6672935	1.3784	1.41636	6.20269	5.29846
10:28:59				268	9.7242	0.6692204	1.3784	1.41636	5.76313	5.31514
10:28:59				269	9.71936	0.677085	1.3784	1.4652	5.32357	5.38282
10:29:00				270	9.71548	0.6790117	1.3784	1.41636	5.22589	5.39982
10:29:00				271	9.71548	0.6791714	1.3784	1.41636	5.37241	5.40118
10:29:01				272	9.7213	0.6830228	1.3784	1.4652	5.37241	5.43314
10:29:01				273	9.72905	0.6820611	1.3784	1.41636	5.86081	5.42377
10:29:02				274	9.7368	0.6790116	1.3784	1.4652	5.47009	5.39663
10:29:02				275	9.73971	0.6764432	1.3784	1.4652	5.61661	5.37433
10:29:03				276	9.74261	0.6737148	1.3784	1.41636	5.42125	5.35067
10:29:03				277	9.74261	0.6719485	1.3784	1.4652	5.42125	5.33564
10:29:04				278	9.74164	0.6690596	1.3784	1.41636	5.61661	5.31121
10:29:04				279	9.74164	0.669701	1.3784	1.4652	5.37241	5.31666
10:29:05				280	9.73874	0.6623191	1.3784	1.4652	5.81197	5.25432

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:05				281	9.73971	0.6600727	1.2801	1.41636	6.00733	5.2351
10:29:06				282	9.73292	0.6597508	1.3784	1.4652	5.90965	5.23334
10:29:06				283	9.73389	0.6640847	1.3784	1.41636	6.10501	5.27004
10:29:07				284	9.73389	0.6658499	1.3784	1.41636	5.51893	5.28505
10:29:07				285	9.73195	0.666974	1.3784	1.4652	5.37241	5.29489
10:29:08				286	9.73486	0.6664922	1.3784	1.41636	5.56777	5.29037
10:29:08				287	9.73389	0.666171	1.3784	1.41636	5.86081	5.28778
10:29:09				288	9.73099	0.6562211	1.3784	1.4652	5.27473	5.20363
10:29:09				289	9.72808	0.6510844	1.3784	1.4652	5.66545	5.16043
10:29:10				290	9.72711	0.648197	1.3784	1.41636	5.81197	5.13606
10:29:10				291	9.73099	0.6544548	1.3784	1.41636	5.47009	5.18863
10:29:11				292	9.73002	0.6626397	1.3784	1.4652	5.61661	5.25832
10:29:11				293	9.72905	0.6637639	1.3784	1.41636	5.71429	5.26801
10:29:12				294	9.72711	0.6619986	1.3784	1.41636	5.81197	5.25329
10:29:12				295	9.72905	0.6573437	1.3784	1.41636	5.71429	5.21345
10:29:13				296	9.72905	0.6534916	1.3784	1.4652	5.90965	5.18073
10:29:13				297	9.72711	0.653332	1.3784	1.4652	5.51893	5.17965
10:29:14				298	9.72614	0.6515663	1.3784	1.4652	5.47009	5.1648
10:29:14				299	9.72517	0.6522079	1.3784	1.41636	5.61661	5.17039
10:29:15				300	9.7242	0.6526901	1.3784	1.41636	5.66545	5.17462
10:29:15				301	9.72323	0.6467521	1.3784	1.4652	5.90965	5.12435
10:29:16				302	9.71839	0.6382477	1.3784	1.4652	5.86081	5.05291
10:29:16				303	9.71348	0.627816	1.3784	1.41636	5.76313	4.96521
10:29:17				304	9.71348	0.6268544	1.3784	1.4652	5.76313	4.95707
10:29:17				305	9.71251	0.6266933	1.3784	1.4652	5.61661	4.95584
10:29:18				306	9.7096	0.6254101	1.3784	1.4652	5.61661	4.94538
10:29:18				307	9.70767	0.6291007	1.3784	1.41636	5.56777	4.97689
10:29:19				308	9.7096	0.6311863	1.3784	1.4652	6.00733	4.99429
10:29:19				309	9.70767	0.6265322	1.3784	1.4652	5.71429	4.95514
10:29:20				310	9.70476	0.6247679	1.3784	1.41636	5.76313	4.94061
10:29:20				311	9.70282	0.621078	1.3784	1.41636	5.95849	4.90964
10:29:21				312	9.69991	0.624126	1.3784	1.4652	6.05617	4.93583
10:29:21				313	9.69603	0.6220405	1.3784	1.4652	6.00733	4.91871
10:29:22				314	9.6941	0.6189921	1.3784	1.4652	6.10501	4.89318
10:29:22				315	9.69991	0.6141773	1.3784	1.4652	6.49573	4.85167
10:29:23				316	9.697	0.6047115	1.3784	1.41636	6.30037	4.77209
10:29:23				317	9.69313	0.5960484	1.3784	1.4652	6.39805	4.69949
10:29:24				318	9.69022	0.5955672	1.3784	1.4652	6.34921	4.69581
10:29:24				319	9.68246	0.594443	1.3784	1.4652	6.25153	4.68734
10:29:25				320	9.67664	0.5889896	1.3784	1.41636	6.34921	4.6421
10:29:25				321	9.67082	0.583695	1.3784	1.4652	6.25153	4.59823
10:29:26				322	9.67082	0.5875461	1.3784	1.4652	6.15385	4.63068
10:29:26				323	9.66494	0.5852987	1.3784	1.4652	6.34921	4.61249
10:29:27				324	9.66397	0.586423	1.3784	1.41636	6.30037	4.62209
10:29:27				325	9.66882	0.5833744	1.3784	1.41636	6.10501	4.59579

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:28				326	9.67276	0.5828928	1.3784	1.41636	6.15385	4.59123
10:29:28				327	9.6747	0.5827334	1.3784	1.4652	6.15385	4.58964
10:29:29				328	9.67082	0.5820909	1.3784	1.4652	6.15385	4.58472
10:29:29				329	9.67082	0.586423	1.4768	1.41636	6.20269	4.62121
10:29:30				330	9.663	0.5877059	1.3784	1.4652	6.05617	4.63303
10:29:30				331	9.66203	0.5873846	1.3784	1.41636	6.05617	4.63045
10:29:31				332	9.66203	0.5833744	1.3784	1.41636	6.10501	4.59665
10:29:31				333	9.66009	0.5792029	1.3784	1.4652	6.20269	4.56175
10:29:32				334	9.6533	0.5804864	1.3784	1.41636	5.95849	4.57342
10:29:32				335	9.64748	0.5793638	1.3784	1.41636	6.20269	4.5647
10:29:33				336	9.6436	0.5800054	1.3784	1.4652	6.25153	4.5706
10:29:33				337	9.6436	0.5820909	1.3784	1.4652	6.25153	4.58818
10:29:34				338	9.64069	0.6005405	1.3784	1.4652	6.00733	4.74427
10:29:34				339	9.63778	0.5952465	1.3784	1.41636	6.05617	4.69992
10:29:35				340	9.63778	0.5954069	1.3784	1.4652	6.15385	4.70128
10:29:35				341	9.63584	0.5913961	1.3784	1.4652	6.15385	4.66766
10:29:36				342	9.63681	0.5905942	1.3784	1.4652	6.20269	4.66077
10:29:36				343	9.63681	0.5930008	1.3784	1.41636	6.73993	4.68109
10:29:37				344	9.63972	0.5955673	1.3784	1.41636	6.59341	4.70238
10:29:37				345	9.64166	0.6035892	1.3784	1.4652	6.34921	4.76992
10:29:38				346	9.64554	0.6043911	1.3784	1.4652	6.54457	4.77618
10:29:38				347	9.64748	0.6112901	1.3784	1.41636	6.44689	4.83428
10:29:39				348	9.65039	0.6180294	1.3784	1.4652	6.25153	4.89095
10:29:39				349	9.65621	0.6316673	1.3784	1.4652	5.90965	5.00576
10:29:40				350	9.67373	0.6270138	1.3784	1.41636	5.90965	4.96388
10:29:40				351	9.68537	0.6233234	1.3784	1.4652	5.81197	4.93102
10:29:41				352	9.68925	0.6249289	1.3784	1.4652	6.39805	4.94409
10:29:41				353	9.68828	0.6205961	1.3784	1.41636	6.25153	4.90754
10:29:42				354	9.69022	0.6108087	1.3784	1.41636	6.05617	4.8245
10:29:42	10:28:27 AM start profile	10.0	180	355	9.68828	0.612895	1.3784	1.41636	5.81197	4.84239
10:29:43				356	9.68634	0.6148197	1.3784	1.4652	6.34921	4.85893
10:29:43			180	357	9.68052	0.6047115	1.3784	1.4652	6.15385	4.77427
10:29:44				358	9.67373	0.607279	1.3784	1.41636	5.95849	4.79686
10:29:44				359	9.66688	0.6615162	1.4768	1.41636	5.81197	5.25794
10:29:45				360	9.67858	0.6581471	1.4768	1.41636	6.00733	5.22756
10:29:45				361	9.69119	0.9094659	1.4768	1.41636	5.71429	7.39543
10:29:46				362	9.7727	0.9128409	1.6736	1.4652	5.76313	7.40821
10:29:46				363	9.90348	0.9268197	1.5752	1.51404	5.42125	7.50325
10:29:47				364	9.96343	0.9753546	1.772	1.4652	4.54212	7.91411
10:29:48				367	10.08258	0.9950597	2.0671	1.4652	3.4188	8.05999
10:29:49				368	10.10956	1.0389428	2.2639	1.4652	3.07692	8.43753
10:29:49				369	10.13756	1.0374947	2.3623	1.4652	3.07692	8.41835
10:29:50				370	10.14912	1.0688466	2.4606	1.4652	2.97924	8.69029
10:29:50				371	10.17126	1.0538929	2.559	1.4652	3.02808	8.55399
10:29:51				372	10.17511	1.0567872	2.6574	1.41636	2.73504	8.57841

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:51				373	10.17319	1.0743113	2.7558	1.4652	2.6862	8.73242
10:29:52				374	10.17999	1.0783326	2.7558	1.4652	2.73504	8.76605
10:29:52				375	10.1848	1.0908733	2.8542	1.4652	2.73504	8.87492
10:29:53				376	10.20501	1.0977878	2.8542	1.41636	3.85836	8.93069
10:29:53				377	10.25893	1.0944106	2.9526	1.4652	2.83272	8.88786
10:29:54				378	10.28007	1.1058267	3.0509	1.4652	2.6862	8.98274
10:29:54				379	10.29743	1.1167611	3.1493	1.41636	2.6862	9.07432
10:29:55				380	10.282	1.1481214	3.1493	1.4652	2.49084	9.35374
10:29:55				381	10.26469	1.1429748	3.2477	1.4652	2.49084	9.31287
10:29:56				382	10.26566	1.1497309	3.3461	1.4652	2.34432	9.37208
10:29:56				383	10.2859	1.1600247	3.3461	1.41636	2.10012	9.45749
10:29:57				384	10.33201	1.1645263	3.4445	1.4652	2.29548	9.48513
10:29:57				385	10.35416	1.1661354	3.6412	1.4652	2.14896	9.4935
10:29:58				386	10.37144	1.1617929	3.7396	1.41636	2.1978	9.45082
10:29:58				387	10.37624	1.16903	3.838	1.4652	2.1978	9.51317
10:29:59				388	10.39549	1.1728915	3.838	1.4652	2.24664	9.54209
10:29:59				389	10.42139	1.1801301	4.1331	1.41636	2.39316	9.59888
10:30:00				390	10.40988	1.1767512	4.1331	1.4652	2.39316	9.57221
10:30:00				391	10.37624	1.1950879	4.1331	1.4652	2.24664	9.74246
10:30:01				392	10.33585	1.2037761	4.3299	1.4652	2.442	9.82987
10:30:01				393	10.29263	1.2135888	4.4283	1.41636	2.53968	9.92826
10:30:02				394	10.27623	1.208281	4.4283	1.41636	2.24664	9.88578
10:30:02				395	10.27527	1.2211499	4.5267	1.4652	2.10012	9.9999
10:30:03				396	10.27911	1.2446384	4.6251	1.4652	2.14896	10.20694
10:30:03				397	10.30512	1.2541323	4.7234	1.4652	2.14896	10.28382
10:30:04				398	10.3532	1.253004	5.0186	1.4652	2.05128	10.26023
10:30:04				399	10.35896	1.2507534	5.117	1.4652	1.80708	10.23867
10:30:05				400	10.35992	1.2621752	5.2153	1.41636	1.66056	10.33955
10:30:05				401	10.35224	1.2578318	5.3137	1.4652	1.56288	10.30322
10:30:06				402	10.34648	1.2644292	5.4121	1.41636	1.66056	10.36331
10:30:06				403	10.3388	1.2645894	5.5105	1.41636	1.56288	10.3669
10:30:07				404	10.33687	1.2679688	5.6089	1.4652	1.51404	10.3974
10:30:07				405	10.33976	1.2660373	5.7073	1.4652	1.66056	10.37944
10:30:08				406	10.35608	1.2671631	5.8056	1.4652	2.00244	10.38476
10:30:08				407	10.35992	1.2678085	5.8056	1.4652	1.85592	10.38939
10:30:09				408	10.36184	1.2673255	5.904	1.4652	1.66056	10.38454
10:30:09				409	10.3724	1.2724747	6.0024	1.4652	1.7094	10.42716
10:30:10				410	10.37624	1.2795542	6.1008	1.41636	1.75824	10.48882
10:30:10				411	10.38199	1.2882424	6.2976	1.4652	1.51404	10.5642
10:30:11				412	10.38967	1.2816454	6.4943	1.4652	1.41636	10.50344
10:30:11				413	10.38967	1.2887262	6.5927	1.41636	1.4652	10.56623
10:30:12				414	10.38679	1.2921051	6.5927	1.41636	1.7094	10.59704
10:30:12				415	10.37911	1.2980599	6.6911	1.4652	1.56288	10.65213
10:30:13				416	10.36376	1.2932307	6.7895	1.4652	1.51404	10.6137
10:30:13				417	10.3532	1.2978983	6.8878	1.4652	1.75824	10.65823

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:30:14				418	10.34168	1.2948413	6.8878	1.4652	1.4652	10.63442
10:30:14				419	10.33976	1.3035303	6.8878	1.4652	1.26984	10.71223
10:30:15				420	10.32529	1.3046574	7.0846	1.41636	1.85592	10.72648
10:30:15				421	10.31088	1.3046575	7.183	1.4652	1.4652	10.7307
10:30:16				422	10.3032	1.3139917	7.2814	1.4652	1.41636	10.81609
10:30:16				423	10.29551	1.333144	7.4781	1.41636	1.4652	10.98914
10:30:17				424	10.26277	1.345215	7.5765	1.4652	1.4652	11.10687
10:30:17				425	10.21174	1.364367	7.7733	1.4652	1.51404	11.294
10:30:18				426	10.19923	1.390928	7.7733	1.41636	1.56288	11.53633
10:30:18				427	10.15682	1.429081	7.9701	1.4652	1.61172	11.89347
10:30:19				428	10.06324	1.4305308	8.0684	1.4652	1.56288	11.93723
10:30:19				429	10.01495	1.5165158	8.0684	1.4652	1.4652	12.73426
10:30:20				430	9.93379	1.548405	8.1668	1.4652	1.51404	13.0543
10:30:20				431	9.8341	1.5616115	8.2652	1.4652	1.51404	13.21153
10:30:21				432	9.68864	1.5529157	8.462	1.4652	1.66056	13.18463
10:30:21				433	9.59829	1.5851308	8.6587	1.41636	1.75824	13.51565
10:30:22				434	9.54579	1.6539199	8.7571	1.4652	1.56288	14.17466
10:30:22				435	9.50588	1.6842099	8.9539	1.41636	1.61172	14.47307
10:30:23				436	9.39484	1.7597895	9.0523	1.41636	1.51404	15.22782
10:30:23				437	9.27672	1.8063699	9.1506	1.41636	1.66056	15.7187
10:30:24				438	9.25129	1.9026129	9.249	1.41636	1.56288	16.6449
10:30:24				439	8.94472	1.925027	9.4458	1.41636	1.56288	17.004
10:30:25				440	8.79438	2.0196906	9.5442	1.4652	1.80708	17.99389
10:30:25				441	8.67422	2.1159902	9.6426	1.4652	2.05128	18.99688
10:30:26				442	8.58447	2.1119561	9.7409	1.4652	1.90476	19.00536
10:30:26				443	8.41151	2.1700381	9.8393	1.4652	1.7094	19.67322
10:30:27				444	8.26585	2.1658434	9.8393	1.51404	2.05128	19.71289
10:30:27				445	8.2043	2.2891308	10.1345	1.51404	1.85592	20.98018
10:30:28				446	8.13277	2.3504676	10.3312	1.4652	1.56288	21.64047
10:30:28				447	8.03433	2.4206906	10.528	1.4652	1.4652	22.4127
10:30:29				448	7.84892	2.4455532	10.6264	1.4652	1.41636	22.78548
10:30:29				449	7.72299	2.3929238	10.8232	1.41636	1.36752	22.3287
10:30:30				450	7.67199	2.3741984	10.7248	1.4652	1.26984	22.16969
10:30:30				451	7.74202	2.3654813	10.7248	1.4652	1.26984	22.03625
10:30:31				452	7.87688	2.4135863	10.7248	1.41636	1.221	22.44113
10:30:31				453	7.9467	2.3590225	10.7248	1.41636	1.26984	21.84215
10:30:32				454	7.97058	2.3515976	10.7248	1.4652	1.66056	21.75202
10:30:32				455	7.98251	2.3548251	10.8232	1.41636	1.36752	21.77728
10:30:33				456	8.00544	2.3825907	10.8232	1.41636	1.26984	22.04437
10:30:33				457	8.0124	2.4000244	10.8232	1.41636	1.17216	22.21681
10:30:34				458	7.97058	2.3932464	10.8232	1.41636	1.31868	22.17448
10:30:34				459	7.9118	2.4074536	10.8232	1.41636	1.41636	22.35629
10:30:35				460	7.86487	2.4429715	10.8232	1.4652	1.36752	22.74867
10:30:35				461	7.81198	2.4431342	10.8232	1.4652	1.31868	22.78476
10:30:36				462	7.76304	2.4545973	10.8232	1.4652	1.26984	22.93413

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:30:36				463	7.718	2.4552421	10.8232	1.4652	1.26984	22.97035
10:30:37				464	7.68498	2.4736502	10.7248	1.4652	1.26984	23.1813
10:30:37				465	7.659	2.4700986	10.8232	1.4652	1.31868	23.162
10:30:38				466	7.63495	2.4692898	10.8232	1.4652	1.66056	23.16966
10:30:38				467	7.59188	2.4696131	10.8232	1.4652	1.31868	23.20165
10:30:39				468	7.56781	2.4723582	10.8232	1.41636	1.07448	23.24602
10:30:39				469	7.54472	2.4786566	10.8232	1.4652	1.12332	23.32646
10:30:40				470	7.55179	2.4784933	10.8232	1.4652	1.07448	23.32004
10:30:40				471	7.5578	2.4796242	10.8232	1.4652	1.12332	23.32769
10:30:41				472	7.53671	2.4804319	10.7248	1.4652	1.07448	23.3502
10:30:41				473	7.53071	2.4828553	10.7248	1.4652	1.221	23.37927
10:30:42				474	7.5267	2.4899591	10.8232	1.41636	1.12332	23.45534
10:30:42				475	7.52269	2.49319	10.8232	1.4652	1.07448	23.49144
10:30:43				476	7.5257	2.4938357	10.7248	1.4652	1.12332	23.49613
10:30:43				477	7.53872	2.4941571	10.8232	1.41636	1.221	23.49062
10:30:44				478	7.53571	2.4925412	10.8232	1.4652	1.07448	23.47595
10:30:44				479	7.53571	2.4927048	10.8232	1.4652	1.36752	23.47764
10:30:45				480	7.53972	2.4935112	10.8232	1.41636	1.07448	23.48327
10:30:45				481	7.54072	2.4946422	10.7248	1.4652	1.12332	23.49432
10:30:46				482	7.54172	2.4969018	10.8232	1.4652	1.07448	23.51696
10:30:46				483	7.54072	2.5012628	10.8232	1.41636	1.26984	23.56272
10:30:47				484	7.54372	2.5015846	10.7248	1.41636	1.07448	23.56405
10:30:48				487	7.56268	2.5031701	10.8232	1.41636	1.07448	23.56756
10:30:49				488	7.55067	2.5055912	10.8232	1.4652	1.02564	23.60073
10:30:49				489	7.55267	2.5080133	10.8232	1.4652	1.26984	23.62441
10:30:50				490	7.55067	2.5177026	10.8232	1.41636	0.9768	23.72597
10:30:50				491	7.55067	2.5147956	10.7248	1.4652	1.41636	23.69593
10:30:51				492	7.5436	2.5154439	10.8232	1.41636	1.07448	23.70742
10:30:51				493	7.53258	2.5177028	10.8232	1.4652	1.02564	23.7383
10:30:52				494	7.52057	2.5170574	10.8232	1.4652	1.02564	23.73982
10:30:52				495	7.50955	2.5173802	10.8232	1.4652	1.02564	23.75069
10:30:53				496	7.50348	2.5185099	10.8232	1.4652	0.9768	23.76654
10:30:53				497	7.49246	2.5246464	10.8232	1.4652	1.02564	23.83766
10:30:54				498	7.49747	2.5265854	10.8232	1.4652	1.02564	23.85433
10:30:54				499	7.47743	2.5270705	10.8232	1.4652	0.9768	23.87311
10:30:55				500	7.4493	2.5243266	10.8232	1.4652	1.02564	23.86396
10:30:55				501	7.43921	2.5209349	10.7248	1.4652	1.02564	23.83573
10:30:56				502	7.42918	2.5227114	10.8232	1.4652	1.02564	23.86102
10:30:56				503	7.42718	2.5273942	10.8232	1.4652	0.9768	23.91103
10:30:57				504	7.43821	2.5306219	10.8232	1.4652	1.17216	23.93695
10:30:57				505	7.44729	2.5272324	10.8232	1.4652	1.75824	23.8955
10:30:58				506	7.45632	2.5248082	10.8232	1.4652	1.02564	23.86414
10:30:58				507	7.46233	2.5272323	10.8232	1.4652	1.07448	23.88516
10:30:59				508	7.47542	2.526424	10.8232	1.41636	1.07448	23.86778
10:30:59				509	7.48043	2.5251312	10.8232	1.4652	0.9768	23.85094

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:31:00				510	7.47436	2.5265856	10.8232	1.4652	1.02564	23.87019
10:31:00				511	7.46534	2.5275555	10.8232	1.41636	0.9768	23.88645
10:31:01				512	7.46033	2.5262625	10.8232	1.4652	0.9768	23.87648
10:31:01				513	7.46333	2.5261009	10.8232	1.4652	0.9768	23.87273
10:31:02				514	7.46834	2.5288458	10.8232	1.41636	1.07448	23.89777
10:31:02				515	7.47943	2.5280404	10.8232	1.4652	1.07448	23.88179
10:31:03				516	7.49246	2.5296541	10.8232	1.4652	1.02564	23.88958
10:31:03				517	7.48745	2.527717	10.8232	1.41636	1.02564	23.87293
10:31:04				518	7.50147	2.5235184	10.8232	1.4652	1.02564	23.81979
10:31:04				519	7.52858	2.5220645	10.8232	1.4652	1.02564	23.78619
10:31:05				520	7.53559	2.522549	10.8232	1.41636	1.02564	23.78641
10:31:05				521	7.51957	2.5209343	10.8232	1.4652	1.02564	23.78065
10:31:06				522	7.47436	2.5189944	10.8232	1.4652	1.02564	23.79147
10:31:06				523	7.48344	2.5193201	10.8232	1.41636	1.12332	23.78863
10:31:07				524	7.50248	2.517703	10.8232	1.4652	1.17216	23.75886
10:31:07				525	7.50955	2.5154441	10.8232	1.4652	1.12332	23.73064
10:31:08				526	7.52758	2.5131831	10.8232	1.41636	1.07448	23.69494
10:31:08				527	7.54866	2.5175413	10.8232	1.4652	1.02564	23.72566
10:31:09				528	7.55667	2.5165731	10.8232	1.4652	1.02564	23.71019
10:31:09				529	7.53158	2.5094666	10.8232	1.41636	1.26984	23.65376
10:31:10				530	7.51356	2.509792	10.8232	1.4652	0.9768	23.66939
10:31:10				531	7.52357	2.5178642	10.8232	1.4652	1.02564	23.74612
10:31:11				532	7.52157	2.518994	10.7248	1.41636	0.9768	23.75922
10:31:11				533	7.50147	2.5198043	10.8232	1.4652	0.9768	23.78131
10:31:12				534	7.49847	2.5170576	10.8232	1.4652	1.02564	23.75491
10:31:12				535	7.50748	2.5156055	10.8232	1.41636	1.02564	23.73372
10:31:13				536	7.51856	2.5133444	10.8232	1.41636	0.9768	23.70275
10:31:13				537	7.51957	2.5139895	10.8232	1.4652	1.02564	23.70875
10:31:14				538	7.52157	2.5084998	10.8232	1.41636	1.02564	23.65057
10:31:14				539	7.55167	2.5047831	10.7248	1.4652	1.02564	23.59173
10:31:15				540	7.55567	2.5084995	10.7248	1.4652	1.02564	23.62743
10:31:15				541	7.55267	2.5084995	10.6264	1.41636	1.07448	23.6295
10:31:16				542	7.54967	2.5086607	10.6264	1.4652	1.07448	23.63321
10:31:16	10:30:01 AM bottom of prof	10.0	180	543	7.5436	2.5072078	10.6264	1.41636	1.12332	23.62231
10:31:17				544	7.53759	2.5060774	10.528	1.41636	1.02564	23.61473
10:31:17				545	7.53358	2.4887992	10.528	1.4652	1.07448	23.43882
10:31:18				546	7.5436	2.4829859	10.528	1.4652	1.07448	23.37203
10:31:18				547	7.56168	2.4490772	10.4296	1.41636	1.07448	23.0102
10:31:19				548	7.57569	2.4369653	10.2329	1.4652	1.17216	22.87629
10:31:19				549	7.60776	2.3817503	10.0361	1.4652	1.12332	22.28824
10:31:20				550	7.71288	2.3451062	9.7409	1.41636	1.31868	21.84694
10:31:20				551	7.91864	2.3329974	9.4458	1.4652	1.36752	21.59604
10:31:21				552	8.04812	2.157086	9.3474	1.4652	1.31868	19.74782
10:31:21				553	8.10088	2.1532135	9.1506	1.4652	1.66056	19.67954
10:31:22				554	8.18732	2.0819049	9.0523	1.4652	1.56288	18.92204

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:31:22				555	8.28361	1.9594823	8.7571	1.4652	1.51404	17.66275
10:31:23				556	8.63865	1.8248494	8.5604	1.4652	1.66056	16.1811
10:31:23				557	9.14368	1.6148617	8.1668	1.4652	2.10012	13.96711
10:31:24				558	9.3616	1.6425716	7.9701	1.4652	1.7094	14.14145
10:31:24				559	9.61668	1.4597579	7.7733	1.4652	1.51404	12.35349
10:31:25				560	9.79043	1.4913195	7.4781	1.4652	1.4652	12.58277
10:31:25				561	9.98497	1.3815103	7.2814	1.4652	1.51404	11.51955
10:31:26				562	10.09601	1.3325765	6.9862	1.4652	1.9536	11.04453
10:31:26				563	10.16741	1.3695968	6.7895	1.41636	2.10012	11.35489
10:31:27				564	10.21649	1.329035	6.4943	1.4652	1.9536	10.97641
10:31:27				565	10.2531	1.3140673	6.2976	1.4652	1.61172	10.8318
10:31:28				566	10.27911	1.2991012	6.0024	1.4652	1.4652	10.69075
10:31:28				567	10.30121	1.2949164	5.8056	1.4652	1.36752	10.64707
10:31:29				568	10.33297	1.2839739	5.6089	1.4652	1.80708	10.54059
10:31:29				569	10.3397	1.2802723	5.4121	1.4652	1.4652	10.50581
10:31:30				570	10.33585	1.2706174	5.117	1.4652	1.4652	10.42127
10:31:30				571	10.33489	1.2562975	4.9202	1.4652	1.56288	10.29458
10:31:31				572	10.32043	1.242942	4.7234	1.41636	1.51404	10.18034
10:31:31				573	10.29929	1.2337707	4.5267	1.4652	2.00244	10.10502
10:31:32				574	10.27431	1.2218642	4.2315	1.4652	2.83272	10.00653
10:31:32				575	10.26367	1.1948389	3.9364	1.41636	2.00244	9.7704
10:31:33				576	10.27911	1.1967683	3.838	1.41636	1.9536	9.78332
10:31:33				577	10.29545	1.1764992	3.6412	1.4652	2.05128	9.60012
10:31:34				578	10.31947	1.1764991	3.4445	1.41636	2.442	9.59383
10:31:34				579	10.3397	1.1580018	3.1493	1.41636	2.24664	9.42579
10:31:35				580	10.3541	1.1547838	2.9526	1.4652	2.29548	9.39382
10:31:35				581	10.35602	1.1589659	2.7558	1.41636	2.39316	9.4301
10:31:36				582	10.34162	1.1452958	2.559	1.41636	2.39316	9.31373
10:31:36				583	10.32529	1.1147386	2.4606	1.4652	2.34432	9.04976
10:31:37				584	10.27238	1.129535	2.3623	1.41636	2.49084	9.19286
10:31:37				585	10.23964	1.0774316	2.1655	1.41636	2.97924	8.74389
10:31:38				586	10.20398	0.9922271	1.9687	1.41636	2.97924	8.0085
10:31:38				587	10.12691	0.93887	1.8703	1.41636	2.73504	7.56161
10:31:39				588	10.06999	0.8586954	1.772	1.41636	2.83272	6.8799
10:31:39				589	9.96856	0.8195024	1.5752	1.4652	2.78388	6.56126
10:31:40				590	9.89695	0.7530199	1.4768	1.41636	3.12576	6.00324
10:31:40				591	9.86596	0.7668283	1.2801	1.41636	4.24908	6.12674
10:31:41				592	9.82533	0.6732385	1.1817	1.4652	4.73748	5.33443
10:31:41				593	9.79043	0.6676219	1.0833	1.41636	5.12821	5.29186
10:31:42				594	9.76422	0.6512527	0.9849	1.4652	5.61661	5.15674
10:31:42				595	9.74485	0.6485243	0.9849	1.4652	6.83761	5.13635
10:31:43				596	9.73904	0.6470792	0.9849	1.41636	6.44689	5.12492
10:31:43				597	9.74291	0.6416241	0.9849	1.4652	6.88645	5.07812
10:31:44				598	9.74679	0.7326311	0.9849	1.4652	6.64225	5.85327
10:31:44				599	9.75551	0.7321495	1.0833	1.41636	6.69109	5.84773

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:31:45				600	9.80398	0.7873827	1.1817	1.4652	6.78877	6.31406
10:31:45				601	9.85532	0.8052087	1.1817	1.4652	6.49573	6.45857
10:31:46				602	9.88922	0.8350825	1.2801	1.4652	6.15385	6.71011
10:31:46				603	9.89405	0.8071371	1.3784	1.4652	5.81197	6.46824
10:31:47				604	9.89309	0.8040848	1.3784	1.4652	5.47009	6.44214
10:31:48				607	9.8532	0.826898	1.3784	1.4652	6.00733	6.64605
10:31:49				608	9.86384	0.8026455	1.3784	1.4652	5.90965	6.43495
10:31:49				609	9.86771	0.7992736	1.3784	1.4652	5.56777	6.40523
10:31:50				610	9.85707	0.816298	1.4768	1.4652	5.66545	6.55383
10:31:50				611	9.85224	0.8466555	1.3784	1.4652	5.81197	6.81708
10:31:51				612	9.85901	0.8848888	1.3784	1.4652	5.86081	7.14737
10:31:51				613	9.89387	0.8876213	1.4768	1.4652	6.44689	7.1642
10:31:52				614	9.90644	0.8742868	1.3784	1.4652	6.15385	7.04606
10:31:52				615	9.90257	0.8864954	1.4768	1.4652	5.76313	7.15271
10:31:53				616	9.92576	0.8893884	1.4768	1.4652	5.61661	7.17323
10:31:53				617	9.94225	0.9028833	1.4768	1.51404	5.27473	7.2871
10:31:54				618	9.9548	0.8026452	1.3784	1.4652	5.47009	6.41882
10:31:54				619	9.93935	0.77679	1.3784	1.4652	5.12821	6.19966
10:31:55				620	9.9132	0.7616965	1.4768	1.4652	5.22589	6.07479
10:31:55				621	9.89774	0.7636238	1.3784	1.41636	5.71429	6.0939
10:31:56				622	9.89291	0.7644269	1.3784	1.4652	5.66545	6.1016
10:31:56				623	9.88904	0.7551147	1.3784	1.4652	5.56777	6.02249
10:31:57				624	9.87061	0.7398609	1.3784	1.4652	5.37241	5.89503
10:31:57	10:30:42 at surface	10.0	180	625	9.85417	0.71578	1.4768	1.4652	5.86081	5.69202
10:31:58	continue transect			626	9.8416	0.7177059	1.3784	1.4652	6.00733	5.71044
10:31:58				627	9.83186	0.7109645	1.4768	1.4652	6.10501	5.65445
10:31:59				628	9.83476	0.6979604	1.4768	1.4652	6.34921	5.54318
10:31:59				629	9.84256	0.7051838	1.3784	1.4652	6.39805	5.60352
10:32:00				630	9.8367	0.7167437	1.4768	1.4652	6.10501	5.70299
10:32:00				631	9.82702	0.7215588	1.3784	1.4652	6.25153	5.74564
10:32:01				632	9.81832	0.6854405	1.3784	1.4652	6.39805	5.43914
10:32:01				633	9.80573	0.6745277	1.3784	1.4652	6.25153	5.34825
10:32:02				634	9.79509	0.6714781	1.3784	1.4652	6.30037	5.32391
10:32:02				635	9.77857	0.6533426	1.4768	1.4652	6.30037	5.17237
10:32:03				636	9.76211	0.6677863	1.3784	1.4652	6.30037	5.29738
10:32:03				637	9.76114	0.6754898	1.4768	1.4652	6.25153	5.36302
10:32:04				638	9.76307	0.673885	1.4768	1.4652	6.10501	5.34908
10:32:04				639	9.76307	0.6714781	1.3784	1.41636	6.34921	5.32862
10:32:05				640	9.76307	0.6701944	1.4768	1.4652	6.25153	5.3177
10:32:05				641	9.75533	0.663935	1.3784	1.4652	6.34921	5.26564
10:32:06				642	9.75339	0.667465	1.3784	1.4652	6.54457	5.29593
10:32:06				643	9.75242	0.6766135	1.3784	1.4652	6.59341	5.37389
10:32:07				644	9.74661	0.6766136	1.4768	1.4652	6.54457	5.37474
10:32:07				645	9.74758	0.6756511	1.3784	1.4652	6.20269	5.36641
10:32:08				646	9.74951	0.6782186	1.3784	1.4652	6.25153	5.38798

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:08				647	9.75629	0.6941082	1.3784	1.4652	6.10501	5.52236
10:32:09				648	9.76307	0.701011	1.3784	1.4652	6.00733	5.58021
10:32:09				649	9.77179	0.6994055	1.3784	1.4652	5.81197	5.56517
10:32:10				650	9.79025	0.7083952	1.3784	1.41636	5.86081	5.63903
10:32:10				651	9.77373	0.7193118	1.3784	1.41636	6.20269	5.73489
10:32:11				652	9.79412	0.7133711	1.3784	1.4652	6.59341	5.68091
10:32:11				653	9.80186	0.7093593	1.3784	1.4652	6.25153	5.64544
10:32:12				654	9.79993	0.7130503	1.3784	1.41636	6.05617	5.67726
10:32:12				655	9.79702	0.6904177	1.3784	1.4652	6.30037	5.48471
10:32:13				656	9.79025	0.6770958	1.3784	1.41636	6.49573	5.37237
10:32:13				657	9.76598	0.6551079	1.3784	1.4652	6.88645	5.18916
10:32:14				658	9.74073	0.6734034	1.3784	1.4652	6.64225	5.3483
10:32:14				659	9.7437	0.7416265	1.3784	1.4652	6.39805	5.93089
10:32:15				660	9.8038	0.7686013	1.3784	1.41636	5.90965	6.1525
10:32:15				661	9.86481	0.7793598	1.3784	1.4652	5.56777	6.23449
10:32:16				662	9.87061	0.7889957	1.3784	1.41636	5.27473	6.3163
10:32:16				663	9.86384	0.7790392	1.3784	1.41636	5.03053	6.23191
10:32:17				664	9.85127	0.7755074	1.3784	1.4652	5.17705	6.20373
10:32:17				665	9.87448	0.7854623	1.3784	1.41636	5.07937	6.28525
10:32:18				666	9.88028	0.7676381	1.3784	1.4652	5.32357	6.13125
10:32:18				667	9.87448	0.7763088	1.3784	1.4652	5.17705	6.20663
10:32:19				668	9.87448	0.7901201	1.3784	1.41636	5.22589	6.32529
10:32:19				669	9.88221	0.8100338	1.3784	1.41636	5.32357	6.49531
10:32:20				670	9.89194	0.8320378	1.3784	1.4652	5.12821	6.68331
10:32:20				671	9.92673	0.8328407	1.3784	1.41636	4.83516	6.68382
10:32:21				672	9.94611	0.8346087	1.3784	1.4652	4.59096	6.69549
10:32:21				673	9.96832	0.8387842	1.3784	1.4652	4.05372	6.72739
10:32:22				674	9.96736	0.8482613	1.3784	1.41636	3.85836	6.80931
10:32:22				675	9.97508	0.8505111	1.3784	1.41636	3.663	6.82728
10:32:23				676	9.97315	0.8558117	1.3784	1.41636	3.71184	6.87341
10:32:23				677	9.9548	0.8625584	1.3784	1.41636	3.9072	6.9352
10:32:24				678	9.94225	0.8182255	1.3784	1.4652	3.56532	6.55505
10:32:24				679	9.94128	0.8288262	1.3784	1.4652	3.56532	6.64653
10:32:25				680	9.95287	0.8235249	1.3784	1.41636	3.663	6.59875
10:32:25				681	9.94997	0.8264159	1.3784	1.4652	3.4188	6.62417
10:32:26				682	9.94804	0.8326796	1.3784	1.4652	4.10256	6.67851
10:32:26				683	9.93452	0.828344	1.3784	1.41636	4.68864	6.64362
10:32:27				684	9.92576	0.8148511	1.3784	1.4652	4.68864	6.52897
10:32:27				685	9.90934	0.7999165	1.3784	1.4652	4.884	6.4034
10:32:28				686	9.89097	0.797988	1.3784	1.41636	4.68864	6.39006
10:32:28				687	9.87158	0.8052163	1.3784	1.4652	4.98168	6.45571
10:32:29				688	9.86481	0.7702072	1.3784	1.4652	5.07937	6.15592
10:32:29				689	9.84643	0.7833745	1.3784	1.4652	4.83516	6.27217
10:32:30				690	9.83573	0.7873903	1.3784	1.4652	4.68864	6.30857
10:32:30				691	9.83283	0.7724557	1.3784	1.4652	4.78632	6.18067

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:31				692	9.83283	0.7735797	1.3784	1.41636	5.03053	6.19032
10:32:31				693	9.82896	0.7748634	1.3784	1.4652	4.93284	6.20202
10:32:32				694	9.8367	0.7615366	1.4768	1.4652	5.03053	6.08626
10:32:32				695	9.83773	0.730709	1.3784	1.4652	5.27473	5.82211
10:32:33				696	9.82896	0.7443573	1.3784	1.4652	5.32357	5.94031
10:32:33				697	9.81735	0.7466051	1.4768	1.4652	5.12821	5.96146
10:32:34				698	9.81154	0.7329582	1.3784	1.4652	5.03053	5.84557
10:32:34				699	9.80477	0.7295853	1.3784	1.4652	5.22589	5.8178
10:32:35				700	9.80089	0.7509385	1.3784	1.4652	5.51893	6.00134
10:32:35				701	9.81541	0.7560765	1.3784	1.4652	5.47009	6.043
10:32:36				702	9.82606	0.7631415	1.3784	1.4652	5.37241	6.10184
10:32:36				703	9.81541	0.7605727	1.3784	1.41636	5.17705	6.08158
10:32:37				704	9.79896	0.7573619	1.3784	1.4652	5.22589	6.05678
10:32:37				705	9.79412	0.7514204	1.3784	1.4652	5.03053	6.0066
10:32:38				706	9.8067	0.7459616	1.3784	1.41636	5.32357	5.95771
10:32:38				707	9.79799	0.7437145	1.3784	1.4652	5.37241	5.93988
10:32:39				708	9.79025	0.7458008	1.3784	1.4652	5.32357	5.95904
10:32:39				709	9.78922	0.788996	1.3784	1.41636	5.47009	6.33052
10:32:40				710	9.81832	0.7663528	1.3784	1.4652	5.27473	6.13072
10:32:40				711	9.82509	0.7652303	1.3784	1.4652	5.03053	6.11993
10:32:41				712	9.83476	0.7376124	1.3784	1.41636	4.98168	5.88163
10:32:41				713	9.83186	0.746925	1.4768	1.4652	4.884	5.96181
10:32:42				714	9.81541	0.7671568	1.3784	1.4652	4.78632	6.13811
10:32:42				715	9.85997	0.7753463	1.3784	1.41636	4.78632	6.20085
10:32:43				716	9.86964	0.7600907	1.3784	1.4652	4.83516	6.06835
10:32:43				717	9.8532	0.7633035	1.3784	1.4652	4.83516	6.09865
10:32:44				718	9.85514	0.7604126	1.3784	1.41636	4.68864	6.07354
10:32:44				719	9.85707	0.7350439	1.3784	1.4652	4.98168	5.85605
10:32:45				720	9.83476	0.7188293	1.3784	1.4652	5.12821	5.72111
10:32:45				721	9.81832	0.7116055	1.3784	1.4652	5.27473	5.66204
10:32:46				722	9.81541	0.7255722	1.4768	1.4652	5.61661	5.78177
10:32:46				723	9.80961	0.7233248	1.3784	1.4652	5.61661	5.7635
10:32:47				724	9.80477	0.7295853	1.3784	1.4652	5.71429	5.8178
10:32:48				727	9.81747	0.7398349	1.3784	1.4652	5.76313	5.90346
10:32:49				728	9.81263	0.7202491	1.3784	1.4652	5.61661	5.73674
10:32:49				729	9.79908	0.7250662	1.3784	1.4652	5.81197	5.78006
10:32:50				730	9.79037	0.7358223	1.3784	1.4652	5.66545	5.87351
10:32:50				731	9.78746	0.733574	1.3784	1.4652	5.90965	5.85473
10:32:51				732	9.78069	0.7093336	1.3784	1.4652	6.10501	5.64853
10:32:51				733	9.77778	0.7101361	1.3784	1.4652	5.51893	5.65584
10:32:52				734	9.77778	0.7290785	1.3784	1.4652	5.42125	5.81781
10:32:52				735	9.79037	0.7226583	1.3784	1.41636	5.81197	5.76086
10:32:53				736	9.79327	0.7159149	1.3784	1.4652	5.61661	5.70277
10:32:53				737	9.77875	0.712385	1.3784	1.41636	5.71429	5.6749
10:32:54				738	9.76416	0.7094956	1.3784	1.41636	5.42125	5.65249

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:54				739	9.76223	0.697135	1.3784	1.41636	5.42125	5.54727
10:32:55				740	9.76997	0.7112612	1.3784	1.41636	5.66545	5.66667
10:32:55				741	9.77191	0.7046789	1.4768	1.41636	5.61661	5.61015
10:32:56				742	9.76997	0.6915182	1.3784	1.41636	5.66545	5.49819
10:32:56				743	9.77385	0.6968147	1.4768	1.4652	5.61661	5.54275
10:32:57				744	9.77778	0.7005068	1.3784	1.41636	5.27473	5.57364
10:32:57				745	9.77875	0.7046789	1.3784	1.4652	5.56777	5.60909
10:32:58				746	9.78649	0.7091735	1.3784	1.4652	5.47009	5.64626
10:32:58				747	9.79037	0.7090134	1.3784	1.4652	5.42125	5.64428
10:32:59				748	9.78843	0.7143097	1.3784	1.4652	5.51893	5.68982
10:32:59				749	9.78649	0.7025919	1.3784	1.4652	6.20269	5.59009
10:33:00				750	9.78262	0.7048405	1.3784	1.4652	5.76313	5.60987
10:33:00				751	9.78069	0.7086914	1.3784	1.4652	5.51893	5.64305
10:33:01				752	9.78262	0.7045191	1.4768	1.4652	6.10501	5.60712
10:33:01				753	9.78746	0.7059629	1.3784	1.4652	6.10501	5.6187
10:33:02				754	9.7894	0.7094955	1.3784	1.4652	5.86081	5.64855
10:33:02				755	9.79714	0.7096556	1.3784	1.4652	6.05617	5.64871
10:33:03				756	9.79714	0.7021112	1.3784	1.4652	5.95849	5.58434
10:33:03				757	9.79908	0.6992223	1.3784	1.4652	6.05617	5.55941
10:33:04				758	9.79714	0.6997041	1.3784	1.41636	6.25153	5.56382
10:33:04				759	9.79424	0.6955305	1.3784	1.4652	6.34921	5.52869
10:33:05				760	9.7894	0.7013079	1.3784	1.4652	6.34921	5.57869
10:33:05				761	9.7894	0.6944061	1.3784	1.41636	5.86081	5.51985
10:33:06				762	9.79134	0.6905545	1.2801	1.4652	5.95849	5.48675
10:33:06				763	9.79134	0.6919983	1.3784	1.4652	6.20269	5.49904
10:33:07				764	9.78746	0.6891099	1.3784	1.41636	5.81197	5.47502
10:33:07				765	9.78746	0.6852586	1.3784	1.4652	5.86081	5.44223
10:33:08				766	9.78649	0.6863819	1.3784	1.4652	6.10501	5.45194
10:33:08				767	9.78456	0.6785161	1.3784	1.41636	5.76313	5.3853
10:33:09				768	9.78553	0.6791585	1.4768	1.4652	5.95849	5.39061
10:33:09				769	9.78359	0.6798012	1.3784	1.4652	6.00733	5.39637
10:33:10				770	9.78069	0.6788373	1.4768	1.41636	6.00733	5.3886
10:33:10				771	9.77675	0.6756275	1.3784	1.4652	6.39805	5.36189
10:33:11				772	9.77288	0.6709736	1.3784	1.4652	6.30037	5.32289
10:33:11				773	9.77094	0.6733816	1.3784	1.41636	6.20269	5.34365
10:33:12				774	9.76997	0.6684057	1.3784	1.4652	6.44689	5.30149
10:33:12				775	9.76416	0.6647155	1.3784	1.4652	6.98413	5.27099
10:33:13				776	9.75545	0.6563701	1.3784	1.41636	6.49573	5.20138
10:33:13				777	9.7477	0.6603822	1.4768	1.4652	6.54457	5.23656
10:33:14				778	9.74867	0.6677647	1.3784	1.4652	6.30037	5.29917
10:33:14				779	9.75448	0.6696902	1.3784	1.4652	6.93529	5.31468
10:33:15				780	9.75254	0.6659978	1.3784	1.4652	6.25153	5.28358
10:33:15				781	9.73898	0.6599001	1.4768	1.4652	6.44689	5.23372
10:33:16				782	9.73123	0.6639117	1.3784	1.41636	6.44689	5.26895
10:33:16				783	9.73413	0.6602221	1.3784	1.4652	6.39805	5.23717

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:17				784	9.73898	0.6510736	1.3784	1.41636	6.34921	5.15878
10:33:17				785	9.74189	0.6589379	1.3784	1.41636	6.34921	5.22514
10:33:18				786	9.74964	0.6589379	1.4768	1.4652	6.54457	5.22401
10:33:18				787	9.74867	0.6602221	1.3784	1.41636	6.30037	5.23507
10:33:19				788	9.74382	0.6579744	1.4768	1.41636	6.25153	5.21667
10:33:19				789	9.75157	0.6531598	1.4768	1.4652	6.54457	5.17468
10:33:20				790	9.7477	0.6414458	1.3784	1.4652	6.49573	5.07591
10:33:20				791	9.73898	0.6472222	1.4768	1.4652	6.34921	5.1261
10:33:21				792	9.72245	0.6406436	1.3784	1.4652	6.25153	5.07265
10:33:21				793	9.71663	0.6400021	1.3784	1.4652	6.34921	5.06803
10:33:22				794	9.70694	0.6351877	1.3784	1.4652	6.20269	5.02857
10:33:22				795	9.705	0.6408041	1.4768	1.4652	6.59341	5.07645
10:33:23				796	9.705	0.643212	1.3784	1.4652	6.59341	5.09689
10:33:23				797	9.71082	0.6462605	1.3784	1.4652	6.44689	5.12194
10:33:24				798	9.71372	0.6448152	1.3784	1.41636	6.64225	5.10926
10:33:24				799	9.71469	0.6632702	1.4768	1.4652	6.39805	5.2659
10:33:25				800	9.71179	0.6786778	1.3784	1.4652	6.69109	5.39752
10:33:25				801	9.7176	0.6759484	1.3784	1.41636	6.69109	5.3734
10:33:26				802	9.72438	0.7321291	1.3784	1.4652	6.49573	5.85256
10:33:26				803	9.73801	0.7334141	1.3784	1.4652	6.49573	5.86137
10:33:27				804	9.77875	0.7497898	1.3784	1.41636	6.39805	5.99516
10:33:27				805	9.81263	0.7566928	1.3784	1.4652	6.15385	6.04875
10:33:28				806	9.83301	0.740318	1.3784	1.4652	6.10501	5.90507
10:33:28				807	9.84075	0.754927	1.3784	1.41636	6.15385	6.02892
10:33:29				808	9.82134	0.7167179	1.3784	1.4652	6.10501	5.7052
10:33:29				809	9.80005	0.7083713	1.3784	1.4652	5.76313	5.6373
10:33:30				810	9.80005	0.7626348	1.4768	1.4652	5.47009	6.10186
10:33:30				811	9.82037	0.7820635	1.4768	1.4652	5.27473	6.2654
10:33:31				812	9.85042	0.7735532	1.3784	1.4652	5.47009	6.18709
10:33:31				813	9.85816	0.7687353	1.3784	1.4652	5.03053	6.14441
10:33:32				814	9.85042	0.7854358	1.4768	1.4652	5.07937	6.28919
10:33:32				815	9.88723	0.7953924	1.4768	1.41636	5.03053	6.36838
10:33:33				816	9.91042	0.7695381	1.3784	1.41636	4.884	6.14244
10:33:33				817	9.88819	0.7565329	1.3784	1.4652	4.59096	6.03477
10:33:34				818	9.88239	0.7634373	1.3784	1.41636	4.6398	6.09489
10:33:34				819	9.87853	0.7650416	1.4768	1.4652	4.59096	6.10928
10:33:35				820	9.87659	0.773873	1.3784	1.4652	4.78632	6.18537
10:33:35				821	9.87756	0.7632771	1.3784	1.41636	5.03053	6.09433
10:33:36				822	9.82327	0.6294107	1.3784	1.4652	5.42125	4.96363
10:33:36	10:32:21 complete transect	10.0	270	823	9.7176	0.6101587	1.2801	1.4652	5.95849	4.81536
10:33:37				824	9.71179	0.6117627	1.1817	1.4652	6.15385	4.82969
10:33:37				825	9.70209	0.5949169	1.0833	1.4652	6.39805	4.68881
10:33:38				826	9.67101	0.5827247	0.9849	1.4652	6.54457	4.59006
10:33:38				827	9.65937	0.5849709	0.8865	1.4652	6.49573	4.61048
10:33:39				828	9.65161	0.5859336	0.6898	1.4652	6.30037	4.6196

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:39				829	9.63511	0.5856127	0.6898	1.41636	10.74481	4.619
10:33:40				830	9.63414	0.585774	0.5914	1.4652	7.42369	4.62049
10:33:40				831	9.63608	0.1052553	0.6898	1.4652	5.17705	0.75251
10:33:41				832	9.63705	0.1519525	0.5914	1.4652	6.83761	1.1057
10:33:41				833	9.63899	0.3039984	0.6898	0	0	2.29809
10:33:42				834	9.63997	0.5910672	0.5914	0	0	4.66441
10:33:42				835	9.63997	0.3749557	0.5914	0	0	2.87114
10:33:43				836	9.64482	0.0619331	0.5914	0	0	0.43284
10:33:43				837	9.64579	0.082393	0.6898	0	0	0.58256
10:33:44				838	9.64967	0.1254036	0.5914	0	0	0.90362
10:33:44				839	9.65452	0.0889483	0.6898	0	0	0.63084
10:33:45				840	9.65161	0.056659	0.6898	0	0	0.39456
10:33:45				841	9.65452	0.0713632	0.6898	0	0	0.50144
10:33:46	10:32:37	10.0	270	842	9.65064	0.0545816	0.6898	0	0	0.37957
	10:35:42 begin pumping dye									
10:41:38	10:40:22 switch on	10.0	270	7	9.8185	0.7941856	1.3784	0	0	6.37009
10:41:39				8	9.80688	0.7786068	1.3784	0	0	6.238
10:41:39				9	9.79908	0.7509873	1.3784	0	0	6.00206
10:41:40				10	9.7923	0.756768	1.3784	0	0	6.0528
10:41:40				11	9.78843	0.7681689	1.2801	0	0	6.1514
10:41:41				12	9.79037	0.7720226	1.3784	0	0	6.1842
10:41:41				13	9.84075	0.7757158	1.3784	0	0	6.20732
10:41:42				14	9.86692	0.7813378	1.3784	0	0	6.25112
10:41:42				15	9.88143	0.7786066	1.4768	0	0	6.22516
10:41:43				16	9.86789	0.7715401	1.3784	0	0	6.16683
10:41:43				17	9.86112	0.7617455	1.4768	0	0	6.08395
10:41:44				18	9.85435	0.7609434	1.3784	0	0	6.07822
10:41:44				19	9.85532	0.7535567	1.4768	0	0	6.01474
10:41:45				20	9.87563	0.7712205	1.3784	0	0	6.16277
10:41:45				21	9.89889	0.792418	1.3784	0	0	6.34078
10:41:46				22	9.90855	0.8100856	1.3784	0	0	6.49104
10:41:46				23	9.91145	0.8274321	1.3784	0	0	6.63998
10:41:47				24	9.91628	0.832412	1.4768	0	0	6.68204
10:41:47				25	9.92981	0.837713	1.3784	0	0	6.72529
10:41:48				26	9.93464	0.8380338	1.3784	0	0	6.72716
10:41:48				27	9.95209	0.8383565	1.4768	0	0	6.7267
10:41:49				28	9.96367	0.8365877	1.4768	0	0	6.7093
10:41:49				29	9.96657	0.8460661	1.3784	0	0	6.79052
10:41:50				30	9.98298	0.8505638	1.3784	0	0	6.82625
10:41:50				31	9.99656	0.8560271	1.4768	0	0	6.87082
10:41:51				32	10.0091	0.8647011	1.3784	0	0	6.94333
10:41:51				33	10.00331	0.8666295	1.3784	0	0	6.96109
10:41:52				34	9.99559	0.8650234	1.4768	0	0	6.94868

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:52				35	9.99752	0.86695	1.3784	0	0	6.96497
10:41:53				36	9.98691	0.8610058	1.4768	0	0	6.91564
10:41:53				37	9.98009	0.8690396	1.3784	0	0	6.98638
10:41:54				38	9.98491	0.8656661	1.4768	0	0	6.95628
10:41:54				39	9.99849	0.8539386	1.3784	0	0	6.85244
10:41:55				40	10.01007	0.8561876	1.4768	0	0	6.86965
10:41:55				41	10.00524	0.8666295	1.4768	0	0	6.96071
10:41:56				42	10.00621	0.8558665	1.4768	0	0	6.86761
10:41:56				43	10.0091	0.8532949	1.4768	0	0	6.84488
10:41:57				44	9.99559	0.855706	1.3784	0	0	6.86824
10:41:57				45	9.99463	0.858919	1.4768	0	0	6.89615
10:41:58				46	9.99463	0.8561877	1.4768	0	0	6.87257
10:41:58				47	9.9927	0.8529742	1.4768	0	0	6.84521
10:41:59				48	9.99849	0.8544199	1.4768	0	0	6.85659
10:41:59				49	9.9898	0.8619714	1.4768	0	0	6.92343
10:42:00				50	9.99077	0.8585976	1.4768	0	0	6.89411
10:42:00				51	9.99849	0.8532949	1.4768	0	0	6.84688
10:42:01				52	9.99945	0.8550619	1.4768	0	0	6.86194
10:42:01				53	9.99366	0.8619713	1.4768	0	0	6.92269
10:42:02				54	9.99366	0.8560271	1.4768	0	0	6.87137
10:42:02				55	9.99077	0.8534553	1.3784	0	0	6.84973
10:42:03				56	9.97429	0.8555435	1.3784	0	0	6.87087
10:42:03				57	9.96367	0.8602035	1.3784	0	0	6.91315
10:42:04				58	9.93561	0.8577942	1.4768	0	0	6.89765
10:42:04				59	9.85338	0.8528142	1.4768	0	0	6.87018
10:42:05				60	9.81946	0.8555439	1.4768	0	0	6.90029
10:42:05				61	9.79424	0.8608475	1.4768	0	0	6.95114
10:42:06				62	9.78456	0.854902	1.3784	0	0	6.90139
10:42:06				63	9.76035	0.8531352	1.3784	0	0	6.89067
10:42:07				64	9.75157	0.8552231	1.3784	0	0	6.91048
10:42:07				65	9.75157	0.857634	1.3784	0	0	6.93143
10:42:08				66	9.75351	0.8566701	1.3784	0	0	6.92268
10:42:08				67	9.76422	0.8528144	1.4768	0	0	6.88713
10:42:09				68	9.79521	0.855223	1.4768	0	0	6.90213
10:42:09				69	9.83011	0.8552229	1.4768	0	0	6.89548
10:42:10				70	9.86596	0.8544203	1.4768	0	0	6.8817
10:42:10				71	9.88046	0.8536161	1.4768	0	0	6.87198
10:42:11				72	9.86402	0.8534557	1.4768	0	0	6.87372
10:42:11				73	9.84075	0.8552228	1.4768	0	0	6.89345
10:42:12				74	9.82333	0.8547414	1.4768	0	0	6.89259
10:42:12				75	9.83688	0.8526539	1.3784	0	0	6.87193
10:42:13				76	9.84952	0.8526538	1.3784	0	0	6.86953
10:42:13				77	9.86015	0.8531349	1.4768	0	0	6.87167
10:42:14				78	9.88046	0.8520105	1.4768	0	0	6.85809
10:42:14				79	9.88336	0.8497612	1.3784	0	0	6.83809

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:15				80	9.87949	0.8481542	1.3784	0	0	6.82491
10:42:15				81	9.87853	0.8479941	1.4768	0	0	6.8237
10:42:16				82	9.88239	0.8489585	1.4768	0	0	6.83131
10:42:16				83	9.88626	0.8504039	1.3784	0	0	6.8431
10:42:17				84	9.89013	0.8449412	1.3784	0	0	6.79513
10:42:17				85	9.89309	0.8455846	1.4768	0	0	6.80012
10:42:18				86	9.91145	0.851207	1.4768	0	0	6.84528
10:42:18				87	9.91918	0.8484762	1.3784	0	0	6.82022
10:42:19				88	9.93078	0.8454246	1.4768	0	0	6.79167
10:42:19				89	9.94436	0.8454246	1.3784	0	0	6.78914
10:42:20				90	9.95498	0.8502435	1.4768	0	0	6.82874
10:42:20				91	9.95305	0.848316	1.3784	0	0	6.81247
10:42:21				92	9.95498	0.8434968	1.4768	0	0	6.7705
10:42:21				93	9.96464	0.8452627	1.4768	0	0	6.78394
10:42:22				94	9.97333	0.8497609	1.4768	0	0	6.82112
10:42:22				95	9.97816	0.8398015	1.4768	0	0	6.73432
10:42:23				96	9.98691	0.884625	1.4768	0.58608	0.29304	7.11989
10:42:23				97	9.97719	0.8778769	1.4768	0.39072	0.09768	7.06338
10:42:24				98	9.99559	0.8859086	1.4768	1.4652	0.9768	7.1293
10:42:24				99	10.01586	0.8899259	1.3784	1.4652	0.9768	7.1601
10:42:25				100	10.01489	0.8899259	1.3784	1.41636	4.93284	7.16029
10:42:25				101	10.01007	0.8965148	1.4768	1.4652	5.03053	7.21829
10:42:26				102	10.012	0.9174028	1.4768	1.4652	5.07937	7.39905
10:42:26				103	10.01586	0.9067971	1.4768	1.4652	5.27473	7.30625
10:42:27				104	10.0255	0.8978003	1.4768	1.41636	4.83516	7.22636
10:42:27				105	10.02936	0.906797	1.4768	1.41636	4.93284	7.30354
10:42:28				106	10.03226	0.905513	1.4768	1.41636	4.884	7.29183
10:42:28				107	10.03425	0.9011744	1.4768	1.41636	4.884	7.25384
10:42:29				108	10.03714	0.8974778	1.4768	1.41636	5.22589	7.22125
10:42:29				109	10.03521	0.8969962	1.4768	1.4652	4.98168	7.21746
10:42:30				110	10.03328	0.8932996	1.3784	1.4652	5.03053	7.18586
10:42:30				111	10.03226	0.8826967	1.4768	1.4652	5.07937	7.09433
10:42:31				112	10.03129	0.8602034	1.4768	1.4652	4.98168	6.90027
10:42:31				113	10.02261	0.865666	1.4768	1.41636	4.6398	6.94906
10:42:32				114	10.01779	0.8696812	1.4768	1.41636	5.03053	6.98466
10:42:32				115	10.01007	0.8674319	1.4768	1.4652	4.78632	6.96671
10:42:33				116	10.00331	0.8666295	1.4768	1.4652	4.884	6.96108
10:42:33				117	10.00138	0.8666295	1.4768	1.4652	4.884	6.96145
10:42:34				118	10.00428	0.8714499	1.4768	1.41636	4.78632	7.00254
10:42:34				119	10.00235	0.8700042	1.4768	1.41636	4.73748	6.99042
10:42:35				120	10.00331	0.8671113	1.4768	1.4652	4.83516	6.96524
10:42:35				121	9.99849	0.8622913	1.4768	1.4652	4.83516	6.92453
10:42:36				122	9.99559	0.8510465	1.4768	1.41636	4.884	6.82803
10:42:36				123	9.99173	0.8410858	1.4768	1.4652	5.22589	6.74287
10:42:37				124	9.98298	0.8370696	1.4768	1.4652	5.71429	6.70988

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:38				127	9.98274	0.8204557	1.4768	1.4652	5.42125	6.5669
10:42:39				128	9.97792	0.7973281	1.4768	1.4652	5.61661	6.36908
10:42:39				129	9.97019	0.7725991	1.4768	1.41636	5.51893	6.15851
10:42:40				130	9.95764	0.7115905	1.4768	1.41636	5.22589	5.64018
10:42:40				131	9.93929	0.7184927	1.3784	1.4652	5.32357	5.70177
10:42:41				132	9.93053	0.6576613	1.4768	1.41636	5.32357	5.1872
10:42:41				133	9.90251	0.653649	1.4768	1.4652	5.76313	5.15729
10:42:42				134	9.85121	0.6759571	1.4768	1.4652	5.66545	5.35366
10:42:42				135	9.81729	0.6982662	1.4768	1.41636	5.37241	5.54846
10:42:43				136	9.80083	0.6632772	1.4768	1.4652	5.56777	5.25343
10:42:43				137	9.79503	0.6746727	1.4768	1.41636	5.07937	5.35106
10:42:44				138	9.79406	0.6807709	1.4768	1.4652	5.17705	5.40305
10:42:44				139	9.80664	0.6873528	1.4768	1.4652	5.22589	5.45716
10:42:45				140	9.81051	0.6807709	1.4768	1.41636	5.27473	5.4006
10:42:45				141	9.80954	0.6674504	1.4768	1.4652	5.27473	5.28758
10:42:46				142	9.79406	0.6706607	1.4768	1.4652	5.12821	5.31711
10:42:46				143	9.78922	0.6624756	1.3784	1.4652	4.98168	5.24833
10:42:47				144	9.79309	0.6581432	1.4768	1.41636	5.07937	5.211
10:42:47				145	9.79212	0.6566987	1.4768	1.4652	5.42125	5.19889
10:42:48				146	9.78044	0.6481933	1.4768	1.41636	5.27473	5.12846
10:42:48				147	9.7727	0.6514032	1.4768	1.4652	5.27473	5.15676
10:42:49				148	9.76398	0.6566987	1.4768	1.41636	5.17705	5.20293
10:42:49				149	9.75333	0.6578216	1.4768	1.4652	5.47009	5.214
10:42:50				150	9.75527	0.663117	1.4768	1.4652	5.51893	5.25869
10:42:50				151	9.76108	0.6743522	1.4768	1.4652	5.07937	5.35335
10:42:51				152	9.75817	0.6672899	1.4768	1.41636	5.17705	5.29373
10:42:51				153	9.76398	0.662636	1.3784	1.41636	5.07937	5.25335
10:42:52				154	9.76689	0.659587	1.4768	1.4652	5.47009	5.22703
10:42:52				155	9.76204	0.6624757	1.4768	1.4652	5.27473	5.25226
10:42:53				156	9.76011	0.6599072	1.4768	1.4652	5.17705	5.23073
10:42:53				157	9.75817	0.6632773	1.3784	1.41636	5.42125	5.25964
10:42:54				158	9.76108	0.6836611	1.4768	1.41636	5.51893	5.43259
10:42:54				159	9.76689	0.6788464	1.4768	1.4652	5.17705	5.39073
10:42:55				160	9.76398	0.6923289	1.4768	1.41636	5.22589	5.50601
10:42:55				161	9.76108	0.6989091	1.3784	1.41636	5.42125	5.56258
10:42:56				162	9.76301	0.6770795	1.4768	1.4652	5.22589	5.37627
10:42:56				163	9.76301	0.6666491	1.4768	1.41636	5.03053	5.28758
10:42:57				164	9.76204	0.6584632	1.4768	1.4652	5.07937	5.21819
10:42:57				165	9.75623	0.6544512	1.4768	1.4652	5.03053	5.18497
10:42:58				166	9.74848	0.6605495	1.4768	1.4652	5.07937	5.23787
10:42:58				167	9.74752	0.6647228	1.4768	1.41636	5.32357	5.27347
10:42:59				168	9.74558	0.6652042	1.4768	1.4652	5.42125	5.27784
10:42:59				169	9.74752	0.6499579	1.4768	1.41636	5.47009	5.14809
10:43:00				170	9.74848	0.6430584	1.3784	1.41636	5.56777	5.08946
10:43:00				171	9.74364	0.6369608	1.4768	1.4652	5.27473	5.03847

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:43:01				172	9.73583	0.63359	1.3784	1.4652	5.61661	5.01102
10:43:01				173	9.73195	0.6377634	1.4768	1.41636	5.27473	5.0469
10:43:02				174	9.73389	0.6377634	1.4768	1.41636	5.47009	5.04663
10:43:02				175	9.73389	0.6392075	1.4768	1.4652	5.47009	5.05887
10:43:03				176	9.7368	0.6368007	1.4768	1.4652	5.71429	5.03807
10:43:03				177	9.74073	0.6345531	1.4768	1.4652	5.71429	5.01849
10:43:04				178	9.7368	0.6258878	1.4768	1.41636	5.07937	4.94569
10:43:04				179	9.72905	0.627653	1.4768	1.41636	5.37241	4.96169
10:43:05				180	9.72226	0.6302212	1.4768	1.4652	5.71429	4.98436
10:43:05				181	9.71936	0.6323062	1.4768	1.4652	5.71429	5.00242
10:43:06				182	9.72033	0.6305423	1.4768	1.41636	5.37241	4.98735
10:43:06				183	9.72033	0.6255675	1.4768	1.41636	5.27473	4.94524
10:43:07				184	9.71548	0.6258879	1.3784	1.41636	5.22589	4.94862
10:43:07	10:41:52 start transect	10.0	270	185	9.7087	0.6252473	1.4768	1.41636	5.76313	4.94412
10:43:08				186	9.70773	0.6173841	1.4768	1.4652	5.66545	4.87773
10:43:08				187	9.70482	0.6169031	1.3784	1.4652	5.42125	4.87406
10:43:09				188	9.69706	0.6090422	1.4768	1.4652	5.81197	4.80865
10:43:09				189	9.69222	0.588828	1.4768	1.4652	6.05617	4.63874
10:43:10				190	9.68731	0.6045504	1.4768	1.4652	5.76313	4.772
10:43:10				191	9.67761	0.6175446	1.4768	1.4652	5.86081	4.88315
10:43:11				192	9.66597	0.6000582	1.4768	1.4652	5.95849	4.73687
10:43:11				193	9.64851	0.5782401	1.4768	1.41636	5.90965	4.5551
10:43:12				194	9.64463	0.5796837	1.4768	1.4652	5.71429	4.56775
10:43:12				195	9.64166	0.5726262	1.3784	1.51404	5.81197	4.50869
10:43:13				196	9.63681	0.5705405	1.4768	1.4652	5.76313	4.49174
10:43:13				197	9.6339	0.5758342	1.4768	1.4652	5.81197	4.53667
10:43:14				198	9.62614	0.5966886	1.3784	1.4652	6.10501	4.71363
10:43:14				199	9.62614	0.5978124	1.4768	1.4652	5.95849	4.72311
10:43:15				200	9.6339	0.5931593	1.4768	1.4652	5.95849	4.68279
10:43:15				201	9.64263	0.5923567	1.4768	1.4652	6.05617	4.67489
10:43:16				202	9.65434	0.586902	1.4768	1.4652	5.86081	4.62736
10:43:16				203	9.6621	0.5883468	1.4768	1.4652	5.81197	4.63855
10:43:17				204	9.65919	0.628617	1.4768	1.4652	5.76313	4.97947
10:43:17				205	9.65919	0.6066355	1.4768	1.4652	5.90965	4.79334
10:43:18				206	9.67276	0.6103257	1.4768	1.4652	5.71429	4.82274
10:43:18				207	9.66985	0.638084	1.4768	1.4652	5.61661	5.0583
10:43:19				208	9.67955	0.6221978	1.4768	1.4652	5.86081	4.92228
10:43:19				209	9.69997	0.6178654	1.4768	1.4652	5.81197	4.88284
10:43:20				210	9.69997	0.6183484	1.4768	1.4652	5.61661	4.88693
10:43:20				211	9.69706	0.6573402	1.4768	1.4652	5.66545	5.21803
10:43:21				212	9.69803	0.6780427	1.4768	1.4652	5.66545	5.39415
10:43:21				213	9.69416	0.6461069	1.3784	1.4652	5.42125	5.123
10:43:22				214	9.69513	0.6440206	1.4768	1.4652	5.47009	5.10514
10:43:22				215	9.68925	0.6722652	1.3784	1.4652	5.32357	5.34622
10:43:23				216	9.70288	0.7095031	1.3784	1.4652	5.32357	5.66215

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:43:23				217	9.73389	0.6932915	1.4768	1.41636	5.17705	5.5188
10:43:24				218	9.7368	0.7306944	1.4768	1.4652	5.22589	5.83824
10:43:24				219	9.73486	0.7090227	1.4768	1.41636	5.27473	5.65303
10:43:25				220	9.71936	0.7112687	1.4768	1.4652	5.37241	5.67466
10:43:25				221	9.70094	0.7120719	1.4768	1.4652	5.22589	5.68443
10:43:26				222	9.70094	0.7123926	1.4768	1.51404	5.12821	5.68718
10:43:26				223	9.71742	0.6985887	1.4768	1.4652	5.22589	5.56656
10:43:27				224	9.73002	0.6512421	1.4768	1.41636	5.17705	5.16149
10:43:27				225	9.72226	0.6141755	1.4768	1.41636	5.37241	4.84865
10:43:28				226	9.71548	0.5917143	1.4768	1.41636	5.27473	4.66006
10:43:28				227	9.71063	0.5904323	1.4768	1.41636	5.07937	4.64989
10:43:29				228	9.69803	0.5859405	1.4768	1.4652	5.32357	4.61367
10:43:29				229	9.69119	0.6127314	1.4768	1.4652	5.32357	4.84061
10:43:30				230	9.67955	0.6294181	1.4768	1.4652	5.47009	4.98345
10:43:30				231	9.67761	0.6445027	1.3784	1.4652	5.76313	5.11172
10:43:31				232	9.67761	0.6603895	1.4768	1.41636	5.27473	5.24678
10:43:31				233	9.69119	0.7061322	1.4768	1.41636	5.27473	5.63512
10:43:32				234	9.70579	0.7226677	1.4768	1.4652	5.27473	5.77443
10:43:32				235	9.72905	0.722988	1.3784	1.4652	5.61661	5.77346
10:43:33				236	9.74267	0.7629646	1.4768	1.4652	5.32357	6.11439
10:43:33				237	9.76495	0.7486754	1.4768	1.41636	5.51893	5.98787
10:43:34				238	9.76882	0.7363121	1.3784	1.4652	5.66545	5.88121
10:43:34				239	9.77657	0.7616798	1.4768	1.4652	5.22589	6.09762
10:43:35				240	9.80471	0.7864082	1.4768	1.4652	5.76313	6.30551
10:43:35				241	9.8318	0.765534	1.4768	1.41636	5.51893	6.12139
10:43:36				242	9.8347	0.7648909	1.4768	1.41636	5.42125	6.11538
10:43:36				243	9.80858	0.7719563	1.4768	1.41636	5.61661	6.18051
10:43:37				244	9.79115	0.7645704	1.4768	1.4652	5.81197	6.11999
10:43:38				247	9.70591	0.7354817	1.4768	1.4652	5.47009	5.88432
10:43:39				248	9.68458	0.6592419	1.4768	1.4652	5.22589	5.23601
10:43:39				249	9.66319	0.5984303	1.3784	1.4652	5.42125	4.7235
10:43:40				250	9.64767	0.5899282	1.4768	1.4652	5.51893	4.65374
10:43:40				251	9.64476	0.5814261	1.4768	1.4652	5.61661	4.58242
10:43:41				252	9.6467	0.5636224	1.4768	1.4652	5.61661	4.43233
10:43:41				253	9.63111	0.5419712	1.4768	1.41636	5.51893	4.25246
10:43:42				254	9.62044	0.5469418	1.4768	1.41636	5.71429	4.29541
10:43:42				255	9.61558	0.5357168	1.4768	1.4652	5.95849	4.20187
10:43:43				256	9.61073	0.536197	1.3784	1.4652	5.81197	4.20646
10:43:43				257	9.60491	0.5410082	1.4768	1.4652	5.86081	4.24747
10:43:44				258	9.60102	0.5349141	1.4768	1.51404	6.39805	4.19684
10:43:44				259	9.5952	0.5233694	1.4768	1.4652	5.76313	4.10084
10:43:45				260	9.58743	0.5243319	1.4768	1.4652	5.66545	4.10978
10:43:45				261	9.58349	0.5212851	1.3784	1.4652	6.10501	4.08473
10:43:46				262	9.58057	0.5252931	1.4768	1.41636	6.20269	4.1186
10:43:46				263	9.58057	0.5323494	1.3784	1.41636	6.25153	4.17772

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:43:47				264	9.58543	0.5405269	1.4768	1.4652	6.00733	4.24573
10:43:47				265	9.5884	0.5434151	1.4768	1.4652	6.15385	4.26961
10:43:48				266	9.59228	0.5403676	1.4768	1.4652	5.86081	4.24358
10:43:48				267	9.5952	0.538122	1.4768	1.4652	5.90965	4.22441
10:43:49				268	9.59228	0.5345948	1.4768	1.4652	6.20269	4.19518
10:43:49				269	9.5952	0.5321891	1.4768	1.4652	6.44689	4.17468
10:43:50				270	9.59131	0.5219259	1.4768	1.4652	6.73993	4.0892
10:43:50				271	9.59034	0.5089367	1.4768	1.41636	6.05617	3.98076
10:43:51				272	9.58543	0.4986765	1.3784	1.4652	6.25153	3.89571
10:43:51				273	9.56989	0.4975537	1.4768	1.41636	6.05617	3.88802
10:43:52				274	9.55435	0.5041267	1.4768	1.4652	6.25153	3.94455
10:43:52				275	9.55046	0.5172758	1.4768	1.4652	6.78877	4.0549
10:43:53				276	9.54852	0.5360381	1.4768	1.4652	6.44689	4.21238
10:43:53				277	9.55629	0.5514329	1.4768	1.4652	6.25153	4.34082
10:43:54				278	9.56892	0.5596129	1.4768	1.41636	6.15385	4.40812
10:43:54				279	9.5884	0.5647446	1.4768	1.4652	6.05617	4.44894
10:43:55				280	9.60102	0.5774177	1.2801	1.4652	6.34921	4.55417
10:43:55				281	9.5952	0.570038	1.4768	1.4652	6.05617	4.49268
10:43:56				282	9.57766	0.5721232	1.3784	1.4652	6.34921	4.51245
10:43:56				283	9.58349	0.5693962	1.4768	1.4652	6.54457	4.48873
10:43:57				284	9.58446	0.5660288	1.4768	1.4652	6.93529	4.46024
10:43:57				285	9.57766	0.5636225	1.3784	1.41636	6.25153	4.44082
10:43:58				286	9.57669	0.5644254	1.4768	1.41636	5.81197	4.44769
10:43:58				287	9.58349	0.5735675	1.3784	1.4652	6.00733	4.5239
10:43:59				288	9.5884	0.5711621	1.4768	1.4652	5.81197	4.503
10:43:59				289	9.59228	0.5751715	1.3784	1.4652	5.95849	4.53632
10:44:00				290	9.58937	0.5798222	1.4768	1.41636	6.00733	4.57592
10:44:00				291	9.59714	0.5533581	1.4768	1.4652	6.59341	4.35208
10:44:01				292	9.60394	0.5559242	1.4768	1.41636	6.20269	4.37283
10:44:01				293	9.60296	0.5576881	1.4768	1.4652	6.15385	4.38778
10:44:02				294	9.60102	0.5551214	1.3784	1.41636	6.20269	4.36644
10:44:02				295	9.60199	0.5597737	1.4768	1.4652	6.20269	4.40544
10:44:03				296	9.60296	0.5631422	1.4768	1.4652	5.90965	4.43366
10:44:03				297	9.60491	0.575653	1.4768	1.4652	6.05617	4.53879
10:44:04				298	9.60491	0.5772571	1.4768	1.4652	5.90965	4.55231
10:44:04				299	9.61267	0.5811059	1.4768	1.4652	6.44689	4.58379
10:44:05				300	9.6117	0.577898	1.4768	1.4652	6.00733	4.55686
10:44:05				301	9.60976	0.5812669	1.4768	1.4652	5.86081	4.58552
10:44:06				302	9.62044	0.5881645	1.4768	1.4652	6.34921	4.64236
10:44:06				303	9.62626	0.5904099	1.4768	1.4652	6.00733	4.66057
10:44:07				304	9.61364	0.5718028	1.4768	1.41636	5.76313	4.50525
10:44:07				305	9.60976	0.579663	1.4768	1.41636	5.81197	4.57199
10:44:08				306	9.61655	0.5793414	1.4768	1.4652	5.86081	4.56842
10:44:08				307	9.62529	0.5722834	1.4768	1.4652	5.71429	4.50785
10:44:09				308	9.62044	0.5612173	1.3784	1.4652	6.15385	4.41533

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:44:09				309	9.61461	0.566831	1.4768	1.4652	5.95849	4.46327
10:44:10				310	9.60879	0.5429331	1.4768	1.41636	6.44689	4.26316
10:44:10				311	9.60199	0.546782	1.4768	1.4652	6.64225	4.29626
10:44:11				312	9.59811	0.5504718	1.3784	1.4652	5.90965	4.32772
10:44:11				313	9.60005	0.5539997	1.4768	1.4652	6.15385	4.35712
10:44:12				314	9.60394	0.5520755	1.4768	1.41636	5.76313	4.34049
10:44:12				315	9.59908	0.5482261	1.3784	1.4652	5.81197	4.30874
10:44:13				316	9.5952	0.5501499	1.4768	1.41636	5.90965	4.32536
10:44:13				317	9.5884	0.5530374	1.4768	1.4652	6.10501	4.35044
10:44:14				318	9.58349	0.5669908	1.3784	1.4652	6.10501	4.46847
10:44:14				319	9.58446	0.5496696	1.4768	1.4652	6.00733	4.32261
10:44:15				320	9.57669	0.5536789	1.3784	1.4652	6.05617	4.35725
10:44:15				321	9.57475	0.5557636	1.4768	1.36752	6.05617	4.37502
10:44:16				322	9.57766	0.5472633	1.4768	1.4652	5.95849	4.30321
10:44:16				323	9.57669	0.5276983	1.3784	1.4652	5.81197	4.1392
10:44:17				324	9.57086	0.5280198	1.4768	1.4652	5.81197	4.14255
10:44:17				325	9.56892	0.5230488	1.3784	1.4652	5.56777	4.10115
10:44:18				326	9.56406	0.5166349	1.4768	1.41636	6.05617	4.04802
10:44:18				327	9.566	0.5191998	1.3784	1.4652	6.20269	4.06926
10:44:19				328	9.57669	0.5167939	1.3784	1.41636	5.90965	4.04793
10:44:19				329	9.5728	0.5172758	1.4768	1.4652	6.00733	4.05239
10:44:20				330	9.56406	0.5139082	1.4768	1.4652	6.05617	4.02521
10:44:20				331	9.55338	0.505089	1.4768	1.41636	5.95849	3.95269
10:44:21				332	9.5456	0.4994769	1.4768	1.4652	6.15385	3.90668
10:44:21				333	9.5368	0.4986766	1.4768	1.41636	6.44689	3.90096
10:44:22				334	9.52805	0.5047683	1.4768	1.4652	6.30037	3.95279
10:44:22				335	9.53583	0.5042879	1.4768	1.4652	6.20269	3.94792
10:44:23				336	9.55338	0.5148707	1.3784	1.41636	6.10501	4.03446
10:44:23				337	9.54755	0.5143895	1.4768	1.4652	6.15385	4.03108
10:44:24				338	9.54269	0.5413304	1.4768	1.41636	6.10501	4.25751
10:44:24				339	9.55726	0.5629811	1.4768	1.4652	6.00733	4.43792
10:44:25				340	9.566	0.545018	1.4768	1.4652	6.25153	4.28573
10:44:25				341	9.56503	0.5551214	1.4768	1.41636	6.20269	4.37079
10:44:26				342	9.55435	0.5650656	1.4768	1.4652	5.90965	4.45584
10:44:26				343	9.56115	0.5990731	1.4768	1.4652	5.95849	4.7423
10:44:27				344	9.56018	0.5438956	1.4768	1.41636	5.86081	4.27699
10:44:27				345	9.55046	0.5548022	1.4768	1.4652	5.76313	4.36987
10:44:28				346	9.54755	0.5822296	1.3784	1.41636	6.00733	4.60158
10:44:28				347	9.55143	0.5706801	1.4768	1.41636	6.05617	4.50355
10:44:29				348	9.5524	0.5575275	1.3784	1.4652	6.00733	4.39258
10:44:29				349	9.5456	0.5653867	1.4768	1.4652	6.10501	4.45963
10:44:30				350	9.55143	0.603726	1.4768	1.4652	6.20269	4.78301
10:44:30				351	9.566	0.6019604	1.3784	1.41636	6.15385	4.76613
10:44:31				352	9.58057	0.5711621	1.3784	1.4652	6.05617	4.50399
10:44:31				353	9.57863	0.5764541	1.4768	1.4652	6.15385	4.54885

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:44:32				354	9.57183	0.6062921	1.4768	1.4652	6.30037	4.80205
10:44:32				355	9.56892	0.6122288	1.4768	1.41636	6.15385	4.85277
10:44:33				356	9.56115	0.5496697	1.4768	1.4652	6.15385	4.3254
10:44:33				357	9.55143	0.5751716	1.4768	1.4652	6.00733	4.54146
10:44:34				358	9.55046	0.6277916	1.4768	1.4652	6.10501	4.98747
10:44:34				359	9.56892	0.6311599	1.4768	1.4652	6.10501	5.01356
10:44:35				360	9.57669	0.5745298	1.4768	1.4652	6.25153	4.53287
10:44:35				361	9.56309	0.6014795	1.4768	1.4652	6.00733	4.76243
10:44:36				362	9.56795	0.6085387	1.4768	1.4652	6.15385	4.82161
10:44:36				363	9.57572	0.567472	1.4768	1.4652	5.95849	4.47348
10:44:37				364	9.56212	0.6021213	1.3784	1.41636	5.95849	4.768
10:44:38				367	9.57001	0.5831892	1.4768	1.4652	6.05617	4.60681
10:44:39				368	9.57681	0.572442	1.4768	1.41636	6.05617	4.51524
10:44:39				369	9.5904	0.5891236	1.4768	1.4652	5.95849	4.65433
10:44:40				370	9.604	0.602919	1.4768	1.4652	6.20269	4.76921
10:44:40				371	9.60988	0.5948979	1.3784	1.4652	6.39805	4.70061
10:44:41				372	9.60108	0.5825465	1.4768	1.4652	6.54457	4.59742
10:44:41				373	9.58652	0.6159151	1.4768	1.41636	5.90965	4.88166
10:44:42				374	9.57972	0.6406243	1.3784	1.4652	6.39805	5.09258
10:44:42				375	9.58069	0.6098183	1.4768	1.4652	5.95849	4.83075
10:44:43				376	9.58458	0.6120636	1.4768	1.4652	6.34921	4.84926
10:44:43				377	9.58166	0.6431908	1.4768	1.41636	6.10501	5.11414
10:44:44				378	9.59817	0.6813836	1.3784	1.4652	6.20269	5.43767
10:44:44				379	9.60891	0.5766111	1.4768	1.4652	5.81197	4.54636
10:44:45				380	9.59914	0.6050059	1.3784	1.4652	5.86081	4.78753
10:44:45				381	9.58555	0.6364523	1.4768	1.41636	5.90965	5.05625
10:44:46				382	9.58069	0.6146316	1.4768	1.4652	5.90965	4.87156
10:44:46				383	9.58069	0.5719596	1.3784	1.4652	5.76313	4.51069
10:44:47				384	9.57098	0.6006735	1.3784	1.4652	5.86081	4.75457
10:44:47				385	9.56224	0.6274656	1.4768	1.41636	6.10501	4.98307
10:44:48				386	9.58361	0.6553865	1.4768	1.4652	5.86081	5.21779
10:44:48				387	9.59429	0.6101396	1.4768	1.4652	5.76313	4.83165
10:44:49				388	9.58264	0.6176787	1.4768	1.4652	6.05617	4.89715
10:44:49				389	9.58943	0.643994	1.4768	1.41636	6.05617	5.11988
10:44:50				390	9.59526	0.6356502	1.4768	1.4652	5.95849	5.04807
10:44:50				391	9.61473	0.6062885	1.4768	1.4652	6.00733	4.79631
10:44:51				392	9.6487	0.6367724	1.4768	1.4652	5.81197	5.05013
10:44:51				393	9.67495	0.6388585	1.4768	1.41636	5.61661	5.06416
10:44:52				394	9.68755	0.6216908	1.4768	1.4652	5.56777	4.9169
10:44:52				395	9.68949	0.6239368	1.3784	1.4652	6.10501	4.93566
10:44:53				396	9.70312	0.6462391	1.4768	1.4652	6.10501	5.12284
10:44:53				397	9.70603	0.6720752	1.4768	1.41636	5.81197	5.34211
10:44:54				398	9.70312	0.6679038	1.3784	1.4652	5.71429	5.30703
10:44:54				399	9.71669	0.6776926	1.3784	1.4652	5.95849	5.38839
10:44:55				400	9.72348	0.6610031	1.4768	1.4652	5.81197	5.24534

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:44:55				401	9.73026	0.6393393	1.4768	1.41636	5.95849	5.06049
10:44:56				402	9.73607	0.648646	1.3784	1.4652	5.95849	5.1386
10:44:56				403	9.7351	0.6741621	1.4768	1.4652	5.95849	5.35558
10:44:57				404	9.72929	0.6717549	1.4768	1.4652	6.05617	5.33595
10:44:57				405	9.73123	0.6605208	1.4768	1.41636	6.39805	5.24012
10:44:58				406	9.73607	0.6500904	1.4768	1.41636	6.00733	5.15085
10:44:58				407	9.73995	0.7330682	1.4768	1.4652	6.10501	5.85808
10:44:59				408	9.73995	0.7014456	1.4768	1.4652	5.76313	5.58749
10:44:59				409	9.74092	0.6940626	1.4768	1.41636	5.71429	5.52431
10:45:00				410	9.72735	0.6971131	1.3784	1.41636	6.05617	5.55244
10:45:00				411	9.71669	0.7044954	1.4768	1.4652	6.05617	5.61715
10:45:01				412	9.71669	0.6987169	1.4768	1.4652	5.90965	5.56777
10:45:01				413	9.73607	0.6833101	1.4768	1.4652	6.00733	5.43335
10:45:02				414	9.74479	0.6637296	1.3784	1.4652	6.25153	5.26543
10:45:02				415	9.74092	0.6701493	1.4768	1.41636	6.39805	5.32058
10:45:03				416	9.73704	0.6531401	1.4768	1.4652	6.05617	5.17659
10:45:03				417	9.73607	0.6584345	1.4768	1.4652	6.05617	5.22169
10:45:04				418	9.73413	0.6723972	1.4768	1.4652	6.20269	5.3407
10:45:04				419	9.7322	0.7205471	1.3784	1.4652	5.86081	5.75206
10:45:05				420	9.75254	0.7125214	1.4768	1.41636	6.10501	5.68017
10:45:05				421	9.76422	0.7024085	1.4768	1.4652	5.95849	5.59196
10:45:06				422	9.76907	0.7096318	1.4768	1.4652	6.10501	5.65288
10:45:06				423	9.75841	0.7298584	1.4768	1.4652	6.25153	5.82759
10:45:07				424	9.76907	0.7433428	1.4768	1.41636	6.05617	5.94144
10:45:07				425	9.77488	0.7537783	1.4768	1.41636	6.00733	6.03003
10:45:08				426	9.78649	0.7693532	1.3784	1.4652	5.76313	6.16191
10:45:08				427	9.81366	0.8412965	1.4768	1.4652	5.76313	6.77791
10:45:09				428	9.84946	0.8364792	1.4768	1.41636	5.71429	6.72954
10:45:09				429	9.87853	0.8053218	1.4768	1.4652	5.37241	6.45537
10:45:10				430	9.87273	0.8096571	1.4768	1.4652	5.27473	6.49376
10:45:10				431	9.85532	0.8181698	1.4768	1.41636	5.56777	6.5703
10:45:11				432	9.86789	0.8181697	1.4768	1.4652	5.22589	6.56802
10:45:11				433	9.88529	0.8103009	1.4768	1.4652	4.98168	6.49705
10:45:12				434	9.88916	0.8165638	1.4768	1.4652	4.78632	6.55032
10:45:12				435	9.88626	0.8128703	1.4768	1.41636	4.93284	6.51901
10:45:13				436	9.88723	0.8045182	1.4768	1.4652	4.68864	6.4469
10:45:13				437	9.89399	0.7529768	1.4768	1.4652	4.73748	6.00336
10:45:14				438	9.87273	0.7451087	1.4768	1.4652	4.54212	5.93955
10:45:14				439	9.82914	0.7542605	1.4768	1.4652	4.73748	6.02513
10:45:15				440	9.78165	0.7714401	1.4768	1.4652	4.68864	6.18067
10:45:15				441	9.76713	0.7707972	1.4768	1.4652	4.68864	6.17762
10:45:16				442	9.78843	0.7707972	1.4768	1.41636	4.6398	6.17398
10:45:16				443	9.80785	0.7656605	1.3784	1.4652	4.68864	6.12654
10:45:17				444	9.8243	0.7706364	1.4768	1.4652	4.884	6.16648
10:45:17				445	9.8185	0.7777021	1.3784	1.4652	4.78632	6.22822

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:18				446	9.8185	0.770317	1.3784	1.41636	4.93284	6.16474
10:45:18				447	9.81753	0.7672663	1.4768	1.4652	5.03053	6.13869
10:45:19				448	9.82817	0.7666227	1.4768	1.41636	4.93284	6.13135
10:45:19				449	9.82817	0.7924754	1.4768	1.4652	5.03053	6.35365
10:45:20				450	9.83301	0.8005043	1.3784	1.4652	4.884	6.42197
10:45:20				451	9.84752	0.7950449	1.3784	1.4652	4.884	6.37239
10:45:21				452	9.85042	0.7923151	1.4768	1.4652	4.83516	6.34837
10:45:21				453	9.84849	0.7976134	1.4768	1.41636	4.93284	6.39432
10:45:22				454	9.83881	0.787337	1.3784	1.41636	5.12821	6.30757
10:45:22				455	9.83881	0.7945617	1.4768	1.4652	4.98168	6.36975
10:45:23				456	9.82914	0.7846065	1.4768	1.4652	5.03053	6.28576
10:45:23				457	9.82624	0.805322	1.4768	1.4652	5.17705	6.4647
10:45:24				458	9.8214	0.7942409	1.3784	1.4652	4.884	6.37006
10:45:24				459	9.81463	0.8021111	1.4768	1.4652	4.98168	6.43908
10:45:25				460	9.80979	0.8101397	1.4768	1.41636	4.93284	6.50922
10:45:25				461	9.82237	0.7858905	1.4768	1.4652	4.884	6.29798
10:45:26				462	9.82624	0.813673	1.4768	1.4652	4.83516	6.53676
10:45:26				463	9.82817	0.8072486	1.4768	1.4652	5.03053	6.48097
10:45:27				464	9.83785	0.8101396	1.4768	1.41636	4.93284	6.50417
10:45:27				465	9.83495	0.818652	1.3784	1.4652	4.884	6.57817
10:45:28				466	9.83591	0.8157605	1.4768	1.4652	4.93284	6.55302
10:45:28				467	9.83978	0.8287703	1.4768	1.41636	4.83516	6.66469
10:45:29				468	9.84365	0.8149572	1.3784	1.4652	5.32357	6.5447
10:45:29				469	9.83495	0.8062851	1.4768	1.4652	5.12821	6.47145
10:45:30				470	9.82914	0.8543069	1.4768	1.41636	4.93284	6.88772
10:45:30				471	9.84655	0.8597685	1.4768	1.4652	5.07937	6.93174
10:45:31				472	9.87273	0.8340692	1.4768	1.4652	5.12821	6.70439
10:45:31				473	9.86692	0.8229879	1.4768	1.4652	4.93284	6.60977
10:45:32				474	9.86402	0.8327846	1.4768	1.41636	5.07937	6.6949
10:45:32				475	9.88529	0.8392084	1.4768	1.41636	4.93284	6.74647
10:45:33				476	9.89013	0.8286094	1.4768	1.4652	4.83516	6.65404
10:45:33				477	9.87176	0.8356749	1.3784	1.4652	4.98168	6.71846
10:45:34				478	9.86692	0.8454735	1.4768	1.4652	5.22589	6.80408
10:45:34				479	9.87853	0.8355157	1.4768	1.4652	5.22589	6.71582
10:45:35				480	9.88336	0.8319816	1.4768	1.4652	4.98168	6.6844
10:45:35				481	9.87756	0.8218635	1.4768	1.4652	5.07937	6.59813
10:45:36				482	9.87079	0.8233086	1.3784	1.4652	4.83516	6.61184
10:45:36				483	9.85429	0.8302155	1.4768	1.4652	4.884	6.6745
10:45:37				484	9.86306	0.8467589	1.4768	1.41636	5.12821	6.81593
10:45:38				487	9.88221	0.8590978	1.4768	1.41636	4.83516	6.91911
10:45:39				488	9.91218	0.8298666	1.4768	1.4652	5.12821	6.66084
10:45:39				489	9.90541	0.8308298	1.4768	1.4652	4.884	6.67039
10:45:40				490	9.89865	0.8573318	1.4768	1.4652	4.83516	6.90069
10:45:40				491	9.91701	0.8549231	1.3784	1.4652	4.884	6.87637
10:45:41				492	9.92963	0.8404671	1.4768	1.4652	4.83516	6.74908

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:41				493	9.92576	0.8685752	1.3784	1.4652	4.54212	6.99283
10:45:42				494	9.93349	0.8708236	1.3784	1.41636	4.73748	7.01081
10:45:42				495	9.93929	0.8552441	1.4768	1.4652	4.49328	6.87491
10:45:43				496	9.93253	0.8682545	1.4768	1.4652	4.83516	6.98874
10:45:43				497	9.94122	0.8892991	1.4768	1.41636	4.83516	7.1694
10:45:44				498	9.95281	0.874841	1.4768	1.4652	4.884	7.04184
10:45:44				499	9.94798	0.8650412	1.3784	1.4652	4.884	6.95797
10:45:45				500	9.94315	0.9061662	1.4768	1.4652	4.44444	7.31543
10:45:45				501	9.95571	0.8995806	1.4768	1.4652	4.3956	7.25572
10:45:46				502	9.96247	0.8875319	1.4768	1.4652	3.9072	7.14988
10:45:46				503	9.95281	0.8892991	1.4768	1.4652	4.24908	7.16711
10:45:47				504	9.95474	0.9166109	1.4768	1.41636	4.24908	7.40385
10:45:47				505	9.97701	0.9047207	1.4768	1.4652	4.59096	7.29606
10:45:48				506	9.98956	0.8933137	1.3784	1.4652	3.76068	7.19464
10:45:48				507	9.98087	0.9048823	1.3784	1.41636	4.00488	7.2967
10:45:49				508	9.98666	0.9145205	1.4768	1.4652	4.10256	7.37918
10:45:49				509	9.99632	0.8997399	1.3784	1.4652	4.00488	7.249
10:45:50				510	9.98956	0.9080958	1.3784	1.41636	3.9072	7.32283
10:45:50				511	9.99052	0.9198226	1.4768	1.4652	3.80952	7.42445
10:45:51				512	9.99728	0.9121116	1.4768	1.4652	3.9072	7.35611
10:45:51				513	9.98859	0.9143602	1.4768	1.41636	4.29792	7.3774
10:45:52				514	9.98956	0.9186987	1.4768	1.4652	4.34676	7.41488
10:45:52				515	10.01562	0.9087373	1.4768	1.4652	4.3956	7.32313
10:45:53				516	10.01851	0.9180566	1.3784	1.4652	4.20024	7.40341
10:45:53				517	10.00307	0.914843	1.3784	1.4652	3.95604	7.37866
10:45:54				518	10.00886	0.914843	1.4768	1.4652	4.29792	7.37747
10:45:54				519	10.01562	0.9150033	1.4768	1.4652	4.54212	7.37749
10:45:55				520	10.01948	0.9159672	1.4768	1.4652	4.20024	7.38507
10:45:55				521	10.01851	0.9215916	1.4768	1.4652	4.1514	7.43409
10:45:56				522	10.01465	0.9243228	1.4768	1.4652	3.95604	7.4586
10:45:56				523	10.02237	0.9206276	1.4768	1.41636	4.00488	7.42493
10:45:57				524	10.02623	0.9203063	1.4768	1.4652	3.95604	7.42135
10:45:57				525	10.02912	0.9219129	1.4768	1.4652	3.9072	7.4347
10:45:58				526	10.03111	0.9243227	1.4768	1.41636	3.9072	7.45522
10:45:58				527	10.03594	0.9285004	1.3784	1.41636	3.95604	7.49051
10:45:59				528	10.04172	0.9288206	1.4768	1.4652	3.85836	7.49209
10:45:59				529	10.04462	0.928017	1.3784	1.4652	3.71184	7.48453
10:46:00				530	10.04269	0.9294632	1.3784	1.4652	3.95604	7.49748
10:46:00				531	10.03979	0.9273748	1.4768	1.4652	3.85836	7.47993
10:46:01				532	10.04172	0.9325172	1.4768	1.4652	3.76068	7.52419
10:46:01				533	10.04558	0.9326765	1.4768	1.4652	4.05372	7.52478
10:46:02				534	10.03979	0.9326765	1.4768	1.51404	3.95604	7.52598
10:46:02				535	10.03786	0.9315532	1.4768	1.4652	4.00488	7.51662
10:46:03				536	10.04944	0.9313919	1.2801	1.4652	4.44444	7.51285
10:46:03				537	10.05812	0.9339617	1.4768	1.4652	4.05372	7.53334

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:04				538	10.06101	0.9349265	1.3784	1.4652	3.71184	7.54113
10:46:04				539	10.06101	0.9313919	1.3784	1.41636	3.95604	7.51044
10:46:05				540	10.0639	0.9273747	1.3784	1.4652	4.05372	7.47498
10:46:05				541	10.06583	0.9392644	1.4768	1.4652	4.34676	7.57779
10:46:06				542	10.07065	0.9392644	1.4768	1.41636	3.76068	7.57679
10:46:06				543	10.06679	0.9440853	1.4768	1.4652	3.80952	7.61948
10:46:07				544	10.06294	0.9381403	1.4768	1.4652	4.00488	7.56863
10:46:07				545	10.06294	0.9289817	1.4768	1.41636	3.61416	7.48911
10:46:08				546	10.06101	0.9360512	1.4768	1.4652	3.663	7.55089
10:46:08				547	10.05908	0.934767	1.4768	1.4652	3.56532	7.54014
10:46:09				548	10.0533	0.9262497	1.4768	1.41636	3.76068	7.46739
10:46:09				549	10.04365	0.9280171	1.4768	1.4652	3.71184	7.48471
10:46:10				550	10.04365	0.9427994	1.3784	1.4652	3.61416	7.61317
10:46:10				551	10.05233	0.9389429	1.4768	1.41636	3.663	7.57782
10:46:11				552	10.05233	0.936534	1.4768	1.4652	3.71184	7.55689
10:46:11				553	10.04654	0.9413541	1.3784	1.4652	3.76068	7.59999
10:46:12				554	10.04944	0.9328379	1.4768	1.41636	3.61416	7.52538
10:46:12				555	10.04558	0.9273748	1.4768	1.4652	3.46764	7.47874
10:46:13				556	10.03401	0.9315533	1.4768	1.4652	3.663	7.51742
10:46:13				557	10.02333	0.9268938	1.3784	1.41636	3.663	7.47916
10:46:14				558	10.02237	0.9323559	1.4768	1.4652	3.71184	7.5268
10:46:14				559	10.0214	0.9339618	1.3784	1.4652	3.71184	7.54097
10:46:15				560	10.02912	0.9138794	1.3784	1.4652	3.85836	7.36501
10:46:15				561	10.0243	0.9198225	1.3784	1.4652	3.71184	7.41756
10:46:16				562	10.0214	0.9344441	1.3784	1.4652	3.95604	7.54517
10:46:16				563	10.02333	0.9140397	1.4768	1.4652	3.85836	7.36756
10:46:17				564	10.0214	0.9098628	1.3784	1.4652	3.76068	7.33173
10:46:17				565	10.01755	0.9217523	1.3784	1.4652	3.663	7.43569
10:46:18				566	10.01658	0.9281782	1.4768	1.4652	3.95604	7.4917
10:46:18				567	10.02333	0.9291429	1.4768	1.4652	4.00488	7.49868
10:46:19				568	10.03304	0.9233577	1.4768	1.4652	3.85836	7.44644
10:46:19				569	10.03015	0.9161275	1.4768	1.4652	3.61416	7.38429
10:46:20				570	10.02623	0.9203063	1.4768	1.4652	3.71184	7.42135
10:46:20				571	10.02237	0.9225539	1.3784	1.4652	4.1514	7.44166
10:46:21				572	10.01851	0.9209489	1.3784	1.4652	3.95604	7.42852
10:46:21				573	10.02237	0.9082555	1.3784	1.4652	3.663	7.3176
10:46:22				574	10.02333	0.9087372	1.4768	1.4652	3.80952	7.32157
10:46:22				575	10.0243	0.9182171	1.4768	1.4652	3.71184	7.40361
10:46:23				576	10.02912	0.9228754	1.4768	1.4652	3.76068	7.44306
10:46:23				577	10.03401	0.9204669	1.4768	1.4652	3.76068	7.42115
10:46:24				578	10.0369	0.9156465	1.3784	1.4652	3.76068	7.37875
10:46:24				579	10.03401	0.9203063	1.4768	1.4652	3.85836	7.41976
10:46:25				580	10.02912	0.9190197	1.4768	1.4652	3.85836	7.40959
10:46:25				581	10.02816	0.9167711	1.4768	1.4652	3.76068	7.39028
10:46:26				582	10.02912	0.9178961	1.4768	1.4652	3.95604	7.39984

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:26				583	10.03111	0.9209488	1.4768	1.4652	3.663	7.42593
10:46:27				584	10.03883	0.919983	1.4768	1.4652	3.61416	7.41597
10:46:27				585	10.04365	0.9198224	1.4768	1.4652	3.61416	7.41359
10:46:28				586	10.02816	0.9201437	1.4768	1.4652	3.46764	7.41954
10:46:28				587	10.02719	0.9215915	1.4768	1.4652	3.663	7.43231
10:46:29				588	10.03304	0.9212701	1.3784	1.4652	3.56532	7.42833
10:46:29				589	10.03401	0.919983	1.4768	1.4652	3.71184	7.41695
10:46:30				590	10.03208	0.9100228	1.4768	1.4652	4.00488	7.33095
10:46:30				591	10.03497	0.911147	1.4768	1.4652	4.1514	7.34011
10:46:31				592	10.02333	0.9185381	1.4768	1.4652	4.29792	7.40659
10:46:31				593	10.01755	0.914843	1.4768	1.4652	4.29792	7.3757
10:46:32				594	10.01465	0.9034356	1.4768	1.4652	4.1514	7.27735
10:46:32				595	9.99921	0.9031145	1.4768	1.4652	4.24908	7.27767
10:46:33				596	9.97991	0.8925111	1.3784	1.4652	4.34676	7.1896
10:46:33				597	9.97991	0.8793389	1.3784	1.4652	4.44444	7.07551
10:46:34				598	9.96633	0.8851222	1.3784	1.4652	4.54212	7.12825
10:46:34				599	9.95184	0.8801415	1.4768	1.4652	4.68864	7.08793
10:46:35				600	9.92184	0.8949219	1.4768	1.4652	4.73748	7.22204
10:46:35				601	9.90928	0.8743578	1.3784	1.4652	5.07937	7.04612
10:46:36				602	9.91218	0.8366112	1.4768	1.4652	4.93284	6.71904
10:46:36				603	9.86958	0.8419116	1.4768	1.4652	5.07937	6.77277
10:46:37				604	9.84734	0.8213557	1.4768	1.4652	5.12821	6.59925
10:46:38				607	9.7819	0.7250496	1.4768	1.4652	5.95849	5.78266
10:46:39				608	9.75091	0.7152562	1.4768	1.4652	6.05617	5.70381
10:46:39				609	9.74406	0.7130099	1.4768	1.4652	5.81197	5.68568
10:46:40				610	9.73631	0.7004904	1.3784	1.4652	5.86081	5.5799
10:46:40				611	9.75381	0.6905382	1.4768	1.41636	5.95849	5.49229
10:46:41				612	9.76543	0.7008112	1.4768	1.4652	6.00733	5.57814
10:46:41				613	9.75478	0.6918231	1.4768	1.4652	6.20269	5.5031
10:46:42				614	9.73438	0.6785017	1.4768	1.41636	6.15385	5.39264
10:46:42				615	9.71209	0.6632558	1.4768	1.4652	6.15385	5.26616
10:46:43				616	9.68488	0.6947116	1.4768	1.4652	6.30037	5.53843
10:46:43				617	9.67519	0.69407	1.4768	1.41636	6.20269	5.53443
10:46:44				618	9.66937	0.6898962	1.4768	1.4652	6.05617	5.49965
10:46:44				619	9.68101	0.6646995	1.4768	1.4652	6.15385	5.28298
10:46:45				620	9.68101	0.6337305	1.4768	1.41636	6.00733	5.01981
10:46:45				621	9.67422	0.6419132	1.4768	1.4652	6.39805	5.0902
10:46:46				622	9.66161	0.5783818	1.4768	1.4652	6.25153	4.55464
10:46:46				623	9.64603	0.5849589	1.4768	1.41636	6.49573	4.61204
10:46:47				624	9.62662	0.5564077	1.4768	1.4652	6.39805	4.37415
10:46:47	10:45:32 end transect	10.0	90	625	9.62468	0.5527201	1.3784	1.4652	6.64225	4.34341
10:46:48				626	9.61304	0.5337959	1.4768	1.41636	6.44689	4.18607
10:46:48				627	9.58968	0.5143927	1.4768	1.4652	6.49573	4.0264
10:46:49				628	9.57997	0.6131942	1.4768	1.4652	6.83761	4.85947
10:46:49				629	9.61498	0.6610087	1.5752	1.4652	6.69109	5.26117

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:50				630	9.69949	0.8262077	1.5752	1.4652	5.71429	6.66836
10:46:50				631	9.76156	0.9295023	1.6736	1.51404	5.47009	7.5562
10:46:51				632	9.81293	0.9084521	1.772	1.4652	5.07937	7.36168
10:46:51				633	9.93102	0.961319	1.8703	1.4652	4.34676	7.79846
10:46:52				634	9.9977	0.972567	1.8703	1.51404	4.34676	7.88228
10:46:52				635	10.05956	0.984622	1.9687	1.4652	3.76068	7.97399
10:46:53				636	10.09427	0.9826919	2.0671	1.4652	3.36996	7.94954
10:46:53				637	10.10294	0.9820488	2.1655	1.4652	3.27228	7.94202
10:46:54				638	10.10198	0.9986035	2.2639	1.41636	3.07692	8.08659
10:46:54				639	10.11842	0.992978	2.2639	1.4652	3.27228	8.03387
10:46:55				640	10.12709	1.014839	2.3623	1.4652	3.07692	8.22269
10:46:55				641	10.14346	1.0047123	2.4606	1.4652	3.12576	8.13061
10:46:56				642	10.1502	1.0013366	2.559	1.41636	3.36996	8.09966
10:46:56				643	10.12709	1.0018186	2.559	1.41636	2.9304	8.10901
10:46:57				644	10.10487	1.0100171	2.559	1.4652	3.07692	8.18556
10:46:57				645	10.09909	1.0135528	2.559	1.4652	2.88156	8.21776
10:46:58				646	10.09909	1.0104985	2.559	1.41636	3.02808	8.19107
10:46:58				647	10.1039	1.0159637	2.559	1.4652	2.9304	8.23774
10:46:59				648	10.10294	1.0151592	2.559	1.4652	2.97924	8.23093
10:46:59				649	10.11071	1.0116235	2.559	1.41636	2.88156	8.19828
10:47:00				650	10.11553	1.0096954	2.559	1.4652	2.9304	8.18035
10:47:00				651	10.12227	1.003586	2.559	1.4652	2.97924	8.12551
10:47:01				652	10.12323	0.9997299	2.559	1.41636	2.88156	8.09165
10:47:01				653	10.1242	0.9924975	2.559	1.4652	2.9304	8.02837
10:47:02				654	10.11553	0.9915328	2.559	1.4652	2.83272	8.02187
10:47:02				655	10.10968	0.9971573	2.559	1.4652	2.83272	8.07222
10:47:03				656	10.10968	1.0146769	2.559	1.4652	2.9304	8.22519
10:47:03				657	10.12034	1.0251272	2.559	1.4652	2.97924	8.31411
10:47:04				658	10.13287	1.0159636	2.559	1.4652	2.97924	8.23118
10:47:04				659	10.13768	1.0145168	2.559	1.4652	2.78388	8.21746
10:47:05				660	10.13672	1.008088	2.559	1.41636	2.9304	8.16156
10:47:05				661	10.13961	0.9958708	2.559	1.41636	2.83272	8.05437
10:47:06				662	10.13864	0.9926563	2.4606	1.4652	2.78388	8.02658
10:47:06				663	10.13287	0.9916935	2.559	1.41636	3.02808	8.01945
10:47:07				664	10.13479	0.9879958	2.559	1.41636	2.97924	7.98681
10:47:07				665	10.14442	0.9899254	2.559	1.4652	2.97924	8.0015
10:47:08				666	10.14539	0.9929779	2.4606	1.41636	3.12576	8.02789
10:47:08				667	10.15502	1.0010159	2.559	1.4652	3.07692	8.09579
10:47:09				668	10.15116	1.006641	2.559	1.4652	2.97924	8.1457
10:47:09	10:45:54	10.0	90	669	10.15887	1.0114635	2.559	1.41636	2.88156	8.18603
10:47:10				670	10.16759	1.0074452	2.559	1.4652	3.02808	8.14903
10:47:10				671	10.15887	1.0119451	2.559	1.51404	2.97924	8.19024
10:47:11				672	10.15983	1.0146768	2.559	1.4652	3.02808	8.21385
10:47:11				673	10.16855	1.015159	2.559	1.4652	3.22344	8.21609
10:47:12				674	10.16567	1.018697	2.559	1.51404	3.27228	8.24762

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:12				675	10.16079	1.0257697	2.559	1.4652	3.22344	8.31048
10:47:13				676	10.16079	1.0455424	2.559	1.4652	3.02808	8.48335
10:47:13				677	10.16272	1.0378256	2.559	1.4652	3.07692	8.4154
10:47:14				678	10.16663	1.0550267	2.559	1.4652	3.27228	8.565
10:47:14				679	10.17048	1.0900775	2.559	1.4652	3.12576	8.87147
10:47:15				680	10.17337	1.0595282	2.559	1.41636	3.12576	8.60284
10:47:15				681	10.18588	1.071266	2.559	1.4652	2.9304	8.7027
10:47:16				682	10.19358	1.0821977	2.559	1.4652	3.02808	8.7967
10:47:16				683	10.20128	1.0887915	2.559	1.4652	3.02808	8.85268
10:47:17				684	10.20705	1.1085686	2.559	1.4652	3.02808	9.02492
10:47:17				685	10.22443	1.1289907	2.559	1.4652	3.02808	9.20015
10:47:18				686	10.25712	1.1293125	2.559	1.4652	2.88156	9.19473
10:47:18				687	10.27449	1.1371931	2.559	1.4652	2.9304	9.25962
10:47:19				688	10.31773	1.1407309	2.559	1.4652	2.97924	9.27972
10:47:19				689	10.3754	1.1351027	2.4606	1.4652	2.83272	9.21572
10:47:20				690	10.40232	1.1283483	2.559	1.4652	2.78388	9.14976
10:47:20				691	10.38115	1.1325294	2.559	1.41636	2.83272	9.1917
10:47:21				692	10.41288	1.1309202	2.559	1.4652	2.83272	9.16963
10:47:21				693	10.42343	1.1367094	2.559	1.4652	2.97924	9.21766
10:47:22				694	10.41863	1.1433041	2.559	1.41636	2.9304	9.27665
10:47:22				695	10.4628	1.1412119	2.559	1.4652	2.63736	9.24713
10:47:23				696	10.45609	1.1371924	2.559	1.4652	2.63736	9.21366
10:47:23				697	10.44266	1.1368718	2.559	1.4652	2.78388	9.21423
10:47:24				698	10.42055	1.1434648	2.559	1.4652	2.9304	9.27757
10:47:24				699	10.41863	1.1375132	2.559	1.4652	2.73504	9.22591
10:47:25				700	10.39177	1.139605	2.559	1.4652	2.442	9.25104
10:47:25				701	10.4052	1.1402491	2.559	1.51404	2.442	9.25328
10:47:26				702	10.41479	1.1383173	2.559	1.4652	2.9304	9.23393
10:47:26				703	10.40232	1.1359059	2.559	1.4652	2.73504	9.21595
10:47:27				704	10.38793	1.1289901	2.559	1.4652	2.53968	9.15899
10:47:27				705	10.36868	1.1167694	2.559	1.4652	2.58852	9.05677
10:47:28				706	10.34564	1.0969897	2.559	1.41636	2.53968	8.88936
10:47:28				707	10.32253	1.0963484	2.4606	1.4652	2.63736	8.88939
10:47:29				708	10.3062	1.0960257	2.559	1.41636	2.83272	8.89053
10:47:29				709	10.2889	1.0849323	2.559	1.4652	2.58852	8.79763
10:47:30				710	10.2725	1.0857353	2.559	1.4652	2.6862	8.80862
10:47:30				711	10.26578	1.0905593	2.559	1.4652	2.49084	8.8525
10:47:31				712	10.26481	1.0899151	2.559	1.51404	2.58852	8.84709
10:47:31				713	10.27058	1.0849324	2.559	1.4652	2.49084	8.80206
10:47:32				714	10.2677	1.0957053	2.559	1.4652	2.49084	8.89712
10:47:32				715	10.26193	1.0916838	2.559	1.51404	2.34432	8.86329
10:47:33				716	10.26866	1.0838062	2.559	1.41636	2.34432	8.79266
10:47:33				717	10.2725	1.0928109	2.559	9.81685	2.49084	8.87059
10:47:34				718	10.2677	1.0924885	2.4606	6.78877	2.49084	8.86895
10:47:34				719	10.26674	1.1053528	2.559	8.79121	2.63736	8.98194

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:35				720	10.26866	1.1048704	2.559	9.96337	2.29548	8.97723
10:47:35				721	10.26578	1.0995631	2.559	10.40293	2.29548	8.9314
10:47:36				722	10.28314	1.1047096	2.559	11.08669	2.442	8.97226
10:47:36				723	10.29275	1.119181	2.559	10.98901	2.49084	9.0968
10:47:37				724	10.30716	1.1106595	2.559	10.69597	2.34432	9.01849
10:47:38				727	10.33477	1.1153043	2.559	7.03297	2.24664	9.05235
10:47:39				728	10.33093	1.1000273	2.559	6.69109	2.34432	8.91952
10:47:39				729	10.31076	1.0894159	2.559	7.13065	2.24664	8.83158
10:47:40				730	10.30494	1.1148204	2.559	6.69109	2.00244	9.05552
10:47:40				731	10.32421	1.1169116	2.6574	7.27717	2.63736	9.06905
10:47:41				732	10.34726	1.1117656	2.559	8.05861	2.53968	9.01826
10:47:41				733	10.36268	1.1263983	2.559	7.22833	2.34432	9.14261
10:47:42				734	10.3607	1.1227001	2.559	7.08181	2.442	9.1107
10:47:42				735	10.3415	1.1204498	2.559	6.44689	2.39316	9.09577
10:47:43				736	10.33381	1.1251119	2.559	5.56777	2.29548	9.13856
10:47:43				737	10.3463	1.1227001	2.4606	4.34676	2.29548	9.11431
10:47:44				738	10.41258	1.115304	2.559	3.1746	2.53968	9.03308
10:47:44				739	10.43853	1.1091924	2.559	1.7094	2.34432	8.97328
10:47:45				740	10.47981	1.1038859	2.559	1.7094	2.39316	8.91687
10:47:45				741	10.48652	1.102761	2.559	1.41636	2.6862	8.90543
10:47:46				742	10.48747	1.0968117	2.559	1.4652	2.53968	8.85336
10:47:46				743	10.48747	1.0865206	2.559	1.51404	2.83272	8.76375
10:47:47				744	10.47016	1.0813756	2.559	1.4652	2.88156	8.7231
10:47:47				745	10.43949	1.066263	2.559	1.51404	2.58852	8.59886
10:47:48				746	10.4001	1.0625647	2.559	1.4652	2.83272	8.57593
10:47:48				747	10.38763	1.0617618	2.559	1.4652	2.88156	8.57187
10:47:49				748	10.37708	1.058546	2.559	1.4652	2.83272	8.54634
10:47:49				749	10.35974	1.0534014	2.559	1.41636	2.6862	8.50558
10:47:50				750	10.3463	1.0509904	2.559	1.4652	2.6862	8.48771
10:47:50				751	10.33381	1.0493827	2.559	1.4652	2.88156	8.47661
10:47:51				752	10.32805	1.0460062	2.559	1.4652	2.88156	8.44853
10:47:51				753	10.31556	1.0482575	2.559	1.4652	2.78388	8.47104
10:47:52				754	10.30788	1.0513104	2.559	1.4652	2.9304	8.49945
10:47:52				755	10.31172	1.0505085	2.559	1.4652	2.73504	8.49156
10:47:53				756	10.32805	1.0497046	2.559	1.4652	2.6862	8.48075
10:47:53				757	10.32517	1.0501865	2.559	1.41636	2.6862	8.48562
10:47:54				758	10.32709	1.0595108	2.559	1.4652	2.97924	8.56646
10:47:54				759	10.34726	1.0562953	2.559	1.4652	2.9304	8.53371
10:47:55				760	10.32805	1.0550093	2.559	1.41636	3.02808	8.52699
10:47:55				761	10.31268	1.0513104	2.559	1.4652	2.88156	8.49833
10:47:56				762	10.29917	1.0423084	2.559	1.4652	2.83272	8.42299
10:47:56				763	10.28572	1.0405399	2.559	1.4652	2.83272	8.41068
10:47:57				764	10.28956	1.0419873	2.559	1.4652	2.97924	8.42241
10:47:57				765	10.28956	1.0384497	2.559	1.4652	2.83272	8.39158
10:47:58				766	10.2838	1.039416	2.559	1.4652	2.97924	8.40133

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:58				767	10.27611	1.0365223	2.559	1.41636	2.97924	8.37788
10:47:59				768	10.27226	1.0374858	2.559	1.4652	3.12576	8.38716
10:47:59				769	10.26746	1.0368428	2.559	1.4652	2.9304	8.38266
10:48:00				770	10.26361	1.0353958	2.559	1.4652	2.97924	8.37093
10:48:00				771	10.26457	1.032182	2.559	1.4652	3.02808	8.3427
10:48:01				772	10.26073	1.025108	2.559	1.4652	2.97924	8.28194
10:48:01				773	10.25688	1.0265561	2.559	1.4652	2.97924	8.29543
10:48:02				774	10.25688	1.0220537	2.559	1.4652	2.88156	8.25621
10:48:02				775	10.25688	1.0223767	2.559	1.4652	3.07692	8.25903
10:48:03				776	10.25304	1.0193212	2.559	1.41636	3.02808	8.23329
10:48:03				777	10.24625	1.0146599	2.559	1.4652	3.12576	8.19423
10:48:04				778	10.23759	1.0108031	2.559	1.4652	3.12576	8.1626
10:48:04				779	10.22413	1.0133738	2.559	1.41636	3.02808	8.18801
10:48:05				780	10.22413	1.0120882	2.4606	1.4652	2.88156	8.17682
10:48:05				781	10.22316	1.0122501	2.559	1.4652	2.97924	8.17844
10:48:06				782	10.22605	1.018035	2.559	1.4652	2.97924	8.22818
10:48:06				783	10.22701	1.0178748	2.559	1.4652	2.83272	8.22657
10:48:07				784	10.22509	1.0127319	2.559	1.4652	2.97924	8.1822
10:48:07				785	10.22124	1.0096785	2.559	1.4652	2.78388	8.15648
10:48:08				786	10.2097	1.008714	2.4606	1.4652	2.78388	8.15067
10:48:08				787	10.20392	1.0095167	2.559	1.4652	2.73504	8.15895
10:48:09				788	10.19719	1.0088737	2.559	1.4652	2.78388	8.15485
10:48:09				789	10.20007	1.0080712	2.559	1.4652	2.9304	8.14721
10:48:10				790	10.20585	1.0085522	2.559	1.4652	2.88156	8.15011
10:48:10				791	10.20777	1.0077477	2.559	1.4652	2.78388	8.14268
10:48:11				792	10.19719	1.0080712	2.559	1.41636	2.97924	8.14786
10:48:11				793	10.18654	1.0072668	2.559	1.4652	2.9304	8.14323
10:48:12				794	10.17307	1.0082309	2.559	1.4652	3.12576	8.15466
10:48:12				795	10.16729	1.0046957	2.559	1.41636	2.83272	8.12513
10:48:13				796	10.16344	1.0035693	2.559	1.51404	2.88156	8.11617
10:48:13				797	10.16151	1.00598	2.559	1.4652	2.88156	8.13762
10:48:14				798	10.15863	1.0021227	2.559	1.4652	2.9304	8.10463
10:48:14				799	10.1567	1.0019634	2.559	1.4652	2.78388	8.10368
10:48:15				800	10.15574	1.0029277	2.559	1.4652	2.97924	8.1123
10:48:15				801	10.15574	1.0042132	2.559	1.4652	2.88156	8.1235
10:48:16				802	10.15959	1.013214	2.559	1.4652	2.78388	8.20114
10:48:16				803	10.15766	1.013856	2.559	1.4652	2.78388	8.20718
10:48:17				804	10.15477	1.008231	2.559	1.4652	3.12576	8.15876
10:48:17				805	10.15477	1.0053378	2.559	1.4652	2.9304	8.13352
10:48:18				806	10.15285	1.0022841	2.559	1.4652	2.78388	8.10733
10:48:18				807	10.14996	0.9992296	2.559	1.4652	2.88156	8.08135
10:48:19				808	10.14611	0.9934441	2.559	1.41636	2.97924	8.03178
10:48:19				809	10.14418	0.9921573	2.559	1.4652	3.02808	8.021
10:48:20				810	10.14515	0.9921573	2.559	1.51404	3.02808	8.02078
10:48:20				811	10.14515	0.9854073	2.559	1.41636	2.97924	7.962

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:21				812	10.14611	0.9778532	2.559	1.4652	3.02808	7.89605
10:48:21				813	10.14515	0.9791395	2.559	1.4652	3.07692	7.90745
10:48:22				814	10.14707	0.9834788	2.559	1.4652	3.27228	7.94479
10:48:22				815	10.13738	0.9789795	2.559	1.4652	2.97924	7.90774
10:48:23				816	10.1239	0.9770514	2.559	1.41636	3.1746	7.89389
10:48:23				817	10.13256	0.9852469	2.559	1.41636	3.12576	7.96336
10:48:24				818	10.13931	0.9931223	2.559	1.4652	2.97924	8.03048
10:48:24				819	10.13834	0.9892642	2.559	1.4652	3.1746	7.99708
10:48:25				820	10.13738	0.9846033	2.559	1.4652	3.07692	7.9567
10:48:25				821	10.13642	0.9850865	2.559	1.4652	2.88156	7.96112
10:48:26				822	10.13931	0.9820323	2.559	1.4652	2.9304	7.93389
10:48:26				823	10.13642	0.9775333	2.559	1.4652	2.9304	7.89537
10:48:27				824	10.13642	0.9744792	2.559	1.41636	2.97924	7.8688
10:48:27				825	10.13642	0.9727119	2.559	1.4652	2.9304	7.85342
10:48:28				826	10.13834	0.9756041	2.559	1.4652	2.97924	7.87816
10:48:28				827	10.13353	0.9741577	2.559	1.4652	2.88156	7.86662
10:48:29				828	10.12679	0.971265	2.559	1.4652	2.97924	7.84291
10:48:29				829	10.12101	0.9738361	2.559	1.41636	2.88156	7.86653
10:48:30				830	10.12293	0.9982666	2.559	1.41636	2.9304	8.07895
10:48:30				831	10.12486	1.0066245	2.559	1.41636	3.07692	8.15145
10:48:31				832	10.12101	1.0080714	2.559	1.4652	2.9304	8.16494
10:48:31				833	10.12197	1.0032486	2.559	1.4652	2.83272	8.12263
10:48:32				834	10.12293	1.0001951	2.559	1.4652	2.83272	8.09578
10:48:32				835	10.12101	0.9979443	2.559	1.4652	2.78388	8.07657
10:48:33				836	10.12101	1.0075884	2.559	1.4652	2.88156	8.16073
10:48:33				837	10.12293	1.0029278	2.559	1.41636	2.78388	8.11962
10:48:34				838	10.12293	0.9989093	2.559	1.4652	2.83272	8.08456
10:48:34				839	10.12101	1.0043728	2.559	1.4652	2.88156	8.13266
10:48:35				840	10.12197	1.0109633	2.559	1.41636	2.78388	8.18998
10:48:35				841	10.12197	1.0085525	2.559	1.51404	2.6862	8.16893
10:48:36				842	10.12197	1.0098386	2.559	1.4652	2.53968	8.18016
10:48:36				843	10.12293	1.0082311	2.559	1.4652	2.6862	8.1659
10:48:37				844	10.12197	1.0024456	2.559	1.41636	3.02808	8.11563
10:48:38				847	10.12101	0.9965006	2.559	1.4652	2.73504	8.06398
10:48:39				848	10.12101	1.0067883	2.559	1.4652	2.73504	8.15374
10:48:39				849	10.11908	1.0066266	2.559	1.4652	2.58852	8.15276
10:48:40				850	10.12004	1.0024477	2.559	1.4652	2.6862	8.11607
10:48:40				851	10.12582	1.0034121	2.559	1.4652	2.6862	8.1232
10:48:41				852	10.12679	1.0050189	2.559	1.4652	2.73504	8.137
10:48:41				853	10.12486	1.0125744	2.559	1.41636	2.83272	8.20339
10:48:42				854	10.12679	1.01836	2.559	1.4652	2.88156	8.2535
10:48:42				855	10.13353	1.015789	2.559	1.4652	2.73504	8.22951
10:48:43				856	10.13353	1.0122525	2.559	1.4652	2.78388	8.19863
10:48:43				857	10.13064	1.0140202	2.559	1.4652	2.88156	8.21472
10:48:44				858	10.13256	1.0135382	2.559	1.4652	2.83272	8.21007

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:44				859	10.13353	1.0059842	2.559	1.4652	2.9304	8.14392
10:48:45				860	10.13064	0.9971428	2.559	1.4652	2.83272	8.06744
10:48:45				861	10.12679	0.9934462	2.559	1.4652	2.83272	8.03607
10:48:46				862	10.12679	0.9926439	2.559	1.4652	2.6862	8.02908
10:48:46				863	10.12486	0.9948925	2.559	1.4652	2.73504	8.0491
10:48:47				864	10.12101	0.9955365	2.559	1.4652	3.02808	8.05557
10:48:47				865	10.12197	0.9953754	2.559	1.4652	2.78388	8.05395
10:48:48				866	10.12004	1.0058226	2.559	1.41636	2.88156	8.14553
10:48:48				867	10.12004	1.00534	2.559	1.4652	2.97924	8.14132
10:48:49				868	10.12004	0.9976262	2.559	1.4652	2.73504	8.07401
10:48:49				869	10.11908	0.9923223	2.559	1.4652	2.73504	8.02797
10:48:50				870	10.12101	0.9932853	2.559	1.4652	2.78388	8.03594
10:48:50				871	10.11908	0.9883026	2.559	1.41636	2.83272	7.99294
10:48:51				872	10.12004	0.9874998	2.559	1.4652	2.78388	7.98573
10:48:51				873	10.12101	0.9903931	2.559	1.4652	2.6862	8.01073
10:48:52				874	10.12293	0.9915183	2.559	1.4652	3.02808	8.02011
10:48:52				875	10.12101	0.9812314	2.559	1.4652	2.97924	7.93091
10:48:53				876	10.12101	0.9812314	2.559	1.4652	3.02808	7.93091
10:48:53				877	10.12101	0.9836433	2.559	1.4652	3.02808	7.95192
10:48:54				878	10.12004	0.9815538	2.559	1.4652	3.12576	7.93393
10:48:54				879	10.11908	0.971267	2.559	1.41636	3.27228	7.8446
10:48:55				880	10.11812	0.9664465	2.559	1.4652	3.1746	7.80287
10:48:55				881	10.11812	0.9624297	2.559	1.4652	3.1746	7.76794
10:48:56				882	10.11619	0.9582499	2.559	1.4652	3.1746	7.73202
10:48:56				883	10.11233	0.9511807	2.559	1.4652	3.1746	7.67142
10:48:57				884	10.11137	0.9531088	2.559	1.41636	3.27228	7.68837
10:48:57				885	10.1133	0.9585717	2.559	1.4652	3.1746	7.73543
10:48:58				886	10.11233	0.9563221	2.559	1.4652	3.36996	7.71609
10:48:58				887	10.11041	0.9489291	2.559	1.41636	3.36996	7.65227
10:48:59				888	10.10944	0.9479654	2.559	1.4652	3.4188	7.6441
10:48:59				889	10.10944	0.9394484	2.559	1.4652	3.4188	7.57018
10:49:00				890	10.10944	0.9441096	2.559	1.4652	3.36996	7.61063
10:49:00				891	10.11041	0.9408946	2.559	1.4652	3.32112	7.58253
10:49:01				892	10.10848	0.94186	2.559	1.41636	3.36996	7.59131
10:49:01				893	10.10848	0.9524646	2.559	1.4652	3.36996	7.68339
10:49:02				894	10.10752	0.9521436	2.559	1.4652	3.32112	7.6808
10:49:02				895	10.10655	0.9466795	2.559	1.4652	3.4188	7.63355
10:49:03				896	10.10077	0.9510182	2.559	1.4652	3.22344	7.67245
10:49:03				897	10.09595	0.9523041	2.559	1.4652	3.22344	7.68464
10:49:04				898	10.08824	0.9515017	2.559	1.4652	3.27228	7.6793
10:49:04				899	10.08342	0.9529484	2.559	1.4652	3.07692	7.69289
10:49:05				900	10.08342	0.9590545	2.559	1.4652	3.1746	7.74599
10:49:05				901	10.08342	0.9571261	2.559	1.4652	3.02808	7.72922
10:49:06				902	10.08246	0.9584109	2.559	1.4652	3.12576	7.7406
10:49:06				903	10.08342	0.9584109	2.559	1.4652	2.83272	7.74039

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:07				904	10.08342	0.9616244	2.559	1.4652	2.88156	7.76835
10:49:07				905	10.08632	0.9600182	2.559	1.41636	3.02808	7.75376
10:49:08				906	10.08535	0.9596962	2.559	1.4652	3.02808	7.75117
10:49:08				907	10.08535	0.9603401	2.559	1.51404	3.02808	7.75677
10:49:09				908	10.08728	0.9608211	2.559	1.4652	3.02808	7.76054
10:49:09				909	10.08632	0.9625889	2.559	1.4652	3.02808	7.77613
10:49:10				910	10.08632	0.9617854	2.559	1.4652	3.02808	7.76914
10:49:10				911	10.08535	0.9619465	2.559	1.41636	2.97924	7.77074
10:49:11				912	10.08246	0.9630724	2.559	1.4652	2.97924	7.78116
10:49:11				913	10.0815	0.9609822	2.559	1.4652	2.97924	7.76318
10:49:12				914	10.07951	0.9593764	2.559	1.4652	2.97924	7.74963
10:49:12				915	10.07854	0.9648396	2.559	1.4652	2.9304	7.79738
10:49:13				916	10.07854	0.9624299	2.559	1.4652	2.83272	7.77641
10:49:13				917	10.07565	0.9588936	2.559	1.4652	2.78388	7.74625
10:49:14				918	10.07372	0.9596963	2.559	1.41636	2.9304	7.75365
10:49:14				919	10.07276	0.9685349	2.559	1.4652	2.78388	7.8308
10:49:15				920	10.07469	0.9674109	2.559	1.4652	2.9304	7.8206
10:49:15				921	10.07469	0.9611432	2.559	1.4652	2.83272	7.76603
10:49:16				922	10.07469	0.968214	2.559	1.4652	2.97924	7.82759
10:49:16				923	10.07276	0.9754465	2.559	1.41636	2.97924	7.89102
10:49:17				924	10.06987	0.9772136	2.559	1.41636	2.73504	7.90705
10:49:17				925	10.0718	0.9675723	2.559	1.4652	2.83272	7.82262
10:49:18				926	10.07276	0.9621077	2.559	1.4652	2.78388	7.77484
10:49:18				927	10.07469	0.9715884	2.559	1.4652	2.73504	7.85698
10:49:19				928	10.07469	0.9703036	2.559	1.4652	3.02808	7.84579
10:49:19				929	10.07565	0.9669287	2.559	1.4652	2.6862	7.81619
10:49:20				930	10.07565	0.9658033	2.559	1.4652	2.53968	7.80639
10:49:20				931	10.07565	0.9650009	2.559	1.41636	2.83272	7.7994
10:49:21				932	10.07758	0.9715884	2.559	1.4652	2.6862	7.85636
10:49:21				933	10.07565	0.9714288	2.559	1.4652	2.6862	7.85538
10:49:22				934	10.07758	0.9711076	2.559	1.4652	2.88156	7.85217
10:49:22				935	10.07854	0.9667673	2.559	1.41636	2.83272	7.81416
10:49:23				936	10.07854	0.9712672	2.559	1.41636	2.83272	7.85335
10:49:23				937	10.07662	0.9751248	2.559	1.4652	2.63736	7.88738
10:49:24				938	10.08053	0.9762499	2.559	1.4652	2.73504	7.89633
10:49:24				939	10.08053	0.962589	2.559	1.4652	2.78388	7.77736
10:49:25				940	10.07951	0.9677317	2.559	1.4652	2.78388	7.82235
10:49:25				941	10.07951	0.9641967	2.559	1.41636	2.73504	7.79158
10:49:26				942	10.07854	0.9690173	2.559	1.4652	2.9304	7.83375
10:49:26				943	10.07854	0.9651601	2.559	1.4652	2.9304	7.80017
10:49:27				944	10.08053	0.9707864	2.559	1.4652	2.6862	7.84873
10:49:27				945	10.08439	0.9731953	2.559	1.51404	3.02808	7.86888
10:49:28				946	10.08632	0.9717501	2.559	1.4652	2.9304	7.85588
10:49:28				947	10.08921	0.9686963	2.6574	1.41636	2.78388	7.82865
10:49:29				948	10.09113	0.9690173	2.559	1.4652	2.78388	7.83104

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:29				949	10.09306	0.9719097	2.559	1.4652	2.9304	7.85581
10:49:30				950	10.09499	0.9727141	2.559	1.4652	2.78388	7.8624
10:49:30				951	10.09692	0.9691788	2.559	1.4652	2.73504	7.8312
10:49:31				952	10.09403	0.970142	2.559	1.4652	2.83272	7.84021
10:49:31				953	10.09113	0.970142	2.559	1.4652	2.9304	7.84083
10:49:32				954	10.09113	0.9703036	2.559	1.41636	2.88156	7.84224
10:49:32				955	10.08921	0.9714288	2.559	1.4652	2.97924	7.85245
10:49:33				956	10.08921	0.9728738	2.559	1.51404	3.12576	7.86504
10:49:33				957	10.08824	0.9699825	2.559	1.4652	3.07692	7.84007
10:49:34				958	10.08824	0.9664466	2.559	1.4652	3.02808	7.80929
10:49:34				959	10.08921	0.9675723	2.559	1.41636	3.07692	7.81888
10:49:35				960	10.09113	0.9667673	2.559	1.4652	2.83272	7.81146
10:49:35				961	10.0921	0.9661259	2.559	1.4652	2.78388	7.80567
10:49:36				962	10.0921	0.9653214	2.559	1.51404	2.83272	7.79866
10:49:36				963	10.0921	0.9646783	2.559	1.51404	2.88156	7.79307
10:49:37				964	10.09403	0.9677316	2.559	1.4652	2.97924	7.81923
10:49:38				967	10.0933	0.9672576	2.559	1.4652	2.88156	7.81526
10:49:39				968	10.09234	0.968864	2.559	1.4652	2.97924	7.82945
10:49:39				969	10.09138	0.9727223	2.559	1.4652	2.6862	7.86325
10:49:40				970	10.09234	0.9723989	2.559	1.4652	2.6862	7.86022
10:49:40				971	10.0933	0.9717562	2.559	1.4652	2.58852	7.85442
10:49:41				972	10.09138	0.9698291	2.559	1.4652	2.63736	7.83806
10:49:41				973	10.09234	0.9743278	2.559	1.4652	2.58852	7.87702
10:49:42				974	10.09138	0.9682221	2.559	1.4652	2.58852	7.82407
10:49:42				975	10.09138	0.9748113	2.559	1.4652	2.6862	7.88144
10:49:43				976	10.08945	0.9796322	2.559	1.4652	2.6862	7.92386
10:49:43				977	10.08945	0.9757744	2.559	1.41636	2.58852	7.89025
10:49:44				978	10.09041	0.9760962	2.559	1.4652	2.58852	7.89284
10:49:44				979	10.09234	0.9850969	2.559	1.4652	2.78388	7.97087
10:49:45				980	10.09523	0.9855781	2.4606	1.4652	2.78388	7.97444
10:49:45				981	10.09427	0.9801145	2.559	1.4652	2.9304	7.92702
10:49:46				982	10.09619	0.9844533	2.559	1.41636	2.78388	7.96441
10:49:46				983	10.09427	0.9875081	2.559	1.4652	2.83272	7.99147
10:49:47				984	10.09234	0.980597	2.559	1.4652	2.9304	7.93164
10:49:47				985	10.09427	0.9693465	2.559	1.4652	3.07692	7.83323
10:49:48				986	10.0933	0.9616325	2.559	1.4652	2.9304	7.76631
10:49:48				987	10.08848	0.9580973	2.559	1.41636	3.07692	7.73659
10:49:49				988	10.08752	0.9587408	2.559	1.4652	3.12576	7.74239
10:49:49				989	10.08945	0.9560088	2.559	1.4652	3.07692	7.71822
10:49:50				990	10.08945	0.9561696	2.559	1.4652	3.02808	7.71962
10:49:50				991	10.09234	0.9576147	2.559	1.51404	3.02808	7.73157
10:49:51				992	10.09041	0.9563303	2.559	1.4652	3.02808	7.72081
10:49:51				993	10.08752	0.9544019	2.4606	1.4652	2.97924	7.70467
10:49:52				994	10.08752	0.9555267	2.559	1.4652	2.97924	7.71444
10:49:52				995	10.08848	0.9568106	2.559	1.4652	2.97924	7.7254

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:53				996	10.08752	0.958419	2.559	1.4652	3.02808	7.73959
10:49:53				997	10.08848	0.9590606	2.559	1.4652	3.22344	7.74497
10:49:54				998	10.08752	0.9632397	2.559	1.4652	3.12576	7.78153
10:49:54				999	10.08945	0.9595434	2.559	1.4652	3.27228	7.74896
10:49:55				1000	10.08945	0.9592215	2.559	1.41636	3.07692	7.74616
10:49:55				1001	10.08848	0.9555267	2.559	1.4652	3.1746	7.71424
10:49:56				1002	10.08559	0.9563304	2.559	1.51404	3.07692	7.72184
10:49:56				1003	10.07885	0.9534362	2.559	1.4652	3.07692	7.6981
10:49:57				1004	10.07981	0.9535968	2.559	1.4652	3.02808	7.69929
10:49:57				1005	10.08174	0.953115	2.559	1.41636	3.12576	7.6947
10:49:58				1006	10.08463	0.9527939	2.559	1.4652	3.12576	7.69129
10:49:58				1007	10.08463	0.9523123	2.559	1.4652	3.22344	7.68711
10:49:59				1008	10.08366	0.9519913	2.559	1.51404	3.22344	7.68452
10:49:59				1009	10.0827	0.9547232	2.559	1.4652	3.12576	7.70848
10:50:00				1010	10.08077	0.9576147	2.559	1.41636	3.1746	7.73403
10:50:00				1011	10.08174	0.9552053	2.559	1.4652	3.12576	7.71287
10:50:01				1012	10.08174	0.9580973	2.559	1.4652	3.22344	7.73803
10:50:01				1013	10.07981	0.958419	2.559	1.4652	3.22344	7.74124
10:50:02				1014	10.08077	0.9576147	2.559	1.4652	3.12576	7.73403
10:50:02				1015	10.08077	0.9523123	2.559	1.4652	3.32112	7.68792
10:50:03				1016	10.07981	0.9515078	2.4606	1.4652	3.22344	7.68114
10:50:03				1017	10.08077	0.9519913	2.559	1.4652	3.12576	7.68513
10:50:04				1018	10.08077	0.9474908	2.559	1.4652	3.07692	7.64601
10:50:04				1019	10.07788	0.944598	2.559	1.4652	3.32112	7.62148
10:50:05				1020	10.07692	0.9436337	2.559	1.41636	3.32112	7.61331
10:50:05				1021	10.07595	0.9423479	2.559	1.4652	3.36996	7.60234
10:50:06				1022	10.073	0.9399379	2.559	1.4652	3.22344	7.58202
10:50:06				1023	10.07107	0.9378494	2.559	1.4652	3.22344	7.56429
10:50:07				1024	10.06914	0.9392968	2.559	1.51404	3.22344	7.57726
10:50:07				1025	10.06818	0.9428318	2.559	1.4652	3.4188	7.60817
10:50:08				1026	10.06818	0.9474908	2.559	1.4652	3.27228	7.64866
10:50:08				1027	10.06914	0.9474908	2.559	1.4652	3.27228	7.64846
10:50:09				1028	10.07204	0.9535968	2.559	1.4652	3.12576	7.70094
10:50:09				1029	10.073	0.9653296	2.559	1.4652	3.07692	7.80284
10:50:10				1030	10.07396	0.9672576	2.559	1.4652	3.27228	7.81942
10:50:10				1031	10.07885	0.9634009	2.559	1.4652	2.97924	7.78479
10:50:11				1032	10.08077	0.9648457	2.559	1.4652	2.97924	7.79696
10:50:11				1033	10.08077	0.9645253	2.559	1.41636	3.07692	7.79417
10:50:12				1034	10.07885	0.9738465	2.559	1.51404	3.02808	7.87575
10:50:12				1035	10.08366	0.9768998	2.559	1.51404	2.97924	7.90131
10:50:13				1036	10.08656	0.9740062	2.559	1.4652	3.02808	7.87547
10:50:13				1037	10.08366	0.9804348	2.559	1.4652	2.9304	7.93212
10:50:14				1038	10.07788	0.9801146	2.559	1.41636	3.4188	7.93059
10:50:14				1039	10.07499	0.9838099	2.559	1.4652	2.9304	7.96345
10:50:15				1040	10.07788	0.9744897	2.559	1.4652	2.9304	7.88157

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:15				1041	10.073	0.9780257	2.559	1.4652	2.9304	7.91345
10:50:16				1042	10.07011	0.9820428	2.559	1.4652	2.9304	7.9491
10:50:16				1043	10.073	0.9807572	2.559	1.41636	2.9304	7.93726
10:50:17				1044	10.07788	0.97915	2.559	1.4652	3.07692	7.92218
10:50:17				1045	10.08559	0.9796322	2.559	1.51404	3.07692	7.9247
10:50:18				1046	10.09138	0.982846	2.559	1.4652	3.22344	7.95145
10:50:18				1047	10.09041	0.9801145	2.559	1.4652	3.02808	7.92786
10:50:19				1048	10.08656	0.9812397	2.559	1.41636	3.02808	7.93851
10:50:19				1049	10.0827	0.988311	2.559	1.4652	3.02808	8.00101
10:50:20				1050	10.08077	0.9834893	2.559	1.4652	3.27228	7.95938
10:50:20				1051	10.08463	0.9830063	2.559	1.4652	3.12576	7.95433
10:50:21				1052	10.08366	0.9855782	2.559	1.4652	2.97924	7.97697
10:50:21				1053	10.07981	0.9656501	2.559	1.41636	3.07692	7.80416
10:50:22				1054	10.08174	0.97931	2.559	1.4652	2.78388	7.92274
10:50:22				1055	10.07885	0.975133	2.559	1.51404	2.9304	7.88696
10:50:23				1056	10.08366	0.9741681	2.559	1.4652	3.07692	7.87751
10:50:23				1057	10.08945	0.9699886	2.559	1.51404	3.1746	7.83986
10:50:24				1058	10.09138	0.9669348	2.4606	1.4652	3.02808	7.81287
10:50:24				1059	10.09427	0.974168	2.559	1.4652	3.07692	7.87521
10:50:25				1060	10.09523	0.9733632	2.559	1.4652	3.02808	7.86799
10:50:25				1061	10.09427	0.9748113	2.559	1.4652	3.07692	7.88082
10:50:26				1062	10.09234	0.9735249	2.559	1.4652	3.12576	7.87003
10:50:26				1063	10.08656	0.9717562	2.559	1.41636	3.07692	7.85588
10:50:27				1064	10.08174	0.9723989	2.559	1.4652	3.22344	7.86252
10:50:27				1065	10.08945	0.9648457	2.559	1.4652	3.32112	7.79509
10:50:28				1066	10.09138	0.9680607	2.559	1.41636	3.27228	7.82266
10:50:28				1067	10.08463	0.9730438	2.559	1.51404	3.46764	7.86751
10:50:29				1068	10.07981	0.9690255	2.559	1.4652	3.27228	7.83355
10:50:29				1069	10.08174	0.9667755	2.559	1.4652	3.02808	7.81355
10:50:30				1070	10.08366	0.9606683	2.559	1.4652	3.22344	7.75998
10:50:30				1071	10.08077	0.9656501	2.559	1.4652	3.12576	7.80396
10:50:31				1072	10.08174	0.9672576	2.559	1.4652	3.1746	7.81774
10:50:31				1073	10.08752	0.9659707	2.559	1.4652	3.02808	7.8053
10:50:32				1074	10.09234	0.9678992	2.559	1.4652	3.02808	7.82105
10:50:32				1075	10.09138	0.9719179	2.559	1.4652	2.9304	7.85624
10:50:33				1076	10.08848	0.9732035	2.559	1.4652	3.02808	7.86806
10:50:33				1077	10.0933	0.9781856	2.559	1.51404	3.02808	7.91042
10:50:34				1078	10.09812	0.9717562	2.4606	1.4652	3.12576	7.85339
10:50:34				1079	10.10005	0.9749711	2.559	1.41636	3.02808	7.88095
10:50:35				1080	10.09812	0.9788278	2.559	1.4652	3.02808	7.91496
10:50:35				1081	10.10005	0.9903994	2.559	1.41636	3.22344	8.01541
10:50:36				1082	10.10294	0.9797922	2.559	1.4652	3.02808	7.92232
10:50:36				1083	10.09812	0.97931	2.559	1.4652	3.27228	7.91917
10:50:37				1084	10.09427	0.9923286	2.559	1.4652	2.97924	8.03351
10:50:38				1087	10.09704	1.0249312	2.559	1.4652	3.36996	8.31773

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:39				1088	10.10571	1.0408467	2.559	1.51404	3.02808	8.45507
10:50:39				1089	10.11149	1.0832895	2.559	1.4652	2.83272	8.82617
10:50:40				1090	10.12402	1.0794293	2.559	1.4652	2.88156	8.78921
10:50:40	10:49:25 end transect	10.0	270	1091	10.14815	1.1027451	2.559	1.41636	2.83272	8.9883
10:50:41				1092	10.1703	1.1226835	2.559	1.4652	2.97924	9.15828
10:50:41				1093	10.18185	1.114322	2.6574	1.4652	2.83272	9.08177
10:50:42				1094	10.16934	1.123969	2.559	1.4652	2.83272	9.16985
10:50:42				1095	10.15682	1.1120693	2.559	1.4652	2.9304	9.0682
10:50:43				1096	10.15393	1.0948659	2.559	1.41636	2.88156	8.91758
10:50:43				1097	10.15297	1.0680144	2.559	1.4652	3.07692	8.68206
10:50:44				1098	10.14719	1.0609409	2.559	1.4652	2.9304	8.62141
10:50:44				1099	10.14334	1.073641	2.559	1.4652	3.02808	8.73373
10:50:45				1100	10.14815	1.147287	2.6574	1.41636	3.1746	9.38089
10:50:45				1101	10.17415	1.1529176	2.6574	1.4652	3.02808	9.42389
10:50:46				1102	10.22232	1.1495396	2.7558	1.4652	2.442	9.38163
10:50:46				1103	10.25412	1.153721	2.7558	1.4652	2.53968	9.41028
10:50:47				1104	10.26566	1.1535598	2.8542	1.4652	2.58852	9.40586
10:50:47				1105	10.27719	1.1492174	2.9526	1.4652	2.39316	9.36465
10:50:48				1106	10.27815	1.1538822	3.0509	1.41636	2.34432	9.40545
10:50:48				1107	10.26373	1.1550065	3.0509	1.4652	2.49084	9.41908
10:50:49				1108	10.24348	1.1577426	3.1493	1.4652	2.6862	9.44842
10:50:49				1109	10.2127	1.1588683	3.2477	1.4652	2.39316	9.46632
10:50:50				1110	10.19923	1.1638536	3.3461	1.4652	2.442	9.51383
10:50:50				1111	10.1934	1.1619223	3.3461	1.41636	2.34432	9.4983
10:50:51				1112	10.19147	1.1681967	3.3461	1.4652	2.39316	9.55422
10:50:51				1113	10.19051	1.1670699	3.4445	1.51404	2.63736	9.54451
10:50:52				1114	10.18955	1.1752733	3.4445	1.4652	2.63736	9.61726
10:50:52				1115	10.19731	1.1685184	3.4445	1.4652	2.39316	9.55552
10:50:53				1116	10.19827	1.171251	3.4445	1.41636	2.14896	9.57941
10:50:53				1117	10.19827	1.1730215	3.4445	1.4652	2.49084	9.59506
10:50:54				1118	10.19827	1.1781676	3.4445	1.4652	2.49084	9.64054
10:50:54				1119	10.20308	1.1789712	3.4445	1.4652	2.49084	9.64637
10:50:55				1120	10.20693	1.1841182	3.4445	1.4652	2.29548	9.69086
10:50:55				1121	10.20982	1.187014	3.4445	1.41636	2.53968	9.7157
10:50:56				1122	10.21463	1.183476	3.4445	1.4652	2.1978	9.68314
10:50:56				1123	10.21944	1.1850839	3.4445	1.4652	2.34432	9.69607
10:50:57				1124	10.22232	1.1889453	3.4445	1.4652	2.24664	9.72944
10:50:57				1125	10.22521	1.1913561	3.4445	1.4652	2.14896	9.74999
10:50:58				1126	10.23002	1.191678	3.5428	1.41636	2.05128	9.75154
10:50:58				1127	10.23098	1.1897494	3.4445	1.4652	1.9536	9.73424
10:50:59				1128	10.23002	1.1903929	3.4445	1.51404	2.24664	9.74019
10:50:59	10:49:44 start transect	10.0	270	1129	10.2329	1.1865318	3.4445	1.4652	2.6862	9.70528
10:51:00				1130	10.23867	1.1858891	3.4445	1.51404	2.29548	9.69807
10:51:00				1131	10.23675	1.1823502	3.4445	1.41636	2.24664	9.66731
10:51:01				1132	10.23579	1.1815457	3.4445	1.4652	2.05128	9.66046

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:01				1133	10.23194	1.1800977	3.4445	1.4652	2.00244	9.64868
10:51:02				1134	10.23002	1.1781674	3.4445	1.4652	2.29548	9.63214
10:51:02				1135	10.22906	1.1772016	3.4445	1.4652	2.10012	9.62386
10:51:03				1136	10.22809	1.1776845	3.4445	1.41636	2.1978	9.62838
10:51:03				1137	10.22713	1.1791336	3.4445	1.4652	2.1978	9.64144
10:51:04				1138	10.22906	1.1805811	3.4445	1.4652	2.39316	9.65372
10:51:04				1139	10.23002	1.1815457	3.4445	1.4652	2.39316	9.66199
10:51:05				1140	10.22809	1.1826712	3.4445	1.4652	2.1978	9.67244
10:51:05				1141	10.22713	1.1826712	3.5428	1.41636	2.29548	9.67268
10:51:06				1142	10.22713	1.1825107	3.4445	1.4652	2.49084	9.67128
10:51:06				1143	10.22713	1.1821897	3.4445	1.4652	2.14896	9.66844
10:51:07				1144	10.22617	1.1820271	3.4445	1.4652	2.14896	9.66726
10:51:07				1145	10.22617	1.1820271	3.4445	1.4652	2.29548	9.66726
10:51:08				1146	10.22713	1.1813853	3.4445	1.41636	2.24664	9.66133
10:51:08				1147	10.23002	1.1809019	3.4445	1.4652	2.14896	9.6563
10:51:09				1148	10.23002	1.1829921	3.4445	1.4652	2.39316	9.67477
10:51:09				1149	10.23194	1.183797	3.3461	1.51404	2.24664	9.68138
10:51:10				1150	10.2329	1.1834759	3.4445	1.51404	2.49084	9.67828
10:51:10				1151	10.23386	1.1821897	3.4445	1.4652	2.34432	9.66666
10:51:11				1152	10.2329	1.182027	3.4445	1.4652	2.10012	9.66547
10:51:11				1153	10.23098	1.182027	3.4445	1.4652	2.00244	9.66598
10:51:12				1154	10.23098	1.1781674	3.4445	1.4652	2.24664	9.63189
10:51:12				1155	10.23002	1.1757557	3.4445	1.4652	2.05128	9.61084
10:51:13				1156	10.23002	1.1747906	3.4445	1.41636	2.442	9.60231
10:51:13				1157	10.22617	1.1717351	3.4445	1.51404	2.49084	9.57635
10:51:14				1158	10.22425	1.1712509	3.4445	1.4652	2.00244	9.57258
10:51:14				1159	10.22232	1.1698033	3.4445	1.4652	2.34432	9.5603
10:51:15				1160	10.21751	1.1683564	3.4445	1.4652	2.24664	9.54879
10:51:15				1161	10.21463	1.1669102	3.4445	1.41636	2.39316	9.53677
10:51:16				1162	10.2127	1.1669102	3.4445	1.4652	2.29548	9.53728
10:51:16				1163	10.2127	1.1661053	3.4445	1.4652	2.39316	9.53017
10:51:17				1164	10.20885	1.1627283	3.4445	1.4652	2.49084	9.50137
10:51:17				1165	10.20597	1.1616013	3.4445	1.4652	2.49084	9.49217
10:51:18				1166	10.20116	1.1604769	3.5428	1.41636	2.34432	9.48348
10:51:18				1167	10.20308	1.1601538	3.4445	1.4652	2.24664	9.48015
10:51:19				1168	10.19923	1.158707	3.4445	1.4652	2.442	9.46838
10:51:19				1169	10.19147	1.1603154	3.4445	1.4652	2.29548	9.4846
10:51:20				1170	10.18762	1.1609594	3.5428	1.4652	2.58852	9.49127
10:51:20				1171	10.18955	1.1591892	3.4445	1.41636	2.58852	9.47515
10:51:21				1172	10.1857	1.158707	3.4445	1.4652	2.1978	9.4719
10:51:21				1173	10.17993	1.1583842	3.5428	1.4652	2.29548	9.47054
10:51:22				1174	10.18089	1.1579021	3.4445	1.4652	2.29548	9.46604
10:51:22				1175	10.18281	1.1572587	3.4445	1.4652	2.14896	9.45986
10:51:23				1176	10.18089	1.1569381	3.4445	1.41636	1.9536	9.45753
10:51:23				1177	10.18185	1.1574201	3.4445	1.4652	2.05128	9.46154

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:24				1178	10.178	1.1580635	3.4445	1.4652	2.05128	9.46822
10:51:24				1179	10.17896	1.1577429	3.4445	1.4652	2.10012	9.46514
10:51:25				1180	10.17896	1.1575815	3.4445	1.4652	2.14896	9.46371
10:51:25				1181	10.18185	1.1574201	3.4445	1.4652	2.34432	9.46154
10:51:26				1182	10.18185	1.1574201	3.4445	1.4652	2.442	9.46154
10:51:26				1183	10.17993	1.1572587	3.4445	1.4652	2.24664	9.46061
10:51:27				1184	10.17896	1.1569381	3.4445	1.4652	2.24664	9.45803
10:51:27				1185	10.17993	1.1567768	3.4445	1.4652	2.73504	9.45636
10:51:28				1186	10.178	1.1567768	3.4445	1.41636	2.39316	9.45686
10:51:28				1187	10.178	1.1564541	3.5428	1.4652	2.39316	9.45399
10:51:29				1188	10.178	1.1561336	3.4445	1.51404	2.34432	9.45118
10:51:29				1189	10.17607	1.1559723	3.4445	1.4652	2.1978	9.45025
10:51:30				1190	10.17511	1.1559723	3.4445	1.4652	2.24664	9.4505
10:51:30				1191	10.17415	1.1554906	3.4445	1.41636	2.1978	9.4465
10:51:31				1192	10.17222	1.1551681	3.5428	1.4652	2.6862	9.44414
10:51:31				1193	10.17222	1.1545253	3.4445	1.4652	2.29548	9.43847
10:51:32				1194	10.17222	1.1543641	3.4445	1.51404	2.1978	9.43705
10:51:32				1195	10.17126	1.1532379	3.4445	1.4652	2.10012	9.42736
10:51:33				1196	10.1703	1.1521121	3.4445	1.41636	2.49084	9.41767
10:51:33				1197	10.16837	1.1522732	3.4445	1.4652	2.14896	9.41959
10:51:34				1198	10.16549	1.151951	3.4445	1.4652	2.1978	9.41749
10:51:34				1199	10.16549	1.1509868	3.4445	1.4652	2.24664	9.40897
10:51:35				1200	10.1626	1.15147	3.4445	1.4652	2.1978	9.41399
10:51:35				1201	10.16356	1.1509868	3.4445	1.41636	2.39316	9.40947
10:51:36				1202	10.16452	1.1503448	3.4445	1.4652	2.34432	9.40356
10:51:36				1203	10.1626	1.1498618	3.5428	1.4652	2.29548	9.39978
10:51:37				1204	10.16067	1.1500228	3.4445	1.4652	2.442	9.40171
10:51:38				1207	10.16729	1.1500293	3.4445	1.51404	2.39316	9.40006
10:51:39				1208	10.17601	1.1505101	3.4445	1.4652	2.10012	9.40205
10:51:39				1209	10.17794	1.1501903	3.4445	1.4652	2.10012	9.39872
10:51:40				1210	10.18083	1.1500293	3.4445	1.4652	2.58852	9.39656
10:51:40				1211	10.18083	1.1498683	3.4445	1.4652	2.39316	9.39514
10:51:41				1212	10.17986	1.1497073	3.4445	1.4652	2.9304	9.39397
10:51:41				1213	10.17986	1.1497073	3.4445	1.4652	2.63736	9.39397
10:51:42				1214	10.1789	1.1490634	3.4445	1.4652	2.1978	9.38853
10:51:42				1215	10.18083	1.1492244	3.4445	1.4652	2.14896	9.38946
10:51:43				1216	10.1789	1.1492244	3.4445	1.41636	2.39316	9.38995
10:51:43				1217	10.17601	1.1495463	3.4445	1.4652	2.442	9.39354
10:51:44				1218	10.17601	1.1495463	3.4445	1.4652	2.39316	9.39354
10:51:44				1219	10.17986	1.1493854	3.5428	1.41636	2.14896	9.39111
10:51:45				1220	10.18179	1.1493853	3.4445	1.4652	2.39316	9.39063
10:51:45				1221	10.1789	1.1492244	3.4445	1.4652	2.442	9.38995
10:51:46				1222	10.17794	1.1490634	3.5428	1.4652	2.88156	9.38877
10:51:46				1223	10.1789	1.1484197	3.4445	1.4652	2.78388	9.38285
10:51:47				1224	10.17505	1.1484197	3.4445	1.4652	2.29548	9.38384

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:47				1225	10.17018	1.1484198	3.5428	1.4652	2.1978	9.38509
10:51:48				1226	10.16729	1.1482588	3.4445	1.4652	2.34432	9.38443
10:51:48				1227	10.16633	1.1482588	3.4445	1.4652	2.58852	9.38467
10:51:49				1228	10.16537	1.1480979	3.4445	1.4652	2.34432	9.3835
10:51:49				1229	10.16633	1.1480979	3.4445	1.4652	2.49084	9.38325
10:51:50				1230	10.16633	1.1482588	3.4445	1.4652	2.14896	9.38467
10:51:50				1231	10.16633	1.1480979	3.4445	1.4652	2.29548	9.38325
10:51:51				1232	10.16633	1.1480979	3.4445	1.4652	2.29548	9.38325
10:51:51				1233	10.16633	1.1482588	3.4445	1.41636	2.49084	9.38467
10:51:52				1234	10.16537	1.148098	3.5428	1.4652	2.6862	9.38349
10:51:52				1235	10.16537	1.1479371	3.5428	1.51404	2.39316	9.38207
10:51:53				1236	10.16344	1.1479371	3.4445	1.4652	2.34432	9.38258
10:51:53				1237	10.16537	1.1476153	3.4445	1.4652	2.39316	9.37924
10:51:54				1238	10.1644	1.1476153	3.4445	1.41636	2.49084	9.37949
10:51:54				1239	10.16055	1.1474544	3.4445	1.4652	2.442	9.37906
10:51:55				1240	10.15574	1.1474545	3.4445	1.4652	2.34432	9.38031
10:51:55				1241	10.15574	1.1472936	3.4445	1.4652	2.58852	9.37888
10:51:56				1242	10.15381	1.1471328	3.5428	1.4652	2.49084	9.37795
10:51:56				1243	10.15285	1.1472936	3.4445	1.41636	2.58852	9.37963
10:51:57				1244	10.15477	1.1471327	3.4445	1.4652	2.49084	9.37771
10:51:57				1245	10.15381	1.1472936	3.4445	1.51404	2.29548	9.37938
10:51:58				1246	10.15189	1.1472936	3.5428	1.4652	2.29548	9.37986
10:51:58				1247	10.15285	1.1474545	3.4445	1.4652	2.88156	9.38105
10:51:59				1248	10.15285	1.1472936	3.4445	1.4652	2.49084	9.37963
10:51:59				1249	10.149	1.1476154	3.4445	1.4652	2.24664	9.38346
10:52:00				1250	10.15092	1.1479371	3.4445	1.4652	2.442	9.38581
10:52:00				1251	10.15092	1.1479371	3.4445	1.4652	2.24664	9.38581
10:52:01				1252	10.15285	1.148098	3.4445	1.4652	2.49084	9.38673
10:52:01				1253	10.15477	1.1476153	3.5428	1.41636	2.49084	9.38196
10:52:02				1254	10.15477	1.1476153	3.4445	1.4652	2.442	9.38197
10:52:02				1255	10.15285	1.1477762	3.4445	1.51404	2.05128	9.38389
10:52:03				1256	10.15381	1.1479371	3.4445	1.4652	2.24664	9.38506
10:52:03				1257	10.15574	1.1484198	3.4445	1.4652	2.14896	9.38883
10:52:04				1258	10.1567	1.1484198	3.4445	1.4652	2.442	9.38858
10:52:04				1259	10.15863	1.148098	3.4445	1.4652	2.39316	9.38524
10:52:05				1260	10.15766	1.148098	3.4445	1.4652	2.05128	9.38549
10:52:05				1261	10.15477	1.1485807	3.5428	1.4652	2.29548	9.39048
10:52:06				1262	10.15285	1.1484198	3.4445	1.4652	2.14896	9.38957
10:52:06				1263	10.15092	1.1484198	3.4445	1.4652	2.24664	9.39007
10:52:07				1264	10.14996	1.1485807	3.4445	1.4652	2.10012	9.39174
10:52:07				1265	10.149	1.1484198	3.4445	1.4652	2.14896	9.39057
10:52:08				1266	10.149	1.1489026	3.5428	1.4652	2.442	9.39482
10:52:08				1267	10.14996	1.1492245	3.4445	1.4652	2.49084	9.39743
10:52:09				1268	10.14996	1.1492245	3.4445	1.4652	2.10012	9.39743
10:52:09				1269	10.14996	1.1492245	3.4445	1.4652	2.1978	9.39743

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:10				1270	10.149	1.1487417	3.5428	1.41636	2.14896	9.3934
10:52:10				1271	10.14996	1.1489026	3.5428	1.4652	2.24664	9.39457
10:52:11				1272	10.149	1.1489026	3.5428	1.4652	2.53968	9.39482
10:52:11				1273	10.14803	1.1487417	3.4445	1.4652	2.49084	9.39366
10:52:12				1274	10.14611	1.1485807	3.4445	1.4652	2.1978	9.39274
10:52:12				1275	10.14515	1.1485808	3.4445	1.4652	2.05128	9.39299
10:52:13				1276	10.14515	1.1484198	3.4445	1.41636	2.05128	9.39156
10:52:13				1277	10.14322	1.1482589	3.5428	1.51404	2.39316	9.39063
10:52:14				1278	10.14226	1.1477763	3.4445	1.4652	2.442	9.38663
10:52:14				1279	10.13744	1.1480981	3.4445	1.4652	2.1978	9.39071
10:52:15				1280	10.13937	1.1482589	3.4445	1.41636	2.14896	9.39163
10:52:15				1281	10.13937	1.148098	3.4445	1.4652	2.442	9.39021
10:52:16				1282	10.13937	1.1477763	3.4445	1.51404	2.39316	9.38737
10:52:16				1283	10.1384	1.1477763	3.4445	1.4652	2.29548	9.38762
10:52:17				1284	10.13937	1.1479371	3.4445	1.4652	2.24664	9.38879
10:52:17				1285	10.14033	1.1476154	3.4445	1.4652	2.24664	9.3857
10:52:18				1286	10.14033	1.1474545	3.5428	1.4652	2.39316	9.38427
10:52:18				1287	10.13937	1.1472937	3.4445	1.4652	2.442	9.38311
10:52:19				1288	10.13744	1.1472937	3.4445	1.4652	2.1978	9.38361
10:52:19				1289	10.13648	1.1471328	3.4445	1.4652	2.24664	9.38243
10:52:20				1290	10.13744	1.1471328	3.4445	1.4652	2.442	9.38218
10:52:20				1291	10.13551	1.146972	3.4445	1.51404	2.14896	9.38126
10:52:21				1292	10.13648	1.146972	3.4445	1.4652	2.10012	9.38101
10:52:21				1293	10.13648	1.146972	3.4445	1.41636	1.9536	9.38101
10:52:22				1294	10.13648	1.1466503	3.4445	1.4652	2.39316	9.37817
10:52:22				1295	10.13648	1.1466503	3.5428	1.4652	2.29548	9.37816
10:52:23				1296	10.13648	1.1466503	3.4445	1.4652	2.10012	9.37817
10:52:23				1297	10.13455	1.1463287	3.5428	1.4652	2.14896	9.37581
10:52:24				1298	10.13551	1.1460071	3.4445	1.4652	2.10012	9.37274
10:52:24				1299	10.13359	1.1461679	3.4445	1.4652	2.10012	9.37465
10:52:25				1300	10.13455	1.1460071	3.5428	1.4652	2.73504	9.37297
10:52:25				1301	10.13262	1.1471328	3.4445	1.51404	2.73504	9.38343
10:52:26				1302	10.13166	1.1477763	3.4445	1.4652	2.14896	9.38936
10:52:26				1303	10.13166	1.1474545	3.4445	1.4652	2.63736	9.38652
10:52:27				1304	10.13359	1.1476154	3.4445	1.4652	2.73504	9.38744
10:52:27				1305	10.13455	1.1493855	3.4445	1.4652	2.1978	9.40283
10:52:28				1306	10.13648	1.1511544	3.4445	1.51404	2.00244	9.41796
10:52:28				1307	10.1384	1.1503493	3.4445	1.41636	2.05128	9.41035
10:52:29				1308	10.14129	1.1509934	3.4445	1.4652	2.05128	9.41529
10:52:29				1309	10.14129	1.1535669	3.4445	1.51404	2.00244	9.43803
10:52:30				1310	10.15285	1.1554973	3.4445	1.4652	2.442	9.45209
10:52:30				1311	10.16055	1.1550134	3.4445	1.4652	2.05128	9.44581
10:52:31				1312	10.16344	1.1540482	3.5428	1.41636	2.10012	9.43653
10:52:31				1313	10.16248	1.1559789	3.4445	1.4652	2.10012	9.45384
10:52:32				1314	10.16729	1.1563016	3.5428	1.4652	2.29548	9.45543

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:32				1315	10.16537	1.1553359	3.4445	1.4652	2.24664	9.44741
10:52:33				1316	10.16248	1.1551747	3.4445	1.4652	2.39316	9.44674
10:52:33				1317	10.16055	1.1551747	3.4445	1.4652	2.29548	9.44724
10:52:34				1318	10.15959	1.1559789	3.4445	1.4652	2.34432	9.45459
10:52:34				1319	10.16344	1.1563016	3.4445	1.51404	2.34432	9.45644
10:52:35				1320	10.16344	1.1563016	3.4445	1.4652	2.1978	9.45644
10:52:35				1321	10.16633	1.1563015	3.4445	1.4652	2.05128	9.45569
10:52:36				1322	10.16344	1.1563016	3.4445	1.41636	2.24664	9.45644
10:52:36				1323	10.16537	1.1571039	3.4445	1.51404	2.442	9.46303
10:52:37				1324	10.16825	1.1567834	3.4445	1.4652	2.29548	9.45945
10:52:38				1327	10.16278	1.1572697	3.4445	1.4652	2.53968	9.46517
10:52:39				1328	10.16278	1.1575924	3.4445	1.51404	2.14896	9.46802
10:52:39				1329	10.16374	1.1577516	3.4445	1.4652	2.1978	9.46918
10:52:40				1330	10.16278	1.157431	3.5428	1.41636	2.10012	9.46658
10:52:40				1331	10.1647	1.1575924	3.4445	1.4652	2.10012	9.46752
10:52:41				1332	10.16278	1.1572697	3.4445	1.4652	2.14896	9.46517
10:52:41				1333	10.16085	1.1569491	3.4445	1.51404	2.29548	9.46284
10:52:42				1334	10.15893	1.1566264	3.4445	1.41636	2.34432	9.46049
10:52:42				1335	10.15989	1.1563059	3.4445	1.4652	2.14896	9.45741
10:52:43				1336	10.15989	1.1563059	3.4445	1.4652	2.78388	9.45741
10:52:43				1337	10.15796	1.1564651	3.4445	1.4652	2.49084	9.45931
10:52:44				1338	10.157	1.1561446	3.4445	1.4652	2.14896	9.45673
10:52:44				1339	10.15411	1.1561446	3.4445	1.4652	2.14896	9.45748
10:52:45				1340	10.15315	1.1566264	3.4445	1.4652	2.24664	9.46199
10:52:45				1341	10.15604	1.1569491	3.4445	1.51404	2.14896	9.46409
10:52:46				1342	10.15796	1.1564651	3.4445	1.4652	2.05128	9.45931
10:52:46				1343	10.15508	1.1559833	3.5428	1.4652	2.1978	9.45579
10:52:47				1344	10.15219	1.1551791	3.4445	1.41636	2.05128	9.44945
10:52:47				1345	10.15122	1.1561446	3.4445	1.4652	2.14896	9.45823
10:52:48				1346	10.1493	1.1572697	3.4445	1.51404	2.10012	9.46868
10:52:48				1347	10.15315	1.1566264	3.4445	1.4652	2.00244	9.46199
10:52:49				1348	10.15219	1.1559833	3.5428	1.4652	2.14896	9.45654
10:52:49				1349	10.15315	1.1561446	3.4445	1.4652	2.05128	9.45773
10:52:50				1350	10.15508	1.155822	3.4445	1.4652	2.00244	9.45438
10:52:50				1351	10.15411	1.1567878	3.4445	1.4652	2.24664	9.46317
10:52:51				1352	10.15411	1.1566264	3.4445	1.4652	2.14896	9.46174
10:52:51				1353	10.15893	1.1575924	3.4445	1.4652	2.14896	9.46902
10:52:52				1354	10.16374	1.1579131	3.5428	1.41636	2.05128	9.47059
10:52:52				1355	10.16855	1.1590387	3.4445	1.4652	2.00244	9.47929
10:52:53				1356	10.17722	1.1596824	3.4445	1.4652	2.14896	9.48272
10:52:53				1357	10.18498	1.1603263	3.4445	1.4652	2.53968	9.48639
10:52:54				1358	10.19364	1.1600032	3.4445	1.4652	2.10012	9.48128
10:52:54				1359	10.19653	1.1604878	3.4445	1.4652	2.1978	9.4848
10:52:55				1360	10.20134	1.1625776	3.4445	1.4652	2.39316	9.502
10:52:55				1361	10.21769	1.1635432	3.4445	1.4652	2.442	9.50625

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:56				1362	10.23308	1.1632198	3.4445	1.4652	2.14896	9.49938
10:52:56				1363	10.23988	1.1643474	3.4445	1.4652	2.10012	9.50756
10:52:57				1364	10.27353	1.1662756	3.4445	1.4652	2.24664	9.51577
10:52:57				1365	10.28314	1.1656327	3.4445	1.51404	2.24664	9.5076
10:52:58				1366	10.28218	1.165473	3.4445	1.41636	2.1978	9.50644
10:52:58				1367	10.2716	1.1664375	3.3461	1.51404	2.1978	9.51772
10:52:59				1368	10.28218	1.166759	3.4445	1.4652	2.49084	9.51777
10:52:59				1369	10.29185	1.1667589	3.4445	1.4652	2.05128	9.51525
10:53:00				1370	10.28506	1.166759	3.4445	1.4652	2.05128	9.51702
10:53:00				1371	10.28314	1.166759	3.4445	1.41636	2.24664	9.51752
10:53:01				1372	10.2841	1.167564	3.4445	1.4652	2.29548	9.52437
10:53:01				1373	10.29089	1.1677237	3.4445	1.51404	2.24664	9.524
10:53:02				1374	10.2889	1.167564	3.4445	1.4652	2.14896	9.52311
10:53:02				1375	10.2889	1.1672424	3.4445	1.4652	2.24664	9.52028
10:53:03				1376	10.28314	1.1677238	3.5428	1.4652	2.10012	9.52601
10:53:03				1377	10.28121	1.1683671	3.4445	1.4652	2.1978	9.5322
10:53:04				1378	10.28121	1.1683671	3.4445	1.51404	2.1978	9.5322
10:53:04				1379	10.29377	1.1682073	3.4445	1.4652	2.1978	9.52751
10:53:05				1380	10.29473	1.1686888	3.4445	1.4652	2.24664	9.5315
10:53:05				1381	10.30049	1.1693323	3.5428	1.41636	2.05128	9.53565
10:53:06				1382	10.30626	1.1696541	3.4445	1.4652	2.10012	9.53699
10:53:06				1383	10.30818	1.1696541	3.4445	1.4652	2.05128	9.53649
10:53:07				1384	10.30722	1.1696541	3.4445	1.4652	2.1978	9.53674
10:53:07				1385	10.30626	1.1696541	3.4445	1.4652	2.39316	9.53699
10:53:08				1386	10.30338	1.1693323	3.4445	1.4652	2.24664	9.53491
10:53:08				1387	10.29857	1.1690105	3.4445	1.51404	2.10012	9.53333
10:53:09				1388	10.29857	1.1691703	3.4445	1.4652	2.10012	9.53474
10:53:09				1389	10.29473	1.1686888	3.4445	1.4652	2.10012	9.5315
10:53:10				1390	10.28698	1.1683671	3.4445	1.4652	2.39316	9.53069
10:53:10				1391	10.28121	1.1685291	3.4445	1.4652	2.14896	9.53363
10:53:11				1392	10.27833	1.1683671	3.4445	1.51404	2.29548	9.53295
10:53:11				1393	10.27256	1.1682074	3.4445	1.4652	2.39316	9.53305
10:53:12				1394	10.26968	1.1674022	3.4445	1.4652	2.78388	9.52671
10:53:12				1395	10.26391	1.1674022	3.4445	1.4652	2.24664	9.52822
10:53:13				1396	10.24949	1.1674023	3.4445	1.4652	2.24664	9.53199
10:53:13				1397	10.24757	1.1670807	3.4445	1.4652	2.14896	9.52966
10:53:14				1398	10.24084	1.1674023	3.4445	1.4652	2.14896	9.53426
10:53:14				1399	10.24468	1.1674023	3.4445	1.4652	2.1978	9.53325
10:53:15				1400	10.2543	1.1677239	3.4445	1.4652	2.24664	9.53357
10:53:15				1401	10.26199	1.1678858	3.4445	1.4652	2.14896	9.53298
10:53:16				1402	10.25911	1.1680455	3.4445	1.4652	2.58852	9.53515
10:53:16				1403	10.25911	1.1675641	3.4445	1.41636	2.49084	9.5309
10:53:17				1404	10.26199	1.1678858	3.4445	1.4652	2.1978	9.53298
10:53:17				1405	10.25141	1.1667591	3.4445	1.51404	2.29548	9.52581
10:53:18				1406	10.27833	1.1653113	3.5428	1.4652	2.29548	9.50601

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:18				1407	10.29473	1.1649898	3.4445	1.4652	2.10012	9.49891
10:53:19				1408	10.3101	1.1649898	3.5428	1.41636	2.14896	9.49489
10:53:19				1409	10.32643	1.1646684	3.4445	1.4652	2.00244	9.48783
10:53:20				1410	10.3505	1.1646683	3.4445	1.4652	2.00244	9.48157
10:53:20				1411	10.3418	1.164347	3.4445	1.4652	2.1978	9.48101
10:53:21				1412	10.31202	1.1637024	3.4445	1.4652	2.00244	9.48307
10:53:21				1413	10.31202	1.1640236	3.4445	1.4652	2.49084	9.4859
10:53:22				1414	10.30914	1.1643471	3.4445	1.51404	2.6862	9.4895
10:53:22				1415	10.31875	1.1645066	3.4445	1.4652	2.1978	9.48841
10:53:23				1416	10.33892	1.1641853	3.4445	1.4652	2.14896	9.48033
10:53:23				1417	10.34564	1.164347	3.4445	1.4652	2.05128	9.48001
10:53:24				1418	10.33603	1.1675638	3.4445	1.4652	2.442	9.51081
10:53:24				1419	10.31683	1.1685289	3.4445	1.51404	2.14896	9.52432
10:53:25				1420	10.29377	1.1672424	3.4445	1.4652	2.442	9.51901
10:53:25				1421	10.30626	1.1682073	3.4445	1.4652	2.24664	9.52424
10:53:26				1422	10.31683	1.1698139	3.4445	1.4652	2.34432	9.53563
10:53:26				1423	10.32163	1.1712615	3.4445	1.4652	2.14896	9.54712
10:53:27				1424	10.32739	1.1714236	3.4445	1.4652	2.05128	9.54704
10:53:27				1425	10.33315	1.1720655	3.4445	1.41636	2.39316	9.55119
10:53:28				1426	10.33603	1.1722276	3.4445	1.4652	2.24664	9.55186
10:53:28				1427	10.33027	1.1699759	3.4445	1.4652	2.1978	9.53354
10:53:29				1428	10.29281	1.1670805	3.4445	1.4652	2.1978	9.51783
10:53:29				1429	10.2302	1.1674023	3.4445	1.4652	2.1978	9.53704
10:53:30				1430	10.22347	1.1667592	3.4445	1.4652	2.14896	9.53313
10:53:30				1431	10.21481	1.1667592	3.4445	1.4652	2.29548	9.53539
10:53:31				1432	10.2225	1.167724	3.4445	1.51404	2.1978	9.5419
10:53:31				1433	10.23988	1.1674023	3.5428	1.4652	2.1978	9.53449
10:53:32				1434	10.23988	1.1661161	3.4445	1.4652	2.14896	9.52316
10:53:32				1435	10.22443	1.1651519	3.4445	1.41636	2.10012	9.51869
10:53:33				1436	10.20422	1.1638645	3.4445	1.4652	2.24664	9.51261
10:53:33				1437	10.18305	1.1635434	3.4445	1.51404	2.05128	9.5153
10:53:34				1438	10.17433	1.1630605	3.4445	1.4652	2.24664	9.51332
10:53:34				1439	10.1724	1.1630605	3.4445	1.4652	2.00244	9.51382
10:53:35				1440	10.17048	1.1627394	3.4445	1.4652	1.9536	9.51149
10:53:35				1441	10.16855	1.1624161	3.4445	1.4652	2.05128	9.50913
10:53:36				1442	10.16855	1.1622566	3.4445	1.4652	2.24664	9.50773
10:53:36				1443	10.16759	1.1622566	3.5428	1.4652	2.14896	9.50796
10:53:37				1444	10.16759	1.1619334	3.4445	1.4652	2.49084	9.50512
10:53:38				1447	10.28476	1.1614416	3.4445	1.41636	2.1978	9.47025
10:53:39				1448	10.27226	1.1603151	3.4445	1.4652	2.10012	9.46358
10:53:39				1449	10.34054	1.1607972	3.4445	1.4652	2.24664	9.45011
10:53:40				1450	10.37516	1.1607971	3.4445	1.4652	2.29548	9.44115
10:53:40				1451	10.39051	1.1606355	3.4445	1.4652	2.14896	9.43576
10:53:41				1452	10.42223	1.1603145	3.4445	1.41636	2.14896	9.42476
10:53:41				1453	10.45099	1.1583853	3.4445	9.62149	2.14896	9.40043

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:42				1454	10.49035	1.1545241	3.4445	7.52137	2.39316	9.35651
10:53:42				1455	10.545	1.1517907	3.4445	8.25397	2.29548	9.31866
10:53:43				1456	10.55936	1.1453581	3.4445	8.79121	2.442	9.25883
10:53:43				1457	10.54021	1.1394073	3.5428	9.96337	2.29548	9.21169
10:53:44				1458	10.51909	1.1352256	3.4445	13.13797	2.39316	9.1805
10:53:44				1459	10.52962	1.1344224	3.4445	13.23565	2.49084	9.17085
10:53:45				1460	10.53638	1.1405328	3.4445	9.86569	2.63736	9.2225
10:53:45				1461	10.52483	1.1403723	3.5428	12.74725	2.24664	9.22399
10:53:46				1462	10.49226	1.1294371	3.4445	16.01954	2.1978	9.13666
10:53:46				1463	10.49705	1.135386	3.4445	16.99634	2.10012	9.18743
10:53:47				1464	10.49705	1.1400493	3.4445	14.70085	2.29548	9.22819
10:53:47				1465	10.46729	1.1437491	3.4445	12.74725	2.1978	9.26808
10:53:48				1466	10.39915	1.146645	3.4445	10.30525	2.1978	9.31077
10:53:48				1467	10.38091	1.1506639	3.4445	4.49328	2.49084	9.35069
10:53:49				1468	10.41258	1.1509858	3.4445	1.90476	2.442	9.34541
10:53:49				1469	10.43182	1.1530779	3.4445	1.51404	2.442	9.35882
10:53:50				1470	10.43278	1.1561327	3.4445	1.4652	2.10012	9.38536
10:53:50				1471	10.43565	1.1570986	3.5428	1.51404	2.29548	9.39308
10:53:51				1472	10.43565	1.1577419	3.5428	1.4652	2.05128	9.39872
10:53:51				1473	10.43469	1.1588675	3.4445	1.4652	2.10012	9.40885
10:53:52				1474	10.42319	1.1596706	3.4445	1.4652	2.1978	9.41886
10:53:52				1475	10.39915	1.1603146	3.4445	1.4652	2.10012	9.43071
10:53:53				1476	10.34342	1.1603148	3.4445	1.51404	2.00244	9.44512
10:53:53				1477	10.28476	1.1604765	3.4445	1.4652	2.10012	9.46175
10:53:54				1478	10.2838	1.1606359	3.4445	1.4652	2.442	9.46341
10:53:54				1479	10.33477	1.1612798	3.4445	1.4652	2.29548	9.45585
10:53:55				1480	10.36748	1.1617623	3.4445	1.51404	2.34432	9.45162
10:53:55				1481	10.38283	1.1619238	3.4445	1.51404	2.14896	9.44906
10:53:56				1482	10.36748	1.1612797	3.4445	1.4652	2.1978	9.44738
10:53:56				1483	10.3694	1.1616007	3.4445	1.4652	2.00244	9.4497
10:53:57				1484	10.39435	1.1616006	3.4445	1.4652	2.14896	9.44325
10:53:57				1485	10.38763	1.1614412	3.4445	1.4652	2.05128	9.44358
10:53:58				1486	10.39531	1.1609586	3.4445	1.4652	2.10012	9.43736
10:53:58				1487	10.42415	1.1612795	3.4445	1.4652	2.14896	9.43273
10:53:59				1488	10.44716	1.1603144	3.4445	1.51404	2.10012	9.41833
10:53:59				1489	10.47016	1.1599934	3.4445	1.4652	2.49084	9.40959
10:54:00				1490	10.47693	1.1601528	3.4445	1.4652	2.29548	9.40924
10:54:00				1491	10.46825	1.1590267	3.4445	1.4652	2.34432	9.40161
10:54:01				1492	10.47597	1.1601528	3.4445	1.4652	2.24664	9.40949
10:54:01				1493	10.47208	1.1604758	3.4445	1.51404	2.14896	9.41332
10:54:02				1494	10.46346	1.1611177	3.4445	1.51404	1.9536	9.42117
10:54:02				1495	10.45195	1.1619236	3.4445	1.4652	2.00244	9.4312
10:54:03				1496	10.45099	1.1619236	3.4445	1.41636	2.24664	9.43145
10:54:03				1497	10.4625	1.1622446	3.4445	1.51404	2.73504	9.43129
10:54:04				1498	10.46825	1.1628868	3.4445	1.51404	2.29548	9.43544

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:04				1499	10.46537	1.1625657	3.4445	1.4652	2.00244	9.43337
10:54:05				1500	10.46729	1.1625657	3.4445	1.4652	2.29548	9.43287
10:54:05				1501	10.46729	1.1628868	3.4445	1.4652	2.39316	9.43569
10:54:06				1502	10.47112	1.1632101	3.4445	1.51404	2.34432	9.43753
10:54:06				1503	10.47112	1.1633696	3.4445	1.4652	2.1978	9.43893
10:54:07				1504	10.47208	1.1630485	3.5428	1.4652	2.10012	9.43585
10:54:07				1505	10.46825	1.1628868	3.4445	1.4652	2.29548	9.43544
10:54:08				1506	10.46154	1.1636909	3.4445	1.4652	2.39316	9.44422
10:54:08				1507	10.45962	1.1633697	3.4445	1.51404	2.14896	9.4419
10:54:09				1508	10.46058	1.1627273	3.2477	1.51404	2.10012	9.43605
10:54:09				1509	10.45579	1.1641739	3.4445	1.4652	2.1978	9.44994
10:54:10				1510	10.44812	1.1648165	3.4445	1.51404	2.1978	9.45756
10:54:10				1511	10.43853	1.1649783	3.4445	1.4652	2.05128	9.46146
10:54:11				1512	10.42798	1.1656212	3.4445	1.4652	2.00244	9.46984
10:54:11				1513	10.43374	1.1664259	3.4445	1.41636	1.9536	9.47541
10:54:12				1514	10.43374	1.1669093	3.4445	1.4652	2.10012	9.47965
10:54:12				1515	10.4299	1.1673906	3.4445	1.51404	1.9536	9.48487
10:54:13				1516	10.42798	1.1678742	3.4445	1.4652	2.14896	9.48961
10:54:13				1517	10.42606	1.1678742	3.4445	1.4652	1.90476	9.49011
10:54:14				1518	10.42319	1.1680339	3.4445	1.4652	2.00244	9.49226
10:54:14				1519	10.42798	1.1680339	3.4445	1.51404	2.05128	9.49101
10:54:15				1520	10.42702	1.1678742	3.4445	1.4652	1.9536	9.48986
10:54:15				1521	10.43086	1.1673906	3.4445	1.4652	1.9536	9.48462
10:54:16				1522	10.42894	1.1664259	3.4445	1.4652	2.29548	9.47665
10:54:16				1523	10.43469	1.1644953	3.4445	1.4652	2.73504	9.45822
10:54:17				1524	10.44236	1.1611178	3.4445	1.51404	2.10012	9.42661
10:54:17				1525	10.45099	1.1519521	3.4445	1.4652	1.9536	9.34405
10:54:18				1526	10.46058	1.14568	3.4445	1.4652	2.00244	9.28668
10:54:18				1527	10.46154	1.1342603	3.4445	1.4652	2.10012	9.18651
10:54:19				1528	10.4625	1.1324924	3.5428	1.4652	2.10012	9.1708
10:54:19				1529	10.4846	1.1270241	3.4445	6.49573	2.14896	9.1175
10:54:20				1530	10.49897	1.1244511	3.4445	6.44689	2.49084	9.09145
10:54:20				1531	10.50951	1.1072458	3.4445	6.34921	2.29548	8.93879
10:54:21				1532	10.52675	1.1061196	3.4445	7.66789	2.1978	8.92478
10:54:21				1533	10.53351	1.111909	3.4445	6.64225	2.34432	8.97355
10:54:22				1534	10.52196	1.1051547	3.4445	6.59341	2.442	8.91754
10:54:22				1535	10.52196	1.0967946	3.5428	6.59341	2.442	8.84474
10:54:23				1536	10.5143	1.0924515	3.4445	5.90965	2.49084	8.80881
10:54:23				1537	10.51238	1.0951852	3.4445	4.29792	2.63736	8.83306
10:54:24				1538	10.50089	1.0930963	3.4445	3.36996	2.63736	8.81765
10:54:24	10:53:09 end transect	10.0	90	1539	10.49131	1.1265426	3.4445	4.78632	2.49084	9.11162
10:54:25				1540	10.48843	1.1162505	3.4445	5.12821	2.49084	9.02249
10:54:25				1541	10.48172	1.1040296	3.5428	6.15385	2.442	8.91753
10:54:26				1542	10.47597	1.0992051	3.4445	6.44689	2.29548	8.87689
10:54:26				1543	10.45579	1.1221996	3.4445	5.86081	2.53968	9.08252

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:27				1544	10.43086	1.1308835	3.4445	4.83516	2.63736	9.16468
10:54:27				1545	10.42606	1.1233253	3.4445	1.4652	2.53968	9.09975
10:54:28				1546	10.41066	1.1218785	3.4445	1.61172	2.63736	9.09093
10:54:28				1547	10.42798	1.1258995	3.4445	1.7094	2.442	9.12179
10:54:29				1548	10.43853	1.1312056	3.5428	1.90476	2.73504	9.16556
10:54:29				1549	10.45099	1.0903625	3.4445	1.7094	2.78388	8.80586
10:54:30				1550	10.44141	1.1310456	3.5428	1.4652	2.6862	9.16344
10:54:30				1551	10.42606	1.1513079	3.6412	1.4652	2.53968	9.34475
10:54:31				1552	10.41935	1.167231	3.7396	1.4652	2.53968	9.48617
10:54:31				1553	10.41353	1.1612795	3.7396	1.51404	2.05128	9.43543
10:54:32				1554	10.41066	1.1673907	3.838	1.4652	2.10012	9.48981
10:54:32				1555	10.4097	1.1710904	3.838	1.4652	2.10012	9.52256
10:54:33				1556	10.40778	1.1728607	3.838	1.4652	2.10012	9.53861
10:54:33				1557	10.38955	1.1726986	3.838	1.4652	2.24664	9.54195
10:54:34				1558	10.38091	1.1743077	3.9364	1.51404	2.34432	9.55834
10:54:34				1559	10.37228	1.18621	4.0348	1.4652	2.10012	9.66534
10:54:35				1560	10.36556	1.1831544	4.1331	1.4652	2.10012	9.6402
10:54:35				1561	10.35788	1.1821893	4.1331	1.4652	2.24664	9.63373
10:54:36				1562	10.35788	1.1871743	4.2315	1.4652	2.10012	9.67761
10:54:36				1563	10.35692	1.1865315	4.2315	1.4652	2.49084	9.67221
10:54:37				1564	10.35398	1.1878194	4.3299	1.41636	2.05128	9.68432
10:54:38				1567	10.34468	1.187967	4.4283	1.4652	2.05128	9.68807
10:54:39				1568	10.3418	1.1982613	4.4283	1.4652	1.9536	9.7796
10:54:39				1569	10.33892	1.1948828	4.5267	1.4652	2.14896	9.75056
10:54:40				1570	10.33795	1.1924715	4.5267	1.51404	1.90476	9.72956
10:54:40				1571	10.33988	1.189575	4.5267	1.4652	2.05128	9.70351
10:54:41				1572	10.34276	1.185715	4.5267	1.4652	2.05128	9.66872
10:54:41				1573	10.34756	1.1844279	4.5267	1.4652	2.00244	9.65611
10:54:42				1574	10.35722	1.1842673	4.5267	1.4652	2.1978	9.65214
10:54:42				1575	10.36106	1.1853937	4.5267	1.51404	1.9536	9.66105
10:54:43				1576	10.35434	1.1759045	4.5267	1.4652	2.49084	9.57927
10:54:43				1577	10.35626	1.1784766	4.5267	1.4652	2.29548	9.60141
10:54:44				1578	10.3601	1.1820157	4.5267	1.4652	2.14896	9.63155
10:54:44				1579	10.36202	1.1845884	4.5267	1.4652	2.34432	9.6537
10:54:45				1580	10.36298	1.1842673	4.5267	1.4652	2.6862	9.65062
10:54:45				1581	10.35914	1.1855543	4.5267	1.41636	2.39316	9.66297
10:54:46				1582	10.36106	1.186679	4.5267	1.4652	2.29548	9.67237
10:54:46				1583	10.36106	1.1865183	4.5267	1.51404	2.88156	9.67095
10:54:47				1584	10.35818	1.1878062	4.5267	1.4652	2.14896	9.68306
10:54:47				1585	10.35146	1.1876455	4.5267	1.4652	2.34432	9.68343
10:54:48				1586	10.34564	1.185715	4.5267	1.4652	2.29548	9.66796
10:54:48				1587	10.3466	1.1837857	4.5267	1.51404	2.00244	9.65071
10:54:49				1588	10.34948	1.1870026	4.5267	1.4652	2.05128	9.67829
10:54:49	10:53:34 begin transect	10.0	90	1589	10.35338	1.1865183	4.5267	1.4652	2.1978	9.67299
10:54:50				1590	10.35044	1.1863576	4.5267	1.4652	2.05128	9.67235

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:50				1591	10.34756	1.1874848	4.5267	1.4652	2.14896	9.68305
10:54:51				1592	10.34756	1.1881278	4.5267	1.51404	2.442	9.68871
10:54:51				1593	10.3466	1.189575	4.5267	1.4652	2.14896	9.70172
10:54:52				1594	10.34372	1.1898967	4.5267	1.4652	2.00244	9.70532
10:54:52				1595	10.33219	1.1907012	4.5267	1.4652	2.24664	9.71548
10:54:53				1596	10.32739	1.1903794	4.5267	1.51404	2.14896	9.71392
10:54:53				1597	10.33027	1.1921496	4.5267	1.4652	2.14896	9.72877
10:54:54				1598	10.33027	1.1926303	4.5267	1.41636	2.05128	9.73301
10:54:54				1599	10.32355	1.1923106	4.5267	1.51404	2.24664	9.73198
10:54:55				1600	10.32067	1.1918277	4.5267	1.51404	2.24664	9.72849
10:54:55				1601	10.32067	1.1926304	4.5267	1.4652	2.24664	9.73557
10:54:56				1602	10.31971	1.1932744	4.5267	1.4652	2.14896	9.74151
10:54:56				1603	10.3149	1.1934355	4.5267	1.4652	2.14896	9.74421
10:54:57				1604	10.31202	1.1939186	4.5267	1.4652	2.29548	9.74925
10:54:57				1605	10.31106	1.1937576	4.5267	1.4652	2.442	9.74808
10:54:58				1606	10.31106	1.1937576	4.5267	1.4652	2.14896	9.74808
10:54:58				1607	10.30914	1.1945607	4.5267	1.51404	2.39316	9.75568
10:54:59				1608	10.30818	1.1945607	4.6251	1.4652	2.14896	9.75593
10:54:59				1609	10.30914	1.1937576	4.5267	1.4652	2.14896	9.74859
10:55:00				1610	10.30722	1.1944018	4.5267	1.4652	2.24664	9.7548
10:55:00				1611	10.30914	1.1953663	4.5267	1.4652	2.1978	9.76279
10:55:01				1612	10.30914	1.1953663	4.5267	1.51404	2.1978	9.76279
10:55:01				1613	10.30818	1.1948829	4.5267	1.4652	2.14896	9.75878
10:55:02				1614	10.31106	1.1981001	4.5267	1.4652	2.14896	9.78641
10:55:02				1615	10.31106	1.2000315	4.5267	1.4652	2.29548	9.80346
10:55:03				1616	10.3149	1.1995475	4.5267	1.51404	2.24664	9.79816
10:55:03				1617	10.32259	1.200834	4.5267	1.4652	2.00244	9.80745
10:55:04				1618	10.32739	1.2021211	4.5267	1.4652	2.05128	9.81752
10:55:04				1619	10.33123	1.2030879	4.5267	1.4652	1.90476	9.82502
10:55:05				1620	10.33507	1.2050179	4.5267	1.4652	1.90476	9.84102
10:55:05				1621	10.33315	1.2075916	4.5267	1.4652	1.9536	9.86426
10:55:06				1622	10.31875	1.2077512	4.5267	1.41636	1.85592	9.86956
10:55:06				1623	10.30338	1.2080726	4.5267	1.4652	1.90476	9.87656
10:55:07				1624	10.30049	1.2083962	4.5267	1.51404	2.05128	9.88021
10:55:07				1625	10.29953	1.2085557	4.5267	1.4652	2.29548	9.88188
10:55:08				1626	10.29082	1.20743	4.5267	1.4652	2.29548	9.87429
10:55:08				1627	10.2841	1.2067876	4.4283	1.4652	2.14896	9.87044
10:55:09				1628	10.27833	1.2051775	4.5267	1.4652	2.39316	9.85775
10:55:09				1629	10.28121	1.2045355	4.5267	1.4652	2.1978	9.8513
10:55:10				1630	10.28314	1.2038914	4.5267	1.4652	2.05128	9.84509
10:55:10				1631	10.2841	1.2034089	4.5267	1.4652	2.14896	9.84056
10:55:11				1632	10.2841	1.202765	4.5267	1.4652	1.9536	9.83487
10:55:11				1633	10.28121	1.2024443	4.5267	1.51404	2.1978	9.83281
10:55:12				1634	10.2841	1.2009956	4.5267	1.4652	1.9536	9.81923
10:55:12				1635	10.29377	1.1992271	4.5267	1.4652	1.90476	9.80101

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:55:13				1636	10.2889	1.1979389	4.5267	1.4652	2.00244	9.79094
10:55:13				1637	10.28314	1.1953664	4.5267	1.4652	2.05128	9.76976
10:55:14				1638	10.28314	1.1939187	4.5267	1.4652	2.00244	9.75697
10:55:14				1639	10.2841	1.1939187	4.5267	1.41636	1.85592	9.75672
10:55:15				1640	10.2841	1.1921498	4.5267	1.51404	1.85592	9.7411
10:55:15				1641	10.28218	1.1902187	4.5267	1.51404	2.00244	9.72456
10:55:16				1642	10.28121	1.1858759	4.5267	1.4652	2.10012	9.68648
10:55:16				1643	10.28121	1.1834626	4.5267	1.4652	2.10012	9.66518
10:55:17				1644	10.28506	1.1829811	4.5267	1.4652	2.10012	9.65991
10:55:17				1645	10.28314	1.1824974	4.5267	1.4652	2.10012	9.65615
10:55:18				1646	10.28121	1.1807282	4.5267	1.4652	2.05128	9.64105
10:55:18				1647	10.28025	1.1797638	4.5267	1.4652	2.05128	9.63279
10:55:19				1648	10.27353	1.1791203	4.5267	1.51404	2.34432	9.6289
10:55:19				1649	10.27256	1.1804075	4.5267	1.4652	2.29548	9.64051
10:55:20				1650	10.27353	1.1792806	4.5267	1.4652	2.29548	9.63031
10:55:20				1651	10.27256	1.1791203	4.5267	1.41636	2.00244	9.62915
10:55:21				1652	10.26487	1.1776735	4.5267	1.4652	2.78388	9.61841
10:55:21				1653	10.24757	1.1771907	4.5267	1.4652	2.1978	9.61872
10:55:22				1654	10.24372	1.1776736	4.5267	1.4652	2.1978	9.624
10:55:22				1655	10.25045	1.1786373	4.5267	1.4652	2.53968	9.63073
10:55:23				1656	10.25622	1.1791204	4.5267	1.41636	2.14896	9.63347
10:55:23				1657	10.25045	1.1800868	4.5267	1.51404	2.05128	9.64353
10:55:24				1658	10.24565	1.1802472	4.5267	1.51404	2.29548	9.64622
10:55:24				1659	10.24372	1.1791204	4.5267	1.4652	2.73504	9.63678
10:55:25				1660	10.24565	1.1797639	4.5267	1.4652	2.39316	9.64195
10:55:25				1661	10.24565	1.1808909	4.5267	1.4652	2.10012	9.6519
10:55:26				1662	10.25045	1.1802472	4.5267	1.51404	2.49084	9.64494
10:55:26				1663	10.25045	1.1786373	4.5267	1.41636	2.39316	9.63073
10:55:27				1664	10.24565	1.1779941	4.5267	1.4652	2.05128	9.62632
10:55:27				1665	10.23891	1.1771908	4.5267	1.51404	2.10012	9.62101
10:55:28				1666	10.23212	1.1770306	4.5267	1.4652	2.10012	9.62139
10:55:28				1667	10.22539	1.1763877	4.5267	1.4652	2.442	9.61749
10:55:29				1668	10.2225	1.175905	4.5267	1.41636	2.10012	9.61398
10:55:29				1669	10.22347	1.1760651	4.5267	1.4652	2.29548	9.61515
10:55:30				1670	10.22731	1.176708	4.5267	1.4652	2.10012	9.61981
10:55:30				1671	10.23699	1.1768682	4.5267	1.4652	2.1978	9.61867
10:55:31				1672	10.25334	1.1770305	4.5267	1.4652	2.14896	9.61578
10:55:31				1673	10.2543	1.1763875	4.5267	1.4652	2.05128	9.60985
10:55:32				1674	10.24565	1.1765478	4.5267	1.51404	2.05128	9.61355
10:55:32				1675	10.24276	1.1776736	4.5267	1.41636	2.14896	9.62425
10:55:33				1676	10.23699	1.1786374	4.5267	1.4652	2.00244	9.63429
10:55:33				1677	10.23795	1.1792808	4.5267	1.4652	2.29548	9.63972
10:55:34				1678	10.22924	1.1754224	4.5267	1.4652	2.00244	9.60794
10:55:34				1679	10.22827	1.1744574	4.5267	1.4652	2.1978	9.59968
10:55:35				1680	10.22154	1.1726884	4.5267	1.41636	1.9536	9.58583

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:55:35				1681	10.21192	1.1723663	4.5267	1.4652	2.05128	9.58552
10:55:36				1682	10.20711	1.1720442	4.5267	1.51404	2.00244	9.58394
10:55:36				1683	10.21192	1.1720442	4.5267	1.4652	2.24664	9.58267
10:55:37				1684	10.21673	1.1720442	4.5267	1.4652	2.34432	9.5814
10:55:38				1687	10.2127	1.1710737	4.5267	1.41636	2.14896	9.57389
10:55:39				1688	10.21367	1.1709138	4.5267	1.4652	2.00244	9.57223
10:55:39				1689	10.21463	1.1702699	4.5267	1.4652	1.90476	9.56629
10:55:40				1690	10.20789	1.1726819	4.5267	1.4652	2.10012	9.58936
10:55:40				1691	10.20212	1.1720398	4.5267	1.4652	2.14896	9.58521
10:55:41				1692	10.19827	1.170432	4.5267	1.4652	2.14896	9.57202
10:55:41				1693	10.2002	1.1702699	4.5267	1.4652	2.10012	9.57008
10:55:42				1694	10.20212	1.170432	4.5267	1.4652	2.00244	9.57101
10:55:42				1695	10.20116	1.1710737	4.5267	1.4652	2.10012	9.57693
10:55:43				1696	10.20116	1.1705919	4.5267	1.4652	2.29548	9.57267
10:55:43				1697	10.2002	1.1693044	4.6251	1.41636	2.24664	9.56154
10:55:44				1698	10.19827	1.1697882	4.5267	1.51404	2.14896	9.56633
10:55:44				1699	10.2002	1.170432	4.5267	1.4652	2.05128	9.57151
10:55:45				1700	10.20597	1.1705918	4.3299	1.51404	1.90476	9.57143
10:55:45				1701	10.20597	1.1702699	4.5267	1.4652	2.10012	9.56856
10:55:46				1702	10.20693	1.1702699	4.5267	1.51404	2.10012	9.56831
10:55:46				1703	10.20885	1.169948	4.5267	1.4652	2.10012	9.56496
10:55:47				1704	10.21078	1.1713957	4.5267	1.41636	2.10012	9.57724
10:55:47				1705	10.20597	1.1739686	4.5267	1.4652	2.58852	9.60124
10:55:48				1706	10.20308	1.1741308	4.5267	1.4652	2.63736	9.60344
10:55:48				1707	10.20308	1.1709138	4.5267	1.4652	1.9536	9.57501
10:55:49				1708	10.20597	1.1710737	4.5267	1.4652	1.90476	9.57566
10:55:49				1709	10.20789	1.1709138	4.5267	1.4652	1.9536	9.57374
10:55:50				1710	10.20885	1.1725219	4.5267	1.51404	1.90476	9.5877
10:55:50				1711	10.20982	1.1726818	4.5267	1.4652	2.00244	9.58886
10:55:51				1712	10.21078	1.1709138	4.5267	1.4652	1.9536	9.57299
10:55:51				1713	10.20885	1.1720398	4.5267	1.51404	2.00244	9.58344
10:55:52				1714	10.20693	1.1792765	4.5267	1.4652	1.9536	9.6479
10:55:52				1715	10.21367	1.1779898	4.5267	1.4652	2.05128	9.63474
10:55:53				1716	10.21944	1.1741307	4.5267	1.41636	2.442	9.59912
10:55:53				1717	10.21655	1.1739685	4.5267	1.4652	1.80708	9.59845
10:55:54				1718	10.21174	1.1781501	4.6251	1.4652	2.00244	9.63665
10:55:54				1719	10.20404	1.1844241	4.5267	1.4652	1.9536	9.69418
10:55:55				1720	10.2002	1.183298	4.5267	1.4652	1.9536	9.68524
10:55:55				1721	10.20308	1.1797597	4.5267	1.41636	1.9536	9.65319
10:55:56				1722	10.20212	1.1792765	4.5267	1.51404	1.9536	9.64917
10:55:56				1723	10.20308	1.1841029	4.5267	1.51404	2.00244	9.69159
10:55:57				1724	10.2127	1.1820119	4.5267	1.4652	2.00244	9.67055
10:55:57				1725	10.21944	1.1794368	4.5267	1.4652	2.05128	9.646
10:55:58				1726	10.21655	1.1802429	4.5267	1.4652	2.00244	9.65389
10:55:58				1727	10.21078	1.1813679	4.5267	1.4652	2.00244	9.66536

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:55:59				1728	10.21944	1.1821723	4.5267	1.41636	2.05128	9.67018
10:55:59				1729	10.23002	1.1800803	4.5267	1.4652	2.10012	9.64888
10:56:00				1730	10.22328	1.1795993	4.5267	1.51404	2.10012	9.64642
10:56:00				1731	10.21559	1.1795993	4.5267	1.4652	2.10012	9.64846
10:56:01				1732	10.20885	1.1816888	4.5267	1.4652	2.05128	9.66871
10:56:01				1733	10.20597	1.1816888	4.5267	1.41636	2.24664	9.66948
10:56:02				1734	10.20404	1.1815284	4.5267	1.4652	2.10012	9.66857
10:56:02				1735	10.20308	1.1812075	4.4283	1.4652	1.9536	9.666
10:56:03				1736	10.20308	1.1820119	4.4283	1.4652	2.00244	9.67312
10:56:03				1737	10.20212	1.183298	4.5267	1.4652	2.05128	9.68473
10:56:04				1738	10.20212	1.1857112	4.5267	1.4652	2.05128	9.70608
10:56:04				1739	10.20116	1.1850664	4.5267	1.4652	2.14896	9.70063
10:56:05				1740	10.20116	1.1839424	4.5267	1.4652	2.14896	9.69069
10:56:05				1741	10.20116	1.1834585	4.5267	1.4652	2.00244	9.68641
10:56:06				1742	10.20308	1.1850664	4.5267	1.51404	2.05128	9.70012
10:56:06				1743	10.20308	1.1874809	4.5267	1.51404	2.05128	9.72147
10:56:07				1744	10.20404	1.1858718	4.6251	1.4652	2.10012	9.70697
10:56:07				1745	10.20501	1.1860324	4.5267	1.41636	1.9536	9.70815
10:56:08				1746	10.20597	1.1858718	4.5267	1.4652	2.00244	9.70647
10:56:08				1747	10.20789	1.1858718	4.5267	1.4652	1.90476	9.70596
10:56:09				1748	10.20885	1.1857111	4.5267	1.4652	1.9536	9.70428
10:56:09				1749	10.20982	1.1849058	4.5267	1.4652	2.24664	9.6969
10:56:10				1750	10.21078	1.1841029	4.5267	1.4652	2.05128	9.68955
10:56:10				1751	10.21367	1.183619	4.5267	1.51404	1.9536	9.6845
10:56:11				1752	10.21463	1.1823328	4.5267	1.4652	2.00244	9.67287
10:56:11				1753	10.21367	1.1820119	4.5267	1.4652	2.05128	9.67029
10:56:12				1754	10.2127	1.1824933	4.5267	1.51404	2.14896	9.6748
10:56:12				1755	10.21463	1.1824933	4.5267	1.4652	2.10012	9.67429
10:56:13				1756	10.21463	1.1826537	4.5267	1.4652	2.24664	9.67571
10:56:13				1757	10.2127	1.1823328	4.5267	1.41636	2.00244	9.67338
10:56:14				1758	10.21174	1.1818514	4.5267	1.4652	2.00244	9.66938
10:56:14				1759	10.20885	1.1815283	4.5267	1.51404	2.14896	9.66729
10:56:15				1760	10.20789	1.1813679	4.5267	1.4652	2.53968	9.66613
10:56:15				1761	10.20693	1.1805637	4.5267	1.4652	2.05128	9.65928
10:56:16				1762	10.20693	1.1797597	4.5267	1.4652	2.10012	9.65217
10:56:16				1763	10.20404	1.1787956	4.6251	1.51404	2.14896	9.6444
10:56:17				1764	10.20116	1.1784729	4.5267	1.4652	2.39316	9.64232
10:56:17				1765	10.2002	1.1773467	4.5267	1.4652	2.29548	9.63262
10:56:18				1766	10.2002	1.1773467	4.5267	1.4652	2.24664	9.63262
10:56:18				1767	10.19923	1.1773467	4.5267	1.51404	2.05128	9.63288
10:56:19				1768	10.19827	1.1770263	4.5267	1.4652	2.00244	9.6303
10:56:19				1769	10.19731	1.1771865	4.5267	1.41636	2.00244	9.63197
10:56:20				1770	10.19731	1.1768639	4.5267	1.4652	2.53968	9.62912
10:56:20				1771	10.19635	1.1768639	4.5267	1.51404	2.24664	9.62937
10:56:21				1772	10.19635	1.1773467	4.5267	1.4652	2.00244	9.63364

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:21				1773	10.19538	1.1781501	4.5267	1.4652	2.05128	9.641
10:56:22				1774	10.19346	1.1784729	4.5267	1.41636	2.00244	9.64436
10:56:22				1775	10.19346	1.1783126	4.5267	1.4652	2.00244	9.64295
10:56:23				1776	10.19153	1.1781502	4.5267	1.4652	2.10012	9.64202
10:56:23				1777	10.19346	1.1779899	4.5267	1.4652	2.1978	9.64009
10:56:24				1778	10.19346	1.1784729	4.5267	1.4652	2.14896	9.64436
10:56:24				1779	10.19153	1.1787957	4.5267	1.4652	1.9536	9.64773
10:56:25				1780	10.18961	1.1787957	4.5267	1.51404	2.14896	9.64824
10:56:25				1781	10.18961	1.1786332	4.5267	1.4652	2.14896	9.6468
10:56:26				1782	10.19153	1.1786332	4.5267	1.4652	2.00244	9.64629
10:56:26				1783	10.19346	1.1784729	4.5267	1.4652	1.9536	9.64436
10:56:27				1784	10.19153	1.1781502	4.5267	1.51404	2.39316	9.64202
10:56:27				1785	10.19057	1.1779899	4.5267	1.4652	2.14896	9.64086
10:56:28				1786	10.18865	1.177507	4.5267	1.41636	2.10012	9.6371
10:56:28				1787	10.19057	1.1776694	4.5267	1.51404	2.29548	9.63802
10:56:29				1788	10.19057	1.1771866	4.5267	1.4652	2.10012	9.63375
10:56:29				1789	10.18768	1.1765436	4.5267	1.4652	2.00244	9.62883
10:56:30				1790	10.1848	1.1762211	4.5267	1.4652	1.9536	9.62674
10:56:30				1791	10.18287	1.1763812	4.5267	1.4652	2.14896	9.62867
10:56:31				1792	10.18287	1.1765436	4.5267	1.51404	2.14896	9.63011
10:56:31				1793	10.18384	1.1773468	4.5267	1.41636	2.14896	9.63695
10:56:32				1794	10.18384	1.1773468	4.5267	1.4652	2.00244	9.63695
10:56:32				1795	10.18287	1.1773468	4.5267	1.51404	2.00244	9.63721
10:56:33				1796	10.1848	1.1770264	4.6251	1.4652	2.05128	9.63385
10:56:33				1797	10.18384	1.176864	4.5267	1.4652	2.14896	9.63268
10:56:34				1798	10.18672	1.1771866	4.5267	1.4652	2.10012	9.63477
10:56:34				1799	10.18672	1.177507	4.5267	1.4652	2.10012	9.63761
10:56:35				1800	10.18576	1.177507	4.5267	1.4652	2.05128	9.63786
10:56:35				1801	10.1848	1.1770264	4.5267	1.4652	2.10012	9.63387
10:56:36				1802	10.18576	1.176864	4.5267	1.4652	2.29548	9.63217
10:56:36				1803	10.18384	1.1771866	4.5267	1.4652	2.00244	9.63554
10:56:37				1804	10.18384	1.1778297	4.5267	1.51404	2.10012	9.64122
10:56:38				1807	10.18371	1.1773336	4.5267	1.4652	2.1978	9.63687
10:56:39				1808	10.18468	1.1776563	4.5267	1.4652	1.90476	9.63947
10:56:39				1809	10.18468	1.1813548	4.5267	1.4652	2.24664	9.67218
10:56:40				1810	10.18468	1.1805506	4.5267	1.41636	2.05128	9.66507
10:56:40				1811	10.18564	1.1797466	4.5267	1.51404	2.00244	9.6577
10:56:41				1812	10.18564	1.1791031	4.5267	1.51404	2.10012	9.65201
10:56:41				1813	10.18564	1.1824824	4.5267	1.4652	2.10012	9.6819
10:56:42				1814	10.1866	1.1831244	4.5267	1.4652	1.9536	9.68733
10:56:42				1815	10.18853	1.1813548	4.5267	1.4652	1.90476	9.67116
10:56:43				1816	10.18853	1.1811944	4.5267	1.51404	2.00244	9.66974
10:56:43				1817	10.18756	1.1821592	4.5267	1.41636	1.9536	9.67853
10:56:44				1818	10.18853	1.1826428	4.5267	1.4652	1.9536	9.68255
10:56:44				1819	10.18564	1.1823197	4.5267	1.4652	2.10012	9.68046

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:45				1820	10.18756	1.1821592	4.5267	1.4652	2.00244	9.67853
10:56:45				1821	10.18756	1.1808736	4.5267	1.4652	2.10012	9.66716
10:56:46				1822	10.1866	1.1797466	4.5267	1.41636	1.90476	9.65745
10:56:46				1823	10.18853	1.1797466	4.5267	1.4652	2.00244	9.65693
10:56:47				1824	10.18756	1.1797466	4.5267	1.4652	1.80708	9.65719
10:56:47				1825	10.18853	1.1794259	4.5267	1.4652	1.90476	9.6541
10:56:48				1826	10.18756	1.1792656	4.5267	1.4652	1.90476	9.65294
10:56:48				1827	10.18853	1.1792656	4.5267	1.4652	1.85592	9.65268
10:56:49				1828	10.18853	1.1791031	4.5267	1.51404	2.00244	9.65124
10:56:49				1829	10.18756	1.1784597	4.5267	1.4652	1.90476	9.64581
10:56:50				1830	10.18756	1.1781392	4.5267	1.4652	1.80708	9.64297
10:56:50				1831	10.18756	1.1794259	4.5267	1.4652	1.9536	9.65435
10:56:51				1832	10.18756	1.1784597	4.5267	1.4652	2.00244	9.64581
10:56:51				1833	10.1866	1.1776563	4.5267	1.4652	2.00244	9.63896
10:56:52				1834	10.1866	1.1771734	4.5267	1.41636	1.85592	9.63469
10:56:52				1835	10.18468	1.176853	4.5267	1.4652	1.9536	9.63236
10:56:53				1836	10.18564	1.1762079	4.5267	1.51404	1.9536	9.6264
10:56:53				1837	10.1866	1.1763703	4.5267	1.4652	2.10012	9.62759
10:56:54				1838	10.1866	1.1758876	4.5267	1.4652	1.9536	9.62332
10:56:54				1839	10.1866	1.1758876	4.5267	1.4652	1.9536	9.62332
10:56:55				1840	10.18564	1.1762079	4.4283	1.51404	1.80708	9.62642
10:56:55				1841	10.18564	1.1763703	4.5267	1.4652	1.9536	9.62784
10:56:56				1842	10.18756	1.1763703	4.5267	1.4652	2.00244	9.62733
10:56:56				1843	10.18853	1.1763702	4.5267	1.4652	2.14896	9.62708
10:56:57				1844	10.18949	1.1758876	4.5267	1.4652	2.34432	9.62255
10:56:57				1845	10.18949	1.1758876	4.5267	1.51404	1.9536	9.62255
10:56:58				1846	10.19045	1.1749225	4.5267	1.4652	2.00244	9.61377
10:56:58				1847	10.19045	1.1752449	4.5267	1.4652	1.90476	9.61662
10:56:59				1848	10.18853	1.1749225	4.5267	1.4652	2.00244	9.61428
10:56:59				1849	10.18853	1.1741177	4.5267	1.4652	1.9536	9.60716
10:57:00				1850	10.19141	1.1737954	4.5267	1.4652	1.90476	9.60355
10:57:00				1851	10.19238	1.1731531	4.5267	1.41636	1.90476	9.59762
10:57:01				1852	10.19526	1.1731531	4.5267	1.51404	2.05128	9.59686
10:57:01				1853	10.19623	1.1736354	4.5267	1.51404	2.00244	9.60087
10:57:02				1854	10.19623	1.1741177	4.5267	1.4652	2.10012	9.60513
10:57:02				1855	10.19719	1.1739576	4.5267	1.4652	1.9536	9.60346
10:57:03				1856	10.19815	1.1737954	4.5267	1.4652	2.24664	9.60177
10:57:03				1857	10.20007	1.1736353	4.5267	1.51404	1.9536	9.59985
10:57:04				1858	10.19911	1.1741177	4.5267	1.4652	1.9536	9.60437
10:57:04				1859	10.20104	1.1737954	4.5267	1.4652	1.90476	9.60101
10:57:05				1860	10.20104	1.1739576	4.5267	1.4652	2.05128	9.60244
10:57:05				1861	10.20296	1.1749224	4.5267	1.4652	2.05128	9.61046
10:57:06				1862	10.20392	1.1760477	4.5267	1.4652	2.00244	9.62015
10:57:06				1863	10.20392	1.1750825	4.5267	1.4652	2.05128	9.61162
10:57:07				1864	10.20296	1.1749224	4.5267	1.4652	1.9536	9.61046

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:57:07				1865	10.20392	1.1749224	4.5267	1.51404	2.1978	9.61021
10:57:08				1866	10.20489	1.1752448	4.5267	1.4652	1.9536	9.6128
10:57:08				1867	10.20296	1.1750825	4.5267	1.4652	1.9536	9.61188
10:57:09				1868	10.20585	1.1739576	4.6251	1.4652	2.00244	9.60116
10:57:09				1869	10.202	1.1736353	4.5267	1.51404	2.00244	9.59934
10:57:10				1870	10.20296	1.1728309	4.5267	1.4652	1.90476	9.59198
10:57:10				1871	10.20296	1.1734753	4.5267	1.4652	2.05128	9.59767
10:57:11				1872	10.20392	1.1736353	4.5267	1.4652	2.1978	9.59883
10:57:11				1873	10.20489	1.1741176	4.5267	1.51404	2.1978	9.60284
10:57:12				1874	10.20104	1.1736353	4.5267	1.4652	2.14896	9.5996
10:57:12				1875	10.20296	1.1742777	4.5267	1.41636	2.05128	9.60477
10:57:13				1876	10.20687	1.1737954	4.5267	1.4652	2.10012	9.59947
10:57:13				1877	10.20687	1.1754049	4.5267	1.4652	1.9536	9.61369
10:57:14				1878	10.20585	1.1739576	4.5267	1.4652	2.05128	9.60117
10:57:14				1879	10.20687	1.1736353	4.5267	1.4652	2.00244	9.59806
10:57:15				1880	10.20783	1.1739576	4.6251	1.41636	2.00244	9.60064
10:57:15				1881	10.20392	1.1754049	4.5267	1.51404	1.9536	9.61447
10:57:16				1882	10.20104	1.1771733	4.5267	1.4652	1.90476	9.63087
10:57:16				1883	10.19911	1.1768529	4.5267	1.4652	2.00244	9.62854
10:57:17				1884	10.19911	1.1760477	4.5267	1.4652	2.05128	9.62143
10:57:17				1885	10.20104	1.1776562	4.5267	1.4652	2.00244	9.63513
10:57:18				1886	10.20392	1.1792655	4.5267	1.4652	2.00244	9.6486
10:57:18				1887	10.20783	1.1815174	4.5267	1.4652	2.00244	9.66747
10:57:19				1888	10.21072	1.1808735	4.5267	1.4652	2.05128	9.66101
10:57:19				1889	10.21649	1.1811943	4.5267	1.4652	2.1978	9.66231
10:57:20				1890	10.21553	1.1803901	4.5267	1.4652	2.00244	9.65546
10:57:20				1891	10.21457	1.1840897	4.5267	1.4652	2.05128	9.68842
10:57:21				1892	10.2136	1.1842502	4.5267	1.4652	2.00244	9.6901
10:57:21				1893	10.21264	1.1860192	4.5267	1.51404	2.00244	9.70599
10:57:22				1894	10.20783	1.1845714	4.5267	1.51404	2.00244	9.69447
10:57:22				1895	10.20392	1.1863428	4.5267	1.4652	2.05128	9.71118
10:57:23				1896	10.20585	1.1892363	4.5267	1.4652	2.05128	9.73626
10:57:23				1897	10.20976	1.1910058	4.5267	1.4652	2.00244	9.75087
10:57:24				1898	10.20687	1.188593	4.5267	1.4652	2.05128	9.7303
10:57:24				1899	10.20687	1.1879499	4.5267	1.4652	2.05128	9.72461
10:57:25				1900	10.21553	1.1908449	4.5267	1.4652	1.9536	9.7479
10:57:25				1901	10.22322	1.1918104	4.5267	1.51404	2.00244	9.75438
10:57:26				1902	10.22611	1.1902013	4.5267	1.4652	2.10012	9.73938
10:57:26				1903	10.22611	1.1890754	4.5267	1.4652	2.05128	9.72942
10:57:27				1904	10.22419	1.1869855	4.5267	1.4652	1.90476	9.71146
10:57:27				1905	10.22419	1.1871462	4.5267	1.51404	2.14896	9.71288
10:57:28				1906	10.22419	1.1837685	4.5267	1.51404	1.9536	9.68302
10:57:28				1907	10.22034	1.1800694	4.5267	1.4652	1.90476	9.65135
10:57:29				1908	10.21938	1.1765303	4.5267	1.4652	2.14896	9.62033
10:57:29				1909	10.21938	1.1763701	4.5267	1.4652	2.14896	9.61892

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:57:30				1910	10.21649	1.1741176	4.5267	1.51404	2.14896	9.59978
10:57:30				1911	10.2136	1.1736353	4.5267	1.4652	1.9536	9.59628
10:57:31				1912	10.21457	1.1736353	4.5267	1.4652	2.10012	9.59603
10:57:31				1913	10.21649	1.1734753	4.5267	1.4652	2.10012	9.59411
10:57:32				1914	10.2136	1.1736353	4.5267	1.51404	2.29548	9.59628
10:57:32				1915	10.21264	1.1733131	4.5267	1.51404	2.05128	9.59369
10:57:33				1916	10.21264	1.1731531	4.5267	1.41636	2.24664	9.59228
10:57:33				1917	10.20879	1.1720267	4.5267	1.4652	2.10012	9.58334
10:57:34				1918	10.20489	1.1710627	4.5267	1.4652	2.24664	9.57585
10:57:34				1919	10.202	1.1709007	4.5267	1.4652	2.24664	9.57518
10:57:35				1920	10.202	1.1705787	4.5267	1.4652	2.1978	9.57233
10:57:35				1921	10.20296	1.1689716	4.5267	1.4652	2.29548	9.55788
10:57:36				1922	10.20392	1.1691314	4.5267	1.51404	2.10012	9.55904
10:57:36				1923	10.20104	1.1694532	4.5267	1.4652	2.10012	9.56264
10:57:37				1924	10.20007	1.1684879	4.5267	1.4652	2.14896	9.55437
10:57:38				1927	10.20591	1.1685054	4.5267	1.4652	2.00244	9.55299
10:57:39				1928	10.20591	1.1688271	4.5267	1.4652	2.1978	9.55584
10:57:39				1929	10.20879	1.1697926	4.6251	1.4652	2.14896	9.56359
10:57:40				1930	10.20976	1.1697926	4.5267	1.51404	2.34432	9.56335
10:57:40				1931	10.21072	1.1689891	4.5267	1.4652	2.00244	9.556
10:57:41				1932	10.20879	1.1693109	4.6251	1.4652	1.90476	9.55934
10:57:41				1933	10.20495	1.1709182	4.5267	1.4652	2.10012	9.57456
10:57:42				1934	10.19821	1.1697926	4.5267	1.4652	2.05128	9.56639
10:57:42				1935	10.19436	1.1694708	4.6251	1.4652	1.90476	9.56454
10:57:43				1936	10.19244	1.1701145	4.5267	1.4652	2.442	9.57075
10:57:43				1937	10.18955	1.1702766	4.5267	1.4652	2.10012	9.57294
10:57:44				1938	10.18955	1.1702766	4.6251	1.41636	2.00244	9.57293
10:57:44				1939	10.18955	1.1702766	4.5267	1.51404	2.00244	9.57294
10:57:45				1940	10.18859	1.1688272	4.5267	1.41636	2.1978	9.56038
10:57:45				1941	10.1857	1.169149	4.5267	1.4652	2.9304	9.56399
10:57:46				1942	10.18378	1.1699547	4.5267	1.51404	2.1978	9.57161
10:57:46				1943	10.17993	1.1683457	4.5267	1.4652	2.34432	9.5584
10:57:47				1944	10.17607	1.1685055	4.6251	1.4652	2.442	9.56081
10:57:47				1945	10.17319	1.1689892	4.5267	1.4652	2.1978	9.56586
10:57:48				1946	10.16837	1.1691491	4.5267	1.4652	1.9536	9.56854
10:57:48				1947	10.17319	1.1664161	4.5267	1.4652	2.05128	9.54312
10:57:49				1948	10.16934	1.1659328	4.5267	1.4652	2.1978	9.53986
10:57:49				1949	10.16837	1.1657732	4.5267	1.4652	2.00244	9.5387
10:57:50				1950	10.16741	1.1665758	4.5267	1.4652	2.24664	9.54605
10:57:50				1951	10.16934	1.1670592	4.5267	1.51404	2.29548	9.54981
10:57:51				1952	10.16741	1.1670592	4.5267	1.4652	2.1978	9.55032
10:57:51				1953	10.16645	1.1664161	4.5267	1.4652	2.24664	9.54489
10:57:52				1954	10.16645	1.1660946	4.5267	1.4652	2.34432	9.54204
10:57:52				1955	10.16741	1.1659328	4.5267	1.4652	2.05128	9.54036
10:57:53				1956	10.16645	1.1640024	4.5267	1.51404	2.34432	9.52355

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:57:53				1957	10.16934	1.1627155	4.5267	1.41636	1.9536	9.51142
10:57:54				1958	10.1703	1.162556	4.5267	1.4652	2.05128	9.50976
10:57:54				1959	10.17319	1.1620733	4.5267	1.51404	2.24664	9.50474
10:57:55				1960	10.17222	1.1617522	4.5267	1.4652	2.34432	9.50216
10:57:55				1961	10.178	1.1607871	4.5267	1.4652	2.29548	9.49212
10:57:56				1962	10.17896	1.160464	4.5267	1.4652	2.49084	9.48902
10:57:56				1963	10.178	1.1603046	4.5267	1.51404	2.29548	9.48786
10:57:57				1964	10.17896	1.1603046	4.5267	1.4652	2.39316	9.48761
10:57:57				1965	10.17993	1.1593399	4.5267	1.4652	2.1978	9.47884
10:57:58				1966	10.18089	1.159017	4.5267	1.4652	2.05128	9.47573
10:57:58				1967	10.18281	1.159017	4.5267	1.4652	2.10012	9.47523
10:57:59				1968	10.18185	1.1574093	4.5267	1.4652	2.00244	9.46129
10:57:59				1969	10.17896	1.1575707	4.6251	1.4652	2.83272	9.46345
10:58:00				1970	10.17896	1.1569274	4.5267	1.4652	2.6862	9.45778
10:58:00	10:56:45 end transect	10.0	270	1971	10.17896	1.1566047	4.5267	1.51404	2.1978	9.45493
10:58:01				1972	10.17896	1.1564433	4.5267	1.4652	2.1978	9.45351
10:58:01				1973	10.17896	1.1598222	4.5267	1.4652	2.10012	9.48335
10:58:02				1974	10.178	1.1593399	4.6251	1.41636	2.39316	9.47932
10:58:02				1975	10.178	1.1583734	4.6251	1.51404	2.29548	9.47079
10:58:03				1976	10.178	1.1578913	4.6251	1.51404	2.10012	9.46653
10:58:03				1977	10.17896	1.1582141	4.3299	1.4652	2.14896	9.46917
10:58:04				1978	10.178	1.1564433	4.2315	1.4652	2.39316	9.4538
10:58:04				1979	10.17607	1.1558002	4.0348	1.4652	2.39316	9.44865
10:58:05				1980	10.17319	1.1543532	3.838	1.51404	2.14896	9.43665
10:58:05				1981	10.17222	1.153227	3.6412	1.4652	2.29548	9.42698
10:58:06				1982	10.17222	1.151298	3.4445	1.4652	2.1978	9.40998
10:58:06				1983	10.17126	1.149368	3.3461	1.51404	2.24664	9.39321
10:58:07				1984	10.17319	1.1422915	3.2477	1.4652	2.29548	9.33028
10:58:07				1985	10.17319	1.1196167	3.1493	1.4652	2.29548	9.13047
10:58:08				1986	10.17319	1.0917994	2.7558	1.4652	3.36996	8.8859
10:58:08				1987	10.17222	1.0770071	2.7558	1.4652	2.6862	8.75629
10:58:09				1988	10.16741	1.0305475	2.6574	1.51404	2.73504	8.35069
10:58:09				1989	10.16645	1.0233149	2.4606	1.4652	2.88156	8.28777
10:58:10				1990	10.1635	1.0239571	2.2639	1.4652	2.83272	8.29407
10:58:10				1991	10.11631	0.9185358	1.8703	1.4652	2.88156	7.3876
10:58:11				1992	9.98497	0.880782	1.772	1.51404	2.97924	7.08697
10:58:11				1993	9.77881	0.6105994	1.4768	1.4652	5.51893	4.81092
10:58:12				1994	9.643	0.6053054	1.2801	1.4652	4.44444	4.78426
10:58:12				1995	9.61577	0.4665955	1.0833	1.51404	4.93284	3.62596
10:58:13				1996	9.61188	0.3965628	1.0833	1.4652	6.10501	3.04972
10:58:13				1997	9.58955	0.4380661	0.9849	1.51404	6.39805	3.39266
10:58:14				1998	9.56813	0.41483	0.8865	1.4652	7.91209	3.2033
10:58:14				1999	9.51365	0.3883911	0.8865	1.4652	6.64225	2.99106
10:58:15				2000	9.49907	0.4031328	0.7881	1.51404	6.39805	3.11322
10:58:15				2001	9.50199	0.4066578	0.7881	1.4652	6.59341	3.14194

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:16				2002	9.50782	0.4032926	0.6898	1.4652	6.54457	3.11378
10:58:16				2003	9.51657	0.4045745	0.6898	1.4652	9.62149	3.12356
10:58:17				2004	9.52046	0.3962432	0.5914	1.4652	5.32357	3.05485
10:58:17				2005	9.52532	0.4122652	0.5914	1.4652	3.4188	3.18601
10:58:18				2006	9.53018	0.4282904	0.6898	1.4652	3.27228	3.31756
10:58:18				2007	9.5351	0.2332248	0.6898	1.4652	2.73504	1.74116
10:58:19				2008	9.53898	0.081914	0.6898	1.4652	2.6862	0.58072
10:58:19	11:13:05 switch off			2009	9.5487	0.0616154	0.6898	1.4652	2.58852	0.43166
11:01:00	10:59:41 switch on			7	9.98962	0.8518889	0.8865	0	0	6.83648
11:01:01				8	10.03111	0.7370771	0.9849	0	0	5.84535
11:01:01				9	10.05528	0.8806434	1.0833	0	0	7.07214
11:01:02				10	10.06782	0.8801609	1.1817	0	0	7.06552
11:01:02				11	10.06589	0.896065	1.1817	0	0	7.20335
11:01:03				12	10.05625	0.9034554	1.2801	0	0	7.26922
11:01:03				13	10.03503	0.9074722	1.3784	0	0	7.30826
11:01:04				14	9.99348	0.909399	1.3784	0	0	7.33335
11:01:04				15	9.96929	0.8902813	1.3784	0	0	7.17238
11:01:05				16	9.9819	0.8816067	1.3784	0	0	7.09476
11:01:05				17	10.0012	0.884819	1.3784	0	0	7.11878
11:01:06				18	10.0205	0.8865862	1.3784	0	0	7.13028
11:01:06				19	10.01761	0.895904	1.3784	0	0	7.21152
11:01:07				20	10.01857	0.8971893	1.3784	0	0	7.22246
11:01:07				21	10.02339	0.8968689	1.3784	0	0	7.21872
11:01:08				22	10.03208	0.8971892	1.3784	0	0	7.21977
11:01:08				23	10.04178	0.9000804	1.3784	0	0	7.24287
11:01:09				24	10.03889	0.9015272	1.3784	0	0	7.25598
11:01:09				25	10.03889	0.9012063	1.4768	0	0	7.25319
11:01:10				26	10.04371	0.9013657	1.3784	0	0	7.25362
11:01:10				27	10.04468	0.8944583	1.4768	0	0	7.19362
11:01:11				28	10.04275	0.8790364	1.4768	0	0	7.06065
11:01:11				29	10.03792	0.8742174	1.3784	0	0	7.01997
11:01:12				30	10.03503	0.8766268	1.3784	0	0	7.04134
11:01:12				31	10.02822	0.8689154	1.3784	0	0	6.97605
11:01:13				32	10.02822	0.8697186	1.3784	0	0	6.98299
11:01:13				33	10.02725	0.8710046	1.4768	0	0	6.99427
11:01:14				34	10.02822	0.8713257	1.3784	0	0	6.99687
11:01:14				35	10.03111	0.8761451	1.4768	0	0	7.03793
11:01:15				36	10.03015	0.889156	1.3784	0	0	7.15062
11:01:15				37	10.03696	0.8962262	1.3784	0	0	7.21046
11:01:16				38	10.04468	0.8865862	1.3784	0	0	7.12554
11:01:16				39	10.05046	0.8946193	1.4768	0	0	7.19387
11:01:17				40	10.0495	0.9037766	1.3784	0	0	7.27334
11:01:17				41	10.04082	0.9016886	1.3784	0	0	7.25699
11:01:18				42	10.036	0.8877102	1.4768	0	0	7.13695

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:18				43	10.03503	0.8870678	1.4768	0	0	7.13159
11:01:19				44	10.03503	0.8965465	1.3784	0	0	7.21362
11:01:19				45	10.03407	0.9063476	1.3784	0	0	7.29871
11:01:20				46	10.03304	0.8893167	1.3784	0	0	7.15144
11:01:20				47	10.03792	0.8867467	1.3784	0	0	7.12825
11:01:21				48	10.03503	0.8952616	1.3784	0	0	7.2025
11:01:21				49	10.03304	0.9015272	1.3784	0	0	7.25715
11:01:22				50	10.03111	0.8931725	1.3784	0	0	7.18519
11:01:22				51	10.03111	0.8862651	1.3784	0	0	7.12542
11:01:23				52	10.02918	0.8955838	1.3784	0	0	7.20644
11:01:23				53	10.02918	0.9004032	1.3784	0	0	7.24818
11:01:24				54	10.02532	0.8914067	1.3784	0	0	7.17105
11:01:24				55	10.01664	0.887389	1.3784	0	0	7.13799
11:01:25				56	10.01471	0.8934944	1.3784	0	0	7.19122
11:01:25				57	10.01761	0.8949395	1.4768	0	0	7.20315
11:01:26				58	10.01761	0.8910851	1.4768	0	0	7.16978
11:01:26				59	10.01375	0.8870679	1.4768	0	0	7.13577
11:01:27				60	10.00892	0.8928527	1.3784	0	0	7.18681
11:01:27				61	10.00699	0.8947805	1.3784	0	0	7.20389
11:01:28				62	10.00024	0.8896382	1.3784	0	0	7.16069
11:01:28				63	9.99831	0.8881941	1.3784	0	0	7.14857
11:01:29				64	9.99831	0.8910851	1.3784	0	0	7.1736
11:01:29				65	9.99927	0.8926918	1.3784	0	0	7.18733
11:01:30				66	9.99734	0.8889954	1.3784	0	0	7.1557
11:01:30				67	9.98769	0.8875497	1.3784	0	0	7.14508
11:01:31				68	9.97997	0.8901205	1.4768	0	0	7.16886
11:01:31				69	9.97508	0.8910852	1.4768	0	0	7.17819
11:01:32				70	9.97122	0.8894776	1.3784	0	0	7.16503
11:01:32				71	9.96929	0.8873892	1.3784	0	0	7.14731
11:01:33				72	9.96542	0.8867469	1.4768	0	0	7.1425
11:01:33				73	9.96639	0.8849796	1.3784	0	0	7.127
11:01:34				74	9.96832	0.8853024	1.3784	0	0	7.12942
11:01:34				75	9.94514	0.8865864	1.3784	0	0	7.14511
11:01:35				76	9.92872	0.885784	1.4768	0	0	7.14138
11:01:35				77	9.93548	0.8803215	1.4768	0	0	7.09269
11:01:36				78	9.93935	0.8801613	1.3784	0	0	7.09056
11:01:36				79	9.94708	0.8848192	1.3784	0	0	7.12941
11:01:37				80	9.95577	0.8812864	1.3784	0	0	7.09709
11:01:37				81	9.94997	0.8743774	1.3784	0	0	7.03839
11:01:38				82	9.92582	0.8763053	1.3784	0	0	7.05978
11:01:38				83	9.9045	0.8811244	1.4768	0	0	7.10572
11:01:39				84	9.89967	0.8812865	1.3784	0	0	7.10809
11:01:39				85	9.87647	0.8748609	1.3784	0	0	7.05687
11:01:40				86	9.8532	0.8740562	1.3784	0	0	7.05442
11:01:40				87	9.83869	0.8780728	1.3784	0	0	7.09214

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:41				88	9.83773	0.880644	1.3784	0	0	7.11467
11:01:41				89	9.82612	0.8764674	1.3784	0	0	7.08065
11:01:42				90	9.82225	0.8729324	1.3784	0	0	7.05069
11:01:42				91	9.81154	0.8779129	1.4768	0	0	7.09606
11:01:43				92	9.81838	0.8803218	1.3784	0	0	7.11568
11:01:43				93	9.81541	0.8745395	1.4768	0	0	7.06598
11:01:44				94	9.80477	0.8607238	1.3784	0	0	6.94806
11:01:44				95	9.79605	0.8400043	1.4768	0	0	6.77001
11:01:45				96	9.81154	0.8252285	1.3784	0.58608	0.29304	6.63927
11:01:45				97	9.82225	0.7960021	1.3784	0.39072	0.14652	6.38508
11:01:46				98	9.83289	0.7377205	1.3784	1.4652	1.02564	5.88286
11:01:46				99	9.83289	0.7701506	1.4768	1.4652	3.9072	6.16085
11:01:47				100	9.82805	0.7561817	1.3784	1.4652	4.29792	6.04179
11:01:47				101	9.83289	0.7497597	1.4768	1.4652	4.29792	5.98593
11:01:48				102	9.8445	0.7846008	1.3784	1.41636	4.1514	6.28305
11:01:48				103	9.8726	0.7987321	1.4768	1.4652	4.49328	6.39969
11:01:49				104	9.89871	0.7969651	1.3784	1.41636	4.20024	6.3799
11:01:49				105	9.91127	0.7947162	1.3784	1.4652	4.34676	6.35836
11:01:50				106	9.91514	0.7932709	1.3784	1.4652	4.3956	6.34526
11:01:50				107	9.90644	0.7879728	1.3784	1.4652	4.6398	6.30127
11:01:51				108	9.90257	0.791344	1.3784	1.4652	4.44444	6.3309
11:01:51				109	9.90547	0.7850818	1.4768	1.4652	4.1514	6.2766
11:01:52				110	9.90354	0.7773758	1.3784	1.4652	4.05372	6.21081
11:01:52				111	9.9074	0.7752875	1.3784	1.4652	4.24908	6.19224
11:01:53				112	9.9045	0.7707912	1.4768	1.4652	4.44444	6.15417
11:01:53				113	9.9103	0.7735209	1.4768	1.41636	4.29792	6.17659
11:01:54				114	9.90934	0.7746454	1.4768	1.51404	4.24908	6.18639
11:01:54				115	9.9045	0.7727185	1.3784	1.4652	4.24908	6.1707
11:01:55				116	9.89677	0.7651736	1.4768	1.4652	4.3956	6.10734
11:01:55				117	9.89871	0.772238	1.4768	1.51404	4.24908	6.16756
11:01:56				118	9.89677	0.7540952	1.4768	1.4652	4.44444	6.01247
11:01:56				119	9.89677	0.7436601	1.4768	1.4652	4.49328	5.92323
11:01:57				120	9.88711	0.758911	1.3784	1.4652	4.44444	6.05532
11:01:57				121	9.87841	0.7521683	1.4768	1.4652	4.54212	5.99903
11:01:58				122	9.87454	0.7512046	1.3784	1.41636	4.68864	5.99143
11:01:58				123	9.87454	0.7585895	1.4768	1.41636	4.78632	6.05466
11:01:59				124	9.87647	0.7592327	1.4768	1.4652	4.73748	6.05984
11:02:00				127	9.8807	0.7136235	1.3784	1.4652	4.68864	5.66949
11:02:01				128	9.8807	0.7012656	1.3784	1.4652	4.59096	5.56428
11:02:01				129	9.8749	0.6964504	1.3784	1.51404	4.6398	5.52421
11:02:02				130	9.8662	0.6797592	1.3784	1.51404	4.49328	5.38372
11:02:02				131	9.85653	0.6770303	1.3784	1.4652	4.3956	5.36199
11:02:03				132	9.83519	0.6917955	1.3784	1.4652	4.83516	5.49066
11:02:03				133	9.82648	0.6978945	1.3784	1.4652	5.03053	5.5439
11:02:04				134	9.83325	0.7046365	1.4768	1.4652	4.54212	5.60028

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:04				135	9.83519	0.7020671	1.4768	1.4652	4.6398	5.57809
11:02:05				136	9.83422	0.7070435	1.4768	1.41636	4.98168	5.62065
11:02:05				137	9.83228	0.6945248	1.4768	1.41636	4.73748	5.51431
11:02:06				138	9.83712	0.6871414	1.3784	1.41636	4.49328	5.45078
11:02:06				139	9.83422	0.6871414	1.4768	1.41636	4.73748	5.45121
11:02:07				140	9.82841	0.6781549	1.3784	1.4652	4.6398	5.37571
11:02:07				141	9.82164	0.68361	1.3784	1.51404	4.98168	5.42308
11:02:08				142	9.82358	0.6893888	1.3784	1.51404	4.884	5.47194
11:02:08				143	9.82648	0.6876224	1.3784	1.4652	4.78632	5.45647
11:02:09				144	9.82454	0.6839319	1.3784	1.4652	4.73748	5.42538
11:02:09				145	9.81487	0.6913137	1.4768	1.4652	4.83516	5.48963
11:02:10				146	9.82261	0.7033515	1.3784	1.4652	4.93284	5.59099
11:02:10				147	9.82841	0.6990189	1.3784	1.4652	4.6398	5.55318
11:02:11				148	9.82648	0.6853768	1.3784	1.4652	4.6398	5.43738
11:02:11				149	9.82648	0.6812032	1.3784	1.4652	4.68864	5.4019
11:02:12				150	9.82261	0.6784743	1.3784	1.4652	4.68864	5.37928
11:02:12				151	9.80616	0.6759083	1.4768	1.4652	4.68864	5.35991
11:02:13				152	9.79648	0.6632304	1.4768	1.4652	5.42125	5.25367
11:02:13				153	9.78674	0.6585764	1.3784	1.51404	4.98168	5.2156
11:02:14				154	9.78286	0.6635511	1.2801	1.51404	5.12821	5.25838
11:02:14				155	9.78383	0.6601806	1.4768	1.51404	4.98168	5.22962
11:02:15				156	9.78383	0.6518368	1.3784	1.51404	5.27473	5.15886
11:02:15				157	9.78383	0.650393	1.3784	1.51404	5.07937	5.14662
11:02:16				158	9.78383	0.650393	1.3784	1.4652	5.17705	5.14662
11:02:16				159	9.78383	0.6507135	1.3784	1.4652	4.98168	5.14934
11:02:17				160	9.78383	0.6491094	1.3784	1.51404	5.03053	5.13575
11:02:17				161	9.7819	0.6450972	1.4768	1.4652	5.32357	5.10202
11:02:18				162	9.77899	0.6545642	1.4768	1.51404	4.98168	5.18267
11:02:18				163	9.77996	0.661786	1.3784	1.4652	4.93284	5.24381
11:02:19				164	9.77996	0.6580947	1.4768	1.4652	4.93284	5.21248
11:02:19				165	9.78093	0.6598604	1.3784	1.51404	5.12821	5.22733
11:02:20				166	9.78093	0.6670804	1.4768	1.4652	5.12821	5.28862
11:02:20				167	9.77996	0.6670804	1.3784	1.51404	4.78632	5.28877
11:02:21				168	9.77802	0.6717349	1.4768	1.4652	4.98168	5.3286
11:02:21				169	9.77705	0.6632304	1.3784	1.4652	5.12821	5.2565
11:02:22				170	9.77512	0.6561689	1.4768	1.4652	5.07937	5.19684
11:02:22				171	9.77705	0.6529607	1.3784	1.4652	5.27473	5.16936
11:02:23				172	9.77802	0.6550469	1.4768	1.4652	5.22589	5.1869
11:02:23				173	9.78093	0.6494298	1.4768	1.4652	5.12821	5.13887
11:02:24				174	9.7819	0.6471828	1.3784	1.4652	5.42125	5.1197
11:02:24				175	9.78286	0.6428513	1.3784	1.4652	5.17705	5.08288
11:02:25				176	9.7819	0.6383579	1.4768	1.4652	4.98168	5.04497
11:02:25				177	9.78093	0.6338653	1.3784	1.4652	4.83516	5.00711
11:02:26				178	9.77899	0.6348285	1.3784	1.4652	5.17705	5.01552
11:02:26				179	9.77802	0.6367543	1.3784	1.4652	5.17705	5.03195

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:27				180	9.77705	0.6202288	1.3784	1.4652	5.32357	4.89241
11:02:27				181	9.77221	0.6266453	1.3784	1.41636	5.07937	4.94726
11:02:28				182	9.77318	0.6422091	1.4768	1.4652	5.12821	5.07879
11:02:28				183	9.77028	0.6407648	1.3784	1.4652	5.12821	5.06697
11:02:29				184	9.76737	0.6457386	1.4768	1.4652	5.07937	5.10951
11:02:29				185	9.76834	0.6508748	1.3784	1.4652	5.12821	5.15291
11:02:30				186	9.77028	0.646541	1.2801	1.51404	4.93284	5.11591
11:02:30				187	9.77028	0.6423697	1.3784	1.41636	4.884	5.08056
11:02:31				188	9.77221	0.6231164	1.3784	1.4652	4.93284	4.91745
11:02:31				189	9.77125	0.6243999	1.3784	1.4652	4.83516	4.92842
11:02:32				190	9.77221	0.6210302	1.3784	1.51404	4.83516	4.89983
11:02:32				191	9.7664	0.6062707	1.3784	1.4652	4.93284	4.77608
11:02:33				192	9.75962	0.602742	1.3784	1.4652	4.68864	4.74724
11:02:33				193	9.75284	0.5960047	1.4768	1.4652	4.73748	4.69136
11:02:34				194	9.73928	0.5918344	1.3784	1.4652	5.03053	4.65801
11:02:34	11:0119 begin transect	7.5	270	195	9.72372	0.5708227	1.3784	1.4652	5.17705	4.48333
11:02:35				196	9.72566	0.5757943	1.3784	1.41636	4.93284	4.52484
11:02:35				197	9.73244	0.5833327	1.4768	1.41636	5.07937	4.58735
11:02:36				198	9.73147	0.569057	1.3784	1.4652	5.32357	4.46754
11:02:36				199	9.72953	0.5769166	1.4768	1.51404	5.22589	4.53378
11:02:37				200	9.73341	0.5761154	1.4768	1.4652	5.56777	4.52656
11:02:37				201	9.73341	0.5842946	1.3784	1.4652	5.61661	4.59532
11:02:38				202	9.72469	0.5724262	1.3784	1.4652	5.27473	4.49667
11:02:38				203	9.715	0.573869	1.3784	1.51404	5.51893	4.51
11:02:39				204	9.70433	0.5700206	1.4768	1.4652	5.37241	4.47898
11:02:39				205	9.69658	0.5616798	1.3784	1.4652	5.42125	4.40992
11:02:40				206	9.68979	0.5648869	1.3784	1.51404	5.71429	4.43767
11:02:40				207	9.68398	0.5594347	1.4768	1.4652	5.56777	4.3926
11:02:41				208	9.68398	0.5499726	1.4768	1.41636	5.90965	4.31326
11:02:41				209	9.68198	0.5470863	1.3784	1.4652	5.71429	4.28932
11:02:42				210	9.68398	0.550613	1.3784	1.4652	5.27473	4.31863
11:02:42				211	9.68495	0.5459625	1.3784	1.4652	5.42125	4.27955
11:02:43				212	9.68785	0.5414726	1.4768	1.4652	5.37241	4.24162
11:02:43				213	9.68785	0.5445202	1.3784	1.4652	5.66545	4.26713
11:02:44				214	9.68591	0.5451605	1.4768	1.4652	5.71429	4.27272
11:02:44				215	9.68101	0.5365012	1.3784	1.4652	5.76313	4.20083
11:02:45				216	9.67519	0.5397084	1.4768	1.4652	5.71429	4.22834
11:02:45				217	9.67228	0.5413133	1.3784	1.4652	5.32357	4.24212
11:02:46				218	9.67131	0.5483689	1.4768	1.41636	5.47009	4.30133
11:02:46				219	9.66743	0.5552647	1.3784	1.4652	5.51893	4.35962
11:02:47				220	9.67034	0.5543017	1.3784	1.4652	5.51893	4.35119
11:02:47				221	9.67131	0.5560659	1.4768	1.4652	5.61661	4.36587
11:02:48				222	9.6684	0.5610391	1.3784	1.4652	5.61661	4.40798
11:02:48				223	9.67422	0.5628026	1.3784	1.4652	5.56777	4.42207
11:02:49				224	9.67616	0.5688972	1.4768	1.51404	5.61661	4.47303

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:49				225	9.67616	0.5730674	1.3784	1.4652	5.76313	4.5081
11:02:50				226	9.6781	0.5680958	1.3784	1.41636	5.66545	4.46607
11:02:50				227	9.68295	0.581729	1.4768	1.4652	5.66545	4.58013
11:02:51				228	9.68591	0.5823697	1.3784	1.4652	5.71429	4.58515
11:02:51				229	9.68979	0.581568	1.4768	1.4652	5.76313	4.5779
11:02:52				230	9.68785	0.6021001	1.3784	1.4652	5.86081	4.75125
11:02:52				231	9.68882	0.5998554	1.3784	1.4652	5.76313	4.73217
11:02:53				232	9.68688	0.5894275	1.4768	1.4652	5.81197	4.64447
11:02:53				233	9.68495	0.5730674	1.3784	1.4652	5.32357	4.50701
11:02:54				234	9.68495	0.5656903	1.3784	1.4652	5.07937	4.44501
11:02:54				235	9.68591	0.5608781	1.3784	1.4652	5.07937	4.40449
11:02:55				236	9.68398	0.5581514	1.3784	1.4652	5.27473	4.38184
11:02:55				237	9.68198	0.5531805	1.4768	1.4652	5.37241	4.34039
11:02:56				238	9.67907	0.5509351	1.4768	1.4652	6.05617	4.32191
11:02:56				239	9.6781	0.5520566	1.3784	1.4652	5.76313	4.33143
11:02:57				240	9.6781	0.5530202	1.3784	1.41636	5.66545	4.33951
11:02:57				241	9.67713	0.5581514	1.3784	1.4652	5.47009	4.38267
11:02:58				242	9.67325	0.5639259	1.3784	1.4652	5.71429	4.43163
11:02:58				243	9.67519	0.5709829	1.3784	1.51404	5.51893	4.49069
11:02:59				244	9.6781	0.5806057	1.3784	1.4652	5.56777	4.57129
11:03:00				247	9.68658	0.5371236	1.3784	1.4652	5.61661	4.20539
11:03:01				248	9.68658	0.5430569	1.3784	1.4652	5.81197	4.25503
11:03:01				249	9.67301	0.5475472	1.3784	1.51404	5.86081	4.29425
11:03:02				250	9.65846	0.5531601	1.4768	1.4652	6.10501	4.34304
11:03:02				251	9.65264	0.5576504	1.4768	1.4652	5.81197	4.38143
11:03:03				252	9.65264	0.5727262	1.3784	1.4652	6.05617	4.50817
11:03:03				253	9.65652	0.5738484	1.3784	1.41636	5.66545	4.51713
11:03:04				254	9.66137	0.5658295	1.3784	1.4652	5.95849	4.44908
11:03:04				255	9.66622	0.5770566	1.3784	1.4652	5.56777	4.54291
11:03:05				256	9.66913	0.5950216	1.3784	1.4652	5.27473	4.69395
11:03:05				257	9.67495	0.5898882	1.4768	1.51404	5.42125	4.64989
11:03:06				258	9.67979	0.5916535	1.4768	1.41636	5.56777	4.66415
11:03:06				259	9.68367	0.582671	1.4768	1.4652	5.27473	4.58797
11:03:07				260	9.68561	0.5898882	1.3784	1.4652	5.51893	4.64853
11:03:07				261	9.68949	0.5881244	1.4768	1.51404	5.66545	4.63316
11:03:08				262	9.69537	0.608656	1.3784	1.4652	5.86081	4.80562
11:03:08				263	9.69731	0.7466671	1.3784	1.4652	5.42125	5.98183
11:03:09				264	9.69731	0.7790984	1.4768	1.4652	5.22589	6.26117
11:03:09				265	9.7322	0.74169	1.3784	1.4652	5.17705	5.93332
11:03:10				266	9.74092	0.9091899	1.4768	1.4652	4.34676	7.38284
11:03:10				267	9.76907	0.8985874	1.3784	1.4652	4.24908	7.28457
11:03:11				268	9.82914	0.8646937	1.3784	1.4652	4.05372	6.97782
11:03:11				269	9.88433	0.8749734	1.4768	1.41636	3.85836	7.05631
11:03:12				270	9.90463	0.8606765	1.3784	1.4652	3.85836	6.92851
11:03:12				271	9.92208	0.8648526	1.4768	1.4652	3.9072	6.9613

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:13				272	9.91435	0.8646935	1.4768	1.51404	4.10256	6.96141
11:03:13				273	9.91822	0.8732061	1.3784	1.4652	4.24908	7.03441
11:03:14				274	9.93174	0.8691893	1.3784	1.4652	4.29792	6.997
11:03:14				275	9.93271	0.8555378	1.3784	1.4652	4.3956	6.87871
11:03:15				276	9.93271	0.8699925	1.3784	1.4652	4.68864	7.00377
11:03:15				277	9.94526	0.8550561	1.3784	1.4652	3.95604	6.87216
11:03:16				278	9.95492	0.8481481	1.3784	1.4652	4.24908	6.81067
11:03:16				279	9.96072	0.8312852	1.3784	1.4652	4.1514	6.66416
11:03:17				280	9.96072	0.8377091	1.3784	1.4652	4.34676	6.71953
11:03:17				281	9.95492	0.8380298	1.4768	1.4652	4.44444	6.72336
11:03:18				282	9.95009	0.8346572	1.3784	1.51404	4.49328	6.69518
11:03:18				283	9.94623	0.8312853	1.4768	1.4652	4.49328	6.66681
11:03:19				284	9.94333	0.8245398	1.3784	1.4652	4.34676	6.60922
11:03:19				285	9.9385	0.8128163	1.3784	1.4652	4.34676	6.50917
11:03:20				286	9.93754	0.8316071	1.4768	1.4652	4.3956	6.67118
11:03:20				287	9.93464	0.8532892	1.3784	1.4652	4.6398	6.8589
11:03:21				288	9.93078	0.8349795	1.3784	1.4652	5.12821	6.70153
11:03:21				289	9.92691	0.8288766	1.4768	1.41636	4.29792	6.64959
11:03:22				290	9.92788	0.8229336	1.4768	1.4652	4.34676	6.59819
11:03:22				291	9.93174	0.8218093	1.4768	1.4652	4.44444	6.5878
11:03:23				292	9.93464	0.8176354	1.4768	1.4652	4.49328	6.55133
11:03:23				293	9.93561	0.8163498	1.3784	1.4652	4.34676	6.5401
11:03:24				294	9.93464	0.8198826	1.4768	1.4652	4.34676	6.57068
11:03:24				295	9.92981	0.8218093	1.4768	1.4652	4.3956	6.58815
11:03:25				296	9.92981	0.8308026	1.3784	1.51404	4.3956	6.66568
11:03:25				297	9.92981	0.8277515	1.4768	1.4652	4.49328	6.63936
11:03:26				298	9.93174	0.8229336	1.4768	1.41636	4.6398	6.59749
11:03:26				299	9.93271	0.8173135	1.3784	1.51404	4.20024	6.54892
11:03:27				300	9.93367	0.8173135	1.3784	1.4652	4.20024	6.54874
11:03:27				301	9.93271	0.8214887	1.4768	1.4652	4.24908	6.58487
11:03:28				302	9.93367	0.8195623	1.3784	1.51404	4.20024	6.56811
11:03:28				303	9.93078	0.81908	1.3784	1.41636	4.00488	6.56448
11:03:29				304	9.92788	0.8420458	1.3784	1.4652	4.00488	6.76305
11:03:29				305	9.92981	0.8537705	1.4768	1.51404	4.00488	6.86397
11:03:30				306	9.92981	0.8521648	1.3784	1.4652	4.05372	6.8501
11:03:30				307	9.93078	0.8587487	1.3784	1.4652	4.05372	6.90684
11:03:31				308	9.93271	0.85618	1.3784	1.4652	4.20024	6.88426
11:03:31				309	9.93754	0.847668	1.3784	1.4652	4.05372	6.80979
11:03:32				310	9.94044	0.8280729	1.4768	1.4652	3.9072	6.64019
11:03:32				311	9.93561	0.8404398	1.3784	1.4652	3.85836	6.74774
11:03:33				312	9.93271	0.8979439	1.3784	1.4652	3.95604	7.24612
11:03:33				313	9.93754	0.8956954	1.3784	1.4652	3.95604	7.22564
11:03:34				314	9.93754	0.8762579	1.3784	1.4652	3.663	7.05709
11:03:34				315	9.94237	0.9175434	1.3784	1.4652	3.61416	7.4145
11:03:35				316	9.94623	0.915294	1.3784	1.41636	3.85836	7.39415

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:35				317	9.95203	0.8937669	1.3784	1.4652	3.9072	7.20602
11:03:36				318	9.96265	0.8997121	1.4768	1.4652	3.76068	7.25547
11:03:36				319	9.96754	0.9082257	1.4768	1.4652	4.00488	7.3284
11:03:37				320	9.98491	0.9019599	1.3784	1.41636	3.76068	7.27053
11:03:37				321	9.98974	0.8921614	1.4768	1.4652	3.76068	7.18461
11:03:38				322	9.98974	0.8810766	1.3784	1.51404	3.85836	7.08863
11:03:38				323	9.98878	0.8802738	1.3784	1.4652	3.85836	7.08187
11:03:39				324	9.98878	0.8871809	1.3784	1.41636	4.29792	7.14167
11:03:39				325	9.98395	0.9027635	1.4768	1.4652	4.29792	7.27768
11:03:40				326	9.98298	0.910635	1.4768	1.4652	4.24908	7.34619
11:03:40				327	9.99843	0.9197924	1.4768	1.4652	4.3956	7.42257
11:03:41				328	10.00904	0.9201136	1.3784	1.4652	3.9072	7.4232
11:03:41				329	10.0158	0.907744	1.3784	1.4652	4.1514	7.31449
11:03:42				330	10.01676	0.9226845	1.3784	1.51404	3.85836	7.44395
11:03:42				331	10.01966	0.9312005	1.4768	1.4652	3.76068	7.51732
11:03:43				332	10.01869	0.9210794	1.3784	1.41636	3.56532	7.42961
11:03:43				333	10.02165	0.9220415	1.4768	1.4652	3.4188	7.43735
11:03:44				334	10.02358	0.9217221	1.4768	1.51404	3.56532	7.43418
11:03:44				335	10.03226	0.9299146	1.4768	1.4652	3.85836	7.50354
11:03:45				336	10.03419	0.9289515	1.3784	1.41636	3.80952	7.49479
11:03:45				337	10.03997	0.92381	1.3784	1.4652	3.56532	7.44896
11:03:46				338	10.03997	0.9432509	1.3784	1.51404	3.61416	7.61786
11:03:46				339	10.03708	0.9363421	1.3784	1.4652	3.71184	7.5584
11:03:47				340	10.0419	0.9279868	1.3784	1.41636	3.56532	7.48482
11:03:47				341	10.04383	0.9323256	1.4768	1.4652	3.46764	7.52209
11:03:48				342	10.03901	0.9340929	1.4768	1.51404	3.51648	7.53845
11:03:48				343	10.03129	0.9278258	1.3784	1.4652	3.56532	7.48561
11:03:49				344	10.03129	0.9119214	1.3784	1.4652	3.56532	7.34758
11:03:49				345	10.03612	0.9038884	1.3784	1.4652	3.61416	7.27699
11:03:50				346	10.03901	0.9072624	1.3784	1.4652	3.9072	7.30564
11:03:50				347	10.03901	0.8892691	1.3784	1.51404	3.85836	7.14985
11:03:51				348	10.03129	0.8879838	1.3784	1.4652	3.80952	7.14025
11:03:51				349	10.02062	0.8921614	1.3784	1.4652	3.71184	7.17851
11:03:52				350	10.0158	0.8971415	1.3784	1.4652	3.80952	7.2226
11:03:52				351	10.0129	0.9009971	1.3784	1.4652	3.71184	7.25658
11:03:53				352	10.01001	0.8963377	1.3784	1.4652	3.76068	7.21678
11:03:53				353	10.01001	0.8971415	1.2801	1.4652	3.51648	7.22376
11:03:54				354	10.0129	0.8997119	1.3784	1.4652	3.61416	7.24544
11:03:54				355	10.01387	0.8989073	1.3784	1.4652	3.663	7.23828
11:03:55				356	10.01483	0.8964988	1.3784	1.4652	3.71184	7.21722
11:03:55				357	10.02062	0.9030845	1.3784	1.51404	3.46764	7.27313
11:03:56				358	10.01773	0.9040481	1.3784	1.4652	3.46764	7.28206
11:03:56				359	10.0158	0.9069409	1.3784	1.41636	3.71184	7.30752
11:03:57				360	10.0129	0.9069409	1.3784	1.4652	3.4188	7.30811
11:03:57				361	10.0129	0.9051737	1.3784	1.4652	3.36996	7.29278

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:58				362	10.01001	0.9087073	1.3784	1.4652	3.51648	7.32401
11:03:58				363	10.01001	0.9075822	1.3784	1.4652	3.56532	7.31425
11:03:59				364	10.01483	0.9035673	1.3784	1.4652	3.61416	7.27847
11:04:00				367	10.00428	0.8998693	1.3784	1.4652	3.663	7.24853
11:04:01				368	10.00428	0.9011545	1.3784	1.51404	3.76068	7.25967
11:04:01				369	10.00235	0.899708	1.3784	1.51404	3.51648	7.24751
11:04:02				370	9.99656	0.89746	1.3784	1.41636	3.76068	7.22919
11:04:02				371	9.9898	0.8875001	1.3784	1.4652	3.61416	7.14423
11:04:03				372	9.98691	0.9062958	1.3784	1.4652	3.71184	7.30775
11:04:03				373	9.99559	0.9035653	1.3784	1.4652	3.663	7.28231
11:04:04				374	9.99752	0.8821982	1.3784	1.4652	3.61416	7.09682
11:04:04				375	9.99559	0.8918377	1.3784	1.4652	3.663	7.18066
11:04:05				376	9.99463	0.9175412	1.3784	1.4652	3.51648	7.40381
11:04:05				377	10.00428	0.9151315	1.3784	1.4652	3.663	7.38092
11:04:06				378	10.01779	0.9144884	1.3784	1.4652	3.61416	7.37259
11:04:06				379	10.02068	0.9140076	1.3784	1.4652	3.61416	7.36783
11:04:07				380	10.01682	0.9122396	1.3784	1.4652	3.95604	7.35327
11:04:07				381	10.01586	0.9112751	1.3784	1.4652	3.61416	7.3451
11:04:08				382	10.01875	0.9058145	1.3784	1.4652	3.61416	7.29716
11:04:08				383	10.01779	0.906134	1.3784	1.4652	3.46764	7.30013
11:04:09				384	10.01779	0.918506	1.3784	1.41636	3.46764	7.40746
11:04:09				385	10.0284	0.929431	1.3784	1.4652	3.61416	7.50015
11:04:10				386	10.041	0.9273426	1.3784	1.4652	3.22344	7.47941
11:04:10				387	10.04486	0.9287884	1.3784	1.4652	3.32112	7.49117
11:04:11				388	10.04293	0.9268595	1.3784	1.4652	3.22344	7.47482
11:04:11				389	10.03135	0.920754	1.3784	1.51404	3.27228	7.4242
11:04:12				390	10.0255	0.9201115	1.3784	1.4652	3.4188	7.41982
11:04:12				391	10.02936	0.9180245	1.3784	1.41636	3.51648	7.40092
11:04:13				392	10.03618	0.9451775	1.3784	1.4652	3.51648	7.63542
11:04:13				393	10.04389	0.9416415	1.3784	1.4652	3.4188	7.60305
11:04:14				394	10.04871	0.9361785	1.3784	1.4652	3.36996	7.55456
11:04:14				395	10.0545	0.9368208	1.3784	1.4652	3.32112	7.55894
11:04:15				396	10.05546	0.9334471	1.4768	1.4652	3.27228	7.52942
11:04:15				397	10.05546	0.9291086	1.3784	1.51404	3.51648	7.49176
11:04:16				398	10.05546	0.9291086	1.3784	1.41636	3.32112	7.49176
11:04:16				399	10.05643	0.9316802	1.3784	1.4652	3.4188	7.51389
11:04:17				400	10.05354	0.937625	1.3784	1.4652	3.12576	7.56613
11:04:17				401	10.05257	0.9364996	1.3784	1.41636	3.22344	7.55655
11:04:18				402	10.0545	0.9347327	1.3784	1.4652	3.22344	7.5408
11:04:18				403	10.05354	0.9305553	1.3784	1.4652	3.22344	7.50472
11:04:19				404	10.05161	0.9265395	1.3784	1.4652	3.46764	7.47026
11:04:19				405	10.05064	0.9265395	1.3784	1.4652	3.4188	7.47046
11:04:20				406	10.04871	0.9305553	1.3784	1.4652	3.46764	7.50572
11:04:20				407	10.04775	0.9302349	1.3784	1.4652	3.36996	7.50314
11:04:21				408	10.04389	0.918827	1.3784	1.4652	3.36996	7.40492

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:21				409	10.04486	0.9215573	1.3784	1.4652	3.1746	7.42841
11:04:22				410	10.04486	0.9342503	1.3784	1.4652	3.4188	7.53861
11:04:22				411	10.04389	0.928307	1.3784	1.4652	3.4188	7.48719
11:04:23				412	10.04003	0.9246103	1.3784	1.4652	3.36996	7.45589
11:04:23				413	10.04003	0.9170598	1.3784	1.51404	3.4188	7.39037
11:04:24				414	10.04293	0.9231648	1.3784	1.51404	3.46764	7.44275
11:04:24				415	10.04679	0.9254148	1.3784	1.4652	3.36996	7.46149
11:04:25				416	10.0545	0.9170597	1.3784	1.51404	3.32112	7.38743
11:04:25				417	10.0545	0.917541	1.3784	1.4652	3.51648	7.3916
11:04:26				418	10.05643	0.9144882	1.3784	1.41636	3.36996	7.36475
11:04:26				419	10.05354	0.9130423	1.3784	1.4652	3.46764	7.3528
11:04:27				420	10.05161	0.9146505	1.3784	1.4652	3.36996	7.36713
11:04:27				421	10.04775	0.9170597	1.3784	1.41636	3.46764	7.3888
11:04:28				422	10.04389	0.9099908	1.3784	1.4652	3.46764	7.3283
11:04:28				423	10.03907	0.9117572	1.3784	1.4652	3.51648	7.34459
11:04:29				424	10.01393	0.9228433	1.3784	1.4652	3.51648	7.44591
11:04:29				425	10.00524	0.9287885	1.3784	1.51404	3.61416	7.49935
11:04:30				426	10.0255	0.9231648	1.3784	1.51404	3.85836	7.44632
11:04:30				427	10.03811	0.9226824	1.3784	1.4652	3.85836	7.43955
11:04:31				428	10.04196	0.9209146	1.3784	1.4652	3.61416	7.42342
11:04:31				429	10.04486	0.9247711	1.3784	1.4652	3.76068	7.4563
11:04:32				430	10.05257	0.9496761	1.3784	1.4652	3.51648	7.6711
11:04:32				431	10.05354	0.9482292	1.3784	1.4652	3.36996	7.65831
11:04:33				432	10.04871	0.946783	1.3784	1.4652	3.61416	7.64674
11:04:33				433	10.04679	0.9419633	1.3784	1.4652	3.4188	7.60524
11:04:34				434	10.05257	0.9353747	1.3784	1.41636	3.27228	7.54678
11:04:34				435	10.06125	0.9284661	1.3784	1.4652	3.36996	7.485
11:04:35				436	10.06607	0.9215573	1.3784	1.4652	3.76068	7.42407
11:04:35				437	10.06704	0.9279848	1.3784	1.4652	3.71184	7.47963
11:04:36				438	10.06221	0.9371441	1.3784	1.4652	3.32112	7.56014
11:04:36				439	10.05932	0.9360189	1.3784	1.4652	3.46764	7.55097
11:04:37				440	10.04679	0.9311984	1.3784	1.4652	3.61416	7.5117
11:04:37				441	10.05257	0.9194691	1.3784	1.4652	3.56532	7.40872
11:04:38				442	10.05739	0.9202721	1.3784	1.51404	3.4188	7.4147
11:04:38				443	10.06221	0.9225216	1.3784	1.51404	3.51648	7.43322
11:04:39				444	10.06125	0.9181849	1.3784	1.4652	3.51648	7.39581
11:04:39				445	10.05739	0.9294309	1.4768	1.4652	3.56532	7.49415
11:04:40				446	10.05739	0.9239688	1.3784	1.4652	3.36996	7.44676
11:04:40				447	10.05257	0.9234863	1.3784	1.4652	3.51648	7.44357
11:04:41				448	10.03907	0.9141678	1.3784	1.4652	3.71184	7.36549
11:04:41				449	10.03618	0.9109549	1.3784	1.4652	3.51648	7.33822
11:04:42				450	10.02454	0.9085453	1.3784	1.41636	3.71184	7.31967
11:04:42				451	10.01007	0.9025999	1.4768	1.4652	3.76068	7.27103
11:04:43				452	10.01007	0.896656	1.4768	1.4652	4.24908	7.21952
11:04:43				453	9.99945	0.8902316	1.3784	1.41636	4.20024	7.16598

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:44				454	9.98497	0.864208	1.4768	1.4652	4.34676	6.94367
11:04:44				455	9.94919	0.8359408	1.3784	1.51404	4.49328	6.70641
11:04:45				456	9.90952	0.8295159	1.3784	1.41636	4.73748	6.65831
11:04:45				457	9.90082	0.8259846	1.4768	1.4652	4.93284	6.62943
11:04:46				458	9.88149	0.8023772	1.3784	1.4652	4.93284	6.4295
11:04:46				459	9.85725	0.7598292	1.3784	1.4652	4.884	6.06818
11:04:47				460	9.83888	0.7933856	1.3784	1.4652	5.12821	6.35962
11:04:47				461	9.83597	0.7667321	1.3784	1.4652	4.93284	6.13098
11:04:48				462	9.83404	0.7290078	1.3784	1.4652	5.47009	5.80816
11:04:48				463	9.8292	0.7318965	1.3784	1.51404	5.47009	5.83364
11:04:49				464	9.82049	0.6924127	1.3784	1.51404	5.56777	5.49814
11:04:49				465	9.77784	0.6720316	1.3784	1.4652	5.47009	5.33115
11:04:50				466	9.78075	0.6667357	1.3784	1.51404	5.66545	5.28573
11:04:50				467	9.79817	0.702524	1.4768	1.4652	5.56777	5.5877
11:04:51				468	9.7972	0.6803768	1.3784	1.4652	5.37241	5.39924
11:04:51				469	9.80011	0.6447525	1.3784	1.4652	5.42125	5.09655
11:04:52				470	9.77978	0.6502085	1.3784	1.4652	5.27473	5.14564
11:04:52				471	9.76622	0.5996718	1.3784	1.51404	5.71429	4.72051
11:04:53				472	9.75654	0.5926141	1.3784	1.4652	5.90965	4.66235
11:04:53				473	9.75357	0.5934168	1.3784	1.4652	5.47009	4.66949
11:04:54				474	9.75163	0.5967843	1.3784	1.4652	5.37241	4.69809
11:04:54				475	9.74776	0.60673	1.3784	1.4652	5.47009	4.78242
11:04:55				476	9.74873	0.580744	1.3784	1.4652	5.61661	4.56353
11:04:55				477	9.7371	0.5781777	1.3784	1.4652	5.56777	4.54343
11:04:56				478	9.73323	0.5845946	1.4768	1.4652	5.56777	4.59786
11:04:56				479	9.73032	0.5865183	1.3784	1.51404	5.51893	4.61442
11:04:57				480	9.71772	0.57866	1.3784	1.4652	6.25153	4.54992
11:04:57				481	9.71191	0.5722436	1.3784	1.4652	6.20269	4.49673
11:04:58				482	9.70512	0.5772154	1.3784	1.4652	5.66545	4.53936
11:04:58				483	9.70997	0.5815472	1.3784	1.4652	5.90965	4.57518
11:04:59				484	9.71385	0.5797822	1.3784	1.4652	6.00733	4.55985
11:05:00				487	9.70324	0.5722694	1.4768	1.4652	5.51893	4.49801
11:05:01				488	9.70421	0.5746745	1.3784	1.4652	5.61661	4.51811
11:05:01				489	9.70809	0.5753163	1.3784	1.4652	5.61661	4.52302
11:05:02				490	9.711	0.57644	1.3784	1.4652	5.42125	4.5321
11:05:02				491	9.70809	0.5756373	1.3784	1.41636	5.42125	4.52572
11:05:03				492	9.70712	0.5777216	1.4768	1.4652	5.47009	4.54336
11:05:03				493	9.70712	0.5798081	1.4768	1.4652	5.37241	4.56091
11:05:04				494	9.70712	0.5782037	1.3784	1.4652	5.81197	4.54742
11:05:04				495	9.70131	0.5799673	1.4768	1.4652	5.42125	4.56298
11:05:05				496	9.70227	0.578043	1.3784	1.4652	5.22589	4.54668
11:05:05				497	9.70518	0.5825342	1.3784	1.4652	5.37241	4.58409
11:05:06				498	9.70421	0.5785252	1.3784	1.4652	5.71429	4.55049
11:05:06				499	9.70615	0.5748349	1.3784	1.4652	5.61661	4.51922
11:05:07				500	9.70324	0.578043	1.3784	1.4652	6.05617	4.54656

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:07				501	9.70131	0.5767595	1.3784	1.4652	5.71429	4.53601
11:05:08				502	9.6984	0.5769201	1.3784	1.4652	5.37241	4.53772
11:05:08				503	9.70227	0.580931	1.3784	1.4652	5.51893	4.57097
11:05:09				504	9.70227	0.5804499	1.3784	1.4652	5.51893	4.56692
11:05:09				505	9.70034	0.5756373	1.3784	1.4652	5.76313	4.52669
11:05:10				506	9.69646	0.6008218	1.3784	1.4652	5.61661	4.73933
11:05:10				507	9.69646	0.5867041	1.3784	1.4652	5.90965	4.62031
11:05:11				508	9.69549	0.594084	1.4768	1.4652	5.47009	4.68261
11:05:11				509	9.69549	0.5918379	1.3784	1.4652	5.51893	4.66369
11:05:12				510	9.69549	0.6098041	1.4768	1.4652	5.42125	4.8153
11:05:12				511	9.69452	0.6080402	1.3784	1.4652	5.66545	4.80053
11:05:13				512	9.69937	0.612051	1.3784	1.4652	5.81197	4.83378
11:05:13				513	9.70227	0.6205537	1.3784	1.4652	5.42125	4.90528
11:05:14				514	9.70809	0.6205537	1.3784	1.4652	5.51893	4.90449
11:05:14				515	9.711	0.6149394	1.3784	1.51404	5.51893	4.85663
11:05:15				516	9.71003	0.6112478	1.3784	1.51404	5.51893	4.82556
11:05:15				517	9.70131	0.6555317	1.3784	1.4652	5.42125	5.20205
11:05:16				518	9.70809	0.6520018	1.3784	1.51404	5.37241	5.17108
11:05:16				519	9.72463	0.6136547	1.3784	1.51404	5.07937	4.84394
11:05:17				520	9.71784	0.6638756	1.3784	1.4652	5.51893	5.2706
11:05:17				521	9.72463	0.6600242	1.3784	1.51404	5.37241	5.23687
11:05:18				522	9.74594	0.6258489	1.3784	1.4652	5.37241	4.94412
11:05:18				523	9.74594	0.6369181	1.3784	1.4652	5.32357	5.0378
11:05:19				524	9.73335	0.6866643	1.3784	1.51404	5.17705	5.46237
11:05:19				525	9.74691	0.6630738	1.3784	1.4652	5.37241	5.25955
11:05:20				526	9.7595	0.62681	1.3784	1.4652	5.27473	4.9504
11:05:20				527	9.74788	0.6470273	1.3784	1.4652	5.22589	5.12319
11:05:21				528	9.75757	0.6670859	1.3784	1.4652	5.07937	5.29209
11:05:21				529	9.77603	0.65858	1.3784	1.4652	4.884	5.21717
11:05:22				530	9.77118	0.6680481	1.4768	1.4652	5.12821	5.29827
11:05:22				531	9.75757	0.664036	1.3784	1.4652	4.98168	5.26617
11:05:23				532	9.75466	0.6658012	1.3784	1.4652	5.27473	5.2816
11:05:23				533	9.75757	0.6686911	1.3784	1.4652	5.71429	5.30574
11:05:24				534	9.75757	0.6653214	1.3784	1.4652	5.32357	5.2771
11:05:24				535	9.76731	0.6637151	1.3784	1.4652	5.51893	5.26203
11:05:25				536	9.76634	0.6616294	1.3784	1.4652	5.37241	5.24446
11:05:25				537	9.75369	0.6398078	1.3784	1.41636	5.17705	5.06119
11:05:26				538	9.73529	0.636758	1.3784	1.4652	5.22589	5.03793
11:05:26				539	9.73432	0.6356357	1.3784	1.4652	5.51893	5.02855
11:05:27				540	9.73238	0.617185	1.4768	1.4652	5.56777	4.87272
11:05:27				541	9.71197	0.6003394	1.3784	1.4652	5.32357	4.73323
11:05:28				542	9.69743	0.5998589	1.3784	1.4652	5.51893	4.73108
11:05:28				543	9.68967	0.5798082	1.3784	1.41636	5.81197	4.56312
11:05:29				544	9.6887	0.5812512	1.3784	1.4652	5.71429	4.57538
11:05:29				545	9.68192	0.5740329	1.3784	1.4652	5.51893	4.5155

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:30				546	9.68095	0.5634473	1.3784	1.4652	5.71429	4.42666
11:05:30				547	9.67125	0.5562299	1.3784	1.4652	5.86081	4.36726
11:05:31				548	9.6664	0.5551076	1.3784	1.51404	5.81197	4.35843
11:05:31				549	9.65761	0.5528616	1.3784	1.4652	5.61661	4.34064
11:05:32				550	9.6547	0.5437205	1.3784	1.51404	6.00733	4.26435
11:05:32				551	9.66252	0.5557498	1.4768	1.51404	5.81197	4.36428
11:05:33				552	9.66543	0.5607205	1.3784	1.4652	5.61661	4.40566
11:05:33				553	9.66931	0.5604003	1.3784	1.51404	6.00733	4.4025
11:05:34				554	9.67319	0.5528616	1.3784	1.51404	5.81197	4.33877
11:05:34				555	9.67319	0.5485323	1.3784	1.4652	5.81197	4.30248
11:05:35				556	9.66931	0.549334	1.3784	1.51404	5.32357	4.30966
11:05:35	11.0520 end transect	7.5	90	557	9.66834	0.5517395	1.3784	1.51404	5.76313	4.32994
11:05:36				558	9.66543	0.5462872	1.3784	1.4652	6.20269	4.28459
11:05:36				559	9.66252	0.5385891	1.3784	1.4652	6.39805	4.22046
11:05:37				560	9.65858	0.5305717	1.4768	1.4652	6.00733	4.15384
11:05:37				561	9.64694	0.5517396	1.3784	1.4652	6.00733	4.33251
11:05:38				562	9.64597	0.5636086	1.3784	1.4652	5.95849	4.43231
11:05:38				563	9.65761	0.5616833	1.4768	1.4652	6.05617	4.4147
11:05:39				564	9.65664	0.5600801	1.4768	1.4652	6.05617	4.40135
11:05:39				565	9.65955	0.5607205	1.4768	1.4652	6.10501	4.40637
11:05:40				566	9.6547	0.5551076	1.5752	1.41636	5.51893	4.35983
11:05:40				567	9.6664	0.7621095	1.5752	1.4652	5.47009	6.11993
11:05:41				568	9.74885	0.8933224	1.6736	1.4652	5.81197	7.24267
11:05:41				569	9.87581	0.9077804	1.8703	1.41636	5.22589	7.34305
11:05:42				570	9.9135	0.9397543	1.772	1.4652	4.73748	7.61392
11:05:42				571	9.98027	0.9328462	1.8703	1.4652	4.24908	7.53976
11:05:43				572	10.03533	0.951325	1.9687	1.4652	4.05372	7.68902
11:05:43				573	10.07005	0.9919822	1.9687	1.51404	4.10256	8.03592
11:05:44				574	10.10481	0.9762334	2.0671	1.51404	3.663	7.89097
11:05:44				575	10.12408	0.9558235	2.1655	1.51404	3.12576	7.70931
11:05:45				576	10.12215	0.9781609	2.1655	1.51404	3.27228	7.90398
11:05:45				577	10.12697	0.9914997	2.1655	1.4652	3.12576	8.01911
11:05:46				578	10.13178	1.0019469	2.2639	1.4652	2.9304	8.10912
11:05:46				579	10.1366	1.0220395	2.3623	1.4652	3.02808	8.28344
11:05:47				580	10.15688	1.0234859	2.3623	1.4652	2.9304	8.29145
11:05:47				581	10.16555	1.0262183	2.3623	1.4652	2.9304	8.31334
11:05:48				582	10.17325	1.0426152	2.4606	1.4652	3.12576	8.45486
11:05:48				583	10.18961	1.0385967	2.559	1.41636	2.9304	8.41592
11:05:49				584	10.20988	1.0393995	2.559	1.4652	2.6862	8.41825
11:05:49				585	10.20507	1.0402046	2.559	1.51404	2.9304	8.4264
11:05:50				586	10.18576	1.0059654	2.559	1.4652	2.88156	8.13207
11:05:50				587	10.1511	1.0262183	2.559	1.4652	2.88156	8.31662
11:05:51				588	10.13852	1.0447044	2.559	1.51404	2.73504	8.48121
11:05:51				589	10.14051	1.0403642	2.559	1.4652	2.6862	8.44276
11:05:52				590	10.15784	1.0385968	2.559	1.51404	2.73504	8.42327

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:52				591	10.17132	1.0393996	2.559	1.51404	2.73504	8.42717
11:05:53				592	10.18672	1.0447042	2.559	1.51404	2.58852	8.46998
11:05:53				593	10.2041	1.0430979	2.559	1.51404	2.73504	8.4519
11:05:54				594	10.21373	1.0315235	2.559	1.4652	2.78388	8.3486
11:05:54				595	10.21661	1.0241279	2.559	1.4652	2.49084	8.28343
11:05:55				596	10.21757	1.0255754	2.559	1.4652	2.58852	8.29583
11:05:55				597	10.21565	1.028951	2.559	1.41636	2.73504	8.32572
11:05:56				598	10.2118	1.0271824	2.559	1.4652	2.6862	8.31117
11:05:56				599	10.20988	1.028147	2.559	1.4652	2.73504	8.32002
11:05:57				600	10.20795	1.0279862	2.559	1.4652	2.73504	8.31906
11:05:57				601	10.20699	1.0294336	2.559	1.4652	2.6862	8.33191
11:05:58				602	10.20988	1.036667	2.559	1.51404	2.6862	8.39439
11:05:58	11:04:43 start transect	7.5	90	603	10.20988	1.0376306	2.559	1.4652	2.78388	8.4028
11:05:59				604	10.21276	1.0458301	2.559	1.51404	2.78388	8.47376
11:06:00				607	10.22527	1.0542846	2.4606	1.51404	2.63736	8.54474
11:06:01				608	10.22527	1.0729323	2.559	1.4652	2.63736	8.70788
11:06:01				609	10.22912	1.0764697	2.559	1.4652	2.63736	8.73794
11:06:02				610	10.24547	1.0870797	2.559	1.4652	2.63736	8.82694
11:06:02				611	10.26277	1.093994	2.559	1.41636	2.63736	8.88332
11:06:03				612	10.257	1.0959233	2.559	1.4652	2.58852	8.90164
11:06:03				613	10.2907	1.0978516	2.559	1.51404	2.53968	8.9103
11:06:04				614	10.31857	1.1031579	2.559	1.4652	2.34432	8.94995
11:06:04				615	10.32625	1.1031579	2.559	1.51404	2.63736	8.94807
11:06:05				616	10.33495	1.0975307	2.559	1.4652	2.78388	8.89669
11:06:05				617	10.34168	1.0808083	2.559	1.4652	2.73504	8.74889
11:06:06				618	10.34744	1.0814526	2.559	1.51404	2.53968	8.75313
11:06:06				619	10.3532	1.0803277	2.559	1.4652	2.58852	8.74193
11:06:07				620	10.34264	1.1115186	2.559	1.4652	2.83272	9.01724
11:06:07				621	10.34072	1.1021918	2.559	1.4652	2.53968	8.93607
11:06:08				622	10.34936	1.099137	2.559	1.41636	2.63736	8.90723
11:06:08				623	10.36088	1.0975306	2.559	1.4652	2.58852	8.89037
11:06:09				624	10.37336	1.0964038	2.559	1.4652	2.442	8.87749
11:06:09				625	10.37624	1.0899723	2.559	1.4652	2.78388	8.8206
11:06:10				626	10.3724	1.0883644	2.559	1.4652	2.39316	8.80749
11:06:10				627	10.37336	1.0893303	2.559	1.51404	2.49084	8.81569
11:06:11				628	10.37528	1.0896524	2.559	1.51404	2.63736	8.81804
11:06:11				629	10.37528	1.0898123	2.559	1.51404	2.53968	8.81944
11:06:12				630	10.37336	1.0898123	2.559	1.4652	2.53968	8.8199
11:06:12				631	10.37432	1.0904565	2.559	1.51404	2.58852	8.8253
11:06:13				632	10.38295	1.0939935	2.559	1.4652	2.53968	8.8541
11:06:13				633	10.38391	1.0952796	2.4606	1.41636	2.29548	8.86511
11:06:14				634	10.38199	1.0956002	2.559	1.4652	2.442	8.86837
11:06:14				635	10.38199	1.1007463	2.559	1.4652	2.53968	8.91333
11:06:15				636	10.38967	1.100102	2.559	1.4652	2.58852	8.90583
11:06:15				637	10.39351	1.1108739	2.559	1.4652	2.58852	8.99905

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:16				638	10.39549	1.1047649	2.4606	1.4652	2.442	8.94517
11:06:16				639	10.38487	1.1073384	2.559	1.4652	2.442	8.97025
11:06:17				640	10.42618	1.1185926	2.559	3.07692	2.442	9.05846
11:06:17				641	10.48855	1.1247035	2.559	1.7094	2.6862	9.09637
11:06:18				642	10.49813	1.098976	2.559	1.80708	2.49084	8.86963
11:06:18				643	10.44728	1.0976907	2.559	2.63736	2.442	8.87076
11:06:19				644	10.4118	1.0956001	2.559	2.73504	2.34432	8.86113
11:06:19				645	10.39741	1.0930282	2.559	2.14896	2.63736	8.84217
11:06:20				646	10.38583	1.0893303	2.559	2.1978	2.53968	8.81268
11:06:20				647	10.38007	1.0904565	2.559	2.49084	2.73504	8.8239
11:06:21				648	10.38007	1.0901344	2.559	2.53968	2.78388	8.82109
11:06:21				649	10.38199	1.0882045	2.559	2.53968	2.442	8.80378
11:06:22				650	10.38007	1.085311	2.559	2.05128	2.73504	8.77898
11:06:22				651	10.37719	1.086114	2.559	2.05128	2.63736	8.78668
11:06:23				652	10.37432	1.0833822	2.559	2.1978	2.442	8.76353
11:06:23				653	10.36184	1.0790417	2.559	2.53968	2.29548	8.72863
11:06:24				654	10.35416	1.0782364	2.559	2.58852	2.39316	8.72344
11:06:24				655	10.34456	1.0750215	2.559	2.58852	2.53968	8.69767
11:06:25				656	10.33591	1.0695555	2.559	2.58852	2.49084	8.65201
11:06:25				657	10.32049	1.0685919	2.559	2.6862	2.63736	8.64726
11:06:26				658	10.31088	1.059589	2.559	2.49084	2.53968	8.57095
11:06:26				659	10.29743	1.0523548	2.559	2.58852	2.442	8.51099
11:06:27				660	10.2907	1.0520326	2.559	2.1978	2.58852	8.50975
11:06:27				661	10.28782	1.0534796	2.559	1.7094	2.34432	8.52305
11:06:28				662	10.28686	1.0513905	2.559	1.51404	2.29548	8.50505
11:06:28				663	10.28302	1.0518726	2.559	1.4652	2.442	8.51015
11:06:29				664	10.28013	1.0518727	2.559	1.4652	2.442	8.51082
11:06:29				665	10.28109	1.0584641	2.559	1.4652	2.78388	8.56814
11:06:30				666	10.27917	1.0587848	2.559	1.4652	2.88156	8.57139
11:06:30				667	10.28013	1.0597495	2.4606	1.51404	2.49084	8.5796
11:06:31				668	10.28109	1.0674656	2.559	1.51404	2.442	8.64677
11:06:31				669	10.28302	1.0742175	2.4606	1.4652	2.6862	8.70534
11:06:32				670	10.28109	1.0740563	2.559	1.51404	2.34432	8.70438
11:06:32				671	10.28109	1.0714861	2.559	1.4652	2.39316	8.68191
11:06:33				672	10.28494	1.0732544	2.559	1.4652	2.49084	8.69645
11:06:33				673	10.29359	1.0755035	2.559	1.4652	3.07692	8.71404
11:06:34				674	10.29551	1.075183	2.559	1.4652	3.22344	8.71078
11:06:34				675	10.29647	1.07454	2.559	1.51404	2.78388	8.70493
11:06:35				676	10.29455	1.0795243	2.559	1.51404	2.53968	8.74897
11:06:35				677	10.28974	1.0851495	2.4606	1.4652	2.49084	8.79934
11:06:36				678	10.28494	1.0925461	2.559	1.51404	2.49084	8.86524
11:06:36				679	10.28109	1.0935112	2.4606	1.51404	2.442	8.87464
11:06:37				680	10.28398	1.092386	2.3623	1.51404	2.442	8.8641
11:06:37				681	10.29743	1.0947971	2.559	1.4652	2.58852	8.88191
11:06:38				682	10.31088	1.0949572	2.4606	1.41636	2.63736	8.88005

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:38				683	10.32241	1.0933488	2.4606	1.4652	2.49084	8.86317
11:06:39				684	10.33495	1.0962437	2.559	1.4652	2.73504	8.88543
11:06:39				685	10.3436	1.0957606	2.559	1.51404	2.53968	8.8791
11:06:40				686	10.35608	1.095923	2.559	1.51404	2.53968	8.87749
11:06:40				687	10.358	1.0946366	2.559	1.51404	2.58852	8.86577
11:06:41				688	10.34936	1.0939937	2.4606	1.4652	2.442	8.86227
11:06:41				689	10.33591	1.0912589	2.559	1.4652	2.49084	8.8416
11:06:42				690	10.32625	1.0907767	2.559	1.41636	2.53968	8.83973
11:06:42				691	10.32145	1.0663396	2.4606	1.4652	2.442	8.62739
11:06:43				692	10.31184	1.0402986	2.559	1.4652	2.63736	8.40256
11:06:43				693	10.30224	1.0505864	2.559	1.4652	2.442	8.49445
11:06:44				694	10.29359	1.046889	2.559	1.51404	2.78388	8.46422
11:06:44				695	10.28974	1.0430325	2.559	1.51404	2.442	8.43148
11:06:45				696	10.2859	1.0435132	2.559	1.4652	2.442	8.43656
11:06:45				697	10.27533	1.0481757	2.559	1.51404	2.442	8.47968
11:06:46				698	10.27046	1.0509085	2.559	1.41636	2.63736	8.50467
11:06:46				699	10.26566	1.0507465	2.559	1.4652	2.6862	8.50437
11:06:47				700	10.26469	1.0618404	2.559	1.4652	2.49084	8.60149
11:06:47				701	10.26662	1.05541	2.4606	1.4652	2.63736	8.54488
11:06:48				702	10.26662	1.0603935	2.4606	1.4652	2.88156	8.58841
11:06:48				703	10.26758	1.0673048	2.559	1.51404	2.49084	8.64857
11:06:49				704	10.2695	1.0666614	2.559	1.4652	2.63736	8.64249
11:06:49				705	10.2695	1.0639285	2.559	1.4652	2.53968	8.6186
11:06:50				706	10.2695	1.0647342	2.559	1.41636	2.53968	8.62564
11:06:50				707	10.26854	1.0652164	2.559	1.4652	2.49084	8.63008
11:06:51				708	10.27046	1.0665006	2.559	1.4652	2.78388	8.64085
11:06:51				709	10.27244	1.0677874	2.559	1.4652	2.78388	8.65163
11:06:52				710	10.27533	1.0732545	2.559	1.4652	2.97924	8.69874
11:06:52				711	10.27821	1.083704	2.559	1.51404	2.6862	8.78946
11:06:53				712	10.28494	1.0862763	2.4606	1.4652	2.73504	8.81037
11:06:53				713	10.30031	1.0822568	2.4606	1.4652	2.78388	8.77149
11:06:54				714	10.29359	1.0767901	2.4606	1.4652	2.58852	8.7253
11:06:54				715	10.28013	1.0800048	2.559	1.4652	2.78388	8.75663
11:06:55				716	10.27917	1.09528	2.559	1.4652	2.78388	8.89059
11:06:55				717	10.29551	1.0931887	2.559	1.4652	2.58852	8.8683
11:06:56				718	10.30896	1.0970476	2.559	1.51404	2.63736	8.8988
11:06:56				719	10.33976	1.1033186	2.559	1.4652	2.53968	8.94616
11:06:57				720	10.35896	1.1091068	2.559	1.4652	2.6862	8.9921
11:06:57				721	10.3628	1.1063732	2.559	1.4652	2.58852	8.96724
11:06:58				722	10.36472	1.1094288	2.559	1.41636	2.34432	8.9935
11:06:58				723	10.37048	1.1070166	2.559	1.4652	2.442	8.97098
11:06:59				724	10.36952	1.1044435	2.559	1.4652	2.442	8.94871
11:07:00				727	10.3649	1.1041735	2.559	1.51404	2.63736	8.94748
11:07:01				728	10.3601	1.1040128	2.559	1.4652	2.53968	8.94725
11:07:01				729	10.35722	1.1022431	2.559	1.4652	2.73504	8.93248

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:02				730	10.3601	1.1030485	2.559	1.41636	2.78388	8.93882
11:07:02				731	10.35722	1.1009583	2.4606	1.4652	2.442	8.92125
11:07:03				732	10.34954	1.098707	2.559	1.4652	2.58852	8.90342
11:07:03				733	10.34186	1.0970988	2.559	1.4652	2.49084	8.89123
11:07:04				734	10.33321	1.0951687	2.4606	1.51404	2.88156	8.87647
11:07:04				735	10.32169	1.0922749	2.559	1.4652	2.6862	8.85394
11:07:05				736	10.31304	1.0919547	2.559	1.4652	2.442	8.85324
11:07:05				737	10.30722	1.0919547	2.559	1.4652	2.49084	8.85465
11:07:06				738	10.3101	1.0924372	2.559	1.41636	2.39316	8.85817
11:07:06				739	10.30626	1.0905058	2.559	1.4652	2.29548	8.8422
11:07:07				740	10.29857	1.0893818	2.559	1.51404	2.29548	8.83423
11:07:07				741	10.288	1.0917926	2.559	1.4652	2.49084	8.8579
11:07:08				742	10.28224	1.0911503	2.559	1.4652	2.34432	8.85368
11:07:08				743	10.28224	1.0930799	2.559	1.4652	2.39316	8.87057
11:07:09				744	10.27935	1.0953313	2.3623	1.4652	2.24664	8.89102
11:07:09				745	10.28704	1.0966158	2.559	1.4652	2.39316	8.90037
11:07:10				746	10.288	1.0789314	2.559	1.4652	2.49084	8.74535
11:07:10				747	10.27455	1.07877	2.559	1.4652	2.29548	8.74717
11:07:11				748	10.25821	1.0741073	2.559	1.4652	2.24664	8.71029
11:07:11				749	10.24661	1.0710538	2.559	1.51404	2.442	8.68634
11:07:12				750	10.23795	1.0691237	2.4606	1.4652	2.442	8.67153
11:07:12				751	10.23603	1.0649437	2.559	1.41636	2.49084	8.6354
11:07:13				752	10.2293	1.0668732	2.559	1.4652	2.53968	8.65388
11:07:13				753	10.22353	1.0721795	2.559	1.4652	2.34432	8.70171
11:07:14				754	10.21968	1.0720184	2.559	1.4652	2.34432	8.70121
11:07:14				755	10.22064	1.0710539	2.559	1.4652	2.53968	8.69254
11:07:15				756	10.21775	1.0643008	2.559	1.4652	2.53968	8.63411
11:07:15				757	10.21391	1.0581921	2.559	1.4652	2.442	8.58157
11:07:16				758	10.2091	1.0569052	2.559	1.4652	2.442	8.57145
11:07:16				759	10.20428	1.0556189	2.559	1.4652	2.49084	8.56133
11:07:17				760	10.20428	1.0578714	2.4606	1.4652	2.58852	8.58105
11:07:17				761	10.20332	1.056262	2.559	1.51404	2.63736	8.56718
11:07:18				762	10.20044	1.0546556	2.559	1.51404	2.6862	8.55381
11:07:18				763	10.19755	1.0543332	2.559	1.4652	2.49084	8.55166
11:07:19				764	10.19556	1.0554587	2.4606	1.4652	2.6862	8.56199
11:07:19				765	10.19364	1.0573883	2.559	1.4652	2.53968	8.57932
11:07:20				766	10.1946	1.0614076	2.4606	1.4652	2.73504	8.61428
11:07:20				767	10.19364	1.0614076	2.559	1.4652	2.58852	8.6145
11:07:21				768	10.19364	1.0615681	2.4606	1.51404	2.53968	8.61592
11:07:21				769	10.19268	1.0668733	2.559	1.4652	2.53968	8.66259
11:07:22				770	10.19364	1.0644616	2.559	1.4652	2.49084	8.64124
11:07:22				771	10.19171	1.0622104	2.559	1.4652	2.53968	8.62198
11:07:23				772	10.18979	1.0594775	2.4606	1.41636	2.78388	8.59852
11:07:23				773	10.18979	1.0689629	2.559	1.4652	2.63736	8.68159
11:07:24				774	10.18787	1.0700877	2.559	1.51404	2.49084	8.6919

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:24				775	10.18787	1.0660692	2.559	1.4652	2.58852	8.65669
11:07:25				776	10.1869	1.0660692	2.559	1.4652	2.63736	8.65692
11:07:25				777	10.1869	1.0660692	2.559	1.4652	2.88156	8.65692
11:07:26				778	10.19755	1.0557813	2.559	1.4652	2.6862	8.56433
11:07:26				779	10.19851	1.0509572	2.4606	1.51404	2.63736	8.52192
11:07:27				780	10.19171	1.0474211	2.559	1.4652	2.83272	8.49257
11:07:27				781	10.18594	1.043564	2.559	1.51404	2.6862	8.46019
11:07:28				782	10.18113	1.0446874	2.559	1.51404	2.58852	8.47113
11:07:28				783	10.17728	1.0392235	2.4606	1.4652	2.6862	8.42427
11:07:29				784	10.17632	1.0389007	2.559	1.4652	2.58852	8.42166
11:07:29				785	10.17439	1.0348832	2.559	1.41636	2.58852	8.38699
11:07:30				786	10.16861	1.036973	2.559	1.4652	2.6862	8.40658
11:07:30				787	10.1638	1.03858	2.559	1.4652	2.58852	8.42175
11:07:31				788	10.1638	1.0390621	2.559	1.51404	2.442	8.42596
11:07:31				789	10.16476	1.0389007	2.559	1.4652	2.58852	8.42433
11:07:32				790	10.1638	1.03633	2.4606	1.41636	2.63736	8.40209
11:07:32				791	10.16188	1.0342386	2.4606	1.4652	2.53968	8.38425
11:07:33				792	10.16188	1.0332762	2.559	1.4652	2.58852	8.37582
11:07:33				793	10.16091	1.0347221	2.559	1.4652	2.73504	8.38869
11:07:34				794	10.15706	1.0422774	2.559	1.51404	2.58852	8.45565
11:07:34				795	10.1638	1.0520836	2.559	1.4652	2.58852	8.5399
11:07:35				796	10.19268	1.0559415	2.559	1.4652	2.49084	8.56688
11:07:35				797	10.21583	1.059317	2.559	1.4652	2.24664	8.59096
11:07:36				798	10.22641	1.0614075	2.559	1.4652	2.39316	8.60675
11:07:36				799	10.23507	1.0675166	2.559	1.4652	2.49084	8.65814
11:07:37				800	10.24084	1.0634974	2.559	1.4652	2.78388	8.62161
11:07:37				801	10.23411	1.0614074	2.559	1.4652	3.02808	8.60493
11:07:38				802	10.22353	1.058192	2.559	1.51404	2.6862	8.57931
11:07:38				803	10.21679	1.0528858	2.559	1.41636	2.58852	8.53449
11:07:39				804	10.20717	1.0620498	2.559	1.4652	2.53968	8.61692
11:07:39				805	10.19659	1.0524036	2.559	1.4652	2.53968	8.53501
11:07:40				806	10.18883	1.0488679	2.559	1.4652	2.6862	8.5059
11:07:40				807	10.18305	1.0470995	2.559	1.51404	2.58852	8.49178
11:07:41				808	10.18305	1.0549761	2.559	1.51404	2.442	8.5607
11:07:41				809	10.18113	1.0594775	2.559	1.4652	2.6862	8.60056
11:07:42				810	10.18498	1.0700878	2.559	1.4652	2.78388	8.69259
11:07:42				811	10.21968	1.072822	2.559	1.4652	2.58852	8.70825
11:07:43				812	10.25141	1.0739461	2.559	1.4652	2.73504	8.7105
11:07:43				813	10.24372	1.0716961	2.4606	1.51404	2.58852	8.69266
11:07:44				814	10.21583	1.072822	2.559	1.4652	2.63736	8.70917
11:07:44				815	10.20332	1.075073	2.559	1.4652	2.78388	8.73189
11:07:45				816	10.20236	1.0760367	2.559	1.41636	2.97924	8.74056
11:07:45				817	10.21102	1.0641402	2.559	1.4652	2.83272	8.6343
11:07:46				818	10.20332	1.0581921	2.559	1.4652	2.58852	8.58407
11:07:46				819	10.19556	1.0544934	2.559	1.4652	2.6862	8.55353

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:47				820	10.19171	1.0491897	2.559	1.4652	2.53968	8.50804
11:07:47				821	10.18883	1.0450108	2.559	1.4652	2.83272	8.47217
11:07:48				822	10.18402	1.0443661	2.559	1.4652	2.78388	8.46765
11:07:48				823	10.18113	1.0409912	2.559	1.4652	2.6862	8.43882
11:07:49				824	10.17824	1.0384186	2.4606	1.4652	2.53968	8.41701
11:07:49				825	10.17439	1.0369729	2.559	1.51404	2.49084	8.40525
11:07:50				826	10.1715	1.0366504	2.559	1.4652	2.58852	8.4031
11:07:50				827	10.16573	1.0350423	2.559	1.4652	2.63736	8.39038
11:07:51				828	10.16476	1.0355259	2.559	1.4652	2.58852	8.39482
11:07:51				829	10.16765	1.0445278	2.559	1.4652	2.53968	8.47288
11:07:52				830	10.1715	1.0451705	2.559	1.4652	2.34432	8.4776
11:07:52				831	10.17632	1.0474212	2.559	1.51404	2.49084	8.49617
11:07:53				832	10.17728	1.0498335	2.4606	1.4652	2.78388	8.51706
11:07:53				833	10.17632	1.0495116	2.559	1.4652	2.49084	8.51446
11:07:54				834	10.18209	1.0507973	2.559	1.4652	2.49084	8.52435
11:07:54				835	10.18402	1.0530481	2.559	1.4652	2.58852	8.5436
11:07:55				836	10.18498	1.0522436	2.559	1.4652	2.73504	8.53633
11:07:55				837	10.18209	1.0541731	2.559	1.4652	2.83272	8.5539
11:07:56				838	10.18305	1.0551384	2.559	1.51404	2.73504	8.56212
11:07:56				839	10.18305	1.054013	2.559	1.4652	2.73504	8.55227
11:07:57				840	10.18402	1.0533683	2.559	1.4652	2.6862	8.5464
11:07:57				841	10.18305	1.0551384	2.559	1.4652	2.49084	8.56212
11:07:58				842	10.18787	1.0564244	2.559	1.4652	2.6862	8.57224
11:07:58				843	10.19075	1.0498334	2.559	1.51404	2.78388	8.51389
11:07:59				844	10.1869	1.0456537	2.559	1.51404	2.53968	8.47824
11:08:00				847	10.17319	1.0363341	2.559	1.4652	2.6862	8.39995
11:08:01				848	10.1703	1.0352098	2.559	1.51404	2.58852	8.39078
11:08:01				849	10.16837	1.0324772	2.559	1.51404	2.53968	8.36735
11:08:02				850	10.16837	1.0315132	2.4606	1.51404	2.58852	8.35894
11:08:02				851	10.16741	1.0342449	2.559	1.4652	2.49084	8.38302
11:08:03				852	10.1635	1.0281367	2.4606	1.4652	2.442	8.33055
11:08:03				853	10.15869	1.0273329	2.559	1.4652	2.49084	8.32462
11:08:04				854	10.1558	1.0291016	2.559	1.51404	2.63736	8.34074
11:08:04				855	10.15483	1.0305475	2.4606	1.4652	2.6862	8.35361
11:08:05				856	10.1558	1.0355301	2.4606	1.51404	2.83272	8.39694
11:08:05				857	10.15676	1.0371385	2.559	1.4652	2.6862	8.41077
11:08:06				858	10.16061	1.0355301	2.4606	1.4652	2.78388	8.39583
11:08:06				859	10.16061	1.0405151	2.559	1.4652	2.63736	8.43941
11:08:07				860	10.16254	1.0480688	2.559	1.4652	2.6862	8.50505
11:08:07				861	10.17126	1.0527322	2.559	1.51404	2.73504	8.54383
11:08:08				862	10.17222	1.0472656	2.559	1.4652	2.9304	8.49576
11:08:08				863	10.1703	1.0512856	2.4606	1.4652	2.6862	8.5314
11:08:09				864	10.17511	1.0520878	2.559	1.4652	2.78388	8.53728
11:08:09				865	10.17704	1.0493559	2.559	1.41636	2.6862	8.51293
11:08:10				866	10.17511	1.0467843	2.559	1.4652	2.63736	8.49088

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:10				867	10.1703	1.0438894	2.4606	1.51404	2.53968	8.46669
11:08:11				868	10.1703	1.0424431	2.559	1.4652	2.63736	8.45402
11:08:11				869	10.1703	1.042122	2.4606	1.4652	2.73504	8.45123
11:08:12				870	10.16934	1.0397099	2.559	1.4652	2.83272	8.43035
11:08:12				871	10.16741	1.0387456	2.559	1.4652	2.58852	8.42236
11:08:13				872	10.1635	1.0360138	2.559	1.51404	2.63736	8.39938
11:08:13				873	10.15965	1.0327993	2.559	1.51404	2.6862	8.37217
11:08:14				874	10.15387	1.0305475	2.559	1.4652	2.63736	8.35382
11:08:14				875	10.15195	1.0294234	2.559	1.41636	2.53968	8.34443
11:08:15				876	10.15002	1.0284583	2.559	1.4652	2.73504	8.33644
11:08:15				877	10.14809	1.0282975	2.559	1.4652	2.6862	8.33548
11:08:16				878	10.15002	1.027976	2.559	1.4652	2.58852	8.33222
11:08:16				879	10.14906	1.0291017	2.559	1.51404	2.63736	8.34228
11:08:17				880	10.15002	1.0292625	2.559	1.4652	2.53968	8.34347
11:08:17				881	10.15195	1.0311913	2.559	1.41636	2.63736	8.35989
11:08:18				882	10.1558	1.0327993	2.559	1.4652	2.58852	8.37306
11:08:18				883	10.15772	1.0331193	2.559	1.4652	2.6862	8.37541
11:08:19				884	10.15869	1.0340838	2.4606	1.51404	2.63736	8.38363
11:08:19				885	10.15772	1.0350486	2.559	1.4652	2.53968	8.39228
11:08:20				886	10.15772	1.0372998	2.559	1.4652	2.58852	8.41196
11:08:20				887	10.16254	1.0374611	2.559	1.4652	2.58852	8.41226
11:08:21				888	10.16549	1.0381022	2.559	1.4652	2.58852	8.41718
11:08:21				889	10.16741	1.0382636	2.559	1.51404	2.58852	8.41815
11:08:22				890	10.16934	1.0366567	2.559	1.51404	2.73504	8.40365
11:08:22				891	10.1703	1.0366567	2.559	1.4652	2.63736	8.40343
11:08:23				892	10.16837	1.0369771	2.4606	1.4652	2.63736	8.40669
11:08:23				893	10.17126	1.037461	2.4606	1.4652	2.6862	8.41025
11:08:24				894	10.1703	1.0387456	2.559	1.4652	2.63736	8.42169
11:08:24				895	10.1703	1.0395505	2.559	1.51404	2.49084	8.42873
11:08:25				896	10.1703	1.0413185	2.559	1.4652	2.6862	8.44419
11:08:25				897	10.17319	1.0429258	2.559	1.4652	2.53968	8.45758
11:08:26				898	10.17415	1.0440511	2.559	1.4652	2.58852	8.46719
11:08:26				899	10.17511	1.0454983	2.559	1.4652	2.63736	8.47963
11:08:27				900	10.17415	1.0463009	2.559	1.51404	2.6862	8.48687
11:08:27				901	10.178	1.0467843	2.559	1.4652	2.88156	8.4902
11:08:28				902	10.17896	1.0461412	2.559	1.4652	2.88156	8.48435
11:08:28				903	10.17896	1.0445341	2.559	1.4652	2.6862	8.4703
11:08:29				904	10.17896	1.0435682	2.4606	1.4652	2.73504	8.46186
11:08:29				905	10.178	1.0435682	2.559	1.4652	2.63736	8.46207
11:08:30				906	10.17896	1.0464627	2.559	1.4652	2.6862	8.48716
11:08:30				907	10.17993	1.0458197	2.559	1.51404	2.58852	8.48132
11:08:31				908	10.17993	1.0459794	2.559	1.4652	2.6862	8.48271
11:08:31				909	10.18185	1.0445341	2.559	1.4652	2.78388	8.46963
11:08:32				910	10.18666	1.0340837	2.4606	1.4652	2.6862	8.37719
11:08:32				911	10.18666	1.0332803	2.559	1.4652	2.88156	8.37016

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:33				912	10.178	1.0319941	2.4606	1.51404	2.6862	8.36093
11:08:33	11:07:18 end transect	7.5	270	913	10.16446	1.0352098	2.4606	1.51404	2.9304	8.39214
11:08:34				914	10.16446	1.0297451	2.559	1.4652	2.63736	8.34437
11:08:34				915	10.17126	1.0358525	2.559	1.4652	3.07692	8.39618
11:08:35				916	10.17511	1.0313522	2.559	1.4652	2.78388	8.35597
11:08:35				917	10.17511	1.0347262	2.559	1.51404	2.78388	8.38545
11:08:36				918	10.17704	1.041801	2.6574	1.4652	2.6862	8.44683
11:08:36				919	10.18474	1.0393891	2.7558	1.4652	2.58852	8.42395
11:08:37				920	10.18378	1.0487123	2.7558	1.4652	2.6862	8.50569
11:08:37				921	10.1857	1.1175256	2.8542	1.41636	2.78388	9.10897
11:08:38				922	10.19147	1.1580525	3.0509	1.51404	2.6862	9.46467
11:08:38				923	10.20783	1.1558	3.1493	1.51404	2.6862	9.44053
11:08:39				924	10.20879	1.1260492	3.2477	1.4652	2.442	9.17812
11:08:39				925	10.20879	1.1339279	3.2477	1.4652	2.24664	9.24748
11:08:40				926	10.20783	1.1432572	3.2477	1.4652	2.34432	9.32991
11:08:40				927	10.21168	1.1667374	3.3461	1.4652	2.14896	9.53603
11:08:41				928	10.22521	1.1680237	3.3461	1.51404	2.24664	9.54385
11:08:41				929	10.23483	1.1512977	3.4445	1.51404	2.39316	9.39381
11:08:42				930	10.23483	1.1594989	3.4445	1.51404	1.9536	9.46611
11:08:42				931	10.23675	1.144864	3.4445	1.4652	1.85592	9.33663
11:08:43				932	10.23483	1.1136682	3.4445	1.4652	1.85592	9.06271
11:08:43				933	10.22713	1.1305513	3.4445	1.51404	2.05128	9.21308
11:08:44				934	10.21745	1.1311956	3.5428	1.4652	2.10012	9.22119
11:08:44				935	10.2136	1.1355364	3.5428	1.51404	2.05128	9.26038
11:08:45				936	10.21649	1.1374664	3.4445	1.4652	2.05128	9.27666
11:08:45				937	10.22136	1.1429338	3.4445	1.4652	2.10012	9.32357
11:08:46				938	10.21745	1.1545142	3.4445	1.4652	2.1978	9.42665
11:08:46				939	10.21457	1.1644852	3.4445	1.4652	2.00244	9.51538
11:08:47				940	10.21745	1.1617519	3.4445	1.51404	1.90476	9.49051
11:08:47				941	10.22425	1.162394	3.5428	1.4652	2.05128	9.49439
11:08:48				942	10.2329	1.1654492	3.4445	1.51404	2.29548	9.5191
11:08:48				943	10.23771	1.1664157	3.4445	1.4652	2.442	9.52637
11:08:49				944	10.24156	1.1665754	3.5428	1.4652	2.97924	9.52676
11:08:49	11:07:34 start transect	7.5	270	945	10.24541	1.1630384	3.4445	1.51404	2.00244	9.49457
11:08:50				946	10.24733	1.164485	3.4445	1.4652	1.9536	9.50682
11:08:50				947	10.24829	1.1652895	3.4445	1.4652	2.34432	9.51367
11:08:51				948	10.24829	1.1660942	3.4445	1.4652	2.24664	9.52077
11:08:51				949	10.25117	1.1681834	3.4445	1.4652	2.6862	9.53844
11:08:52				950	10.25021	1.1665754	3.4445	1.51404	2.10012	9.52451
11:08:52				951	10.24925	1.1660942	3.4445	1.4652	2.10012	9.52051
11:08:53				952	10.24733	1.1654491	3.4445	1.4652	2.29548	9.51533
11:08:53				953	10.24925	1.1667372	3.4445	1.4652	2.00244	9.52619
11:08:54				954	10.25021	1.164002	3.4445	1.4652	2.29548	9.50181
11:08:54				955	10.24829	1.1619112	3.4445	1.51404	1.9536	9.48388
11:08:55				956	10.24829	1.1699543	3.4445	1.51404	2.14896	9.55482

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:55				957	10.25021	1.1712399	3.4445	1.4652	2.78388	9.56566
11:08:56				958	10.25117	1.1702762	3.4445	1.4652	2.39316	9.5569
11:08:56				959	10.25021	1.1659324	3.5428	1.4652	2.10012	9.51882
11:08:57				960	10.24637	1.1580523	3.4445	1.51404	2.14896	9.45036
11:08:57				961	10.23867	1.1570862	3.4445	1.51404	2.29548	9.44384
11:08:58				962	10.23771	1.1561225	3.4445	1.4652	2.14896	9.43559
11:08:58				963	10.23964	1.1596604	3.4445	1.4652	2.00244	9.46628
11:08:59				964	10.24252	1.1607867	3.4445	1.41636	2.1978	9.47546
11:09:00				967	10.24264	1.1577208	3.5428	1.51404	2.29548	9.44839
11:09:01				968	10.2436	1.167853	3.4445	1.4652	2.34432	9.53751
11:09:01				969	10.24264	1.1676933	3.4445	1.4652	2.1978	9.53635
11:09:02				970	10.24553	1.1672097	3.4445	1.4652	2.10012	9.53133
11:09:02				971	10.24553	1.1688181	3.4445	1.4652	2.24664	9.54552
11:09:03				972	10.24937	1.1702674	3.4445	1.51404	2.05128	9.5573
11:09:03				973	10.25328	1.1696237	3.4445	1.51404	2.1978	9.55059
11:09:04				974	10.25424	1.1691399	3.4445	1.4652	2.24664	9.54607
11:09:04				975	10.25232	1.1689801	3.4445	1.51404	2.05128	9.54517
11:09:05				976	10.25328	1.1693019	3.4445	1.51404	2.05128	9.54776
11:09:05				977	10.25232	1.1683366	3.4445	1.4652	2.24664	9.53949
11:09:06				978	10.24937	1.1689801	3.5428	1.4652	2.10012	9.54593
11:09:06				979	10.25033	1.1691399	3.4445	1.4652	2.14896	9.5471
11:09:07				980	10.25232	1.1689801	3.4445	1.4652	2.442	9.54517
11:09:07				981	10.25328	1.1693019	3.4445	1.51404	2.34432	9.54776
11:09:08				982	10.25424	1.1699455	3.4445	1.4652	2.10012	9.55318
11:09:08				983	10.25712	1.1696237	3.4445	1.4652	2.14896	9.54959
11:09:09				984	10.25808	1.1696237	3.4445	1.41636	2.24664	9.54933
11:09:09				985	10.25905	1.1696237	3.5428	1.51404	2.83272	9.54907
11:09:10				986	10.25905	1.1697835	3.4445	1.51404	2.24664	9.55049
11:09:10				987	10.25905	1.1694616	3.4445	1.4652	2.39316	9.54765
11:09:11				988	10.25905	1.1659236	3.4445	1.4652	2.14896	9.51645
11:09:11				989	10.25905	1.1656021	3.4445	1.4652	2.00244	9.51362
11:09:12				990	10.25232	1.1656022	3.4445	1.4652	2.14896	9.51537
11:09:12				991	10.23495	1.1633509	3.5428	1.51404	2.58852	9.50004
11:09:13				992	10.22821	1.1622258	3.4445	1.51404	2.00244	9.49188
11:09:13				993	10.22725	1.16142	3.4445	1.4652	2.00244	9.48502
11:09:14				994	10.22341	1.16142	3.4445	1.41636	2.10012	9.48603
11:09:14				995	10.22148	1.1617432	3.5428	1.4652	2.00244	9.48936
11:09:15				996	10.21667	1.1607781	3.4445	1.4652	2.1978	9.48212
11:09:15				997	10.2186	1.1586873	3.4445	1.4652	2.58852	9.46317
11:09:16				998	10.21667	1.1585258	3.4445	1.4652	2.24664	9.46224
11:09:16				999	10.21282	1.1599726	3.4445	1.4652	2.29548	9.47601
11:09:17				1000	10.20897	1.1570776	3.4445	1.4652	2.24664	9.45146
11:09:17				1001	10.20705	1.157239	3.4445	1.51404	2.14896	9.45339
11:09:18				1002	10.20416	1.1567571	3.4445	1.4652	2.10012	9.44989
11:09:18				1003	10.20801	1.1569184	3.4445	1.4652	2.29548	9.45031

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:09:19				1004	10.21186	1.1565957	3.4445	1.41636	2.24664	9.44646
11:09:19				1005	10.2109	1.1569184	3.4445	1.4652	2.14896	9.44956
11:09:20				1006	10.21475	1.1565957	3.4445	1.51404	2.53968	9.44572
11:09:20				1007	10.2186	1.1562752	3.4445	1.4652	2.39316	9.44189
11:09:21				1008	10.22533	1.1562752	3.4445	1.4652	2.14896	9.44014
11:09:21				1009	10.23014	1.1565956	3.5428	1.4652	2.24664	9.44171
11:09:22				1010	10.22533	1.1561138	3.4445	1.4652	2.10012	9.43872
11:09:22				1011	10.22725	1.1556321	3.4445	1.51404	2.14896	9.43397
11:09:23				1012	10.23302	1.1557912	3.4445	1.4652	2.1978	9.43388
11:09:23				1013	10.23495	1.1562751	3.4445	1.4652	2.29548	9.43765
11:09:24				1014	10.2311	1.1557912	3.5428	1.41636	2.05128	9.43437
11:09:24				1015	10.22918	1.1556321	3.4445	1.51404	2.442	9.43348
11:09:25				1016	10.23399	1.1554708	3.5428	1.51404	2.1978	9.43079
11:09:25				1017	10.26097	1.1561137	3.4445	1.4652	2.73504	9.42949
11:09:26				1018	10.27058	1.1564341	3.4445	1.4652	2.24664	9.42982
11:09:26				1019	10.28019	1.156275	3.4445	1.4652	2.34432	9.42594
11:09:27				1020	10.30037	1.1565954	3.4445	1.4652	2.34432	9.42354
11:09:27				1021	10.3158	1.1570772	3.4445	1.51404	2.29548	9.42379
11:09:28				1022	10.33501	1.1573999	3.5428	1.4652	2.10012	9.42165
11:09:28				1023	10.34846	1.1575612	3.5428	1.4652	2.1978	9.4196
11:09:29				1024	10.36286	1.1580432	3.5428	1.41636	2.442	9.42012
11:09:29				1025	10.3706	1.1578817	3.4445	1.51404	2.34432	9.41672
11:09:30				1026	10.36574	1.158846	3.5428	1.51404	2.1978	9.42643
11:09:30				1027	10.37348	1.1585252	3.4445	1.4652	2.1978	9.42163
11:09:31				1028	10.38211	1.1586866	3.4445	1.4652	2.24664	9.42082
11:09:31				1029	10.37348	1.1585252	3.4445	1.4652	2.10012	9.42163
11:09:32				1030	10.3475	1.158846	3.4445	1.4652	2.1978	9.43116
11:09:32				1031	10.33117	1.1590076	3.5428	1.51404	2.1978	9.43678
11:09:33				1032	10.3427	1.1588461	3.4445	1.51404	2.14896	9.4324
11:09:33				1033	10.38019	1.1580431	3.4445	1.4652	2.29548	9.41566
11:09:34				1034	10.44356	1.1562743	3.4445	1.41636	2.24664	9.38383
11:09:34				1035	10.46753	1.1519303	3.4445	1.51404	2.1978	9.33963
11:09:35				1036	10.52028	1.151449	3.4445	1.51404	2.1978	9.32197
11:09:35				1037	10.5529	1.1482313	3.4445	5.32357	2.10012	9.28556
11:09:36				1038	10.55577	1.1512878	3.4445	3.07692	2.10012	9.31153
11:09:36				1039	10.54422	1.1450149	3.5428	3.46764	2.442	9.25965
11:09:37				1040	10.52124	1.1448543	3.5428	4.6398	2.34432	9.26406
11:09:37				1041	10.50208	1.1345632	3.4445	4.78632	2.24664	9.17898
11:09:38				1042	10.45123	1.1340807	3.4445	3.663	2.14896	9.18753
11:09:38				1043	10.41857	1.1397091	3.4445	3.07692	2.24664	9.24504
11:09:39				1044	10.41761	1.1405137	3.4445	2.97924	2.24664	9.25233
11:09:39				1045	10.39267	1.1419608	3.4445	4.59096	2.1978	9.27134
11:09:40				1046	10.36478	1.1372969	3.4445	4.73748	2.29548	9.23751
11:09:40				1047	10.3427	1.1397094	3.4445	4.78632	2.39316	9.26428
11:09:41				1048	10.36868	1.1475884	3.4445	5.47009	2.10012	9.32682

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:09:41				1049	10.37731	1.1472667	3.4445	5.66545	2.24664	9.32179
11:09:42				1050	10.34558	1.1503224	3.4445	5.37241	2.34432	9.35674
11:09:42				1051	10.33789	1.1543438	3.4445	4.73748	2.53968	9.39406
11:09:43				1052	10.36766	1.1495195	3.4445	4.05372	2.53968	9.34403
11:09:43				1053	10.39171	1.1530563	3.5428	4.10256	2.49084	9.3689
11:09:44				1054	10.38595	1.1527362	3.4445	3.07692	2.29548	9.36758
11:09:44				1055	10.42918	1.1535397	3.4445	2.63736	2.14896	9.36355
11:09:45				1056	10.46561	1.1594893	3.4445	2.73504	2.39316	9.40634
11:09:45				1057	10.47232	1.1561129	3.4445	2.97924	2.1978	9.37504
11:09:46				1058	10.47807	1.1572379	3.4445	3.02808	2.442	9.38342
11:09:46				1059	10.47615	1.1619016	3.4445	3.07692	2.10012	9.42477
11:09:47				1060	10.46849	1.1630288	3.4445	2.73504	2.14896	9.43662
11:09:47				1061	10.49155	1.1586862	3.4445	2.6862	2.10012	9.39264
11:09:48				1062	10.50879	1.1606154	3.5428	2.63736	2.05128	9.40509
11:09:48				1063	10.51837	1.1652797	3.4445	2.6862	2.34432	9.44347
11:09:49				1064	10.50879	1.1639923	3.4445	2.6862	2.78388	9.43467
11:09:49				1065	10.51358	1.1635115	3.4445	2.73504	2.73504	9.42922
11:09:50				1066	10.51932	1.1633498	3.4445	2.73504	2.1978	9.42633
11:09:50				1067	10.52411	1.1627053	3.5428	3.02808	2.53968	9.41944
11:09:51				1068	10.52507	1.164637	3.4445	3.02808	2.24664	9.43611
11:09:51				1069	10.52411	1.1649584	3.5428	3.02808	2.1978	9.43916
11:09:52				1070	10.51741	1.1652798	3.4445	3.27228	2.05128	9.44371
11:09:52				1071	10.51645	1.1638327	3.4445	3.4188	2.24664	9.43129
11:09:53				1072	10.51645	1.1649584	3.4445	4.00488	1.90476	9.44115
11:09:53				1073	10.51166	1.1652798	3.4445	4.29792	1.90476	9.4452
11:09:54				1074	10.51358	1.1659226	3.4445	3.32112	2.00244	9.45033
11:09:54				1075	10.50783	1.1643158	3.4445	2.10012	1.90476	9.43775
11:09:55				1076	10.50687	1.1646371	3.4445	1.9536	2.00244	9.44081
11:09:55				1077	10.50687	1.1675304	3.4445	1.4652	2.1978	9.46615
11:09:56				1078	10.50496	1.1668872	3.4445	1.51404	2.24664	9.46101
11:09:56				1079	10.48867	1.1644754	3.5428	1.4652	2.05128	9.44407
11:09:57				1080	10.48867	1.1660846	3.5428	1.51404	2.9304	9.45817
11:09:57				1081	10.48286	1.1681738	3.4445	1.4652	2.1978	9.478
11:09:58				1082	10.45411	1.1693011	3.4445	1.51404	1.90476	9.49535
11:09:58				1083	10.41953	1.169461	3.4445	1.4652	2.05128	9.50574
11:09:59				1084	10.4013	1.1704267	3.4445	1.51404	2.39316	9.51897
11:10:00				1087	10.34156	1.1752639	3.4445	1.4652	2.05128	9.57714
11:10:01				1088	10.32523	1.1755864	3.4445	1.51404	2.10012	9.58427
11:10:01				1089	10.30692	1.1744592	3.4445	1.4652	1.9536	9.57915
11:10:02				1090	10.30308	1.1742991	3.4445	1.4652	2.05128	9.57875
11:10:02				1091	10.31653	1.1747815	3.4445	1.4652	2.10012	9.57947
11:10:03				1092	10.33099	1.174139	3.4445	1.51404	2.34432	9.57001
11:10:03				1093	10.33675	1.1734944	3.5428	1.51404	2.442	9.56281
11:10:04				1094	10.33387	1.1730122	3.4445	1.4652	2.14896	9.55933
11:10:04				1095	10.35212	1.17269	3.4445	1.4652	1.9536	9.55172

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:05				1096	10.38289	1.1726898	3.5428	1.4652	2.10012	9.54365
11:10:05				1097	10.39729	1.172852	3.5428	1.4652	2.88156	9.54132
11:10:06				1098	10.40016	1.1736564	3.4445	1.51404	2.39316	9.54765
11:10:06				1099	10.38091	1.172852	3.5428	1.51404	2.14896	9.5456
11:10:07				1100	10.38481	1.1733342	3.4445	1.4652	2.05128	9.54883
11:10:07				1101	10.39249	1.1726898	3.5428	1.41636	2.1978	9.54115
11:10:08				1102	10.38289	1.1726898	3.4445	1.51404	2.10012	9.54367
11:10:08				1103	10.35308	1.1730121	3.4445	1.51404	2.05128	9.5543
11:10:09				1104	10.33195	1.1728522	3.4445	1.4652	2.05128	9.55843
11:10:09				1105	10.33387	1.1744591	3.4445	1.4652	1.9536	9.57207
11:10:10				1106	10.34348	1.1746213	3.4445	1.4652	2.24664	9.57098
11:10:10				1107	10.355	1.1751037	3.4445	1.51404	2.39316	9.57221
11:10:11				1108	10.35212	1.1742989	3.4445	1.51404	2.442	9.56588
11:10:11				1109	10.33675	1.1741389	3.4445	1.4652	2.88156	9.5685
11:10:12				1110	10.32811	1.174139	3.4445	1.51404	2.29548	9.57077
11:10:12				1111	10.32427	1.1738167	3.4445	1.4652	2.53968	9.56894
11:10:13				1112	10.32427	1.1742991	3.4445	1.51404	2.1978	9.57318
11:10:13				1113	10.31941	1.1747815	3.4445	1.4652	2.14896	9.57871
11:10:14				1114	10.33099	1.1754241	3.4445	1.4652	2.10012	9.58133
11:10:14				1115	10.34636	1.1765516	3.5428	1.4652	2.10012	9.58721
11:10:15				1116	10.36268	1.1776774	3.4445	1.4652	1.9536	9.59284
11:10:15				1117	10.37036	1.1786411	3.4445	1.51404	1.9536	9.5993
11:10:16				1118	10.39249	1.1779978	3.5428	1.41636	2.00244	9.58781
11:10:16				1119	10.40496	1.1791241	3.5428	7.76557	2.05128	9.59444
11:10:17				1120	10.40592	1.1789638	3.4445	1.51404	2.05128	9.59279
11:10:17				1121	10.42606	1.1797675	3.4445	1.4652	2.10012	9.59457
11:10:18				1122	10.44147	1.1800882	3.5428	1.51404	2.00244	9.59333
11:10:18				1123	10.44818	1.1812152	3.4445	1.4652	2.05128	9.60148
11:10:19				1124	10.44147	1.1816965	3.4445	1.4652	1.9536	9.60747
11:10:19				1125	10.43374	1.1815361	3.4445	1.51404	2.00244	9.60809
11:10:20				1126	10.43565	1.1815361	3.4445	1.51404	2.05128	9.60759
11:10:20				1127	10.44147	1.1823406	3.4445	1.51404	2.1978	9.61313
11:10:21				1128	10.44722	1.1855582	3.4445	1.41636	2.1978	9.63988
11:10:21				1129	10.45393	1.1850741	3.4445	1.4652	2.10012	9.63386
11:10:22				1130	10.46256	1.1837873	3.4445	1.51404	2.29548	9.62029
11:10:22				1131	10.45872	1.1836268	3.5428	1.4652	2.29548	9.61987
11:10:23				1132	10.45489	1.1849135	3.4445	3.27228	2.1978	9.6322
11:10:23				1133	10.46351	1.1823405	3.4445	3.56532	2.10012	9.60733
11:10:24				1134	10.46735	1.1818591	3.4445	4.3956	2.05128	9.6021
11:10:24				1135	10.46831	1.1808921	3.4445	3.9072	2.10012	9.59336
11:10:25				1136	10.47118	1.1799277	3.4445	4.00488	1.9536	9.58414
11:10:25				1137	10.46927	1.1807317	3.4445	5.32357	1.80708	9.5917
11:10:26				1138	10.45393	1.1805714	3.4445	7.66789	2.00244	9.59431
11:10:26				1139	10.4453	1.1805715	3.4445	6.93529	1.9536	9.59658
11:10:27				1140	10.44434	1.1807318	3.4445	5.95849	2.53968	9.59824

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:27				1141	10.45681	1.1805714	3.4445	5.90965	2.39316	9.59356
11:10:28				1142	10.4616	1.1808922	3.4445	5.61661	2.1978	9.59512
11:10:28				1143	10.45872	1.1808922	3.4445	5.32357	1.90476	9.59587
11:10:29				1144	10.45489	1.1802507	3.4445	6.59341	1.90476	9.59125
11:10:29				1145	10.45105	1.1791239	3.4445	7.57021	1.9536	9.58236
11:10:30				1146	10.43661	1.1799278	3.4445	6.05617	2.05128	9.59321
11:10:30				1147	10.44434	1.1797675	3.5428	6.10501	1.9536	9.58976
11:10:31				1148	10.45297	1.1796071	3.5428	5.95849	1.90476	9.58608
11:10:31				1149	10.44434	1.1791239	3.4445	6.64225	1.85592	9.58412
11:10:32				1150	10.43757	1.1792843	3.5428	4.78632	2.34432	9.58729
11:10:32				1151	10.43853	1.1796071	3.5428	5.27473	2.49084	9.58987
11:10:33				1152	10.44242	1.1797675	3.4445	6.00733	2.24664	9.59027
11:10:33				1153	10.44242	1.1792843	3.4445	6.34921	2.24664	9.58603
11:10:34				1154	10.43853	1.179124	3.4445	6.64225	2.00244	9.58564
11:10:34				1155	10.44051	1.1786409	3.4445	7.47253	1.85592	9.58088
11:10:35				1156	10.43853	1.1783203	3.5428	6.05617	1.80708	9.57857
11:10:35				1157	10.42702	1.1781579	3.4445	5.81197	1.80708	9.58017
11:10:36				1158	10.42894	1.1779976	3.4445	4.98168	2.00244	9.57826
11:10:36				1159	10.43469	1.1775147	3.5428	4.24908	2.63736	9.5725
11:10:37				1160	10.42894	1.1776772	3.4445	4.34676	2.29548	9.57545
11:10:37				1161	10.40496	1.1775148	3.4445	4.49328	2.00244	9.58031
11:10:38				1162	10.39729	1.1775149	3.5428	4.93284	2.34432	9.58231
11:10:38				1163	10.39537	1.1776773	3.4445	5.42125	2.10012	9.58425
11:10:39				1164	10.39153	1.178158	3.4445	5.22589	1.90476	9.58949
11:10:39				1165	10.38289	1.1778376	3.4445	5.22589	2.00244	9.58894
11:10:40				1166	10.37803	1.1770321	3.5428	4.93284	2.14896	9.58311
11:10:40				1167	10.37899	1.1765515	3.4445	4.59096	2.1978	9.57865
11:10:41				1168	10.37995	1.1768719	3.4445	3.95604	2.00244	9.58122
11:10:41				1169	10.37803	1.1752638	3.4445	3.22344	2.73504	9.56757
11:10:42				1170	10.37803	1.1749414	3.4445	3.32112	2.34432	9.56474
11:10:42				1171	10.37995	1.1742988	3.4445	3.27228	2.10012	9.55858
11:10:43				1172	10.38193	1.1734942	3.4445	3.22344	1.9536	9.55099
11:10:43				1173	10.38193	1.1722077	3.5428	2.83272	2.10012	9.53967
11:10:44				1174	10.38289	1.172852	3.5428	2.78388	2.10012	9.54508
11:10:44				1175	10.38577	1.172852	3.3461	2.88156	2.1978	9.54435
11:10:45				1176	10.38769	1.172852	3.4445	2.83272	1.90476	9.54384
11:10:45				1177	10.38865	1.1725298	3.4445	2.83272	2.14896	9.54076
11:10:46				1178	10.39345	1.1720477	3.4445	2.73504	2.10012	9.53526
11:10:46				1179	10.39537	1.1715635	3.4445	2.6862	2.24664	9.53051
11:10:47				1180	10.39729	1.1710816	3.4445	2.78388	2.34432	9.52577
11:10:47				1181	10.40112	1.1705997	3.5428	2.6862	2.24664	9.52052
11:10:48				1182	10.404	1.1701179	3.4445	2.05128	2.00244	9.51555
11:10:48				1183	10.40592	1.1697961	3.5428	1.90476	1.90476	9.51221
11:10:49				1184	10.404	1.1696341	3.4445	2.10012	2.05128	9.5113
11:10:49				1185	10.40208	1.1694742	3.4445	2.10012	2.1978	9.5104

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:50				1186	10.40112	1.1699559	3.4445	1.90476	2.00244	9.51488
11:10:50				1187	10.40112	1.1697961	3.5428	1.80708	2.14896	9.51346
11:10:51				1188	10.40304	1.1705997	3.4445	1.75824	1.90476	9.52004
11:10:51				1189	10.40016	1.1717257	3.5428	1.66056	1.9536	9.53067
11:10:52				1190	10.39057	1.1715636	3.5428	1.4652	2.1978	9.53175
11:10:52				1191	10.39249	1.1715636	3.4445	1.51404	2.29548	9.53126
11:10:53				1192	10.39633	1.1710816	3.5428	1.51404	2.14896	9.52601
11:10:53				1193	10.38961	1.1707597	3.4445	1.4652	2.14896	9.52494
11:10:54				1194	10.38385	1.1710817	3.4445	1.4652	2.14896	9.52928
11:10:54				1195	10.37995	1.1715636	3.4445	1.4652	2.1978	9.53453
11:10:55				1196	10.3646	1.170278	3.5428	1.51404	2.24664	9.52722
11:10:55				1197	10.36652	1.1705999	3.4445	1.51404	2.29548	9.52957
11:10:56				1198	10.3742	1.1712438	3.4445	1.4652	2.05128	9.53322
11:10:56				1199	10.3502	1.1722079	3.4445	1.4652	2.1978	9.54798
11:10:57				1200	10.33099	1.1706	3.5428	1.51404	2.24664	9.53884
11:10:57				1201	10.32325	1.1702781	3.4445	1.51404	2.1978	9.53804
11:10:58				1202	10.33195	1.1706	3.4445	1.4652	2.39316	9.5386
11:10:58				1203	10.3502	1.1705999	3.5428	1.4652	2.24664	9.53382
11:10:59				1204	10.3502	1.1697963	3.4445	1.4652	2.1978	9.52676
11:11:00				1207	10.35944	1.1680145	3.5428	1.4652	2.05128	9.50866
11:11:01				1208	10.34888	1.1680145	3.4445	1.4652	2.24664	9.51143
11:11:01				1209	10.35272	1.1686579	3.4445	1.4652	2.1978	9.51609
11:11:02				1210	10.35848	1.1699451	3.5428	1.51404	2.39316	9.52589
11:11:02				1211	10.36136	1.1697831	3.5428	1.4652	2.49084	9.52372
11:11:03				1212	10.3652	1.1693014	3.5428	1.4652	2.10012	9.51848
11:11:03				1213	10.36904	1.1773438	3.5428	1.51404	2.14896	9.58822
11:11:04				1214	10.34984	1.1831324	3.7396	1.4652	2.1978	9.64421
11:11:04	11:09:49 end transect	7.5	90	1215	10.32577	1.1853849	3.9364	1.51404	2.10012	9.6704
11:11:05				1216	10.30848	1.1926237	3.9364	1.4652	2.05128	9.73885
11:11:05				1217	10.28446	1.1943931	4.1331	1.4652	2.1978	9.76087
11:11:06				1218	10.26998	1.1902099	4.3299	1.51404	2.1978	9.72776
11:11:06				1219	10.27094	1.1931047	4.4283	1.4652	2.00244	9.75306
11:11:07				1220	10.27773	1.1910144	4.4283	1.4652	2.00244	9.73278
11:11:07				1221	10.28446	1.1929459	4.4283	1.4652	2.29548	9.74804
11:11:08				1222	10.28061	1.1929459	4.4283	1.4652	2.00244	9.74907
11:11:08				1223	10.27479	1.1939099	4.5267	1.4652	2.05128	9.75913
11:11:09				1224	10.27383	1.1935878	4.4283	1.4652	1.80708	9.75656
11:11:09				1225	10.27581	1.1939099	4.4283	1.4652	2.00244	9.75887
11:11:10				1226	10.27581	1.1943931	4.5267	1.4652	2.29548	9.76313
11:11:10				1227	10.27383	1.1942321	4.5267	1.51404	2.24664	9.76224
11:11:11				1228	10.27286	1.1935878	4.5267	1.4652	2.05128	9.7568
11:11:11				1229	10.27383	1.194071	4.4283	1.4652	2.39316	9.76083
11:11:12				1230	10.27581	1.1945542	4.4283	1.4652	1.90476	9.76456
11:11:12				1231	10.27383	1.1947153	4.4283	1.4652	1.90476	9.76652
11:11:13				1232	10.2719	1.1943931	4.4283	1.4652	2.00244	9.76419

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:13				1233	10.27479	1.1939099	4.4283	1.41636	2.05128	9.75915
11:11:14				1234	10.27383	1.1950353	4.4283	1.4652	2.24664	9.76935
11:11:14				1235	10.27286	1.1953576	4.4283	1.4652	2.14896	9.77245
11:11:15				1236	10.27094	1.1950354	4.5267	1.4652	2.24664	9.77011
11:11:15				1237	10.27094	1.1945542	4.4283	1.4652	2.05128	9.76587
11:11:16				1238	10.26998	1.1943932	4.5267	1.4652	2.24664	9.76469
11:11:16				1239	10.26998	1.1948742	4.4283	1.51404	2.10012	9.76895
11:11:17				1240	10.26806	1.1950354	4.4283	1.4652	2.1978	9.77089
11:11:17				1241	10.26998	1.1947153	4.4283	1.4652	2.00244	9.76755
11:11:18				1242	10.26998	1.1947154	4.5267	1.4652	2.10012	9.76754
11:11:18				1243	10.26902	1.1945542	4.4283	1.4652	2.05128	9.76638
11:11:19				1244	10.26902	1.1939099	4.4283	1.51404	1.9536	9.76069
11:11:19				1245	10.26806	1.194071	4.5267	1.4652	2.1978	9.76236
11:11:20				1246	10.26998	1.1943932	4.4283	1.4652	2.10012	9.7647
11:11:20	11:10:05 begin transect	7.5	90	1247	10.2671	1.194071	4.4283	1.51404	2.10012	9.76263
11:11:21				1248	10.26806	1.1926239	4.4283	1.51404	2.05128	9.74959
11:11:21				1249	10.26902	1.1929459	4.5267	1.51404	1.9536	9.75216
11:11:22				1250	10.27094	1.1931047	4.4283	1.41636	2.05128	9.75306
11:11:22				1251	10.2719	1.1934268	4.4283	1.51404	1.9536	9.75565
11:11:23				1252	10.2719	1.1937489	4.4283	1.51404	2.442	9.7585
11:11:23				1253	10.26998	1.1931047	4.4283	1.4652	2.24664	9.75332
11:11:24				1254	10.2719	1.1927849	4.5267	1.4652	2.39316	9.74997
11:11:24				1255	10.2719	1.1931047	4.4283	1.4652	2.1978	9.75281
11:11:25				1256	10.27094	1.1934268	4.4283	1.51404	2.10012	9.75591
11:11:25				1257	10.26998	1.1929459	4.4283	1.4652	1.80708	9.75192
11:11:26				1258	10.27286	1.1935878	4.4283	1.4652	2.10012	9.75682
11:11:26				1259	10.27286	1.194071	4.5267	1.4652	2.05128	9.76107
11:11:27				1260	10.27383	1.1937489	4.4283	1.4652	2.1978	9.75798
11:11:27				1261	10.2719	1.1939099	4.4283	1.51404	2.00244	9.75992
11:11:28				1262	10.27286	1.1934268	4.5267	1.4652	2.05128	9.75538
11:11:28				1263	10.27286	1.1934268	4.5267	1.4652	2.14896	9.75538
11:11:29				1264	10.27286	1.1932658	4.4283	1.4652	1.9536	9.75397
11:11:29				1265	10.26998	1.1926239	4.4283	1.51404	2.10012	9.74907
11:11:30				1266	10.2719	1.1926239	4.5267	1.4652	2.05128	9.74854
11:11:30				1267	10.2719	1.1926239	4.4283	1.4652	2.00244	9.74856
11:11:31				1268	10.27286	1.19198	4.5267	1.51404	2.00244	9.7426
11:11:31				1269	10.2719	1.1911753	4.4283	1.51404	2.00244	9.73576
11:11:32				1270	10.27286	1.1916581	4.5267	1.4652	2.10012	9.73976
11:11:32				1271	10.2719	1.191819	4.4283	1.4652	2.00244	9.74145
11:11:33				1272	10.2719	1.19198	4.4283	1.4652	2.10012	9.74287
11:11:33				1273	10.27286	1.192141	4.4283	1.51404	2.10012	9.74403
11:11:34				1274	10.2719	1.1931047	4.5267	1.4652	2.05128	9.75279
11:11:34				1275	10.27094	1.1939099	4.5267	1.4652	2.39316	9.76016
11:11:35				1276	10.27286	1.1943931	4.4283	1.4652	2.14896	9.76393
11:11:35				1277	10.26902	1.194071	4.4283	1.4652	2.39316	9.76211

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:36				1278	10.26517	1.1927849	4.4283	1.51404	2.24664	9.75178
11:11:36				1279	10.26421	1.19198	4.4283	1.4652	2.10012	9.74493
11:11:37				1280	10.26614	1.19198	4.4283	1.4652	1.9536	9.74441
11:11:37				1281	10.26902	1.1908535	4.4283	1.51404	2.05128	9.73369
11:11:38				1282	10.26902	1.1895665	4.4283	1.4652	2.1978	9.72232
11:11:38				1283	10.26902	1.1894057	4.4283	1.4652	2.00244	9.7209
11:11:39				1284	10.26902	1.1900491	4.5267	1.41636	2.00244	9.72657
11:11:39				1285	10.26806	1.1897273	4.4283	1.51404	2.1978	9.724
11:11:40				1286	10.26902	1.1897273	4.4283	1.51404	1.9536	9.72374
11:11:40				1287	10.26998	1.1897273	4.5267	1.4652	2.10012	9.72347
11:11:41				1288	10.26806	1.1889232	4.4283	1.4652	2.24664	9.7169
11:11:41				1289	10.26902	1.1889232	4.5267	1.4652	2.05128	9.71663
11:11:42				1290	10.26421	1.1894057	4.4283	1.51404	1.9536	9.72218
11:11:42				1291	10.25941	1.1908535	4.5267	1.4652	1.85592	9.73624
11:11:43				1292	10.25364	1.1908535	4.4283	1.4652	1.85592	9.7378
11:11:43				1293	10.25075	1.1916582	4.4283	1.51404	2.1978	9.74568
11:11:44				1294	10.24787	1.1919801	4.4283	1.4652	2.14896	9.7493
11:11:44				1295	10.24306	1.1921411	4.5267	1.4652	2.00244	9.752
11:11:45				1296	10.23921	1.1924631	4.4283	1.4652	1.9536	9.75589
11:11:45				1297	10.23537	1.1926241	4.5267	1.4652	1.9536	9.75833
11:11:46				1298	10.23344	1.1926241	4.3299	1.51404	2.00244	9.75887
11:11:46				1299	10.23441	1.1931049	4.4283	1.51404	1.90476	9.76285
11:11:47				1300	10.23344	1.193588	4.4283	1.4652	2.00244	9.76738
11:11:47				1301	10.23344	1.193749	4.5267	1.4652	2.05128	9.76879
11:11:48				1302	10.23248	1.1932659	4.5267	1.51404	1.90476	9.76478
11:11:48				1303	10.23344	1.193749	4.5267	1.51404	2.24664	9.76879
11:11:49				1304	10.23248	1.1940711	4.4283	1.4652	1.9536	9.77191
11:11:49				1305	10.23344	1.1939101	4.5267	1.4652	2.00244	9.77021
11:11:50				1306	10.23441	1.1929461	4.4283	1.4652	2.14896	9.76145
11:11:50				1307	10.23729	1.192785	4.4283	1.51404	2.34432	9.75925
11:11:51				1308	10.23921	1.1924631	4.4283	1.4652	2.1978	9.75589
11:11:51				1309	10.23825	1.1921411	4.5267	1.4652	2.05128	9.75328
11:11:52				1310	10.2421	1.1919801	4.5267	1.4652	2.14896	9.75083
11:11:52				1311	10.24498	1.1916582	4.5267	1.4652	2.1978	9.74721
11:11:53				1312	10.24691	1.1918191	4.4283	1.4652	2.05128	9.74813
11:11:53				1313	10.24595	1.1918192	4.5267	1.4652	2.10012	9.74838
11:11:54				1314	10.24595	1.1913363	4.5267	1.4652	1.90476	9.74411
11:11:54				1315	10.24883	1.1908536	4.5267	1.51404	2.00244	9.73907
11:11:55				1316	10.24883	1.1910145	4.5267	1.4652	2.1978	9.74049
11:11:55				1317	10.25172	1.1910145	4.5267	1.4652	1.90476	9.73972
11:11:56				1318	10.24979	1.1906926	4.2315	1.4652	2.29548	9.73744
11:11:56				1319	10.25364	1.1900491	4.4283	1.51404	2.29548	9.73069
11:11:57				1320	10.25268	1.1889233	4.5267	1.4652	2.1978	9.72099
11:11:57				1321	10.25268	1.1892449	4.4283	1.4652	1.9536	9.72384
11:11:58				1322	10.24883	1.1884409	4.4283	1.4652	2.00244	9.71777

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:58				1323	10.24883	1.1884409	4.4283	1.4652	2.05128	9.71777
11:11:59				1324	10.24595	1.1882801	4.4283	1.51404	2.10012	9.71711
11:12:00				1327	10.25292	1.1882713	4.4283	1.51404	2.00244	9.71518
11:12:01				1328	10.25099	1.1889145	4.4283	1.51404	2.10012	9.72137
11:12:01				1329	10.24907	1.1887537	4.5267	1.51404	1.85592	9.72045
11:12:02				1330	10.25292	1.1890753	4.4283	1.4652	2.24664	9.72228
11:12:02				1331	10.25682	1.1897186	4.4283	1.51404	2.10012	9.72692
11:12:03				1332	10.25778	1.190362	4.4283	1.51404	1.90476	9.73235
11:12:03				1333	10.2558	1.1902012	4.4283	1.4652	2.14896	9.73146
11:12:04				1334	10.25388	1.1902012	4.5267	1.4652	1.9536	9.73196
11:12:04				1335	10.25484	1.1911665	4.4283	1.4652	2.05128	9.74025
11:12:05				1336	10.2558	1.1911665	4.4283	1.51404	2.05128	9.73999
11:12:05				1337	10.25682	1.1914884	4.5267	1.4652	1.9536	9.74254
11:12:06				1338	10.25292	1.1918103	4.4283	1.4652	1.80708	9.74645
11:12:06				1339	10.25388	1.1927762	4.5267	1.4652	2.05128	9.75471
11:12:07				1340	10.25292	1.1905229	4.4283	1.51404	2.00244	9.73507
11:12:07				1341	10.25292	1.1902012	4.4283	1.51404	2.14896	9.73223
11:12:08				1342	10.25292	1.1900403	4.4283	1.41636	2.00244	9.73081
11:12:08				1343	10.25003	1.1898795	4.4283	1.4652	2.53968	9.73016
11:12:09				1344	10.24907	1.1905229	4.4283	1.51404	2.00244	9.7361
11:12:09				1345	10.24715	1.1906839	4.5267	1.4652	2.05128	9.73802
11:12:10				1346	10.24811	1.1919713	4.4283	1.4652	2.05128	9.74916
11:12:10				1347	10.24907	1.1921322	4.4283	1.4652	2.10012	9.75032
11:12:11				1348	10.25099	1.1921322	4.4283	1.51404	2.05128	9.74981
11:12:11				1349	10.25099	1.1918103	4.4283	1.51404	2.05128	9.74696
11:12:12				1350	10.25003	1.1922932	4.4283	1.4652	1.90476	9.75149
11:12:12				1351	10.25292	1.1939012	4.4283	1.51404	1.9536	9.76493
11:12:13				1352	10.25292	1.1922932	4.4283	1.4652	1.85592	9.75072
11:12:13				1353	10.25099	1.1929372	4.4283	1.51404	1.9536	9.75692
11:12:14				1354	10.25196	1.1926152	4.5267	1.4652	2.14896	9.75381
11:12:14				1355	10.25388	1.1929372	4.5267	1.4652	2.10012	9.75614
11:12:15				1356	10.25388	1.1930982	4.5267	1.4652	1.9536	9.75756
11:12:15				1357	10.25484	1.1929372	4.4283	1.51404	1.80708	9.75589
11:12:16				1358	10.25484	1.193418	4.4283	1.4652	1.80708	9.76014
11:12:16				1359	10.2558	1.1935791	4.4283	1.41636	1.80708	9.76131
11:12:17				1360	10.2558	1.1929372	4.5267	1.4652	1.9536	9.75562
11:12:17				1361	10.2558	1.1929372	4.5267	1.51404	1.90476	9.75562
11:12:18				1362	10.2558	1.1930982	4.4283	1.4652	2.10012	9.75706
11:12:18				1363	10.2558	1.1935791	4.4283	1.4652	2.00244	9.76131
11:12:19				1364	10.25778	1.1942233	4.5267	1.4652	1.9536	9.76646
11:12:19				1365	10.25682	1.1945455	4.4283	1.51404	2.00244	9.76958
11:12:20				1366	10.2558	1.1943844	4.5267	1.4652	1.9536	9.76841
11:12:20				1367	10.25778	1.1945455	4.4283	1.4652	1.80708	9.76932
11:12:21				1368	10.25875	1.1943844	4.4283	1.51404	1.9536	9.76764
11:12:21				1369	10.25778	1.1942233	4.4283	1.4652	2.10012	9.76647

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:22				1370	10.25682	1.1943844	4.4283	1.4652	2.00244	9.76815
11:12:22				1371	10.25875	1.1945455	4.4283	1.4652	2.00244	9.76906
11:12:23				1372	10.25875	1.1940622	4.5267	1.4652	2.05128	9.76478
11:12:23				1373	10.25971	1.1937401	4.4283	1.51404	2.05128	9.76169
11:12:24				1374	10.26067	1.1939011	4.4283	1.4652	2.05128	9.76285
11:12:24				1375	10.25971	1.193418	4.5267	1.4652	1.85592	9.75882
11:12:25				1376	10.26067	1.1932592	4.4283	1.41636	1.80708	9.75718
11:12:25				1377	10.25971	1.1927761	4.4283	1.51404	1.85592	9.75317
11:12:26				1378	10.26067	1.1919712	4.4283	1.51404	1.90476	9.7458
11:12:26				1379	10.25971	1.1905229	4.4283	1.4652	1.85592	9.73326
11:12:27				1380	10.25875	1.1902011	4.4283	1.4652	1.90476	9.73067
11:12:27				1381	10.25875	1.1890753	4.5267	1.4652	2.05128	9.72071
11:12:28				1382	10.25778	1.1874675	4.4283	1.51404	1.90476	9.70678
11:12:28				1383	10.2558	1.1876282	4.4283	1.4652	2.29548	9.70873
11:12:29				1384	10.2558	1.186019	4.5267	1.4652	2.39316	9.6945
11:12:29				1385	10.25388	1.1853765	4.4283	1.51404	2.14896	9.68935
11:12:30				1386	10.25196	1.1840895	4.4283	1.4652	1.85592	9.67849
11:12:30				1387	10.25196	1.1829636	4.4283	1.4652	1.9536	9.66855
11:12:31				1388	10.25003	1.182159	4.4283	1.4652	1.90476	9.66195
11:12:31				1389	10.24907	1.1813568	4.4283	1.51404	1.90476	9.65512
11:12:32				1390	10.24907	1.1810337	4.4283	1.4652	2.10012	9.65227
11:12:32				1391	10.25003	1.18039	4.4283	1.4652	2.10012	9.64633
11:12:33				1392	10.24715	1.1802296	4.5267	1.4652	1.90476	9.64566
11:12:33				1393	10.24811	1.1794257	4.4283	1.4652	2.00244	9.63832
11:12:34				1394	10.24619	1.1792654	4.4283	1.51404	2.00244	9.63742
11:12:34				1395	10.24619	1.1787823	4.5267	1.4652	1.85592	9.63314
11:12:35				1396	10.24619	1.1791051	4.4283	1.4652	2.00244	9.636
11:12:35				1397	10.24715	1.179586	4.5267	1.4652	2.6862	9.63998
11:12:36				1398	10.24619	1.178622	4.5267	1.4652	2.442	9.63172
11:12:36				1399	10.24811	1.1779787	4.5267	1.4652	2.73504	9.62553
11:12:37				1400	10.24811	1.1782992	4.4283	1.41636	2.39316	9.62838
11:12:37				1401	10.24811	1.1784617	4.5267	1.51404	2.00244	9.6298
11:12:38				1402	10.24811	1.178622	4.4283	1.51404	2.34432	9.63123
11:12:38				1403	10.24715	1.1787823	4.5267	1.4652	2.05128	9.63288
11:12:39				1404	10.24811	1.1784617	4.5267	1.4652	2.14896	9.6298
11:12:39				1405	10.24715	1.1792654	4.4283	1.4652	1.90476	9.63716
11:12:40				1406	10.24811	1.1792654	4.4283	1.51404	2.39316	9.63691
11:12:40				1407	10.24715	1.1792654	4.4283	1.4652	2.29548	9.63716
11:12:41				1408	10.24811	1.1799089	4.4283	1.4652	1.85592	9.64259
11:12:41				1409	10.24715	1.1807129	4.4283	1.4652	1.90476	9.64995
11:12:42				1410	10.24811	1.18039	4.4283	1.4652	1.9536	9.64684
11:12:42				1411	10.24907	1.1807129	4.4283	1.51404	2.24664	9.64944
11:12:43				1412	10.24811	1.1808733	4.4283	1.4652	2.00244	9.65111
11:12:43				1413	10.25003	1.1816776	4.4283	1.4652	1.9536	9.6577
11:12:44				1414	10.25099	1.1813567	4.4283	1.51404	1.9536	9.65461

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:44				1415	10.25003	1.1810337	4.4283	1.4652	2.34432	9.65201
11:12:45				1416	10.25003	1.1823216	4.4283	1.4652	2.00244	9.66339
11:12:45				1417	10.25196	1.1826426	4.5267	1.41636	1.9536	9.6657
11:12:46				1418	10.25099	1.1832868	4.5267	1.4652	2.24664	9.67164
11:12:46				1419	10.25196	1.1837684	4.4283	1.51404	1.9536	9.67566
11:12:47				1420	10.25099	1.1844107	4.4283	1.4652	2.00244	9.68158
11:12:47				1421	10.25099	1.1840895	4.4283	1.4652	1.85592	9.67875
11:12:48				1422	10.25292	1.1850552	4.4283	1.4652	2.24664	9.68677
11:12:48				1423	10.25196	1.1850552	4.4283	1.51404	2.14896	9.68702
11:12:49				1424	10.25388	1.1853765	4.4283	1.4652	2.1978	9.68935
11:12:49				1425	10.25388	1.1863426	4.4283	1.4652	2.24664	9.69788
11:12:50				1426	10.2558	1.1858584	4.4283	1.51404	2.10012	9.69309
11:12:50				1427	10.25484	1.1863426	4.4283	1.4652	1.9536	9.69763
11:12:51				1428	10.25778	1.1866639	4.4283	1.4652	1.85592	9.69968
11:12:51				1429	10.26163	1.1874675	4.4283	1.4652	2.14896	9.70575
11:12:52				1430	10.26355	1.187146	4.4283	1.51404	2.14896	9.7024
11:12:52				1431	10.26259	1.1866639	4.4283	1.51404	2.14896	9.6984
11:12:53				1432	10.26451	1.1861819	4.4283	1.4652	1.9536	9.69363
11:12:53				1433	10.26644	1.1869853	4.4283	1.51404	2.00244	9.70022
11:12:54				1434	10.26644	1.1863425	4.4283	1.4652	2.24664	9.69454
11:12:54				1435	10.26836	1.1863425	4.5267	1.51404	2.29548	9.69401
11:12:55				1436	10.26644	1.1858583	4.4283	1.4652	2.05128	9.69026
11:12:55				1437	10.2674	1.1858583	4.4283	1.4652	2.05128	9.69001
11:12:56				1438	10.26932	1.1861818	4.4283	1.51404	2.14896	9.69235
11:12:56				1439	10.27028	1.1863425	4.5267	1.4652	2.34432	9.6935
11:12:57				1440	10.27124	1.187146	4.4283	1.51404	2.05128	9.70035
11:12:57				1441	10.27124	1.1863425	4.4283	1.41636	1.80708	9.69326
11:12:58				1442	10.26932	1.1868246	4.4283	1.51404	2.24664	9.69803
11:12:58				1443	10.27028	1.1866639	4.4283	1.51404	2.29548	9.69635
11:12:59				1444	10.27028	1.1868246	4.4283	1.4652	2.05128	9.69777
11:13:00				1447	10.27515	1.188595	4.4283	1.51404	2.10012	9.71211
11:13:01				1448	10.27515	1.1889166	4.4283	1.4652	2.00244	9.71495
11:13:01				1449	10.27515	1.1882734	4.5267	1.4652	2.00244	9.70926
11:13:02				1450	10.27515	1.1877911	4.4283	1.51404	2.1978	9.70501
11:13:02				1451	10.27419	1.1879519	4.4283	1.4652	2.1978	9.70669
11:13:03				1452	10.27226	1.188595	4.4283	1.51404	2.00244	9.71288
11:13:03				1453	10.26938	1.1895599	4.4283	1.4652	1.9536	9.72217
11:13:04				1454	10.26746	1.1889166	4.4283	1.4652	2.00244	9.717
11:13:04				1455	10.2665	1.1884342	4.4283	1.51404	2.34432	9.713
11:13:05				1456	10.26746	1.1884342	4.4283	1.51404	2.00244	9.71274
11:13:05				1457	10.2713	1.1887558	4.3299	1.4652	2.00244	9.71457
11:13:06				1458	10.26842	1.188595	4.4283	1.41636	2.00244	9.7139
11:13:06				1459	10.26842	1.1879519	4.4283	1.4652	2.00244	9.70822
11:13:07				1460	10.26842	1.1871482	4.5267	1.51404	2.10012	9.70111
11:13:07				1461	10.2665	1.1861819	4.4283	1.4652	1.90476	9.6931

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:08				1462	10.26457	1.1868268	4.4283	1.4652	2.00244	9.69931
11:13:08				1463	10.26554	1.1868268	4.4283	1.4652	2.00244	9.69906
11:13:09				1464	10.26361	1.1868268	4.4283	1.51404	1.90476	9.69957
11:13:09				1465	10.26169	1.1865054	4.4283	1.4652	2.29548	9.69724
11:13:10				1466	10.26265	1.1865054	4.5267	1.4652	2.1978	9.69697
11:13:10				1467	10.26169	1.1858606	4.4283	1.51404	2.49084	9.69155
11:13:11				1468	10.26361	1.1855393	4.5267	1.4652	2.58852	9.68818
11:13:11				1469	10.26265	1.1861819	4.4283	1.4652	1.9536	9.69413
11:13:12				1470	10.26073	1.1863448	4.5267	1.4652	2.00244	9.69606
11:13:12				1471	10.25977	1.1863448	4.4283	1.51404	1.90476	9.69633
11:13:13				1472	10.25881	1.1860212	4.4283	1.4652	2.14896	9.69373
11:13:13				1473	10.25784	1.1865055	4.5267	1.4652	1.90476	9.69825
11:13:14				1474	10.25881	1.1869875	4.4283	1.51404	2.78388	9.70227
11:13:14				1475	10.25784	1.1863448	4.5267	1.4652	2.00244	9.69683
11:13:15				1476	10.25784	1.1861819	4.4283	1.51404	2.14896	9.69541
11:13:15				1477	10.25592	1.1860212	4.4283	1.4652	2.1978	9.6945
11:13:16				1478	10.25592	1.1863448	4.5267	1.4652	2.00244	9.69734
11:13:16				1479	10.25688	1.1861819	4.5267	1.51404	2.10012	9.69565
11:13:17				1480	10.25688	1.1863448	4.4283	1.51404	2.00244	9.6971
11:13:17				1481	10.25688	1.1863448	4.5267	1.4652	2.34432	9.69709
11:13:18				1482	10.25784	1.1865054	4.4283	1.41636	2.29548	9.69826
11:13:18				1483	10.25688	1.1853787	4.5267	1.51404	1.90476	9.68855
11:13:19				1484	10.25688	1.1853787	4.5267	1.51404	1.85592	9.68855
11:13:19				1485	10.25592	1.1853787	4.5267	1.4652	1.9536	9.68881
11:13:20				1486	10.25592	1.1861819	4.4283	1.4652	2.05128	9.69592
11:13:20				1487	10.25881	1.1860212	4.5267	1.4652	1.9536	9.69372
11:13:21				1488	10.25881	1.1853786	4.4283	1.51404	2.00244	9.68806
11:13:21				1489	10.25688	1.1848968	4.4283	1.4652	2.29548	9.68431
11:13:22				1490	10.2549	1.1844128	4.4283	1.4652	1.90476	9.68057
11:13:22				1491	10.2549	1.1832868	4.5267	1.51404	2.10012	9.67061
11:13:23				1492	10.25298	1.1828053	4.5267	1.4652	1.90476	9.66686
11:13:23				1493	10.25394	1.1826448	4.5267	1.51404	2.14896	9.66519
11:13:24				1494	10.25298	1.1824843	4.4283	1.4652	2.14896	9.66404
11:13:24				1495	10.25394	1.1820007	4.4283	1.4652	1.9536	9.65952
11:13:25				1496	10.2549	1.1816798	4.5267	1.51404	2.05128	9.65642
11:13:25				1497	10.25394	1.1816798	4.5267	1.51404	2.00244	9.65667
11:13:26				1498	10.25592	1.1813567	4.4283	1.51404	2.10012	9.65331
11:13:26				1499	10.25784	1.1811963	4.4283	1.41636	2.05128	9.65138
11:13:27				1500	10.25784	1.1810359	4.4283	1.51404	2.24664	9.64996
11:13:27				1501	10.25784	1.1807151	4.4283	1.51404	2.29548	9.64713
11:13:28				1502	10.25881	1.1808755	4.4283	1.4652	2.24664	9.64829
11:13:28				1503	10.25881	1.1808755	4.5267	1.4652	2.10012	9.64828
11:13:29				1504	10.26169	1.1807151	4.4283	1.51404	2.24664	9.64611
11:13:29				1505	10.26169	1.1807151	4.4283	1.51404	2.49084	9.64611
11:13:30				1506	10.26169	1.1810359	4.5267	1.4652	2.29548	9.64893

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:30				1507	10.26169	1.1807151	4.4283	1.4652	2.29548	9.64611
11:13:31				1508	10.26169	1.1805525	4.4283	1.51404	2.442	9.64468
11:13:31				1509	10.26265	1.1802317	4.4283	1.51404	2.39316	9.64159
11:13:32				1510	10.26169	1.1795882	4.5267	1.4652	2.05128	9.63615
11:13:32				1511	10.26169	1.1792675	4.4283	1.4652	2.10012	9.63334
11:13:33				1512	10.26169	1.1792675	4.4283	1.51404	2.00244	9.63334
11:13:33				1513	10.26361	1.179105	4.5267	1.4652	2.14896	9.63138
11:13:34				1514	10.26265	1.1789447	4.4283	1.4652	2.00244	9.63023
11:13:34				1515	10.26361	1.1789447	4.4283	1.4652	2.29548	9.62998
11:13:35				1516	10.26554	1.1787844	4.4283	1.4652	2.05128	9.62806
11:13:35				1517	10.26554	1.1787844	4.4283	1.51404	2.10012	9.62806
11:13:36				1518	10.26554	1.1787844	4.4283	1.4652	1.9536	9.62806
11:13:36				1519	10.26361	1.1781411	4.4283	1.4652	1.90476	9.62289
11:13:37				1520	10.26361	1.1778184	4.4283	1.51404	2.10012	9.62004
11:13:37				1521	10.26457	1.1776581	4.4283	1.51404	1.85592	9.61837
11:13:38				1522	10.2665	1.1773377	4.6251	1.4652	1.9536	9.61501
11:13:38				1523	10.26746	1.1770151	4.4283	1.4652	1.9536	9.61194
11:13:39				1524	10.26842	1.1766925	4.4283	1.51404	2.00244	9.60884
11:13:39				1525	10.26938	1.1763721	4.4283	1.51404	2.10012	9.60576
11:13:40				1526	10.26842	1.1754069	4.5267	1.4652	1.90476	9.59748
11:13:40				1527	10.26842	1.1750845	4.5267	1.4652	1.9536	9.59463
11:13:41				1528	10.26938	1.1749243	4.4283	1.4652	2.24664	9.59298
11:13:41				1529	10.27034	1.1750844	4.4283	1.51404	1.85592	9.59414
11:13:42				1530	10.27034	1.1749243	4.4283	1.4652	1.80708	9.59273
11:13:42				1531	10.2713	1.1747643	4.5267	1.4652	2.29548	9.59105
11:13:43				1532	10.27226	1.1739595	4.4283	1.4652	2.10012	9.58371
11:13:43				1533	10.27226	1.1736373	4.4283	1.4652	2.05128	9.58087
11:13:44				1534	10.27034	1.1736373	4.5267	1.4652	2.05128	9.58136
11:13:44				1535	10.27034	1.1734772	4.4283	1.4652	2.39316	9.57997
11:13:45				1536	10.27034	1.173315	4.5267	1.51404	2.29548	9.57852
11:13:45				1537	10.27226	1.173315	4.4283	1.51404	2.24664	9.57803
11:13:46				1538	10.27034	1.1726728	4.4283	1.51404	3.02808	9.57287
11:13:46				1539	10.26746	1.1723507	4.4283	1.51404	3.4188	9.57079
11:13:47				1540	10.26169	1.1721908	4.5267	1.4652	2.442	9.57088
11:13:47				1541	10.25977	1.1720287	4.5267	1.51404	2.00244	9.56995
11:13:48				1542	10.2549	1.1721908	4.5267	1.4652	2.24664	9.57266
11:13:48				1543	10.25105	1.1725107	4.4283	1.4652	1.85592	9.57651
11:13:49				1544	10.25394	1.1713868	4.5267	1.4652	1.85592	9.56582
11:13:49				1545	10.25688	1.1712246	4.5267	1.51404	2.00244	9.56362
11:13:50				1546	10.25105	1.1712247	4.4283	1.51404	1.9536	9.56516
11:13:50				1547	10.24528	1.1712247	4.4283	1.41636	2.00244	9.56668
11:13:51				1548	10.24336	1.1712247	4.5267	1.51404	2.24664	9.56717
11:13:51				1549	10.24336	1.1713868	4.4283	1.51404	2.1978	9.56861
11:13:52				1550	10.2424	1.1715467	4.4283	1.51404	2.1978	9.57028
11:13:52				1551	10.24336	1.1715467	4.5267	1.4652	2.00244	9.57001

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:53				1552	10.24144	1.1715467	4.5267	1.4652	2.10012	9.57052
11:13:53				1553	10.24144	1.1715467	4.4283	1.51404	1.9536	9.57053
11:13:54				1554	10.24048	1.1717067	4.5267	1.4652	1.9536	9.57218
11:13:54				1555	10.24144	1.1717067	4.5267	1.4652	2.14896	9.57193
11:13:55				1556	10.24336	1.1715467	4.4283	1.51404	2.10012	9.57002
11:13:55				1557	10.24336	1.1723508	4.4283	1.4652	2.14896	9.57712
11:13:56				1558	10.24336	1.1721908	4.4283	1.51404	2.14896	9.57571
11:13:56				1559	10.24336	1.1720287	4.4283	1.4652	2.1978	9.57428
11:13:57				1560	10.24336	1.1737974	4.5267	1.4652	2.10012	9.58987
11:13:57				1561	10.24336	1.1736374	4.4283	1.51404	2.05128	9.58848
11:13:58				1562	10.24721	1.1737974	4.5267	1.4652	1.90476	9.58886
11:13:58				1563	10.25009	1.1731551	4.4283	1.4652	1.9536	9.58245
11:13:59				1564	10.25009	1.1741197	4.6251	1.41636	1.85592	9.59093
11:14:00				1567	10.25508	1.1742622	4.4283	1.4652	2.10012	9.59091
11:14:01				1568	10.25899	1.1758698	4.5267	1.51404	1.9536	9.60405
11:14:01				1569	10.25995	1.1755473	4.5267	1.51404	2.10012	9.60095
11:14:02				1570	10.25995	1.1757096	4.4283	1.51404	2.39316	9.6024
11:14:02	11:12:47 end transect	7.5	270	1571	10.26187	1.1758697	4.4283	1.4652	2.14896	9.6033
11:14:03				1572	10.26187	1.1750647	4.4283	1.51404	2.29548	9.5962
11:14:03				1573	10.25899	1.1749046	4.3299	1.51404	2.05128	9.59556
11:14:04				1574	10.25508	1.1742621	4.1331	1.4652	2.29548	9.59095
11:14:04				1575	10.25027	1.1731353	3.9364	1.4652	2.14896	9.5823
11:14:05				1576	10.2397	1.1700792	3.6412	1.4652	2.1978	9.55815
11:14:05				1577	10.23681	1.1517461	3.3461	1.51404	2.10012	9.39726
11:14:06				1578	10.23489	1.138719	3.0509	1.4652	2.97924	9.28305
11:14:06				1579	10.21469	1.1266601	2.7558	1.4652	2.34432	9.18208
11:14:07				1580	10.2041	1.0967507	2.4606	1.51404	2.39316	8.92186
11:14:07				1581	10.18672	1.050612	2.0671	1.4652	3.1746	8.52171
11:14:08				1582	10.15688	0.9620523	1.772	1.4652	3.07692	7.75648
11:14:08				1583	10.0865	0.879311	1.4768	1.4652	3.02808	7.05452
11:14:09				1584	10.03147	0.6943416	1.2801	1.51404	3.56532	5.48258
11:14:09				1585	9.92806	0.6001555	1.0833	1.51404	5.37241	4.70355
11:14:10				1586	9.87001	0.4973628	0.9849	1.4652	5.71429	3.85436
11:14:10				1587	9.75079	0.5855605	0.8865	1.4652	6.44689	4.60379
11:14:11				1588	9.70427	0.44671	0.9849	1.4652	6.30037	3.45305
11:14:11				1589	9.6761	0.5412946	0.7881	1.51404	6.30037	4.24155
11:14:12				1590	9.67416	0.5329567	0.6898	1.4652	6.34921	4.17203
11:14:12				1591	9.67998	0.1818582	0.5914	1.4652	10.50061	1.33407
11:14:13				1592	9.68579	0.0919844	0.5914	1.4652	10.50061	0.65278
11:14:13				1593	9.69549	0.0483527	0.6898	2.39316	4.78632	0.33437
11:14:14				1594	9.70137	0.1166053	0.6898	0	0	0.83613
11:14:14				1595	9.71009	0.0868691	0.6898	0	0	0.61453
11:14:15	11:13:05 switch off		270	1596	9.71494	0.0863903	0.6898	0	0	0.61092
11:15:22	11:14:20 switch on	5.0	270	7	9.58342	0.4581517	1.0833	0	0	3.55925

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:23				8	9.59508	0.442122	1.1817	0	0	3.4256
11:15:23				9	9.60387	0.4708158	1.2801	0	0	3.66213
11:15:24				10	9.59896	0.4858852	1.2801	0	0	3.78778
11:15:24				11	9.59896	0.4765869	1.2801	0	0	3.71052
11:15:25				12	9.6097	0.4756251	1.2801	0	0	3.70144
11:15:25				13	9.61746	0.4823573	1.2801	0	0	3.75653
11:15:26				14	9.61552	0.499674	1.2801	0	0	3.90078
11:15:26				15	9.61649	0.4939018	1.2801	0	0	3.85261
11:15:27				16	9.62038	0.494543	1.2801	0	0	3.85754
11:15:27				17	9.62232	0.4963074	1.2801	0	0	3.87201
11:15:28				18	9.62717	0.5076909	1.2801	0	0	3.96633
11:15:28				19	9.62523	0.5129829	1.2801	0	0	4.01069
11:15:29				20	9.62038	0.5134638	1.2801	0	0	4.01524
11:15:29				21	9.65052	0.5147469	1.2801	0	0	4.0226
11:15:30				22	9.69028	0.5439327	1.2801	0	0	4.26194
11:15:30				23	9.701	0.5885239	1.2801	0	0	4.63506
11:15:31				24	9.74467	0.5936572	1.2801	0	0	4.67267
11:15:31				25	9.78244	0.5798616	1.3784	0	0	4.55188
11:15:32				26	9.80283	0.6076155	1.3784	0	0	4.7826
11:15:32				27	9.77663	0.6600853	1.2801	0	0	5.22987
11:15:33				28	9.77566	0.6478892	1.2801	0	0	5.12657
11:15:33				29	9.79896	0.6445203	1.2801	0	0	5.09475
11:15:34				30	9.82412	0.6353723	1.2801	0	0	5.01387
11:15:34				31	9.81638	0.6565549	1.2801	0	0	5.1942
11:15:35				32	9.79799	0.6735662	1.3784	0	0	5.34122
11:15:35				33	9.80961	0.6220544	1.2801	0	0	4.90342
11:15:36				34	9.80573	0.6543075	1.3784	0	0	5.17668
11:15:36				35	9.77566	0.6965183	1.2801	0	0	5.53996
11:15:37				36	9.73202	0.7000506	1.3784	0	0	5.57681
11:15:37				37	9.70197	0.6830356	1.3784	0	0	5.43615
11:15:38				38	9.69319	0.6790244	1.3784	0	0	5.40326
11:15:38				39	9.69028	0.6994075	1.2801	0	0	5.57776
11:15:39				40	9.67282	0.6917028	1.2801	0	0	5.51458
11:15:39				41	9.68155	0.6674687	1.3784	0	0	5.30649
11:15:40				42	9.68834	0.6669868	1.3784	0	0	5.30139
11:15:40				43	9.67767	0.6852825	1.3784	0	0	5.45899
11:15:41				44	9.67379	0.6788629	1.3784	0	0	5.40478
11:15:41				45	9.66604	0.6647392	1.2801	0	0	5.28552
11:15:42				46	9.65828	0.6623318	1.3784	0	0	5.26614
11:15:42				47	9.6544	0.6697157	1.3784	0	0	5.32964
11:15:43				48	9.65828	0.6692332	1.2801	0	0	5.32496
11:15:43				49	9.65246	0.660888	1.2801	0	0	5.2547
11:15:44				50	9.6456	0.6592833	1.2801	0	0	5.24203
11:15:44				51	9.64463	0.6644183	1.3784	0	0	5.28592
11:15:45				52	9.64657	0.6631352	1.3784	0	0	5.2747

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:45				53	9.64172	0.6636163	1.3784	0	0	5.27951
11:15:46				54	9.6641	0.6628145	1.3784	0	0	5.26941
11:15:46				55	9.69222	0.6657021	1.3784	0	0	5.28988
11:15:47				56	9.68252	0.6472474	1.3784	0	0	5.13433
11:15:47				57	9.66313	0.6568767	1.2801	0	0	5.219
11:15:48				58	9.67088	0.6581596	1.2801	0	0	5.2288
11:15:48				59	9.71845	0.6560738	1.2801	0	0	5.20419
11:15:49				60	9.78147	0.6474081	1.2801	0	0	5.12167
11:15:49				61	9.75339	0.6438776	1.3784	0	0	5.09572
11:15:50				62	9.72814	0.6515807	1.2801	0	0	5.16464
11:15:50				63	9.72523	0.6493332	1.3784	0	0	5.14597
11:15:51				64	9.71748	0.6417919	1.2801	0	0	5.08309
11:15:51				65	9.7262	0.6421129	1.3784	0	0	5.08458
11:15:52				66	9.73783	0.643717	1.2801	0	0	5.09655
11:15:52				67	9.72911	0.6443597	1.2801	0	0	5.10323
11:15:53				68	9.7107	0.6445205	1.3784	0	0	5.10719
11:15:53				69	9.7107	0.6462856	1.3784	0	0	5.12217
11:15:54				70	9.69028	0.6438778	1.3784	0	0	5.10462
11:15:54				71	9.70391	0.6433958	1.3784	0	0	5.0986
11:15:55				72	9.73395	0.6440384	1.3784	0	0	5.09982
11:15:55				73	9.76501	0.6433957	1.3784	0	0	5.09
11:15:56				74	9.81638	0.6443596	1.2801	0	0	5.09094
11:15:56				75	9.86578	0.6445202	1.3784	0	0	5.08535
11:15:57				76	9.8503	0.6448399	1.3784	0	0	5.09023
11:15:57				77	9.79896	0.6437169	1.3784	0	0	5.08794
11:15:58				78	9.77276	0.6443596	1.2801	0	0	5.09708
11:15:58				79	9.82122	0.6437168	1.3784	0	0	5.08481
11:15:59				80	9.86868	0.6445202	1.3784	0	0	5.08494
11:15:59				81	9.89484	0.6458027	1.3784	0	0	5.09211
11:16:00				82	9.89871	0.6454828	1.2801	0	0	5.08887
11:16:00				83	9.9045	0.6437167	1.3784	0	0	5.07314
11:16:01				84	9.92383	0.644038	1.3784	0	0	5.07315
11:16:01				85	9.93639	0.645322	1.3784	0	0	5.08222
11:16:02				86	9.94122	0.6509389	1.2801	0	0	5.12894
11:16:02				87	9.94321	0.6448397	1.3784	0	0	5.0772
11:16:03				88	9.95866	0.6446789	1.2801	0	0	5.07369
11:16:03				89	9.97218	0.6689128	1.3784	0	0	5.27628
11:16:04				90	9.97701	0.6644176	1.2801	0	0	5.23761
11:16:04				91	9.98377	0.6433952	1.3784	0	0	5.05937
11:16:05				92	9.98956	0.656876	1.1817	0	0	5.17217
11:16:05				93	9.98473	0.689135	1.3784	0	0	5.44552
11:16:06				94	9.97218	0.6804672	1.2801	0	0	5.37401
11:16:06				95	9.9606	0.7037421	1.2801	0	0	5.57307
11:16:07				96	9.96156	0.8395856	1.3784	0.63492	0.29304	6.73555
11:16:07				97	9.94514	0.8381407	1.3784	0.39072	0.09768	6.72613

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:08				98	9.95287	0.8419951	1.3784	1.4652	0.9768	6.75795
11:16:08				99	9.95287	0.8476172	1.3784	1.51404	3.71184	6.80647
11:16:09				100	9.95866	0.8490618	1.2801	1.4652	3.85836	6.81787
11:16:09				101	9.95963	0.8577373	1.3784	1.4652	3.76068	6.8926
11:16:10				102	9.95963	0.8664113	1.3784	1.51404	4.1514	6.96759
11:16:10				103	9.96639	0.8585408	1.3784	1.51404	3.85836	6.89826
11:16:11				104	9.97122	0.859021	1.3784	1.4652	3.76068	6.90149
11:16:11				105	9.97411	0.8791018	1.2801	1.4652	3.95604	7.0746
11:16:12				106	9.97894	0.8699451	1.3784	1.4652	3.95604	6.99443
11:16:12				107	9.98184	0.8635205	1.3784	1.4652	3.71184	6.93834
11:16:13				108	9.97315	0.8636796	1.2801	1.51404	3.9072	6.94139
11:16:13				109	9.96929	0.8750856	1.3784	1.51404	4.05372	7.04077
11:16:14				110	9.97701	0.8707486	1.2801	1.51404	3.95604	7.00176
11:16:14				111	9.98087	0.8680182	1.3784	1.51404	3.80952	6.9774
11:16:15				112	9.97991	0.8667318	1.3784	1.4652	3.9072	6.96647
11:16:15				113	9.98184	0.872516	1.3784	1.4652	3.9072	7.01611
11:16:16				114	9.98184	0.8688211	1.3784	1.4652	3.9072	6.98416
11:16:16				115	9.98087	0.8709101	1.3784	1.4652	4.24908	7.0024
11:16:17				116	9.97411	0.8710697	1.3784	1.4652	4.20024	7.00509
11:16:17				117	9.97411	0.8659296	1.3784	1.51404	4.20024	6.96064
11:16:18				118	9.97508	0.8664113	1.2801	1.4652	4.3956	6.96463
11:16:18				119	9.97315	0.8545237	1.3784	1.4652	4.93284	6.86228
11:16:19				120	9.97122	0.8402276	1.3784	1.4652	5.07937	6.73929
11:16:19				121	9.94321	0.8273778	1.3784	1.51404	4.68864	6.6337
11:16:20				122	9.93059	0.819188	1.3784	1.4652	4.59096	6.56544
11:16:20				123	9.9219	0.8000753	1.3784	1.4652	4.83516	6.40255
11:16:21				124	9.919	0.8000753	1.3784	1.4652	4.78632	6.40306
11:16:22				127	9.892	0.7448899	1.2801	1.4652	4.83516	5.93454
11:16:23				128	9.88034	0.7546828	1.3784	1.4652	4.78632	6.02024
11:16:23				129	9.87744	0.7192062	1.2801	1.4652	4.884	5.71759
11:16:24				130	9.87454	0.7206522	1.3784	1.51404	4.78632	5.73038
11:16:24				131	9.87164	0.7341356	1.3784	1.4652	5.32357	5.84593
11:16:25				132	9.8581	0.7278755	1.3784	1.4652	5.03053	5.79464
11:16:25				133	9.861	0.7060454	1.3784	1.4652	4.98168	5.608
11:16:26				134	9.85617	0.6832553	1.3784	1.51404	5.03053	5.4149
11:16:26				135	9.84262	0.6885519	1.3784	1.51404	4.73748	5.46194
11:16:27				136	9.84069	0.6643206	1.3784	1.4652	5.12821	5.25651
11:16:27				137	9.83192	0.6792437	1.3784	1.51404	5.03053	5.38444
11:16:28				138	9.81354	0.6872689	1.3784	1.51404	5.37241	5.45542
11:16:28				139	9.79708	0.6887124	1.2801	1.4652	5.03053	5.47019
11:16:29				140	9.78837	0.6904779	1.3784	1.41636	5.22589	5.48654
11:16:29				141	9.79127	0.6489161	1.3784	1.4652	5.51893	5.13305
11:16:30				142	9.78934	0.6529284	1.3784	1.4652	4.93284	5.16733
11:16:30				143	9.79127	0.6501995	1.3784	1.4652	4.93284	5.14393
11:16:31				144	9.80192	0.6529284	1.4768	1.4652	5.17705	5.16552

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:31				145	9.79612	0.6574208	1.3784	1.51404	5.27473	5.20445
11:16:32				146	9.78159	0.6562982	1.2801	1.4652	5.07937	5.19702
11:16:32				147	9.77282	0.6556554	1.2801	1.4652	5.51893	5.19283
11:16:33				148	9.7845	0.6633583	1.3784	1.51404	5.42125	5.2565
11:16:33				149	9.79224	0.6599881	1.3784	1.4652	5.17705	5.22678
11:16:34				150	9.80192	0.6521253	1.3784	1.4652	4.78632	5.15873
11:16:34				151	9.79515	0.6490771	1.2801	1.51404	5.22589	5.13388
11:16:35				152	9.7845	0.6493975	1.3784	1.4652	5.27473	5.13809
11:16:35				153	9.78063	0.6449043	1.2801	1.4652	5.32357	5.10058
11:16:36				154	9.78547	0.632551	1.2801	1.51404	5.37241	4.99537
11:16:36				155	9.7874	0.6315889	1.2801	1.4652	5.61661	4.98697
11:16:37				156	9.78159	0.6166686	1.2801	1.4652	5.56777	4.86175
11:16:37				157	9.78063	0.629503	1.3784	1.51404	5.71429	4.97026
11:16:38				158	9.7641	0.6047972	1.3784	1.41636	5.51893	4.76397
11:16:38				159	9.75539	0.5948524	1.3784	1.4652	5.81197	4.68134
11:16:39				160	9.7457	0.576086	1.3784	1.4652	5.81197	4.52479
11:16:39				161	9.74182	0.590681	1.3784	1.4652	5.81197	4.64798
11:16:40				162	9.73795	0.5924453	1.3784	1.51404	5.66545	4.66333
11:16:40				163	9.73698	0.5682264	1.3784	1.4652	5.66545	4.45989
11:16:41				164	9.73795	0.5595664	1.3784	1.4652	5.56777	4.38716
11:16:41				165	9.73795	0.574802	1.2801	1.51404	5.71429	4.51498
11:16:42				166	9.72142	0.5310218	1.3784	1.4652	5.86081	4.15039
11:16:42				167	9.69622	0.5459353	1.2801	1.4652	5.66545	4.278
11:16:43				168	9.68749	0.5549163	1.2801	1.4652	5.56777	4.35429
11:16:43				169	9.68361	0.5542744	1.2801	1.4652	5.90965	4.34937
11:16:44				170	9.67585	0.5377564	1.2801	1.51404	6.15385	4.21194
11:16:44				171	9.66416	0.5464164	1.2801	1.4652	6.05617	4.28583
11:16:45				172	9.66998	0.566142	1.3784	1.4652	5.86081	4.45065
11:16:45				173	9.67101	0.5624528	1.3784	1.4652	5.76313	4.41953
11:16:46				174	9.67973	0.5496235	1.2801	1.4652	5.86081	4.31085
11:16:46				175	9.67198	0.5605287	1.3784	1.51404	5.66545	4.40325
11:16:47				176	9.66707	0.5699914	1.3784	1.4652	5.51893	4.48337
11:16:47				177	9.67779	0.5638968	1.3784	1.51404	5.66545	4.43083
11:16:48				178	9.67876	0.5598866	1.2801	1.4652	5.66545	4.39704
11:16:48				179	9.67682	0.5659823	1.3784	1.51404	5.86081	4.44846
11:16:49				180	9.68264	0.5621323	1.3784	1.4652	5.95849	4.41542
11:16:49				181	9.68361	0.5768873	1.2801	1.4652	5.27473	4.53931
11:16:50				182	9.68167	0.5802562	1.3784	1.4652	5.61661	4.5679
11:16:50	11:15:35 start transect	5.0	270	183	9.68361	0.5837851	1.3784	1.51404	5.42125	4.59736
11:16:51				184	9.68361	0.5682265	1.3784	1.4652	5.03053	4.46648
11:16:51				185	9.68458	0.5833034	1.3784	1.51404	5.07937	4.59318
11:16:52				186	9.68749	0.5725572	1.2801	1.4652	5.42125	4.50241
11:16:52				187	9.68652	0.5570006	1.2801	1.4652	5.71429	4.37189
11:16:53				188	9.68264	0.5465762	1.3784	1.4652	5.32357	4.28497
11:16:53				189	9.68458	0.5334277	1.2801	1.51404	5.22589	4.17473

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:54				190	9.68264	0.5321451	1.2801	1.51404	5.51893	4.16423
11:16:54				191	9.67198	0.5552374	1.3784	1.4652	5.32357	4.35885
11:16:55				192	9.67101	0.5582831	1.2801	1.4652	5.66545	4.38453
11:16:55				193	9.67682	0.5871537	1.3784	1.4652	5.07937	4.62661
11:16:56				194	9.67779	0.5995043	1.3784	1.4652	5.61661	4.73065
11:16:56				195	9.68167	0.5882755	1.3784	1.4652	5.56777	4.63544
11:16:57				196	9.68555	0.6020703	1.3784	1.4652	5.71429	4.7513
11:16:57				197	9.68943	0.6113744	1.3784	1.4652	5.51893	4.82938
11:16:58				198	9.69428	0.6104117	1.3784	1.41636	5.07937	4.8206
11:16:58				199	9.69912	0.6182726	1.3784	1.4652	4.98168	4.88641
11:16:59				200	9.71754	0.6550147	1.3784	1.4652	4.93284	5.19532
11:16:59				201	9.74376	0.659026	1.3784	1.51404	5.03053	5.22562
11:17:00				202	9.75345	0.644424	1.3784	1.4652	5.17705	5.10034
11:17:00				203	9.75345	0.63961	1.2801	1.51404	5.07937	5.05956
11:17:01				204	9.75539	0.6700968	1.3784	1.4652	4.93284	5.31801
11:17:01				205	9.75442	0.6659257	1.3784	1.4652	4.884	5.28269
11:17:02				206	9.75829	0.6723446	1.3784	1.51404	4.6398	5.3367
11:17:02				207	9.75829	0.6856627	1.2801	1.4652	4.59096	5.45007
11:17:03				208	9.75926	0.6871069	1.2801	1.4652	4.59096	5.46223
11:17:03				209	9.76701	0.6879104	1.3784	1.4652	4.54212	5.4679
11:17:04				210	9.78547	0.6935271	1.3784	1.4652	4.54212	5.51296
11:17:04				211	9.79321	0.6855025	1.3784	1.4652	4.83516	5.44344
11:17:05				212	9.79418	0.7047615	1.3784	1.51404	4.6398	5.60741
11:17:05				213	9.79612	0.7281967	1.3784	1.4652	4.6398	5.80731
11:17:06				214	9.80289	0.694651	1.2801	1.4652	4.49328	5.51988
11:17:06				215	9.80773	0.664802	1.3784	1.4652	4.54212	5.26538
11:17:07				216	9.78837	0.6824536	1.3784	1.4652	4.884	5.41822
11:17:07				217	9.77966	0.68775	1.3784	1.51404	4.98168	5.46462
11:17:08				218	9.79127	0.6720225	1.3784	1.4652	4.73748	5.3291
11:17:08				219	9.78643	0.6779609	1.3784	1.51404	4.73748	5.3803
11:17:09				220	9.77476	0.6720226	1.2801	1.4652	5.32357	5.33154
11:17:09				221	9.77766	0.6903174	1.3784	1.4652	4.98168	5.48679
11:17:10				222	9.78353	0.7070087	1.3784	1.51404	5.12821	5.62824
11:17:10				223	9.7874	0.6919216	1.3784	1.4652	4.68864	5.49898
11:17:11				224	9.79031	0.6834173	1.3784	1.4652	4.93284	5.42613
11:17:11				225	9.79418	0.7018728	1.2801	1.4652	5.03053	5.58278
11:17:12				226	9.79999	0.7058857	1.3784	1.4652	5.03053	5.6161
11:17:12				227	9.80967	0.7028358	1.3784	1.51404	4.73748	5.58859
11:17:13				228	9.8145	0.7021937	1.2801	1.4652	4.6398	5.58238
11:17:13				229	9.8145	0.7119851	1.3784	1.4652	4.68864	5.66588
11:17:14				230	9.8145	0.7062054	1.3784	1.4652	4.83516	5.61657
11:17:14				231	9.82031	0.7031569	1.3784	1.4652	4.3956	5.58968
11:17:15				232	9.81934	0.7118229	1.2801	1.4652	4.59096	5.66375
11:17:15				233	9.82031	0.7209723	1.3784	1.51404	4.54212	5.7417
11:17:16				234	9.82225	0.7211332	1.3784	1.4652	4.59096	5.74276

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:16				235	9.82321	0.719528	1.3784	1.4652	4.73748	5.7289
11:17:17				236	9.82515	0.7201696	1.2801	1.51404	4.93284	5.73408
11:17:17				237	9.82612	0.7158355	1.3784	1.4652	4.78632	5.69692
11:17:18				238	9.82805	0.7106994	1.2801	1.4652	4.59096	5.6528
11:17:18				239	9.82515	0.7066869	1.3784	1.4652	4.884	5.61903
11:17:19				240	9.82515	0.7121454	1.3784	1.4652	4.83516	5.66558
11:17:19				241	9.82805	0.7023533	1.3784	1.4652	4.54212	5.58164
11:17:20				242	9.82321	0.7013904	1.3784	1.51404	4.83516	5.57418
11:17:20				243	9.82321	0.6919215	1.3784	1.41636	5.32357	5.49354
11:17:21				244	9.82225	0.6925643	1.3784	1.51404	4.73748	5.49916
11:17:22				247	9.82049	0.7272392	1.2801	1.4652	4.68864	5.79523
11:17:23				248	9.81856	0.6962621	1.3784	1.4652	4.73748	5.53121
11:17:23				249	9.81759	0.7283637	1.3784	1.4652	4.73748	5.8053
11:17:24				250	9.82049	0.7230655	1.3784	1.4652	4.68864	5.75955
11:17:24				251	9.8263	0.7044474	1.3784	1.4652	4.73748	5.59976
11:17:25				252	9.8234	0.7839106	1.3784	1.4652	4.98168	6.28077
11:17:25				253	9.83017	0.8669367	1.3784	1.4652	4.884	6.99709
11:17:26				254	9.86112	0.7680157	1.3784	1.51404	4.68864	6.13774
11:17:26				255	9.86209	0.7665697	1.3784	1.51404	4.54212	6.12517
11:17:27				256	9.85435	0.7920995	1.3784	1.41636	4.98168	6.34584
11:17:27				257	9.85532	0.7617531	1.3784	1.4652	5.07937	6.085
11:17:28				258	9.85145	0.7455388	1.3784	1.51404	4.73748	5.94673
11:17:28				259	9.84468	0.7363902	1.3784	1.4652	5.17705	5.86956
11:17:29				260	9.83791	0.7307703	1.3784	1.4652	4.6398	5.82261
11:17:29				261	9.83404	0.7222639	1.3784	1.4652	4.54212	5.75055
11:17:30				262	9.83307	0.7139168	1.3784	1.51404	4.73748	5.67945
11:17:30				263	9.83017	0.712313	1.3784	1.4652	4.78632	5.66622
11:17:31				264	9.83501	0.7078176	1.3784	1.4652	4.73748	5.62713
11:17:31				265	9.83307	0.7050902	1.3784	1.51404	4.59096	5.60419
11:17:32				266	9.83017	0.7054098	1.2801	1.51404	4.73748	5.60737
11:17:32				267	9.82823	0.6991508	1.3784	1.4652	4.98168	5.55433
11:17:33				268	9.82436	0.7050902	1.3784	1.4652	4.68864	5.60554
11:17:33				269	9.8234	0.7013977	1.3784	1.4652	4.6398	5.57421
11:17:34				270	9.8234	0.7023606	1.3784	1.51404	4.83516	5.58242
11:17:34				271	9.8234	0.6932127	1.2801	1.4652	5.12821	5.50452
11:17:35				272	9.81856	0.6638448	1.2801	1.4652	5.12821	5.25569
11:17:35				273	9.81366	0.6938559	1.3784	1.4652	5.42125	5.51146
11:17:36				274	9.81463	0.6970653	1.2801	1.4652	5.51893	5.53866
11:17:36				275	9.81075	0.657428	1.3784	1.4652	5.51893	5.2024
11:17:37				276	9.80979	0.6564651	1.3784	1.4652	5.42125	5.19438
11:17:37				277	9.80882	0.6627224	1.3784	1.4652	5.17705	5.24758
11:17:38				278	9.80204	0.6693016	1.2801	1.51404	5.71429	5.30441
11:17:38				279	9.79914	0.6818192	1.3784	1.4652	5.56777	5.41122
11:17:39				280	9.80108	0.6710675	1.2801	1.4652	5.32357	5.31955
11:17:39				281	9.80108	0.6609579	1.3784	1.4652	5.51893	5.23373

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:40				282	9.7972	0.6704257	1.3784	1.51404	5.71429	5.31466
11:17:40				283	9.7943	0.6638448	1.3784	1.4652	5.32357	5.25921
11:17:41				284	9.7943	0.6285458	1.2801	1.4652	5.76313	4.96031
11:17:41				285	9.78656	0.6492436	1.3784	1.4652	5.90965	5.1365
11:17:42				286	9.78268	0.6378523	1.3784	1.51404	5.76313	5.04059
11:17:42				287	9.773	0.6376921	1.3784	1.51404	5.51893	5.04058
11:17:43				288	9.7701	0.6352853	1.3784	1.4652	5.37241	5.02062
11:17:43				289	9.77203	0.6364075	1.3784	1.4652	5.81197	5.02984
11:17:44				290	9.7701	0.6386535	1.3784	1.4652	5.56777	5.04912
11:17:44				291	9.76816	0.6325582	1.3784	1.51404	5.81197	4.99781
11:17:45				292	9.76719	0.6153917	1.2801	1.4652	5.71429	4.85291
11:17:45				293	9.76428	0.6431476	1.3784	1.4652	5.56777	5.088
11:17:46				294	9.76622	0.6182795	1.2801	1.4652	5.61661	4.87742
11:17:46				295	9.76428	0.5953404	1.3784	1.4652	5.71429	4.6843
11:17:47				296	9.74388	0.5906879	1.2801	1.4652	5.61661	4.64778
11:17:47				297	9.73516	0.6036801	1.3784	1.51404	5.86081	4.75836
11:17:48				298	9.73904	0.6023973	1.3784	1.4652	5.76313	4.74703
11:17:48				299	9.72547	0.5481867	1.3784	1.4652	5.71429	4.29337
11:17:49				300	9.70409	0.5414505	1.3784	1.4652	5.56777	4.23954
11:17:49				301	9.69246	0.5799413	1.3784	1.51404	5.81197	4.56388
11:17:50				302	9.70118	0.5809033	1.3784	1.51404	5.66545	4.57088
11:17:50				303	9.70797	0.5845929	1.3784	1.4652	6.15385	4.60107
11:17:51				304	9.70506	0.5786583	1.2801	1.4652	5.42125	4.55151
11:17:51				305	9.70603	0.5635828	1.3784	1.4652	5.61661	4.42473
11:17:52				306	9.70021	0.5767336	1.3784	1.4652	5.71429	4.53592
11:17:52				307	9.70118	0.5703183	1.3784	1.51404	5.56777	4.48188
11:17:53				308	9.70409	0.5691947	1.3784	1.51404	5.76313	4.47208
11:17:53				309	9.70118	0.5544399	1.3784	1.51404	5.56777	4.34864
11:17:54				310	9.70118	0.5724038	1.3784	1.41636	5.61661	4.49941
11:17:54				311	9.69731	0.5768942	1.3784	1.4652	5.51893	4.53764
11:17:55				312	9.70118	0.564384	1.3784	1.4652	5.86081	4.43205
11:17:55				313	9.69537	0.5568468	1.3784	1.4652	5.95849	4.36952
11:17:56				314	9.69052	0.5488284	1.3784	1.51404	5.61661	4.3029
11:17:56				315	9.68858	0.5732053	1.3784	1.51404	5.86081	4.50771
11:17:57				316	9.69537	0.5656663	1.3784	1.4652	5.71429	4.44353
11:17:57				317	9.70021	0.5493084	1.3784	1.4652	5.71429	4.30576
11:17:58				318	9.68955	0.5497903	1.3784	1.4652	5.76313	4.31107
11:17:58				319	9.6847	0.5464232	1.3784	1.4652	5.81197	4.28344
11:17:59				320	9.67985	0.5682333	1.3784	1.51404	5.66545	4.467
11:17:59				321	9.68858	0.5486667	1.2801	1.4652	5.51893	4.30178
11:18:00				322	9.68373	0.5422527	1.3784	1.51404	6.00733	4.24864
11:18:00				323	9.67888	0.5387245	1.3784	1.4652	5.76313	4.21968
11:18:01				324	9.67792	0.5467428	1.3784	1.41636	5.95849	4.28692
11:18:01				325	9.67501	0.5470642	1.3784	1.4652	5.76313	4.28996
11:18:02				326	9.67985	0.5347163	1.3784	1.4652	5.66545	4.18604

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:02				327	9.67404	0.5340745	1.3784	1.4652	5.56777	4.18135
11:18:03				328	9.66725	0.5356779	1.3784	1.4652	5.51893	4.19555
11:18:03				329	9.66337	0.5430552	1.2801	1.51404	5.56777	4.25776
11:18:04				330	9.66725	0.5366399	1.3784	1.4652	5.66545	4.20359
11:18:04				331	9.66531	0.5369612	1.3784	1.41636	5.76313	4.20651
11:18:05				332	9.66434	0.5353584	1.2801	1.4652	5.71429	4.19322
11:18:05				333	9.66046	0.5369612	1.3784	1.4652	5.90965	4.20707
11:18:06				334	9.65755	0.5364809	1.3784	1.4652	5.86081	4.20339
11:18:06				335	9.66046	0.5414506	1.3784	1.4652	5.51893	4.24466
11:18:07				336	9.66143	0.5459405	1.3784	1.51404	5.47009	4.28216
11:18:07				337	9.65949	0.5454596	1.3784	1.51404	5.47009	4.27836
11:18:08				338	9.66046	0.5422527	1.3784	1.4652	5.32357	4.25137
11:18:08				339	9.66046	0.5444981	1.3784	1.4652	5.56777	4.27018
11:18:09				340	9.66143	0.5613372	1.3784	1.4652	5.37241	4.41133
11:18:09				341	9.66337	0.5587707	1.3784	1.4652	5.56777	4.38954
11:18:10				342	9.66434	0.5558848	1.3784	1.4652	5.37241	4.3652
11:18:10				343	9.66337	0.5488284	1.3784	1.51404	5.37241	4.30613
11:18:11				344	9.66434	0.5510731	1.3784	1.51404	5.61661	4.32484
11:18:11				345	9.66725	0.5579684	1.3784	1.4652	5.51893	4.38234
11:18:12				346	9.66628	0.5512333	1.3784	1.51404	5.56777	4.32595
11:18:12				347	9.66919	0.5507528	1.2801	1.51404	5.37241	4.32158
11:18:13				348	9.67016	0.5552425	1.2801	1.4652	6.05617	4.35911
11:18:13				349	9.66919	0.5589315	1.2801	1.4652	5.66545	4.39019
11:18:14				350	9.67501	0.5594124	1.2801	1.4652	5.86081	4.39352
11:18:14				351	9.67404	0.5573272	1.3784	1.4652	5.66545	4.37613
11:18:15				352	9.67307	0.5578077	1.2801	1.4652	5.51893	4.38029
11:18:15				353	9.67404	0.5589315	1.2801	1.4652	5.90965	4.3896
11:18:16				354	9.67501	0.5590907	1.3784	1.51404	5.47009	4.39081
11:18:16				355	9.67695	0.5592515	1.3784	1.4652	5.81197	4.39193
11:18:17				356	9.67792	0.5578077	1.3784	1.51404	5.71429	4.37969
11:18:17				357	9.67695	0.5541208	1.3784	1.51404	5.90965	4.34888
11:18:18				358	9.67501	0.5518742	1.3784	1.4652	5.51893	4.33028
11:18:18				359	9.6721	0.5512333	1.3784	1.51404	5.71429	4.32525
11:18:19				360	9.66919	0.5454596	1.3784	1.4652	5.76313	4.27721
11:18:19				361	9.66628	0.542894	1.3784	1.4652	5.66545	4.25606
11:18:20				362	9.66725	0.5368005	1.3784	1.4652	6.10501	4.20494
11:18:20				363	9.66337	0.5356779	1.3784	1.4652	5.66545	4.196
11:18:21				364	9.6624	0.5342349	1.3784	1.4652	5.61661	4.18404
11:18:22				367	9.65937	0.531833	1.3784	1.51404	5.81197	4.1643
11:18:23				368	9.66131	0.5305498	1.3784	1.4652	5.90965	4.15335
11:18:23				369	9.66034	0.53071	1.3784	1.51404	5.81197	4.1548
11:18:24				370	9.65937	0.5295876	1.3784	1.4652	5.71429	4.14552
11:18:24				371	9.65646	0.5291075	1.3784	1.4652	5.95849	4.14184
11:18:25				372	9.65743	0.5257401	1.3784	1.4652	5.95849	4.11359
11:18:25				373	9.65452	0.5233341	1.3784	1.4652	6.00733	4.09382

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:26				374	9.65258	0.5157985	1.3784	1.4652	5.86081	4.03113
11:18:26				375	9.6487	0.5222128	1.3784	1.4652	5.71429	4.08511
11:18:27				376	9.6487	0.5400117	1.3784	1.4652	6.10501	4.23399
11:18:27				377	9.64579	0.5462651	1.3784	1.4652	6.20269	4.28673
11:18:28				378	9.64579	0.53071	1.3784	1.4652	5.81197	4.15647
11:18:28				379	9.64676	0.5276646	1.3784	1.4652	5.66545	4.13089
11:18:29				380	9.64385	0.5295876	1.3784	1.4652	5.81197	4.1473
11:18:29				381	9.64288	0.5262211	1.3784	1.4652	5.86081	4.11927
11:18:30				382	9.64579	0.5520379	1.3784	1.51404	5.81197	4.33515
11:18:30				383	9.65161	0.575294	1.3784	1.51404	5.61661	4.52991
11:18:31				384	9.65355	0.5687183	1.3784	1.4652	5.76313	4.47434
11:18:31				385	9.66131	0.5576521	1.2801	1.51404	5.86081	4.38041
11:18:32				386	9.66228	0.5451419	1.3784	1.4652	5.76313	4.27536
11:18:32				387	9.66034	0.5523585	1.3784	1.4652	5.76313	4.3361
11:18:33				388	9.65937	0.5581326	1.3784	1.4652	5.81197	4.38467
11:18:33				389	9.65937	0.5505943	1.3784	1.4652	5.66545	4.32142
11:18:34				390	9.66034	0.5315126	1.2801	1.41636	5.95849	4.16151
11:18:34				391	9.65743	0.5204482	1.3784	1.4652	5.81197	4.06939
11:18:35				392	9.65258	0.5225333	1.3784	1.4652	5.90965	4.08735
11:18:35				393	9.6487	0.5231746	1.2801	1.4652	5.86081	4.09315
11:18:36				394	9.6487	0.5207685	1.3784	1.4652	5.76313	4.07305
11:18:36				395	9.64579	0.5209295	1.3784	1.4652	5.76313	4.07472
11:18:37				396	9.64191	0.5246174	1.3784	1.4652	5.56777	4.10597
11:18:37				397	9.63802	0.5440193	1.2801	1.4652	5.71429	4.26883
11:18:38				398	9.63997	0.5590942	1.3784	1.4652	5.86081	4.3951
11:18:38				399	9.65743	0.554283	1.2801	1.4652	5.81197	4.3526
11:18:39				400	9.66131	0.5552459	1.3784	1.4652	5.56777	4.3602
11:18:39				401	9.66422	0.5377665	1.3784	1.51404	5.61661	4.21337
11:18:40				402	9.66034	0.5435389	1.2801	1.4652	5.56777	4.26217
11:18:40				403	9.65161	0.558935	1.3784	1.51404	5.90965	4.39235
11:18:41				404	9.64967	0.5945406	1.3784	1.51404	5.81197	4.69242
11:18:41				405	9.66325	0.577219	1.3784	1.51404	5.86081	4.54465
11:18:42				406	9.70306	0.5895683	1.3784	1.4652	5.76313	4.64359
11:18:42	11:17:27 end transect	5.0	90	407	9.70597	0.5521981	1.3784	1.4652	5.66545	4.32928
11:18:43				408	9.67876	0.5358418	1.3784	1.4652	5.51893	4.19558
11:18:43				409	9.65064	0.5486702	1.3784	1.4652	5.47009	4.30632
11:18:44				410	9.66519	0.6064111	1.3784	1.4652	5.86081	4.79066
11:18:44				411	9.70791	0.6144325	1.3784	1.51404	5.81197	4.85276
11:18:45				412	9.70791	0.6256631	1.3784	1.4652	5.56777	4.94775
11:18:45				413	9.71275	0.7026874	1.3784	1.4652	5.71429	5.60231
11:18:46				414	9.75835	0.7919452	1.4768	1.4652	5.56777	6.36135
11:18:46				415	9.84262	0.7635259	1.5752	1.4652	5.37241	6.10233
11:18:47				416	9.86783	0.7792593	1.772	1.4652	4.29792	6.23307
11:18:47				417	9.88717	0.9056572	1.8703	1.4652	4.20024	7.32227
11:18:48				418	9.96168	0.9422895	1.9687	1.4652	4.00488	7.62587

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:48				419	10.03895	0.9231689	2.1655	1.4652	3.663	7.44351
11:18:49				420	10.03509	0.9438971	2.2639	1.4652	3.32112	7.62441
11:18:49				421	10.05052	0.9382718	2.3623	1.41636	3.36996	7.57226
11:18:50				422	10.05824	0.9475922	2.3623	1.4652	3.1746	7.65166
11:18:50				423	10.05052	0.9556265	2.4606	1.4652	3.12576	7.72318
11:18:51				424	10.07662	0.947432	2.4606	1.4652	3.12576	7.64639
11:18:51				425	10.05438	0.9406824	2.559	1.4652	3.1746	7.59238
11:18:52				426	10.01869	0.934416	2.559	1.4652	3.22344	7.54535
11:18:52				427	10.00609	0.9289537	2.559	1.4652	3.02808	7.50048
11:18:53				428	10.00898	0.9371484	2.559	1.4652	3.07692	7.57113
11:18:53				429	10.01097	0.9140117	2.4606	1.4652	3.02808	7.36972
11:18:54				430	10.00705	0.934416	2.559	1.4652	3.02808	7.54777
11:18:54				431	10.01676	0.9715354	2.559	1.4652	3.12576	7.86906
11:18:55				432	10.04763	0.9744283	2.559	1.4652	3.07692	7.8876
11:18:55				433	10.07083	0.9628582	2.559	1.4652	3.07692	7.78179
11:18:56				434	10.06987	0.9522514	2.559	1.4652	3.02808	7.6897
11:18:56				435	10.06499	0.9684818	2.4606	1.51404	2.9304	7.83202
11:18:57				436	10.07083	0.9708928	2.559	1.4652	3.07692	7.85176
11:18:57				437	10.07662	0.9615714	2.559	1.4652	3.1746	7.76935
11:18:58				438	10.07662	0.9688027	2.559	1.51404	3.22344	7.8323
11:18:58				439	10.08047	0.9721778	2.559	1.4652	3.07692	7.86087
11:18:59				440	10.08818	0.9649457	2.559	1.4652	3.76068	7.79624
11:18:59				441	10.09397	0.9729823	2.559	1.4652	3.12576	7.86495
11:19:00				442	10.10167	0.9816586	2.559	1.4652	3.02808	7.93885
11:19:00	11:17:45 start transect	5.0	90	443	10.10938	0.9863207	2.559	1.4652	3.07692	7.97779
11:19:01				444	10.11227	0.9888915	2.559	1.4652	3.4188	7.99957
11:19:01				445	10.11035	0.998213	2.559	1.4652	3.02808	8.08128
11:19:02				446	10.11709	0.9941951	2.559	1.4652	3.02808	8.04474
11:19:02				447	10.12287	0.9954807	2.559	1.4652	3.02808	8.05467
11:19:03				448	10.12287	0.994195	2.559	1.4652	2.9304	8.04346
11:19:03				449	10.12094	1.0065707	2.559	1.4652	2.97924	8.15186
11:19:04				450	10.13353	1.001589	2.4606	1.51404	3.02808	8.10559
11:19:04				451	10.14316	0.9980517	2.559	1.51404	2.88156	8.07259
11:19:05				452	10.14701	1.0046419	2.559	1.4652	2.78388	8.12919
11:19:05				453	10.15183	1.0330921	2.559	1.4652	2.88156	8.37653
11:19:06				454	10.16145	1.0488448	2.559	1.4652	2.73504	8.5121
11:19:06				455	10.17108	1.0597773	2.559	1.4652	2.83272	8.60556
11:19:07				456	10.18847	1.0472383	2.559	1.51404	2.97924	8.49173
11:19:07				457	10.19713	1.0713507	2.559	1.4652	2.88156	8.70076
11:19:08				458	10.19135	1.0866239	2.559	1.4652	2.83272	8.83607
11:19:08				459	10.20867	1.0972361	2.559	1.4652	2.73504	8.92498
11:19:09				460	10.22118	1.0882328	2.559	1.4652	2.58852	8.84294
11:19:09				461	10.22214	1.0818019	2.559	1.4652	2.63736	8.78633
11:19:10				462	10.22791	1.0941821	2.559	1.51404	2.53968	8.89348
11:19:10				463	10.25875	1.1039895	2.4606	1.4652	2.442	8.97196

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:11				464	10.29239	1.1006118	2.559	1.4652	2.49084	8.93407
11:19:11				465	10.30974	1.0961112	2.559	1.4652	2.53968	8.89042
11:19:12				466	10.29917	1.1022198	2.4606	1.4652	2.442	8.94651
11:19:12				467	10.30398	1.1031859	2.559	1.4652	2.39316	8.95378
11:19:13				468	10.34336	1.1018984	2.559	1.4652	2.78388	8.93285
11:19:13				469	10.33663	1.0986835	2.559	1.4652	2.53968	8.90637
11:19:14				470	10.33279	1.1060795	2.4606	1.4652	2.24664	8.97205
11:19:14				471	10.33856	1.1057578	2.4606	1.4652	2.39316	8.96782
11:19:15				472	10.35488	1.1067228	2.559	1.4652	2.39316	8.97224
11:19:15				473	10.35296	1.1041499	2.559	1.4652	2.29548	8.9502
11:19:16				474	10.352	1.1044714	2.4606	1.4652	2.53968	8.95326
11:19:16				475	10.352	1.1046322	2.559	1.4652	2.29548	8.95466
11:19:17				476	10.352	1.1088128	2.559	1.4652	2.1978	8.99124
11:19:17				477	10.352	1.1137967	2.559	1.4652	2.24664	9.03488
11:19:18				478	10.35488	1.1123501	2.559	4.54212	2.24664	9.0215
11:19:18				479	10.35878	1.1084908	2.559	3.80952	2.34432	8.98675
11:19:19				480	10.3607	1.1137967	2.559	3.02808	2.24664	9.03272
11:19:19				481	10.36358	1.1125112	2.4606	2.53968	2.29548	9.02077
11:19:20				482	10.37797	1.1091346	2.4606	3.85836	2.29548	8.98767
11:19:20				483	10.37797	1.1089737	2.559	4.54212	2.39316	8.98625
11:19:21				484	10.38085	1.1131538	2.4606	4.44444	2.53968	9.02212
11:19:22				487	10.40814	1.1109104	2.559	1.9536	2.53968	8.99576
11:19:23				488	10.38991	1.1080164	2.4606	1.51404	2.53968	8.97496
11:19:23				489	10.38607	1.1070509	2.559	1.51404	2.442	8.96745
11:19:24				490	10.39375	1.1072118	2.4606	1.51404	2.58852	8.96698
11:19:24				491	10.38703	1.1039955	2.559	1.51404	2.49084	8.9405
11:19:25				492	10.37648	1.1022281	2.4606	1.51404	2.53968	8.92765
11:19:25				493	10.36688	1.1019068	2.4606	1.51404	2.49084	8.92718
11:19:26				494	10.35818	1.1017441	2.559	1.4652	2.63736	8.92788
11:19:26				495	10.3457	1.1007807	2.4606	1.4652	2.58852	8.92251
11:19:27				496	10.34282	1.0986899	2.559	1.4652	2.49084	8.90491
11:19:27				497	10.33705	1.0966006	2.559	1.51404	2.442	8.88804
11:19:28				498	10.33225	1.0938677	2.559	1.4652	2.58852	8.86531
11:19:28				499	10.32265	1.0906508	2.559	1.4652	2.63736	8.8395
11:19:29				500	10.31016	1.0887228	2.4606	1.4652	2.73504	8.82567
11:19:29				501	10.3044	1.086632	2.559	1.4652	2.9304	8.80876
11:19:30				502	10.30632	1.0875973	2.559	1.4652	2.6862	8.81674
11:19:30				503	10.29665	1.0877572	2.559	1.51404	2.6862	8.82048
11:19:31				504	10.288	1.0853454	2.559	1.4652	2.83272	8.80147
11:19:31				505	10.28224	1.0848642	2.4606	1.4652	2.53968	8.79866
11:19:32				506	10.28127	1.0845427	2.4606	1.51404	2.73504	8.79608
11:19:32				507	10.27551	1.0848642	2.4606	1.4652	2.78388	8.80028
11:19:33				508	10.27262	1.0847024	2.559	1.4652	2.73504	8.79955
11:19:33				509	10.27262	1.0850239	2.4606	1.51404	2.83272	8.80238
11:19:34				510	10.26878	1.088239	2.559	1.4652	2.58852	8.83145

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:34				511	10.26686	1.0896869	2.559	1.51404	2.442	8.84459
11:19:35				512	10.26974	1.0890428	2.559	1.51404	2.53968	8.83825
11:19:35				513	10.27551	1.0943485	2.4606	1.4652	2.442	8.88334
11:19:36				514	10.288	1.0957971	2.559	1.51404	2.53968	8.89297
11:19:36				515	10.29473	1.0953141	2.4606	1.51404	2.442	8.88711
11:19:37				516	10.29953	1.0937055	2.559	1.4652	2.39316	8.87184
11:19:37				517	10.29665	1.09226	2.559	1.4652	2.49084	8.85989
11:19:38				518	10.28992	1.0912953	2.4606	1.4652	2.34432	8.85309
11:19:38				519	10.28704	1.0911332	2.4606	1.4652	2.39316	8.85237
11:19:39				520	10.28608	1.0867919	2.4606	1.4652	2.49084	8.8146
11:19:39				521	10.28512	1.0859887	2.559	1.4652	2.39316	8.80779
11:19:40				522	10.28512	1.0861484	2.4606	1.4652	2.39316	8.8092
11:19:40				523	10.28127	1.0887229	2.559	1.4652	2.442	8.83266
11:19:41				524	10.27839	1.0853455	2.559	1.4652	2.442	8.80379
11:19:41				525	10.27359	1.0850239	2.559	1.4652	2.442	8.80213
11:19:42				526	10.26974	1.0861485	2.559	1.51404	2.442	8.81291
11:19:42				527	10.27359	1.0843809	2.559	1.4652	2.442	8.7965
11:19:43				528	10.27166	1.0856671	2.4606	5.32357	2.34432	8.80824
11:19:43				529	10.27455	1.0898468	2.4606	4.24908	2.39316	8.84414
11:19:44				530	10.27935	1.0838976	2.559	3.61416	2.29548	8.79088
11:19:44				531	10.28704	1.0855073	2.559	2.00244	2.39316	8.80311
11:19:45				532	10.29377	1.0941882	2.4606	1.4652	2.49084	8.87749
11:19:45				533	10.31016	1.0927403	2.559	1.51404	2.78388	8.86081
11:19:46				534	10.32457	1.0919376	2.559	1.4652	2.53968	8.85029
11:19:46				535	10.31689	1.0874353	2.4606	18.51038	2.05128	8.81279
11:19:47				536	10.30632	1.0877572	2.559	16.06838	2.05128	8.81814
11:19:47				537	10.30344	1.0893647	2.559	16.99634	2.14896	8.8329
11:19:48				538	10.32265	1.09869	2.4606	17.53358	2.00244	8.90985
11:19:48				539	10.37743	1.1237741	2.559	17.77778	2.00244	9.11593
11:19:49				540	10.41677	1.1408194	2.559	19.43834	1.9536	9.25535
11:19:49				541	10.43601	1.1538445	2.559	19.48718	2.00244	9.36459
11:19:50				542	10.45423	1.1512729	2.559	19.34066	2.05128	9.3374
11:19:50				543	10.51178	1.1565792	2.559	19.58486	2.00244	9.36913
11:19:51				544	10.54338	1.1609208	2.4606	20.80586	1.90476	9.39902
11:19:51				545	10.55302	1.1646193	2.559	22.46642	1.90476	9.42888
11:19:52				546	10.59225	1.1662284	2.559	22.75946	2.00244	9.43284
11:19:52				547	10.64969	1.1573833	2.559	22.51526	2.05128	9.34094
11:19:53				548	10.69084	1.1660662	2.559	22.90598	2.00244	9.4061
11:19:53				549	10.68511	1.168963	2.559	23.39438	1.80708	9.43282
11:19:54				550	10.67842	1.1702482	2.559	22.71062	2.00244	9.44575
11:19:54				551	10.68319	1.1586701	2.559	21.19658	2.10012	9.34362
11:19:55				552	10.70517	1.1339044	2.4606	19.53602	2.00244	9.12267
11:19:55				553	10.70326	1.1409789	2.559	15.87302	2.05128	9.18461
11:19:56				554	10.65542	1.0890414	2.559	6.10501	2.49084	8.7455
11:19:56				555	10.61335	1.1031911	2.3623	3.46764	2.78388	8.8784

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:57				556	10.6066	1.1170204	2.559	3.4188	2.78388	9.00023
11:19:57				557	10.58555	1.1392097	2.559	5.22589	2.6862	9.19871
11:19:58				558	10.5712	1.1586705	2.4606	7.66789	2.83272	9.37222
11:19:58				559	10.58747	1.1519145	2.4606	10.84249	2.49084	9.30908
11:19:59				560	10.62101	1.1398536	2.559	12.79609	2.53968	9.19542
11:19:59				561	10.61527	1.1485376	2.4606	13.96825	2.24664	9.27257
11:20:00				562	10.61144	1.1610821	2.559	14.45665	2.34432	9.38297
11:20:00				563	10.64013	1.1638147	2.4606	15.04274	2.1978	9.39948
11:20:01				564	10.67071	1.1654234	2.559	16.2149	1.9536	9.40566
11:20:01				565	10.66498	1.1638146	2.4606	16.9475	2.14896	9.39311
11:20:02				566	10.67364	1.1646188	2.4606	17.14286	1.90476	9.39791
11:20:02				567	10.66785	1.1652638	2.559	17.14286	2.14896	9.405
11:20:03				568	10.65542	1.1618856	2.4606	16.89866	2.00244	9.37874
11:20:03				569	10.66211	1.15674	2.559	16.84982	2.00244	9.33217
11:20:04				570	10.65733	1.1478938	2.559	14.74969	2.14896	9.25631
11:20:04				571	10.62101	1.1474113	2.559	13.91941	2.34432	9.26128
11:20:05				572	10.59225	1.1475723	2.559	12.35653	2.05128	9.26996
11:20:05				573	10.56546	1.1242566	2.559	9.03541	2.24664	9.07338
11:20:06				574	10.53381	1.1128394	2.559	2.05128	2.58852	8.9817
11:20:06				575	10.52232	1.1047988	2.559	1.4652	2.58852	8.91447
11:20:07				576	10.5022	1.0961169	2.559	1.4652	2.58852	8.84375
11:20:07				577	10.49071	1.0948305	2.4606	1.4652	2.49084	8.83533
11:20:08				578	10.49837	1.1067287	2.559	1.4652	2.442	8.93713
11:20:08				579	10.49646	1.1078551	2.559	9.91453	2.29548	8.94741
11:20:09				580	10.48298	1.1136436	2.4606	11.42857	2.34432	9.00122
11:20:09				581	10.47819	1.1237737	2.4606	7.76557	2.14896	9.09084
11:20:10				582	10.49741	1.1149294	2.559	4.44444	2.29548	9.00887
11:20:10				583	10.53285	1.1115522	2.559	2.34432	2.49084	8.97072
11:20:11				584	10.55014	1.1162157	2.559	1.7094	2.58852	9.0071
11:20:11				585	10.5511	1.1035128	2.4606	1.41636	2.442	8.89629
11:20:12				586	10.54631	1.0999751	2.4606	1.4652	2.63736	8.86667
11:20:12				587	10.53477	1.0914545	2.4606	1.4652	2.53968	8.79534
11:20:13				588	10.52328	1.092097	2.4606	1.4652	2.49084	8.80369
11:20:13				589	10.50316	1.0821285	2.559	1.51404	2.63736	8.72179
11:20:14				590	10.44464	1.0851852	2.559	1.51404	2.6862	8.76238
11:20:14				591	10.41102	1.0856666	2.4606	1.51404	2.442	8.77466
11:20:15				592	10.39663	1.0903284	2.559	1.51404	2.34432	8.81879
11:20:15				593	10.38703	1.0917773	2.4606	1.4652	2.34432	8.83377
11:20:16				594	10.3736	1.0887226	2.559	1.4652	2.29548	8.81033
11:20:16				595	10.36106	1.0800406	2.4606	1.4652	2.63736	8.73755
11:20:17				596	10.35626	1.0756986	2.559	1.4652	2.63736	8.70079
11:20:17				597	10.3601	1.0718398	2.559	1.4652	2.6862	8.66621
11:20:18				598	10.35626	1.0740921	2.559	1.4652	2.49084	8.68677
11:20:18				599	10.35338	1.072001	2.559	1.51404	2.63736	8.66921
11:20:19				600	10.3688	1.0676601	2.559	1.51404	2.73504	8.6277

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:19				601	10.37648	1.0686256	2.559	1.4652	2.6862	8.6343
11:20:20				602	10.37648	1.062195	2.559	1.51404	2.53968	8.57826
11:20:20				603	10.36784	1.0583371	2.4606	1.51404	2.63736	8.54669
11:20:21				604	10.36592	1.0575333	2.559	1.4652	2.73504	8.54013
11:20:22				607	10.36268	1.0527273	2.559	1.4652	2.442	8.49903
11:20:23				608	10.34246	1.0540124	2.559	1.51404	2.58852	8.51493
11:20:23				609	10.32805	1.0503148	2.559	1.51404	2.58852	8.48607
11:20:24				610	10.29443	1.0512789	2.4606	1.51404	2.58852	8.50232
11:20:24				611	10.27419	1.0538525	2.559	1.51404	2.73504	8.52949
11:20:25				612	10.26842	1.0549779	2.559	1.4652	2.6862	8.54067
11:20:25				613	10.27803	1.0615678	2.559	1.4652	2.58852	8.59596
11:20:26				614	10.26265	1.0710538	2.559	1.4652	2.73504	8.68252
11:20:26				615	10.25496	1.0691258	2.559	1.4652	2.6862	8.66749
11:20:27				616	10.24054	1.0829507	2.4606	1.51404	2.73504	8.79197
11:20:27				617	10.25015	1.0832741	2.559	1.51404	2.73504	8.79247
11:20:28				618	10.24342	1.0900261	2.559	1.51404	2.58852	8.85326
11:20:28				619	10.24054	1.0879364	2.559	1.51404	2.63736	8.83564
11:20:29				620	10.23669	1.0880963	2.559	1.4652	2.6862	8.83798
11:20:29				621	10.23284	1.0840766	2.4606	1.4652	2.442	8.80369
11:20:30				622	10.23188	1.0853627	2.4606	1.4652	2.63736	8.8152
11:20:30				623	10.23092	1.0866493	2.559	1.41636	2.83272	8.82669
11:20:31				624	10.23284	1.0852029	2.4606	1.51404	2.58852	8.81356
11:20:31				625	10.22701	1.0858462	2.4606	1.51404	2.58852	8.82061
11:20:32				626	10.2222	1.0829507	2.4606	1.4652	2.88156	8.7964
11:20:32				627	10.22124	1.0819869	2.559	1.51404	2.58852	8.78817
11:20:33				628	10.21932	1.0813446	2.4606	1.51404	2.53968	8.78302
11:20:33				629	10.21451	1.0850412	2.559	1.4652	2.49084	8.81657
11:20:34				630	10.21739	1.0869711	2.4606	1.4652	2.442	8.83281
11:20:34				631	10.21739	1.09292	2.559	1.4652	2.39316	8.88497
11:20:35				632	10.21835	1.0951712	2.4606	1.4652	2.49084	8.9045
11:20:35				633	10.22028	1.0946884	2.559	1.4652	2.49084	8.89978
11:20:36				634	10.2222	1.0948486	2.4606	1.4652	2.34432	8.90073
11:20:36				635	10.22413	1.098547	2.4606	1.51404	2.39316	8.93272
11:20:37				636	10.2222	1.0983866	2.559	1.4652	2.58852	8.93177
11:20:37				637	10.22413	1.0982262	2.559	1.4652	2.29548	8.92989
11:20:38				638	10.22413	1.0964578	2.559	1.4652	2.34432	8.91437
11:20:38				639	10.23092	1.0993514	2.4606	1.41636	2.39316	8.93811
11:20:39				640	10.22894	1.098547	2.559	1.51404	2.34432	8.93152
11:20:39				641	10.22797	1.0980657	2.4606	1.51404	2.39316	8.92755
11:20:40				642	10.22701	1.0953315	2.559	1.4652	2.34432	8.90378
11:20:40				643	10.22605	1.0980657	2.559	1.51404	2.53968	8.92801
11:20:41				644	10.22413	1.0982262	2.559	1.4652	2.49084	8.92989
11:20:41				645	10.22509	1.0993514	2.4606	1.4652	2.53968	8.93954
11:20:42				646	10.22413	1.0990305	2.559	1.4652	2.39316	8.93695
11:20:42				647	10.22413	1.1003166	2.559	1.4652	2.39316	8.94823

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:43				648	10.22413	1.0995119	2.4606	1.4652	2.49084	8.94118
11:20:43				649	10.22413	1.0998351	2.559	1.51404	2.39316	8.94401
11:20:44				650	10.22605	1.0929199	2.559	1.51404	2.58852	8.88286
11:20:44				651	10.22701	1.097422	2.4606	1.51404	2.442	8.92214
11:20:45				652	10.23188	1.1011193	2.559	1.4652	2.39316	8.95337
11:20:45				653	10.22996	1.1001561	2.559	1.51404	2.58852	8.94539
11:20:46				654	10.22894	1.0916349	2.4606	1.51404	2.49084	8.8709
11:20:46				655	10.22413	1.0890622	2.4606	1.4652	2.442	8.84951
11:20:47				656	10.22316	1.1003166	2.559	1.4652	2.442	8.94847
11:20:47				657	10.22316	1.1006377	2.559	1.51404	2.58852	8.95129
11:20:48				658	10.22605	1.0954917	2.559	1.4652	2.34432	8.90542
11:20:48				659	10.22413	1.0929199	2.4606	1.51404	2.442	8.88334
11:20:49				660	10.22124	1.0967785	2.4606	1.4652	2.442	8.9179
11:20:49				661	10.2222	1.0995119	2.4606	1.4652	2.53968	8.94166
11:20:50				662	10.22316	1.0930801	2.4606	1.4652	2.53968	8.88498
11:20:50				663	10.22124	1.0824699	2.4606	1.4652	2.6862	8.79242
11:20:51				664	10.21739	1.0940454	2.559	1.4652	2.6862	8.89485
11:20:51				665	10.21643	1.0948486	2.559	1.51404	2.63736	8.90213
11:20:52				666	10.21451	1.0889001	2.559	1.51404	2.78388	8.85041
11:20:52				667	10.21258	1.0842385	2.559	1.51404	2.49084	8.81
11:20:53				668	10.2097	1.0843982	2.559	1.4652	2.442	8.8121
11:20:53				669	10.2097	1.0808619	2.4606	1.4652	2.58852	8.78111
11:20:54				670	10.21066	1.0753956	2.559	1.4652	2.78388	8.73296
11:20:54				671	10.20681	1.0715372	2.559	1.4652	2.6862	8.70008
11:20:55				672	10.20681	1.0708929	2.559	1.51404	2.58852	8.69443
11:20:55				673	10.20489	1.0696068	2.559	1.51404	2.78388	8.68363
11:20:56				674	10.20489	1.0631762	2.559	1.4652	2.63736	8.62732
11:20:56				675	10.202	1.0561039	2.559	1.4652	2.73504	8.56611
11:20:57				676	10.19911	1.0549781	2.559	1.41636	2.73504	8.55694
11:20:57				677	10.19815	1.0421177	2.559	1.4652	2.88156	8.44471
11:20:58				678	10.19719	1.0459751	2.559	1.4652	2.78388	8.47865
11:20:58				679	10.19526	1.0364911	2.559	1.4652	2.83272	8.39622
11:20:59				680	10.19141	1.0385799	2.559	1.51404	2.88156	8.41536
11:20:59				681	10.18853	1.0356871	2.559	1.4652	2.78388	8.39075
11:21:00				682	10.1866	1.0249163	2.559	1.4652	2.6862	8.29714
11:21:00				683	10.18564	1.0273286	2.4606	1.51404	3.07692	8.31843
11:21:01				684	10.18564	1.0361687	2.4606	1.4652	2.78388	8.39564
11:21:01				685	10.18756	1.032954	2.559	1.51404	2.97924	8.3671
11:21:02				686	10.18853	1.0371342	2.559	1.51404	2.78388	8.40339
11:21:02	11:19:47 end transect	5.0	270	687	10.18756	1.0290973	2.559	1.4652	2.63736	8.33342
11:21:03				688	10.17794	1.0237923	2.559	1.51404	2.78388	8.28931
11:21:03				689	10.1721	1.0223457	2.559	1.4652	2.6862	8.27801
11:21:04				690	10.17018	1.026043	2.559	1.4652	2.53968	8.31073
11:21:04				691	10.16055	1.0257217	2.559	1.4652	2.58852	8.31012
11:21:05				692	10.15574	1.0276502	2.559	1.4652	2.78388	8.32807

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:21:05				693	10.15766	1.0581923	2.559	1.51404	2.73504	8.59485
11:21:06				694	10.16633	1.0826296	2.559	1.51404	2.83272	8.80708
11:21:06				695	10.18564	1.0895443	2.6574	1.4652	2.63736	8.86308
11:21:07				696	10.19526	1.0974222	2.8542	1.4652	2.442	8.92987
11:21:07				697	10.202	1.0930802	2.9526	1.41636	2.49084	8.89009
11:21:08				698	10.20392	1.1006378	3.0509	1.4652	2.442	8.95596
11:21:08				699	10.20392	1.1075515	3.0509	1.51404	2.63736	9.01669
11:21:09				700	10.20873	1.1059449	3.1493	1.4652	2.442	9.00137
11:21:09				701	10.2097	1.1044977	3.2477	1.51404	2.39316	8.98841
11:21:10				702	10.20777	1.1075515	3.2477	1.4652	2.49084	9.01571
11:21:10				703	10.20873	1.1065883	3.3461	1.4652	2.442	9.007
11:21:11				704	10.20777	1.1155931	3.3461	1.4652	2.29548	9.08638
11:21:11				705	10.2097	1.1131803	3.4445	1.4652	2.53968	9.06468
11:21:12				706	10.21066	1.1126967	3.4445	1.51404	2.442	9.06019
11:21:12				707	10.2097	1.1098031	3.5428	1.51404	2.49084	9.03498
11:21:13				708	10.20777	1.1131803	3.4445	1.51404	2.53968	9.06516
11:21:13				709	10.20681	1.1044978	3.5428	1.4652	2.34432	8.98908
11:21:14				710	10.20681	1.1056233	3.5428	1.4652	2.39316	8.99897
11:21:14				711	10.20873	1.1059449	3.5428	1.4652	2.39316	9.00132
11:21:15				712	10.20873	1.1049801	3.4445	1.4652	2.34432	8.99286
11:21:15				713	10.2097	1.109481	3.5428	1.4652	2.442	9.03215
11:21:16				714	10.20873	1.1090001	3.5428	1.51404	2.442	9.02816
11:21:16				715	10.20873	1.1090001	3.5428	1.51404	2.34432	9.02816
11:21:17				716	10.20777	1.1102862	3.5428	1.4652	2.34432	9.03971
11:21:17				717	10.20777	1.1133415	3.5428	1.4652	2.39316	9.06656
11:21:18				718	10.20873	1.1122153	3.5428	1.4652	2.34432	9.05642
11:21:18				719	10.20777	1.1130191	3.4445	1.51404	2.39316	9.06374
11:21:19				720	10.2097	1.116557	3.5428	1.51404	2.442	9.09435
11:21:19				721	10.21258	1.1139843	3.4445	1.51404	2.39316	9.07103
11:21:20				722	10.21451	1.1159137	3.5428	1.51404	2.49084	9.08749
11:21:20				723	10.21451	1.1287791	3.5428	1.4652	2.34432	9.20066
11:21:21				724	10.21739	1.1411609	3.4445	1.4652	2.442	9.30897
11:21:22	11:20:07 start transect	5.0	270	727	10.22833	1.1149327	3.5428	1.51404	2.49084	9.07542
11:21:23				728	10.22833	1.1128428	3.4445	1.51404	2.58852	9.05707
11:21:23				729	10.22545	1.1226511	3.4445	1.4652	2.34432	9.14401
11:21:24				730	10.22449	1.1501509	3.4445	1.4652	2.29548	9.38637
11:21:24				731	10.23122	1.1638207	3.5428	1.4652	2.14896	9.50515
11:21:25				732	10.23609	1.1686453	3.5428	1.51404	2.29548	9.54645
11:21:25				733	10.23897	1.1729885	3.5428	1.51404	2.14896	9.58403
11:21:26				734	10.2409	1.1737929	3.5428	1.4652	2.05128	9.59063
11:21:26				735	10.24282	1.1688072	3.5428	1.4652	2.05128	9.54612
11:21:27				736	10.24186	1.1652677	3.5428	1.41636	2.14896	9.51514
11:21:27				737	10.23994	1.1729884	3.4445	1.4652	1.90476	9.58379
11:21:28				738	10.24378	1.1731484	3.5428	1.4652	2.78388	9.58418
11:21:28				739	10.24955	1.1725063	3.4445	1.4652	2.442	9.57701

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:21:29				740	10.25051	1.1733084	3.5428	1.51404	2.00244	9.58382
11:21:29				741	10.25051	1.1755604	3.4445	1.4652	2.00244	9.60371
11:21:30				742	10.25051	1.1747576	3.5428	1.4652	2.00244	9.59661
11:21:30				743	10.2534	1.1725063	3.5428	1.4652	2.05128	9.57598
11:21:31				744	10.2534	1.1755604	3.5428	1.4652	1.80708	9.60293
11:21:31				745	10.25436	1.1754002	3.5428	1.51404	1.85592	9.60127
11:21:32				746	10.25051	1.1745954	3.5428	1.4652	2.34432	9.59518
11:21:32				747	10.24571	1.1736307	3.5428	1.4652	2.00244	9.58793
11:21:33				748	10.24859	1.1755604	3.4445	1.4652	2.1978	9.60421
11:21:33				749	10.24955	1.1754003	3.5428	1.41636	2.05128	9.60253
11:21:34				750	10.25051	1.174113	3.5428	1.4652	2.00244	9.59092
11:21:34				751	10.25147	1.1729884	3.5428	1.51404	2.14896	9.58074
11:21:35				752	10.24763	1.1747576	3.4445	1.4652	2.05128	9.59738
11:21:35				753	10.25051	1.1728262	3.5428	1.51404	2.00244	9.57956
11:21:36				754	10.24955	1.172022	3.5428	1.4652	2.00244	9.57272
11:21:36				755	10.25436	1.1734706	3.4445	1.4652	2.14896	9.58425
11:21:37				756	10.25436	1.1747576	3.4445	1.4652	2.1978	9.59561
11:21:37				757	10.25147	1.174113	3.5428	1.4652	2.00244	9.59067
11:21:38				758	10.25724	1.1742752	3.4445	1.51404	2.10012	9.59059
11:21:38				759	10.26301	1.1736306	3.5428	1.4652	1.90476	9.58337
11:21:39				760	10.26397	1.1736306	3.5428	1.4652	1.9536	9.58312
11:21:39				761	10.2659	1.1707361	3.5428	1.51404	2.24664	9.55708
11:21:40				762	10.26397	1.1667153	3.4445	1.4652	2.05128	9.52214
11:21:40				763	10.26109	1.1680017	3.4445	1.51404	1.9536	9.53424
11:21:41				764	10.26301	1.1721841	3.5428	1.51404	2.49084	9.57061
11:21:41				765	10.26205	1.1670369	3.5428	1.4652	2.1978	9.52547
11:21:42				766	10.26013	1.1618915	3.5428	1.4652	1.9536	9.48061
11:21:42				767	10.25917	1.1705762	3.5428	1.4652	2.00244	9.55744
11:21:43				768	10.25917	1.1742752	3.4445	1.4652	2.05128	9.59009
11:21:43				769	10.25917	1.1749177	3.5428	1.51404	2.05128	9.59574
11:21:44				770	10.25821	1.1731484	3.5428	1.51404	1.90476	9.58038
11:21:44				771	10.25917	1.1734706	3.5428	1.4652	1.90476	9.58297
11:21:45				772	10.25917	1.1739529	3.5428	1.4652	2.00244	9.58723
11:21:45				773	10.25917	1.1736306	3.4445	1.4652	2.1978	9.5844
11:21:46				774	10.26109	1.1729884	3.5428	1.4652	2.49084	9.57821
11:21:46				775	10.26109	1.1741129	3.5428	1.4652	2.24664	9.58813
11:21:47				776	10.26205	1.171862	3.5428	1.51404	1.90476	9.56802
11:21:47				777	10.26301	1.1700922	3.5428	1.4652	2.00244	9.55216
11:21:48				778	10.26205	1.1707361	3.4445	1.4652	1.90476	9.55811
11:21:48				779	10.26301	1.1729884	3.5428	1.4652	2.10012	9.57771
11:21:49				780	10.26397	1.1736306	3.5428	1.4652	2.00244	9.58312
11:21:49				781	10.26397	1.1731484	3.5428	1.51404	1.90476	9.57887
11:21:50				782	10.26493	1.1758828	3.5428	1.4652	2.442	9.60274
11:21:50				783	10.26397	1.1762053	3.5428	1.4652	2.39316	9.60584
11:21:51				784	10.26301	1.1765256	3.5428	1.4652	2.00244	9.60892

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:21:51				785	10.26205	1.1770084	3.5428	1.41636	2.14896	9.61343
11:21:52				786	10.26397	1.176688	3.5428	1.51404	2.34432	9.6101
11:21:52				787	10.26397	1.1763654	3.4445	1.51404	2.1978	9.60726
11:21:53				788	10.26493	1.1768482	3.5428	1.4652	1.90476	9.61126
11:21:53				789	10.2659	1.1771686	3.5428	1.4652	2.10012	9.61383
11:21:54				790	10.26397	1.1774912	3.5428	1.4652	2.29548	9.61718
11:21:54				791	10.2659	1.1762053	3.5428	1.4652	2.34432	9.60533
11:21:55				792	10.26686	1.1747576	3.5428	1.51404	2.05128	9.5923
11:21:55				793	10.2659	1.1745953	3.5428	1.51404	1.90476	9.59112
11:21:56				794	10.26686	1.1728262	3.5428	1.51404	1.9536	9.57527
11:21:56				795	10.26397	1.1659105	3.5428	1.4652	2.24664	9.51503
11:21:57				796	10.26205	1.1602824	3.6412	1.4652	1.9536	9.46591
11:21:57				797	10.25532	1.1585126	3.5428	1.51404	2.14896	9.45208
11:21:58				798	10.25147	1.1575485	3.5428	1.4652	2.10012	9.44458
11:21:58				799	10.25051	1.1546536	3.5428	1.51404	2.24664	9.41931
11:21:59				800	10.24763	1.1530459	3.4445	1.4652	2.24664	9.40591
11:21:59				801	10.24763	1.1535273	3.5428	1.4652	2.29548	9.41014
11:22:00				802	10.24571	1.1554577	3.5428	1.4652	2.10012	9.42764
11:22:00				803	10.24474	1.1564234	3.5428	1.4652	2.05128	9.4364
11:22:01				804	10.24282	1.1538497	3.4445	1.51404	2.34432	9.41423
11:22:01				805	10.24186	1.1515981	3.5428	1.51404	2.14896	9.39463
11:22:02				806	10.24378	1.1572257	3.4445	1.4652	2.34432	9.44374
11:22:02				807	10.24282	1.1591563	3.5428	1.4652	2.24664	9.461
11:22:03				808	10.24667	1.1626954	3.5428	1.4652	2.442	9.4912
11:22:03				809	10.24955	1.1551351	3.5428	1.51404	2.1978	9.42381
11:22:04				810	10.24667	1.1525625	3.5428	1.51404	2.00244	9.40188
11:22:04				811	10.24282	1.1570666	3.5428	1.4652	2.05128	9.44257
11:22:05				812	10.24378	1.1594771	3.5428	1.4652	1.9536	9.46357
11:22:05				813	10.24474	1.1543311	3.5428	1.4652	2.1978	9.41797
11:22:06				814	10.24378	1.1533661	3.4445	1.51404	2.14896	9.40972
11:22:06				815	10.23801	1.1565825	3.5428	1.51404	2.29548	9.43955
11:22:07				816	10.23897	1.1559394	3.5428	1.4652	2.14896	9.43363
11:22:07				817	10.23994	1.1557803	3.4445	1.51404	2.24664	9.432
11:22:08				818	10.23801	1.1546536	3.5428	1.41636	2.1978	9.42255
11:22:08				819	10.23705	1.1554577	3.5428	1.4652	2.39316	9.42989
11:22:09				820	10.23897	1.1538497	3.4445	1.51404	2.24664	9.41523
11:22:09				821	10.23994	1.153046	3.5428	1.4652	2.14896	9.40788
11:22:10				822	10.23897	1.1517592	3.4445	1.51404	2.29548	9.3968
11:22:10				823	10.23897	1.1528848	3.4445	1.4652	2.10012	9.40672
11:22:11				824	10.24378	1.1549761	3.5428	1.4652	2.14896	9.4239
11:22:11				825	10.24763	1.1517592	3.5428	1.51404	2.14896	9.39456
11:22:12				826	10.24763	1.1519202	3.5428	1.51404	2.24664	9.39598
11:22:12				827	10.24378	1.153046	3.5428	1.4652	2.34432	9.40689
11:22:13				828	10.24378	1.1515981	3.5428	1.41636	2.14896	9.39413
11:22:13				829	10.24378	1.1515981	3.5428	1.4652	2.442	9.39413

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:14				830	10.2409	1.1522403	3.5428	1.51404	2.63736	9.40053
11:22:14				831	10.24282	1.153046	3.5428	1.4652	1.9536	9.40714
11:22:15				832	10.25628	1.1524014	3.5428	1.51404	1.90476	9.39798
11:22:15				833	10.25532	1.1511148	3.4445	1.4652	2.1978	9.38691
11:22:16				834	10.25628	1.1507927	3.5428	1.4652	2.49084	9.38382
11:22:16				835	10.26013	1.1504728	3.5428	1.4652	2.63736	9.38001
11:22:17				836	10.2659	1.151598	3.5428	1.4652	2.1978	9.38843
11:22:17				837	10.27262	1.1511148	3.5428	1.51404	2.24664	9.38244
11:22:18				838	10.28031	1.1453265	3.5428	1.4652	2.00244	9.32953
11:22:18				839	10.27551	1.1459696	3.5428	1.4652	2.14896	9.33642
11:22:19				840	10.27455	1.1495068	3.5428	1.51404	2.1978	9.36779
11:22:19				841	10.2832	1.1493458	3.5428	1.4652	2.63736	9.36415
11:22:20				842	10.2832	1.146452	3.5428	1.51404	2.88156	9.33869
11:22:20				843	10.27647	1.1477388	3.5428	1.51404	2.1978	9.35174
11:22:21				844	10.27839	1.1519201	3.5428	1.4652	2.24664	9.38805
11:22:22				847	10.31587	1.1517741	3.4445	1.51404	2.1978	9.37713
11:22:23				848	10.31875	1.1488802	3.5428	1.51404	2.05128	9.35094
11:22:23				849	10.33411	1.146467	3.5428	1.51404	2.14896	9.32579
11:22:24				850	10.34468	1.1480755	3.5428	1.51404	2.1978	9.33722
11:22:24				851	10.34084	1.1490411	3.5428	1.41636	2.34432	9.34669
11:22:25				852	10.33795	1.1498459	3.4445	1.51404	2.34432	9.35451
11:22:25				853	10.33988	1.1500048	3.5428	1.51404	2.29548	9.3554
11:22:26				854	10.35044	1.149363	3.5428	1.4652	2.14896	9.34706
11:22:26				855	10.33988	1.1485583	3.5428	1.4652	2.14896	9.34269
11:22:27				856	10.33795	1.1503268	3.4445	1.4652	2.24664	9.35874
11:22:27				857	10.35812	1.1537055	3.5428	1.4652	2.1978	9.38323
11:22:28				858	10.3649	1.1537054	3.5428	1.51404	2.53968	9.38149
11:22:28				859	10.35524	1.1509708	3.4445	1.51404	2.10012	9.35996
11:22:29				860	10.35524	1.1471103	3.5428	1.4652	2.14896	9.32604
11:22:29				861	10.36202	1.1506487	3.5428	1.41636	2.10012	9.35538
11:22:30				862	10.36394	1.1525795	3.4445	1.51404	2.05128	9.37186
11:22:30				863	10.36586	1.1554747	3.4445	1.51404	2.24664	9.39679
11:22:31				864	10.35908	1.1551522	3.5428	1.4652	2.10012	9.39569
11:22:31				865	10.35332	1.1545094	3.5428	1.4652	2.00244	9.39153
11:22:32				866	10.35236	1.1540257	3.4445	1.4652	2.05128	9.38754
11:22:32				867	10.3562	1.1520962	3.5428	1.4652	2.24664	9.36959
11:22:33				868	10.36004	1.1537055	3.5428	1.51404	2.58852	9.38274
11:22:33				869	10.361	1.1557951	3.5428	1.51404	2.53968	9.40085
11:22:34				870	10.36004	1.1556338	3.4445	3.76068	2.10012	9.39969
11:22:34				871	10.35908	1.1509708	3.5428	3.12576	2.10012	9.35896
11:22:35				872	10.36778	1.1501656	3.5428	2.88156	2.00244	9.34966
11:22:35				873	10.38121	1.1495238	3.5428	3.22344	2.34432	9.34059
11:22:36				874	10.38121	1.1487191	3.4445	3.07692	2.00244	9.33354
11:22:36				875	10.39081	1.1482363	3.5428	2.9304	2.00244	9.32684
11:22:37				876	10.39849	1.1479145	3.7396	2.9304	2.53968	9.32203

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:37				877	10.40136	1.1485581	3.5428	2.88156	2.88156	9.32697
11:22:38				878	10.40136	1.1483971	3.5428	2.73504	2.58852	9.32555
11:22:38				879	10.4052	1.1498457	3.4445	2.39316	2.29548	9.33729
11:22:39				880	10.4052	1.1504875	3.4445	2.29548	2.49084	9.34292
11:22:39				881	10.4052	1.1492018	3.5428	2.05128	2.34432	9.33163
11:22:40				882	10.4052	1.1477535	3.5428	2.1978	2.34432	9.31893
11:22:40				883	10.40712	1.1475926	3.4445	2.34432	2.442	9.31704
11:22:41				884	10.41192	1.148558	3.5428	2.24664	2.10012	9.32427
11:22:41				885	10.41575	1.1490408	3.5428	2.05128	2.29548	9.32752
11:22:42				886	10.42055	1.1451805	3.5428	2.39316	2.1978	9.29247
11:22:42				887	10.41863	1.1429287	3.4445	2.78388	2.442	9.27323
11:22:43				888	10.42055	1.145502	3.5428	2.73504	2.39316	9.29528
11:22:43				889	10.4302	1.144859	3.5428	2.39316	2.14896	9.28719
11:22:44				890	10.45033	1.1421255	3.4445	2.78388	2.1978	9.25816
11:22:44				891	10.45033	1.142768	3.5428	3.76068	2.10012	9.26377
11:22:45				892	10.45321	1.1446981	3.4445	4.29792	2.05128	9.27995
11:22:45				893	10.46375	1.1446981	3.5428	4.6398	2.14896	9.27726
11:22:46				894	10.47238	1.1419649	3.5428	5.27473	2.24664	9.25116
11:22:46				895	10.47142	1.1416437	3.5428	5.86081	2.05128	9.24859
11:22:47				896	10.47334	1.1408389	3.5428	6.10501	2.1978	9.24107
11:22:47				897	10.49352	1.1400341	3.4445	6.39805	2.05128	9.22895
11:22:48				898	10.51076	1.1429284	3.5428	6.69109	2.10012	9.24988
11:22:48				899	10.50598	1.144698	3.4445	6.88645	2.29548	9.26657
11:22:49				900	10.50214	1.145984	3.5428	7.32601	2.442	9.27877
11:22:49				901	10.5031	1.1475923	3.5428	7.61905	2.53968	9.2926
11:22:50				902	10.50598	1.147914	3.4445	7.86325	2.58852	9.29469
11:22:50				903	10.51076	1.1466272	3.5428	8.10745	2.34432	9.28221
11:22:51				904	10.51747	1.1471097	3.5428	8.59585	1.9536	9.28473
11:22:51				905	10.52034	1.147914	3.4445	9.37729	2.34432	9.29104
11:22:52				906	10.53088	1.1492013	3.5428	9.71917	2.34432	9.29961
11:22:52				907	10.53279	1.1498452	3.4445	10.30525	2.00244	9.30476
11:22:53				908	10.53375	1.1509702	3.5428	10.54945	2.05128	9.31434
11:22:53				909	10.53375	1.1517733	3.5428	10.69597	2.1978	9.32136
11:22:54				910	10.53662	1.1498452	3.5428	10.59829	2.05128	9.30377
11:22:54				911	10.53662	1.1495232	3.5428	10.40293	1.90476	9.30096
11:22:55				912	10.53471	1.1498452	3.5428	10.35409	2.24664	9.30426
11:22:55				913	10.54913	1.1464662	3.4445	10.40293	2.14896	9.2711
11:22:56				914	10.55391	1.1450192	3.5428	10.35409	2.24664	9.25724
11:22:56				915	10.55487	1.1443764	3.5428	10.20757	2.49084	9.25138
11:22:57				916	10.56157	1.1443763	3.5428	10.01221	2.24664	9.24969
11:22:57				917	10.57497	1.1459838	3.6412	10.25641	1.85592	9.26032
11:22:58				918	10.57593	1.145823	3.5428	10.50061	2.05128	9.25869
11:22:58				919	10.56636	1.1446977	3.4445	10.69597	2.14896	9.2513
11:22:59				920	10.56444	1.150809	3.4445	10.64713	2.24664	9.30514
11:22:59				921	10.57593	1.1512921	3.5428	10.79365	2.00244	9.30643

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:00				922	10.57784	1.1490402	3.5428	10.79365	2.10012	9.28628
11:23:00				923	10.5721	1.1483965	3.5428	10.89133	1.9536	9.28212
11:23:01				924	10.57305	1.1538637	3.5428	10.89133	2.39316	9.32961
11:23:01				925	10.57593	1.1570806	3.4445	10.79365	2.05128	9.35699
11:23:02				926	10.57784	1.1569214	3.4445	10.94017	2.14896	9.35511
11:23:02				927	10.5788	1.1561169	3.5428	11.13553	1.9536	9.34782
11:23:03				928	10.57784	1.1540249	3.5428	11.37973	2.05128	9.3298
11:23:03				929	10.58071	1.1537046	3.5428	11.52625	2.14896	9.32627
11:23:04				930	10.58071	1.15676	3.5428	11.57509	2.73504	9.35295
11:23:04				931	10.58167	1.1504869	3.5428	12.21001	2.1978	9.29794
11:23:05				932	10.58167	1.1471094	3.5428	11.91697	2.29548	9.26846
11:23:05				933	10.58358	1.1527398	3.5428	11.18437	2.34432	9.31712
11:23:06				934	10.58645	1.1525787	3.5428	10.98901	2.1978	9.31498
11:23:06				935	10.58741	1.1580467	3.5428	10.89133	1.9536	9.36248
11:23:07				936	10.58071	1.1524176	3.5428	12.06349	2.1978	9.31503
11:23:07				937	10.58262	1.1527398	3.4445	13.67521	2.00244	9.31738
11:23:08				938	10.58454	1.1530599	3.4445	14.70085	2.14896	9.31968
11:23:08				939	10.58358	1.1554739	3.5428	15.33578	2.14896	9.34099
11:23:09				940	10.58071	1.1554739	3.5428	15.62882	2.14896	9.34172
11:23:09				941	10.57784	1.15306	3.5428	17.09402	2.58852	9.32137
11:23:10				942	10.57784	1.1524176	3.5428	17.4359	2.29548	9.31577
11:23:10				943	10.57305	1.1554739	3.5428	16.89866	2.10012	9.34367
11:23:11				944	10.54338	1.1567602	3.4445	16.11722	2.05128	9.36251
11:23:11				945	10.53375	1.1575627	3.5428	14.31013	2.58852	9.37198
11:23:12				946	10.54045	1.1583675	3.4445	13.04029	2.29548	9.37731
11:23:12				947	10.54625	1.1662483	3.4445	11.52625	2.05128	9.44475
11:23:13				948	10.52034	1.1725206	3.5428	11.18437	2.00244	9.50635
11:23:13				949	10.50214	1.1709126	3.5428	10.59829	1.9536	9.49699
11:23:14				950	10.50598	1.1644797	3.4445	9.47497	2.24664	9.43966
11:23:14				951	10.51651	1.1701088	3.5428	7.86325	2.10012	9.48622
11:23:15				952	10.50598	1.1746119	3.5428	7.52137	2.05128	9.52841
11:23:15				953	10.47046	1.1691434	3.5428	6.49573	2.05128	9.4897
11:23:16				954	10.46471	1.1657654	3.4445	4.83516	2.00244	9.46159
11:23:16				955	10.47909	1.1787944	3.5428	4.1514	1.85592	9.57211
11:23:17				956	10.44842	1.179438	3.5428	3.76068	2.05128	9.58579
11:23:17				957	10.42444	1.1758997	3.4445	2.29548	1.85592	9.56101
11:23:18				958	10.43979	1.1750947	3.5428	1.75824	1.9536	9.54991
11:23:18				959	10.43403	1.1789549	3.4445	1.66056	1.90476	9.58534
11:23:19				960	10.41479	1.180242	3.5428	1.4652	1.85592	9.60169
11:23:19				961	10.40424	1.1805628	3.5428	1.4652	2.58852	9.60728
11:23:20				962	10.39657	1.1813671	3.5428	1.51404	3.4188	9.61637
11:23:20				963	10.39081	1.1813671	3.5428	1.4652	2.05128	9.61789
11:23:21				964	10.38793	1.1807233	3.4445	1.4652	2.00244	9.613
11:23:22				967	10.38307	1.1810309	3.5428	1.51404	2.10012	9.61697
11:23:23				968	10.38211	1.1781361	3.5428	1.4652	2.14896	9.59176

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:23				969	10.38115	1.1776532	3.5428	1.51404	1.90476	9.58776
11:23:24				970	10.3706	1.1770102	3.6412	1.4652	1.85592	9.58486
11:23:24				971	10.34756	1.176205	3.5428	1.4652	2.1978	9.58384
11:23:25				972	10.33693	1.1760449	3.5428	1.51404	2.1978	9.58522
11:23:25				973	10.34564	1.1786171	3.5428	1.4652	2.14896	9.60558
11:23:26				974	10.35812	1.1771704	3.4445	1.4652	1.9536	9.58958
11:23:26				975	10.35236	1.1763673	3.5428	1.51404	2.00244	9.58401
11:23:27				976	10.33886	1.1773307	3.4445	2.63736	2.1978	9.59605
11:23:27				977	10.33693	1.1774931	3.5428	2.63736	2.1978	9.59797
11:23:28				978	10.33982	1.1789399	3.5428	1.4652	2.10012	9.60996
11:23:28				979	10.33693	1.1821563	3.5428	7.76557	2.24664	9.63905
11:23:29				980	10.33693	1.18264	3.5428	2.24664	2.24664	9.64331
11:23:29				981	10.34468	1.1819958	3.5428	1.51404	2.1978	9.63559
11:23:30				982	10.34372	1.1845686	3.5428	1.51404	1.9536	9.65851
11:23:30				983	10.34564	1.1903594	3.6412	1.4652	1.90476	9.70902
11:23:31				984	10.34948	1.1877863	3.6412	1.51404	2.00244	9.68532
11:23:31				985	10.34852	1.1897159	3.7396	1.51404	1.90476	9.70257
11:23:32				986	10.34948	1.1892334	3.7396	1.4652	1.9536	9.69806
11:23:32	11:2217 end transect	5.0	90	987	10.3466	1.191003	3.838	1.4652	2.05128	9.71441
11:23:33				988	10.34174	1.1919686	3.838	1.4652	1.9536	9.72421
11:23:33				989	10.33405	1.1910031	4.0348	1.51404	2.1978	9.71772
11:23:34				990	10.33213	1.1908422	4.0348	1.51404	1.85592	9.71681
11:23:34				991	10.33021	1.1922907	4.1331	1.51404	1.9536	9.73008
11:23:35				992	10.32541	1.1950241	4.1331	1.4652	1.9536	9.75548
11:23:35				993	10.31773	1.1942208	4.2315	1.4652	2.05128	9.75043
11:23:36				994	10.31292	1.1947019	4.3299	1.51404	1.80708	9.75595
11:23:36				995	10.311	1.1950241	4.3299	1.51404	1.90476	9.7593
11:23:37				996	10.3062	1.1947019	4.3299	1.51404	1.90476	9.75775
11:23:37				997	10.29563	1.1951853	4.4283	1.51404	1.85592	9.76483
11:23:38				998	10.29082	1.1956666	4.4283	1.4652	2.1978	9.77037
11:23:38				999	10.2889	1.1958277	4.5267	1.51404	1.9536	9.77229
11:23:39				1000	10.2889	1.1951854	4.5267	1.4652	1.90476	9.76662
11:23:39				1001	10.28986	1.1948631	4.5267	1.4652	2.00244	9.76351
11:23:40				1002	10.29563	1.1951853	4.5267	1.51404	2.14896	9.76481
11:23:40				1003	10.30043	1.1955076	4.5267	1.51404	1.9536	9.76637
11:23:41				1004	10.30139	1.194702	4.5267	1.51404	2.49084	9.759
11:23:41				1005	10.30716	1.1940598	4.5267	1.4652	1.9536	9.75179
11:23:42				1006	10.31004	1.1937377	4.5267	1.4652	1.9536	9.74818
11:23:42				1007	10.31388	1.1942209	4.5267	1.51404	1.85592	9.75142
11:23:43				1008	10.31484	1.1943798	4.5267	1.4652	1.9536	9.75256
11:23:43				1009	10.31004	1.1948631	4.5267	1.51404	2.14896	9.75811
11:23:44				1010	10.3062	1.1943798	4.5267	1.4652	1.80708	9.75487
11:23:44				1011	10.3062	1.1958277	4.4283	1.51404	1.85592	9.76767
11:23:45				1012	10.30332	1.1956665	4.5267	1.51404	2.1978	9.767
11:23:45				1013	10.29947	1.1955076	4.5267	1.51404	1.90476	9.76663

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:46				1014	10.29563	1.1950242	4.5267	1.51404	2.00244	9.76339
11:23:46				1015	10.29179	1.1955076	4.5267	1.4652	2.14896	9.76869
11:23:47				1016	10.29371	1.1953465	4.5267	1.51404	1.90476	9.76675
11:23:47	11:22:32 start transect	5.0	90	1017	10.29179	1.1951854	4.5267	1.51404	1.75824	9.76584
11:23:48				1018	10.29275	1.19615	4.5267	1.4652	2.6862	9.77411
11:23:48				1019	10.29179	1.1966336	4.5267	1.4652	1.9536	9.77863
11:23:49				1020	10.29179	1.1967926	4.5267	1.4652	1.90476	9.78004
11:23:49				1021	10.29082	1.1964724	4.5267	1.51404	2.00244	9.77747
11:23:50				1022	10.29179	1.1966336	4.5267	1.51404	1.90476	9.77863
11:23:50				1023	10.29179	1.197115	4.5267	1.4652	2.05128	9.78289
11:23:51				1024	10.29179	1.1969538	4.5267	1.4652	1.90476	9.78146
11:23:51				1025	10.29371	1.197115	4.5267	1.4652	2.10012	9.78237
11:23:52				1026	10.29467	1.1969538	4.5267	1.51404	2.00244	9.78069
11:23:52				1027	10.29467	1.1967926	4.5267	1.4652	1.9536	9.77926
11:23:53				1028	10.29659	1.1958277	4.5267	1.4652	1.85592	9.77023
11:23:53				1029	10.29659	1.1959889	4.5267	1.51404	2.1978	9.77165
11:23:54				1030	10.29755	1.1964724	4.5267	1.51404	1.85592	9.77566
11:23:54				1031	10.29755	1.1964724	4.5267	1.51404	1.80708	9.77566
11:23:55				1032	10.29755	1.197115	4.5267	1.4652	2.1978	9.78134
11:23:55				1033	10.30332	1.1975987	4.5267	1.51404	2.00244	9.78406
11:23:56				1034	10.30812	1.1974374	4.5267	1.51404	2.14896	9.78135
11:23:56				1035	10.3062	1.197115	4.5267	1.4652	1.85592	9.77902
11:23:57				1036	10.30332	1.197115	4.5267	1.4652	2.00244	9.77979
11:23:57				1037	10.29947	1.1975987	4.5267	1.4652	1.85592	9.78509
11:23:58				1038	10.30139	1.197919	4.5267	1.51404	1.90476	9.78741
11:23:58				1039	10.30812	1.1977577	4.5267	1.51404	1.90476	9.78418
11:23:59				1040	10.30908	1.1977577	4.5267	1.51404	1.90476	9.78392
11:23:59				1041	10.3062	1.1982415	4.6251	1.4652	2.10012	9.78895
11:24:00				1042	10.31196	1.1977577	4.5267	1.4652	1.9536	9.78315
11:24:00				1043	10.31869	1.1967925	4.5267	1.51404	1.9536	9.77282
11:24:01				1044	10.3158	1.1959888	4.5267	1.51404	1.85592	9.7665
11:24:01				1045	10.31004	1.1959888	4.5267	1.4652	1.85592	9.76805
11:24:02				1046	10.30812	1.1956665	4.5267	1.4652	1.9536	9.76572
11:24:02				1047	10.30139	1.1953465	4.5267	1.4652	2.10012	9.76469
11:24:03				1048	10.30043	1.1950242	4.5267	1.51404	2.05128	9.7621
11:24:03				1049	10.29947	1.1948631	4.5267	1.4652	1.80708	9.76094
11:24:04				1050	10.30043	1.1950242	4.5267	1.4652	1.75824	9.7621
11:24:04				1051	10.30043	1.1950242	4.5267	1.51404	1.80708	9.7621
11:24:05				1052	10.30043	1.1955076	4.5267	1.4652	1.75824	9.76637
11:24:05				1053	10.30043	1.1951853	4.5267	1.51404	1.7094	9.76353
11:24:06				1054	10.30332	1.1953464	4.5267	1.4652	1.75824	9.76418
11:24:06				1055	10.3062	1.1953464	4.5267	1.4652	1.7094	9.76341
11:24:07				1056	10.3062	1.1958277	4.5267	1.4652	1.61172	9.76765
11:24:07				1057	10.30716	1.1959888	4.5267	1.51404	1.7094	9.76882
11:24:08				1058	10.30812	1.1955076	4.5267	1.51404	1.75824	9.76431

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:08				1059	10.31388	1.1955075	4.5267	1.4652	1.7094	9.76277
11:24:09				1060	10.31292	1.1963111	4.5267	1.51404	1.66056	9.77012
11:24:09				1061	10.31869	1.1985618	4.5267	1.51404	1.80708	9.78844
11:24:10				1062	10.32253	1.1982415	4.5267	1.4652	2.34432	9.78458
11:24:10				1063	10.32925	1.1971149	4.5267	1.4652	1.9536	9.77284
11:24:11				1064	10.3427	1.1967924	4.5267	1.4652	1.66056	9.76639
11:24:11				1065	10.34756	1.1979188	4.5267	1.51404	1.90476	9.77503
11:24:12				1066	10.34948	1.1979188	4.5267	1.4652	1.80708	9.77451
11:24:12				1067	10.3466	1.1975985	4.5267	1.51404	1.7094	9.77246
11:24:13				1068	10.34948	1.1975985	4.5267	1.4652	1.80708	9.77169
11:24:13				1069	10.34948	1.1984026	4.5267	1.4652	1.80708	9.77878
11:24:14				1070	10.35524	1.1980801	4.5267	1.51404	1.7094	9.77439
11:24:14				1071	10.34468	1.1979188	4.5267	1.4652	1.85592	9.7758
11:24:15				1072	10.34852	1.1979188	4.5267	1.4652	2.05128	9.77477
11:24:15				1073	10.35428	1.1992069	4.5267	1.51404	1.75824	9.78458
11:24:16				1074	10.35524	1.2000093	4.5267	1.4652	1.75824	9.7914
11:24:16				1075	10.35524	1.1995274	4.5267	1.51404	1.75824	9.78715
11:24:17				1076	10.36964	1.1995273	4.5267	1.4652	1.85592	9.78329
11:24:17				1077	10.37731	1.1992069	4.5267	1.4652	1.75824	9.77841
11:24:18				1078	10.37156	1.1995273	4.5267	1.51404	1.66056	9.78278
11:24:18				1079	10.36868	1.1992069	4.5267	1.4652	1.66056	9.78072
11:24:19				1080	10.3658	1.1996887	4.5267	1.51404	2.53968	9.78574
11:24:19				1081	10.3658	1.2000092	4.5267	1.4652	1.90476	9.78857
11:24:20				1082	10.36868	1.2001706	4.5267	1.51404	1.9536	9.78922
11:24:20				1083	10.37827	1.2003319	4.5267	1.51404	1.85592	9.78807
11:24:21				1084	10.38595	1.19985	4.5267	1.4652	1.56288	9.78176
11:24:22				1087	10.37809	1.2011213	4.5267	1.51404	1.85592	9.79507
11:24:23				1088	10.37809	1.2008006	4.5267	1.51404	1.7094	9.79225
11:24:23				1089	10.38577	1.2006392	4.5267	1.4652	1.61172	9.78876
11:24:24				1090	10.39153	1.2012826	4.5267	1.4652	1.7094	9.79289
11:24:24				1091	10.38385	1.2014441	4.5267	1.51404	1.9536	9.79637
11:24:25				1092	10.38097	1.200962	4.5267	1.51404	1.7094	9.7929
11:24:25				1093	10.38769	1.2006392	4.5267	1.4652	1.7094	9.78825
11:24:26				1094	10.39345	1.2008006	4.5267	1.4652	1.85592	9.78813
11:24:26				1095	10.39441	1.199514	4.5267	1.51404	1.80708	9.77654
11:24:27				1096	10.38865	1.1985483	4.5267	1.51404	1.9536	9.76957
11:24:27				1097	10.38289	1.1971014	4.5267	1.4652	1.9536	9.75836
11:24:28				1098	10.36946	1.1958142	4.5267	1.4652	2.1978	9.75061
11:24:28				1099	10.355	1.1943664	4.5267	1.4652	1.85592	9.74171
11:24:29				1100	10.34348	1.1938832	4.5267	1.51404	1.80708	9.74053
11:24:29				1101	10.34156	1.1942053	4.5267	1.4652	1.80708	9.74388
11:24:30				1102	10.33003	1.1943665	4.5267	1.4652	2.24664	9.74838
11:24:30				1103	10.32235	1.1937222	4.5267	1.4652	2.1978	9.74475
11:24:31				1104	10.31851	1.1942054	4.5267	1.51404	1.85592	9.75004
11:24:31				1105	10.31659	1.1942054	4.5267	1.51404	1.80708	9.75056

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:32				1106	10.30692	1.1950109	4.5267	1.4652	1.85592	9.76025
11:24:32				1107	10.31466	1.198067	4.5267	1.4652	2.1978	9.78515
11:24:33				1108	10.32427	1.1969404	4.6251	1.4652	2.00244	9.77262
11:24:33				1109	10.30692	1.1946887	4.5267	1.51404	1.85592	9.75741
11:24:34				1110	10.30019	1.1966181	4.5267	1.4652	2.10012	9.77624
11:24:34				1111	10.29539	1.1961368	4.5267	1.4652	2.14896	9.77328
11:24:35				1112	10.30692	1.1954921	4.5267	1.51404	2.05128	9.7645
11:24:35				1113	10.31178	1.1942054	4.5267	1.4652	1.80708	9.75184
11:24:36				1114	10.30788	1.1951698	4.5267	1.51404	1.85592	9.7614
11:24:36				1115	10.305	1.1967793	4.5267	1.4652	2.24664	9.77638
11:24:37				1116	10.30308	1.1948498	4.5267	1.4652	2.1978	9.75986
11:24:37				1117	10.30404	1.1935612	4.5267	1.51404	2.1978	9.74823
11:24:38				1118	10.30596	1.1930803	4.5267	1.51404	2.00244	9.74347
11:24:38				1119	10.29155	1.1916316	4.5267	1.4652	2.34432	9.73453
11:24:39				1120	10.29347	1.1895422	4.5267	1.4652	2.05128	9.71557
11:24:39				1121	10.28674	1.1911488	4.5267	1.51404	2.00244	9.73155
11:24:40				1122	10.29058	1.1913097	4.5267	1.51404	2.49084	9.73195
11:24:40				1123	10.28674	1.1903465	4.5267	1.4652	2.10012	9.72447
11:24:41				1124	10.28482	1.1911488	4.5267	1.4652	2.24664	9.73206
11:24:41				1125	10.27905	1.1911488	4.5267	1.4652	1.9536	9.7336
11:24:42				1126	10.27809	1.1909879	4.5267	1.51404	1.85592	9.73244
11:24:42				1127	10.27713	1.1917926	4.5267	1.4652	2.1978	9.7398
11:24:43				1128	10.27521	1.1916316	4.5267	1.4652	2.6862	9.7389
11:24:43				1129	10.27329	1.1916316	4.5267	1.51404	2.1978	9.73941
11:24:44				1130	10.27232	1.1916316	4.5267	1.4652	1.80708	9.73967
11:24:44				1131	10.2704	1.1938835	4.5267	1.51404	2.14896	9.76007
11:24:45				1132	10.27136	1.1924365	4.5267	1.4652	2.34432	9.74703
11:24:45				1133	10.27425	1.1922755	4.5267	1.51404	2.1978	9.74484
11:24:46				1134	10.27425	1.1925975	4.5267	1.51404	1.85592	9.74768
11:24:46				1135	10.27425	1.1927585	4.5267	1.51404	2.00244	9.74911
11:24:47				1136	10.27425	1.1924365	4.4283	1.51404	2.00244	9.74628
11:24:47				1137	10.27232	1.1916316	4.5267	1.4652	2.05128	9.73967
11:24:48				1138	10.27136	1.1913098	4.5267	1.51404	1.90476	9.73708
11:24:48				1139	10.26848	1.1913098	4.5267	1.51404	1.7094	9.73785
11:24:49				1140	10.2704	1.1913098	4.5267	1.4652	2.29548	9.73734
11:24:49				1141	10.2704	1.1914707	4.5267	1.51404	1.85592	9.73876
11:24:50				1142	10.26752	1.1913098	4.5267	1.51404	1.90476	9.73811
11:24:50				1143	10.26656	1.1914707	4.5267	1.51404	1.7094	9.73979
11:24:51				1144	10.26752	1.1913098	4.5267	1.4652	1.75824	9.73811
11:24:51				1145	10.26752	1.1911489	4.5267	1.51404	2.14896	9.73669
11:24:52				1146	10.26848	1.1921145	4.4283	1.56288	2.1978	9.74497
11:24:52				1147	10.26848	1.1921145	4.5267	1.51404	1.9536	9.74496
11:24:53				1148	10.26944	1.1917926	4.5267	1.4652	2.49084	9.74186
11:24:53				1149	10.26848	1.1916317	4.5267	1.4652	2.442	9.74069
11:24:54				1150	10.26848	1.1914707	4.5267	1.51404	2.24664	9.73927

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:54				1151	10.26848	1.1917926	4.4283	1.51404	1.85592	9.74213
11:24:55				1152	10.26752	1.1935614	4.5267	1.4652	2.05128	9.758
11:24:55				1153	10.26656	1.1934026	4.5267	1.51404	1.85592	9.75685
11:24:56				1154	10.26848	1.1925975	4.5267	1.4652	1.80708	9.74923
11:24:56				1155	10.26752	1.1927585	4.5267	1.51404	1.75824	9.75091
11:24:57				1156	10.26848	1.1946889	4.5267	1.4652	1.80708	9.7677
11:24:57				1157	10.27136	1.1956534	4.5267	1.4652	1.75824	9.77545
11:24:58				1158	10.26752	1.1953311	4.5267	1.51404	1.90476	9.77364
11:24:58				1159	10.26752	1.1956534	4.5267	1.51404	1.85592	9.77648
11:24:59				1160	10.26848	1.1935614	4.5267	1.4652	2.00244	9.75774
11:24:59				1161	10.26944	1.1927585	4.5267	1.41636	2.1978	9.75039
11:25:00				1162	10.26656	1.1927585	4.5267	1.51404	1.9536	9.75116
11:25:00				1163	10.2656	1.1927585	4.5267	1.51404	1.85592	9.75142
11:25:01				1164	10.26656	1.1922755	4.5267	1.4652	1.90476	9.7469
11:25:01				1165	10.26752	1.1922755	4.5267	1.4652	1.75824	9.74664
11:25:02				1166	10.26752	1.1942056	4.5267	1.4652	1.9536	9.76369
11:25:02				1167	10.26752	1.1943667	4.5267	1.51404	2.10012	9.76511
11:25:03				1168	10.26752	1.1934025	4.5267	1.4652	1.80708	9.7566
11:25:03				1169	10.2656	1.1930805	4.5267	1.4652	1.90476	9.75427
11:25:04				1170	10.2656	1.1938835	4.5267	1.4652	2.10012	9.76136
11:25:04				1171	10.2656	1.1930805	4.5267	1.4652	2.05128	9.75427
11:25:05				1172	10.26656	1.1929195	4.5267	1.51404	1.9536	9.75259
11:25:05				1173	10.26752	1.1922755	4.5267	1.4652	1.9536	9.74664
11:25:06				1174	10.26944	1.1927585	4.5267	1.4652	1.90476	9.75039
11:25:06				1175	10.26848	1.1935614	4.5267	1.51404	1.85592	9.75774
11:25:07				1176	10.26944	1.1930805	4.5267	1.4652	2.14896	9.75324
11:25:07				1177	10.27617	1.1929194	4.5267	1.4652	1.9536	9.75001
11:25:08				1178	10.27713	1.1924365	4.5267	1.4652	1.90476	9.74549
11:25:08				1179	10.27713	1.1930805	4.5267	1.51404	1.90476	9.75118
11:25:09				1180	10.27809	1.1937224	4.5267	1.51404	1.9536	9.75659
11:25:09				1181	10.28001	1.1934025	4.5267	1.4652	1.90476	9.75325
11:25:10				1182	10.27809	1.1929194	4.5267	1.51404	1.80708	9.7495
11:25:10				1183	10.27425	1.1927585	4.5267	1.4652	1.9536	9.74911
11:25:11				1184	10.26944	1.1958146	4.5267	1.51404	1.85592	9.77739
11:25:11				1185	10.26944	1.1935614	4.5267	1.4652	2.00244	9.75748
11:25:12				1186	10.2704	1.1934025	4.5267	1.4652	1.80708	9.75582
11:25:12				1187	10.27521	1.1950111	4.5267	1.51404	2.00244	9.76875
11:25:13				1188	10.28001	1.1959757	4.3299	1.56288	2.00244	9.77601
11:25:13				1189	10.27521	1.1953311	4.5267	1.4652	1.9536	9.77157
11:25:14				1190	10.27425	1.1946889	4.5267	1.4652	1.9536	9.76616
11:25:14				1191	10.27329	1.1969406	4.4283	1.51404	2.00244	9.78633
11:25:15				1192	10.27425	1.1961369	4.5267	1.51404	2.58852	9.77895
11:25:15				1193	10.27425	1.1962958	4.5267	1.4652	1.90476	9.78036
11:25:16				1194	10.27425	1.1977446	4.5267	1.4652	1.90476	9.79316
11:25:16				1195	10.27521	1.1972609	4.5267	1.4652	1.80708	9.78862

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:17				1196	10.27617	1.1967794	4.5267	1.51404	1.85592	9.78411
11:25:17				1197	10.27809	1.1972608	4.5267	1.4652	2.1978	9.78785
11:25:18				1198	10.27809	1.1975833	4.6251	1.4652	1.7094	9.79069
11:25:18				1199	10.28001	1.1985487	4.5267	1.51404	1.66056	9.79871
11:25:19				1200	10.28097	1.19871	4.5267	1.4652	2.14896	9.79988
11:25:19				1201	10.2829	1.1975833	4.5267	1.51404	2.10012	9.78941
11:25:20				1202	10.28674	1.1979058	4.5267	1.41636	1.80708	9.79122
11:25:20				1203	10.28866	1.1991917	4.5267	1.51404	1.80708	9.80207
11:25:21				1204	10.28386	1.1995144	4.5267	1.51404	2.05128	9.80621
11:25:22				1207	10.28578	1.1998327	4.5267	1.4652	2.24664	9.80851
11:25:23				1208	10.2877	1.2001554	4.5267	1.51404	1.75824	9.81084
11:25:23				1209	10.28962	1.1995122	4.5267	1.4652	1.75824	9.80464
11:25:24				1210	10.28866	1.1990282	4.5267	1.4652	1.85592	9.80062
11:25:24				1211	10.28578	1.1985465	4.5267	1.51404	1.80708	9.79714
11:25:25				1212	10.28386	1.1987078	4.5267	1.4652	1.80708	9.79908
11:25:25				1213	10.2829	1.1987078	4.5267	1.51404	2.58852	9.79934
11:25:26				1214	10.28194	1.1983852	4.5267	1.4652	1.80708	9.79675
11:25:26				1215	10.28194	1.1980649	4.5267	1.4652	1.7094	9.79392
11:25:27				1216	10.2829	1.1980649	4.5267	1.51404	2.24664	9.79366
11:25:27				1217	10.28097	1.1987078	4.4283	1.51404	2.14896	9.79987
11:25:28				1218	10.27809	1.198224	4.5267	1.4652	2.10012	9.79636
11:25:28				1219	10.27617	1.1979036	4.5267	1.4652	1.85592	9.79405
11:25:29				1220	10.27329	1.1985465	4.5267	1.51404	1.66056	9.8005
11:25:29				1221	10.2704	1.1993509	4.5267	1.51404	1.90476	9.80839
11:25:30				1222	10.27232	1.1988692	4.5267	1.4652	1.85592	9.80361
11:25:30				1223	10.27232	1.1980649	4.5267	1.4652	1.7094	9.7965
11:25:31				1224	10.27136	1.1980649	4.5267	1.51404	1.66056	9.79676
11:25:31				1225	10.2704	1.1977424	4.5267	1.51404	1.66056	9.79417
11:25:32				1226	10.26848	1.1969384	4.5267	1.4652	2.1978	9.78758
11:25:32				1227	10.26752	1.1964548	4.5267	1.4652	2.34432	9.78357
11:25:33				1228	10.26656	1.1959735	4.5267	1.51404	1.80708	9.77957
11:25:33				1229	10.26271	1.1961347	4.5267	1.4652	1.7094	9.78203
11:25:34				1230	10.25983	1.1959735	4.4283	1.4652	1.75824	9.78139
11:25:34				1231	10.26079	1.1946867	4.5267	1.4652	1.7094	9.76975
11:25:35				1232	10.25887	1.1948478	4.5267	1.51404	1.75824	9.77169
11:25:35				1233	10.25694	1.1959736	4.5267	1.4652	1.75824	9.78215
11:25:36				1234	10.25694	1.1948478	4.5267	1.4652	1.80708	9.7722
11:25:36				1235	10.2579	1.1948478	4.5267	1.51404	1.80708	9.77194
11:25:37				1236	10.25887	1.1977424	4.5267	1.4652	1.75824	9.79727
11:25:37				1237	10.26175	1.1995123	4.5267	1.51404	1.75824	9.81214
11:25:38				1238	10.26271	1.1972609	4.5267	1.4652	1.80708	9.79198
11:25:38				1239	10.26175	1.1977424	4.5267	1.4652	1.7094	9.7965
11:25:39				1240	10.26463	1.198224	4.5267	1.51404	2.00244	9.79998
11:25:39				1241	10.26656	1.1991896	4.5267	1.51404	2.14896	9.808
11:25:40				1242	10.26463	1.1990283	4.5267	1.4652	2.14896	9.80709

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:40				1243	10.26463	1.1972609	4.5267	1.4652	2.29548	9.79147
11:25:41				1244	10.2656	1.1970997	4.5267	1.51404	1.90476	9.78978
11:25:41				1245	10.26463	1.1970997	4.5267	1.51404	1.80708	9.79004
11:25:42				1246	10.26656	1.198224	4.5267	1.4652	1.85592	9.79946
11:25:42				1247	10.26656	1.1974199	4.5267	1.4652	1.90476	9.79235
11:25:43				1248	10.26848	1.1975812	4.5267	1.4652	1.85592	9.79326
11:25:43	11:24:28 end transect	5.0	270	1249	10.26752	1.1974199	4.5267	1.51404	2.05128	9.7921
11:25:44				1250	10.26656	1.196616	4.5267	1.4652	2.05128	9.78525
11:25:44				1251	10.2656	1.1969385	4.5267	1.51404	2.39316	9.78836
11:25:45				1252	10.2656	1.1969385	4.5267	1.51404	2.05128	9.78836
11:25:45				1253	10.26656	1.1950089	4.5267	1.4652	2.05128	9.77105
11:25:46				1254	10.26656	1.1945256	4.5267	1.4652	1.80708	9.76678
11:25:46				1255	10.2656	1.1958124	4.5267	1.4652	2.10012	9.77841
11:25:47				1256	10.26656	1.1948478	4.5267	1.51404	2.05128	9.76962
11:25:47				1257	10.26463	1.1940424	4.5267	1.51404	1.85592	9.76302
11:25:48				1258	10.2656	1.1951678	4.5267	1.51404	1.9536	9.77271
11:25:48				1259	10.2656	1.1943645	4.5267	1.4652	1.9536	9.76561
11:25:49				1260	10.26752	1.1937202	4.3299	1.4652	2.24664	9.75943
11:25:49				1261	10.26656	1.1932393	4.2315	1.51404	2.39316	9.75545
11:25:50				1262	10.26463	1.1916294	4.0348	1.4652	2.10012	9.74177
11:25:50				1263	10.26367	1.1897009	3.9364	1.4652	2.10012	9.72501
11:25:51				1264	10.26367	1.1897008	3.7396	1.51404	2.05128	9.72504
11:25:51				1265	10.26367	1.1888967	3.7396	1.51404	2.29548	9.71793
11:25:52				1266	10.25983	1.1826227	3.7396	1.4652	2.10012	9.66355
11:25:52				1267	10.25598	1.1866441	3.7396	1.41636	1.90476	9.70008
11:25:53				1268	10.25694	1.1771555	3.5428	1.51404	2.00244	9.61608
11:25:53				1269	10.25496	1.1510996	3.3461	1.51404	2.05128	9.38689
11:25:54				1270	10.25598	1.1301944	3.0509	1.4652	2.1978	9.2027
11:25:54				1271	10.25496	1.1369484	2.7558	1.4652	2.1978	9.2624
11:25:55				1272	10.24823	1.118617	2.559	1.4652	2.34432	9.10296
11:25:55				1273	10.24919	1.1110592	2.4606	1.51404	2.34432	9.03636
11:25:56				1274	10.24054	1.0795458	2.2639	1.4652	2.442	8.76217
11:25:56				1275	10.21457	1.0774572	1.8703	1.4652	2.53968	8.75017
11:25:57				1276	10.18179	1.0510919	1.6736	1.51404	2.73504	8.52712
11:25:57				1277	10.18179	1.0276229	1.5752	1.51404	2.78388	8.32199
11:25:58				1278	10.1712	0.9969237	1.3784	1.4652	2.88156	8.05669
11:25:58				1279	10.10758	0.961408	1.1817	1.4652	2.97924	7.76147
11:25:59				1280	10.10469	0.9858351	0.9849	1.51404	3.95604	7.97478
11:25:59				1281	10.1018	0.9657459	0.9849	1.51404	5.32357	7.80046
11:26:00				1282	10.10372	0.9716926	0.9849	1.4652	5.47009	7.8518
11:26:00				1283	10.10469	0.5433768	0.8865	1.4652	5.32357	4.20897
11:26:01				1284	10.012	0.5945399	0.7881	1.4652	6.59341	4.64576
11:26:01				1285	9.85435	0.6603189	0.7881	1.51404	5.61661	5.22067
11:26:02				1286	9.88922	0.6867969	0.6898	1.4652	7.42369	5.44008
11:26:02				1287	9.89405	0.6840682	0.5914	1.51404	7.42369	5.4162

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:26:03				1288	9.89309	0.1640991	0.5914	1.51404	3.95604	1.19039
11:26:03				1289	9.89405	0.1186819	0.5914	1.4652	3.61416	0.84726
11:26:04				1290	9.89599	0.2346574	0.6898	0	0	1.73514
11:26:04				1291	9.89695	0.3606668	0.6898	0	0	2.73557
11:26:05				1292	9.89309	0.392546	0.6898	0	0	2.99358
11:26:05				1293	9.88729	0.6280672	0.6898	0	0	4.94361
11:26:06				1294	9.88825	0.632881	0.6898	0	0	4.98405
11:26:06	11:24:56 switch off	5.0	270	1295	9.88535	0.6431491	0.6898	0	0	5.07108
11:30:33	11:29:15 switch on	2.5	270	7	9.6285	0.427403	0.7881	0	0	3.30124
11:30:34				8	9.62365	0.4304486	0.9849	0	0	3.32673
11:30:34				9	9.62171	0.4334949	1.0833	0	0	3.35198
11:30:35				10	9.62268	0.4415094	1.0833	0	0	3.41794
11:30:35				11	9.62753	0.4418285	1.1817	0	0	3.4201
11:30:36				12	9.63821	0.444714	1.1817	0	0	3.44289
11:30:36				13	9.64603	0.4496829	1.2801	0	0	3.48313
11:30:37				14	9.647	0.451127	1.2801	0	0	3.49495
11:30:37				15	9.647	0.4514462	1.3784	0	0	3.49758
11:30:38				16	9.65379	0.4495235	1.3784	0	0	3.48106
11:30:38				17	9.65185	0.4578586	1.3784	0	0	3.55008
11:30:39				18	9.65476	0.4544935	1.3784	0	0	3.52199
11:30:39				19	9.65282	0.4544935	1.3784	0	0	3.52218
11:30:40				20	9.65864	0.4540122	1.3784	0	0	3.51764
11:30:40				21	9.66155	0.4538523	1.3784	0	0	3.51604
11:30:41				22	9.65573	0.4557751	1.3784	0	0	3.53248
11:30:41				23	9.65282	0.4540122	1.3784	0	0	3.51821
11:30:42				24	9.65573	0.4538523	1.3784	0	0	3.5166
11:30:42				25	9.64894	0.451127	1.3784	0	0	3.49476
11:30:43				26	9.64991	0.4490419	1.3784	0	0	3.47746
11:30:43				27	9.65476	0.4508061	1.3784	0	0	3.49155
11:30:44				28	9.65379	0.4503242	1.3784	0	0	3.48767
11:30:44				29	9.65282	0.4480808	1.3784	0	0	3.46925
11:30:45				30	9.65282	0.4475997	1.3784	0	0	3.46528
11:30:45				31	9.65185	0.4496829	1.3784	0	0	3.48256
11:30:46				32	9.65088	0.4485621	1.3784	0	0	3.47341
11:30:46				33	9.64894	0.4477606	1.3784	0	0	3.46698
11:30:47				34	9.64991	0.4479199	1.3784	0	0	3.4682
11:30:47				35	9.64991	0.4493624	1.3784	0	0	3.4801
11:30:48				36	9.65088	0.4480808	1.3784	0	0	3.46944
11:30:48				37	9.65088	0.4475997	1.3784	0	0	3.46547
11:30:49				38	9.64894	0.4485621	1.3784	0	0	3.47359
11:30:49				39	9.65088	0.4490419	1.3784	0	0	3.47737
11:30:50				40	9.65088	0.4479199	1.3784	0	0	3.46811
11:30:50				41	9.647	0.4480808	1.3784	0	0	3.46981
11:30:51				42	9.647	0.4490419	1.4768	0	0	3.47773

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:30:51				43	9.64797	0.449203	1.3784	0	0	3.47898
11:30:52				44	9.65185	0.4488825	1.3784	0	0	3.47596
11:30:52				45	9.65088	0.4487215	1.3784	0	0	3.47472
11:30:53				46	9.64894	0.449203	1.3784	0	0	3.47888
11:30:53				47	9.64991	0.449203	1.3784	0	0	3.47879
11:30:54				48	9.64991	0.4501647	1.3784	0	0	3.48673
11:30:54				49	9.647	0.4495235	1.4768	0	0	3.48171
11:30:55				50	9.64894	0.4493624	1.3784	0	0	3.4802
11:30:55				51	9.64506	0.4504854	1.3784	0	0	3.48984
11:30:56				52	9.64312	0.4509657	1.3784	0	0	3.49399
11:30:56				53	9.63724	0.4500036	1.3784	0	0	3.48662
11:30:57				54	9.62753	0.4498441	1.3784	0	0	3.48624
11:30:57				55	9.62753	0.4520882	1.3784	0	0	3.50477
11:30:58				56	9.63141	0.4530499	1.3784	0	0	3.51234
11:30:58				57	9.62559	0.4501647	1.3784	0	0	3.48907
11:30:59				58	9.62365	0.4509658	1.3784	0	0	3.49588
11:30:59				59	9.63044	0.4551334	1.3784	0	0	3.52965
11:31:00				60	9.63335	0.4551334	1.3784	0	0	3.52937
11:31:00				61	9.6353	0.4520882	1.3784	0	0	3.50402
11:31:01				62	9.64118	0.4532097	1.3784	0	0	3.51271
11:31:01				63	9.64312	0.4568974	1.3784	0	0	3.54299
11:31:02				64	9.63627	0.4546535	1.3784	0	0	3.52512
11:31:02				65	9.63724	0.4536908	1.3784	0	0	3.51707
11:31:03				66	9.63724	0.4544936	1.3784	0	0	3.5237
11:31:03				67	9.63627	0.4546535	1.3784	0	0	3.52512
11:31:04				68	9.63918	0.4544935	1.3784	0	0	3.52351
11:31:04				69	9.63918	0.4551334	1.3784	0	0	3.5288
11:31:05				70	9.63918	0.4557751	1.3784	0	0	3.5341
11:31:05				71	9.64021	0.4533712	1.3784	0	0	3.51414
11:31:06				72	9.64118	0.4540122	1.3784	0	0	3.51934
11:31:06				73	9.64021	0.4586601	1.3784	0	0	3.55784
11:31:07				74	9.64215	0.4549734	1.3784	0	0	3.52719
11:31:07				75	9.65282	0.4530499	1.3784	0	0	3.51026
11:31:08				76	9.65476	0.4580189	1.3784	0	0	3.55111
11:31:08				77	9.65088	0.4580189	1.3784	0	0	3.5515
11:31:09				78	9.66446	0.455295	1.3784	0	0	3.52767
11:31:09				79	9.67222	0.4570576	1.3784	0	0	3.54146
11:31:10				80	9.67416	0.4562553	1.3784	0	0	3.53465
11:31:10				81	9.6761	0.4568974	1.3784	0	0	3.53976
11:31:11				82	9.67222	0.4589807	1.3784	0	0	3.55735
11:31:11				83	9.67125	0.4572177	1.3784	0	0	3.54288
11:31:12				84	9.6761	0.4544935	1.3784	0	0	3.51992
11:31:12				85	9.67998	0.4567372	1.3784	0	0	3.53806
11:31:13				86	9.67707	0.4609043	1.3784	0	0	3.57276
11:31:13				87	9.68288	0.4565771	1.3784	0	0	3.53645

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:14				88	9.713	0.454172	1.3784	0	0	3.51368
11:31:14				89	9.71881	0.4631499	1.3784	0	0	3.58718
11:31:15				90	9.7159	0.4807852	1.3784	0	0	3.73329
11:31:15				91	9.75085	0.4557749	1.3784	0	0	3.52321
11:31:16				92	9.76925	0.4750134	1.4768	0	0	3.68008
11:31:16				93	9.76731	0.5412402	1.3784	0	0	4.23038
11:31:17				94	9.77022	0.4785397	1.3784	0	0	3.70913
11:31:17				95	9.79642	0.4721272	1.4768	0	0	3.65351
11:31:18				96	9.81094	0.555355	1.3784	0	0	4.34312
11:31:18				97	9.80319	0.5726776	1.3784	0	0	4.48904
11:31:19				98	9.81965	0.5476558	1.3784	0	0	4.27779
11:31:19				99	9.84389	0.7423134	1.4768	0.63492	0.29304	5.92036
11:31:20				100	9.83615	0.7179109	1.3784	0.39072	0.09768	5.71305
11:31:20				101	9.83422	0.7888815	1.3784	1.51404	1.02564	6.32167
11:31:21				102	9.85163	0.7774783	1.3784	1.4652	0.9768	6.2206
11:31:21				103	9.88264	0.746648	1.3784	1.4652	5.71429	5.9511
11:31:22				104	9.86904	0.7800487	1.3784	1.4652	6.20269	6.23968
11:31:22				105	9.86517	0.7519471	1.3784	1.51404	6.00733	5.99933
11:31:23				106	9.87877	0.7665603	1.3784	1.51404	5.95849	6.12227
11:31:23				107	9.88167	0.7641516	1.3784	1.4652	5.76313	6.10113
11:31:24				108	9.87683	0.7797279	1.3784	1.4652	5.95849	6.23559
11:31:24				109	9.87877	0.756764	1.3784	1.51404	6.25153	6.03832
11:31:25				110	9.88167	0.7602977	1.3784	1.4652	6.20269	6.06811
11:31:25				111	9.88167	0.7847053	1.4768	1.51404	6.20269	6.27749
11:31:26				112	9.8836	0.7741059	1.3784	1.4652	6.05617	6.18617
11:31:26				113	9.8865	0.764953	1.3784	1.4652	6.34921	6.10719
11:31:27				114	9.8865	0.7667207	1.3784	1.51404	5.86081	6.12234
11:31:27				115	9.8836	0.7769967	1.3784	1.51404	6.15385	6.21098
11:31:28				116	9.88747	0.7673624	1.3784	1.51404	5.81197	6.12767
11:31:28				117	9.89037	0.7574068	1.3784	1.4652	5.47009	6.04189
11:31:29				118	9.8807	0.7896836	1.3784	1.4652	5.76313	6.32045
11:31:29				119	9.87387	0.7707346	1.3784	1.51404	5.90965	6.1589
11:31:30				120	9.87097	0.7525904	1.3784	1.4652	5.66545	6.00388
11:31:30				121	9.84873	0.7235303	1.3784	1.51404	5.95849	5.75903
11:31:31				122	9.84486	0.7612598	1.3784	1.4652	6.15385	6.08253
11:31:31				123	9.86904	0.698647	1.3784	1.4652	5.95849	5.54379
11:31:32				124	9.87387	0.6917443	1.3784	1.41636	5.86081	5.48436
11:31:33				127	9.84057	0.664957	1.4768	1.4652	5.66545	5.26191
11:31:34				128	9.82509	0.6651175	1.4768	1.4652	5.76313	5.26552
11:31:34				129	9.81444	0.64169	1.3784	1.4652	5.81197	5.06862
11:31:35				130	9.81057	0.642011	1.4768	1.4652	6.00733	5.07187
11:31:35				131	9.80477	0.6352728	1.3784	1.51404	5.95849	5.01571
11:31:36				132	9.79019	0.6201917	1.3784	1.51404	5.76313	4.89032
11:31:36				133	9.79309	0.6250048	1.3784	1.51404	5.95849	4.93056
11:31:37				134	9.78535	0.6129739	1.3784	1.4652	6.10501	4.83008

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:37				135	9.77857	0.6067177	1.3784	1.51404	6.10501	4.77824
11:31:38				136	9.77663	0.6044714	1.3784	1.4652	5.81197	4.75957
11:31:38				137	9.77276	0.5922798	1.3784	1.4652	5.90965	4.65745
11:31:39				138	9.76985	0.578487	1.3784	1.51404	5.71429	4.54192
11:31:39				139	9.76211	0.5791284	1.3784	1.51404	5.76313	4.54828
11:31:40				140	9.74758	0.5834592	1.3784	1.51404	5.76313	4.5865
11:31:40				141	9.7388	0.5709483	1.3784	1.51404	5.90965	4.48251
11:31:41				142	9.73395	0.5703062	1.2801	1.51404	6.10501	4.47773
11:31:41				143	9.7388	0.5619676	1.3784	1.4652	6.00733	4.40719
11:31:42				144	9.73492	0.5598831	1.3784	1.4652	5.76313	4.39018
11:31:42				145	9.72814	0.5606844	1.3784	1.41636	5.66545	4.39773
11:31:43				146	9.70973	0.5358282	1.3784	1.4652	5.81197	4.19188
11:31:43				147	9.7107	0.5441669	1.3784	1.51404	6.44689	4.26148
11:31:44				148	9.70682	0.5451282	1.3784	1.4652	5.95849	4.26998
11:31:44				149	9.70682	0.5196335	1.3784	1.4652	6.15385	4.05705
11:31:45				150	9.70197	0.5096931	1.3784	1.51404	6.15385	3.97479
11:31:45				151	9.69712	0.5284523	1.3784	1.4652	6.00733	4.13172
11:31:46				152	9.69809	0.5286123	1.3784	1.4652	6.10501	4.13294
11:31:46				153	9.69906	0.5189918	1.3784	1.51404	6.20269	4.05257
11:31:47				154	9.69712	0.5076092	1.3784	1.4652	6.15385	3.95797
11:31:47				155	9.69712	0.5117776	1.4768	1.4652	6.15385	3.99267
11:31:48				156	9.69712	0.5161061	1.3784	1.4652	6.34921	4.02873
11:31:48				157	9.69616	0.5128993	1.3784	1.51404	6.15385	4.00212
11:31:49				158	9.69034	0.5031198	1.3784	1.51404	6.10501	3.92136
11:31:49				159	9.68349	0.5000734	1.3784	1.51404	6.34921	3.89677
11:31:50				160	9.67767	0.5061665	1.3784	1.4652	6.00733	3.94809
11:31:50				161	9.68155	0.5055245	1.3784	1.51404	5.95849	3.94232
11:31:51				162	9.68349	0.4954241	1.3784	1.51404	6.15385	3.85812
11:31:51				163	9.68349	0.4968666	1.4768	1.51404	6.05617	3.8701
11:31:52				164	9.67961	0.5008744	1.4768	1.4652	5.61661	3.90384
11:31:52				165	9.68058	0.4991121	1.3784	1.4652	5.71429	3.88909
11:31:53				166	9.68058	0.4928595	1.3784	1.4652	6.05617	3.83713
11:31:53				167	9.6767	0.4941413	1.4768	1.4652	6.34921	3.84818
11:31:54				168	9.67379	0.4914169	1.2801	1.51404	5.90965	3.82587
11:31:54				169	9.67185	0.4910952	1.3784	1.4652	5.95849	3.8234
11:31:55				170	9.67185	0.4909352	1.3784	1.4652	6.10501	3.82207
11:31:55				171	9.67476	0.4906152	1.3784	1.41636	6.00733	3.8191
11:31:56				172	9.6767	0.4907752	1.3784	1.41636	6.00733	3.82023
11:31:56				173	9.67379	0.4933401	1.3784	1.41636	6.59341	3.84184
11:31:57				174	9.6767	0.4930197	1.3784	1.4652	6.25153	3.83887
11:31:57				175	9.67573	0.4939811	1.3784	1.4652	6.10501	3.84696
11:31:58				176	9.67379	0.4943016	1.3784	1.51404	6.15385	3.84983
11:31:58				177	9.67185	0.4930197	1.3784	1.51404	6.20269	3.83938
11:31:59				178	9.66991	0.491737	1.3784	1.51404	5.81197	3.82893
11:31:59				179	9.67088	0.4970271	1.2801	1.51404	6.05617	3.8728

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:00				180	9.66894	0.4965472	1.3784	1.51404	6.10501	3.86901
11:32:00				181	9.67088	0.4947826	1.3784	1.4652	6.15385	3.85414
11:32:01				182	9.66991	0.4943016	1.3784	1.51404	6.20269	3.85024
11:32:01				183	9.66894	0.4944619	1.3784	1.4652	6.44689	3.85168
11:32:02				184	9.66894	0.4955845	1.3784	1.4652	6.44689	3.86101
11:32:02				185	9.67185	0.4949429	1.3784	1.4652	6.59341	3.85536
11:32:03				186	9.67088	0.4947826	1.4768	1.4652	5.76313	3.85413
11:32:03				187	9.66894	0.502479	1.3784	1.4652	5.90965	3.91835
11:32:04				188	9.66894	0.4994319	1.3784	1.4652	6.44689	3.893
11:32:04				189	9.67088	0.5013554	1.3784	1.4652	6.05617	3.90879
11:32:05				190	9.67088	0.5005543	1.3784	1.4652	6.44689	3.90213
11:32:05				191	9.67379	0.4983103	1.3784	1.4652	5.95849	3.88315
11:32:06				192	9.67379	0.5058454	1.3784	1.51404	5.86081	3.94584
11:32:06				193	9.67379	0.5015164	1.3784	1.4652	6.25153	3.90981
11:32:07				194	9.67476	0.5082503	1.3784	1.4652	5.90965	3.96576
11:32:07				195	9.67767	0.50873	1.3784	1.51404	6.05617	3.96944
11:32:08				196	9.68058	0.5071282	1.3784	1.51404	5.86081	3.95578
11:32:08				197	9.68058	0.5302161	1.3784	1.51404	5.90965	4.14834
11:32:09				198	9.68646	0.5614862	1.3784	1.51404	6.00733	4.40953
11:32:09				199	9.70682	0.5411199	1.3784	1.4652	5.95849	4.23645
11:32:10				200	9.69616	0.5648542	1.3784	1.51404	5.86081	4.43661
11:32:10				201	9.69616	0.5695044	1.3784	1.4652	5.61661	4.47567
11:32:11				202	9.701	0.5821757	1.3784	1.4652	5.61661	4.58161
11:32:11				203	9.70682	0.5762415	1.3784	1.41636	5.37241	4.53096
11:32:12				204	9.70488	0.5670988	1.3784	1.4652	5.76313	4.45439
11:32:12				205	9.70585	0.5865062	1.3784	1.4652	5.61661	4.61744
11:32:13				206	9.71651	0.5873081	1.3784	1.4652	6.05617	4.62283
11:32:13	11:30:58 start transect	2.5	270	207	9.7262	0.58426	1.4768	1.4652	6.05617	4.59594
11:32:14				208	9.73395	0.5746364	1.3784	1.51404	5.76313	4.51408
11:32:14				209	9.72329	0.6208343	1.3784	1.4652	5.71429	4.9048
11:32:15				210	9.72233	0.7426368	1.3784	1.4652	5.76313	5.94307
11:32:15				211	9.7388	0.7078049	1.3784	1.4652	5.76313	5.64201
11:32:16				212	9.74855	0.7452044	1.3784	1.51404	6.30037	5.9608
11:32:16				213	9.76307	0.8119972	1.3784	1.51404	6.30037	6.5337
11:32:17				214	9.79115	0.8303029	1.3784	1.51404	5.47009	6.68692
11:32:17				215	9.80089	0.7946535	1.3784	1.4652	5.32357	6.37723
11:32:18				216	9.80961	0.9109376	1.3784	1.4652	5.17705	7.38408
11:32:18				217	9.87351	0.879612	1.3784	1.4652	5.27473	7.09868
11:32:19				218	9.92963	0.8490931	1.3784	1.4652	5.37241	6.82359
11:32:19				219	9.93639	0.8805745	1.3784	1.51404	5.47009	7.09472
11:32:20				220	9.95667	0.8837875	1.3784	1.4652	5.56777	7.11858
11:32:20				221	9.97025	0.8269306	1.3784	1.4652	5.47009	6.6249
11:32:21				222	9.97411	0.7602956	1.4768	1.4652	5.61661	6.05263
11:32:21				223	9.97025	0.8303024	1.3784	1.4652	5.61661	6.65394
11:32:22				224	9.96349	0.7704092	1.3784	1.51404	5.71429	6.14091

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:22				225	9.9586	0.6989783	1.3784	1.4652	5.71429	5.53293
11:32:23				226	9.92866	0.6819662	1.3784	1.4652	6.00733	5.39315
11:32:23				227	9.9132	0.7766706	1.4768	1.4652	5.90965	6.2031
11:32:24				228	9.90058	0.7057183	1.3784	1.51404	5.86081	5.5991
11:32:24				229	9.88898	0.6853366	1.3784	1.4652	5.56777	5.42766
11:32:25				230	9.87931	0.7001016	1.4768	1.4652	5.61661	5.55458
11:32:25				231	9.88028	0.7505016	1.3784	1.51404	5.76313	5.98446
11:32:26				232	9.87641	0.7381416	1.3784	1.4652	5.86081	5.87939
11:32:26				233	9.87738	0.7257815	1.3784	1.41636	5.56777	5.77368
11:32:27				234	9.88028	0.7092487	1.3784	1.4652	5.56777	5.63229
11:32:27				235	9.88221	0.7334863	1.3784	1.51404	5.95849	5.83868
11:32:28				236	9.88125	0.712781	1.3784	1.4652	5.81197	5.66223
11:32:28				237	9.85997	0.679398	1.3784	1.4652	5.86081	5.38158
11:32:29				238	9.82993	0.6753864	1.3784	1.51404	5.42125	5.35197
11:32:29				239	9.82509	0.7302762	1.3784	1.51404	5.42125	5.82044
11:32:30				240	9.83186	0.7301164	1.3784	1.4652	5.12821	5.81799
11:32:30				241	9.82509	0.7355727	1.3784	1.51404	5.27473	5.86575
11:32:31				242	9.81444	0.6766714	1.4768	1.4652	5.56777	5.36517
11:32:31				243	9.80573	0.7338083	1.3784	1.4652	5.32357	5.85378
11:32:32				244	9.81638	0.8086236	1.3784	1.4652	5.95849	6.49496
11:32:33				247	9.83761	0.8451616	1.3784	1.51404	5.61661	6.8069
11:32:34				248	9.88312	0.7993979	1.4768	1.4652	5.32357	6.40356
11:32:34				249	9.89569	0.73631	1.3784	1.4652	5.51893	5.86062
11:32:35				250	9.90245	0.8215564	1.3784	1.51404	5.27473	6.59096
11:32:35				251	9.91212	0.8360089	1.3784	1.4652	5.47009	6.71386
11:32:36				252	9.92087	0.8223598	1.4768	1.4652	5.27473	6.59452
11:32:36				253	9.92087	0.8303878	1.3784	1.4652	5.27473	6.66374
11:32:37				254	9.91888	0.817703	1.4768	1.4652	5.32357	6.55476
11:32:37				255	9.93247	0.8055001	1.3784	1.51404	5.32357	6.44732
11:32:38				256	9.93826	0.7730685	1.3784	1.4652	5.22589	6.16796
11:32:38				257	9.92377	0.6703513	1.3784	1.4652	5.51893	5.2955
11:32:39				258	9.89375	0.6446808	1.3784	1.4652	5.66545	5.08279
11:32:39				259	9.87635	0.6440398	1.4768	1.4652	5.76313	5.0798
11:32:40				260	9.85991	0.6445202	1.3784	1.4652	5.47009	5.08617
11:32:40				261	9.84534	0.6336111	1.3784	1.4652	5.56777	4.99606
11:32:41				262	9.83761	0.6334513	1.3784	1.51404	5.56777	4.99578
11:32:41				263	9.83761	0.652222	1.3784	1.51404	5.47009	5.15447
11:32:42				264	9.83374	0.6530233	1.3784	1.51404	5.22589	5.1618
11:32:42				265	9.8318	0.6682665	1.4768	1.51404	5.61661	5.29126
11:32:43				266	9.8318	0.6953841	1.4768	1.4652	5.95849	5.5217
11:32:43				267	9.8289	0.675486	1.3784	1.51404	5.51893	5.35297
11:32:44				268	9.826	0.7059757	1.3784	1.4652	5.95849	5.61283
11:32:44				269	9.826	0.7452977	1.3784	1.51404	5.95849	5.94885
11:32:45				270	9.8318	0.7234692	1.3784	1.4652	5.22589	5.7612
11:32:45				271	9.83374	0.7042105	1.3784	1.51404	4.98168	5.59659

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:46				272	9.83374	0.7245936	1.3784	1.4652	5.32357	5.7705
11:32:46				273	9.83761	0.7176911	1.3784	1.4652	5.32357	5.71094
11:32:47				274	9.83857	0.6889657	1.3784	1.4652	5.12821	5.46607
11:32:47				275	9.83083	0.6844723	1.3784	1.4652	4.93284	5.42903
11:32:48				276	9.83374	0.6987551	1.3784	1.51404	5.37241	5.55012
11:32:48				277	9.84438	0.6934593	1.3784	1.4652	5.07937	5.50342
11:32:49				278	9.84825	0.6855952	1.3784	1.4652	5.07937	5.43596
11:32:49				279	9.84148	0.6910508	1.3784	1.4652	5.32357	5.48337
11:32:50				280	9.8347	0.6819046	1.3784	1.4652	5.56777	5.40663
11:32:50				281	9.83277	0.6740423	1.3784	1.4652	5.17705	5.34014
11:32:51				282	9.8318	0.675486	1.3784	1.51404	4.83516	5.35254
11:32:51				283	9.8318	0.66249	1.3784	1.51404	5.17705	5.24228
11:32:52				284	9.8318	0.6620091	1.3784	1.4652	5.22589	5.2382
11:32:52				285	9.83083	0.6865585	1.4768	1.4652	5.32357	5.44676
11:32:53				286	9.8289	0.6811033	1.4768	1.4652	5.42125	5.40068
11:32:53				287	9.82696	0.6849545	1.3784	1.51404	5.17705	5.43371
11:32:54				288	9.82309	0.6926556	1.4768	1.4652	5.42125	5.4998
11:32:54				289	9.82503	0.699235	1.3784	1.51404	5.51893	5.55554
11:32:55				290	9.83083	0.7011612	1.4768	1.4652	5.47009	5.57105
11:32:55				291	9.8347	0.7032487	1.3784	1.4652	5.22589	5.58824
11:32:56				292	9.83277	0.7067788	1.3784	1.4652	5.17705	5.61863
11:32:56				293	9.83277	0.7127166	1.3784	1.51404	5.71429	5.66926
11:32:57				294	9.83664	0.7154442	1.3784	1.4652	5.86081	5.69192
11:32:57				295	9.84051	0.7135185	1.3784	1.51404	5.86081	5.67489
11:32:58				296	9.84438	0.718334	1.3784	1.4652	5.17705	5.71536
11:32:58				297	9.84631	0.7226674	1.3784	1.51404	5.47009	5.75204
11:32:59				298	9.85115	0.7311735	1.3784	1.51404	5.03053	5.82393
11:32:59				299	9.85695	0.7505954	1.4768	1.4652	5.12821	5.98911
11:33:00				300	9.86185	0.7337412	1.4768	1.51404	4.93284	5.84413
11:33:00				301	9.85991	0.7480273	1.3784	1.4652	4.6398	5.96664
11:33:01				302	9.86572	0.7624745	1.3784	1.51404	5.17705	6.08944
11:33:01				303	9.86668	0.7478663	1.3784	1.51404	5.37241	5.96415
11:33:02				304	9.87055	0.7534853	1.3784	1.4652	4.83516	6.01161
11:33:02				305	9.86958	0.771143	1.3784	1.51404	4.93284	6.16313
11:33:03				306	9.87828	0.7589431	1.4768	1.4652	4.98168	6.05706
11:33:03				307	9.88602	0.7550903	1.4768	1.51404	5.03053	6.02278
11:33:04				308	9.88795	0.7767617	1.4768	1.4652	4.73748	6.2082
11:33:04				309	9.89085	0.7603862	1.3784	1.4652	4.78632	6.06733
11:33:05				310	9.89762	0.7533239	1.3784	1.51404	4.98168	6.00574
11:33:05				311	9.90148	0.7491508	1.3784	1.4652	4.73748	5.96941
11:33:06				312	9.90632	0.7597444	1.4768	1.4652	4.68864	6.05924
11:33:06				313	9.90438	0.7843059	1.3784	1.51404	4.98168	6.27014
11:33:07				314	9.90245	0.7616701	1.3784	1.4652	4.6398	6.07638
11:33:07				315	9.90052	0.7672888	1.3784	1.51404	4.24908	6.12484
11:33:08				316	9.90342	0.8040541	1.3784	1.41636	4.1514	6.44004

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:08				317	9.91018	0.8085504	1.3784	1.4652	4.44444	6.47753
11:33:09				318	9.91405	0.8043762	1.3784	1.51404	4.24908	6.44092
11:33:09				319	9.91598	0.8273372	1.3784	1.4652	4.24908	6.63833
11:33:10				320	9.92184	0.8368113	1.4768	1.51404	4.24908	6.71898
11:33:10				321	9.92667	0.8273372	1.4768	1.4652	4.1514	6.63636
11:33:11				322	9.92474	0.817381	1.4768	1.4652	4.10256	6.55093
11:33:11				323	9.92957	0.8268553	1.3784	1.51404	4.24908	6.63169
11:33:12				324	9.93343	0.8217166	1.3784	1.4652	4.49328	6.58671
11:33:12				325	9.93536	0.8221995	1.4768	1.4652	4.49328	6.59051
11:33:13				326	9.93247	0.834564	1.4768	1.4652	4.49328	6.69762
11:33:13				327	9.92957	0.8352048	1.4768	1.4652	4.34676	6.70368
11:33:14				328	9.92764	0.818185	1.3784	1.4652	4.59096	6.55734
11:33:14				329	9.92474	0.8287817	1.3784	1.51404	4.59096	6.64918
11:33:15				330	9.91985	0.8268553	1.3784	1.4652	4.59096	6.63347
11:33:15				331	9.91888	0.8061409	1.4768	1.4652	4.78632	6.45523
11:33:16				332	9.91791	0.7945825	1.3784	1.51404	4.78632	6.35604
11:33:16				333	9.91791	0.7843059	1.4768	1.51404	4.6398	6.26779
11:33:17				334	9.91501	0.7855916	1.3784	1.4652	5.51893	6.27934
11:33:17				335	9.91501	0.7921737	1.3784	1.51404	5.07937	6.33586
11:33:18				336	9.91212	0.7841461	1.3784	1.4652	5.42125	6.26743
11:33:18				337	9.90728	0.7814175	1.3784	1.4652	5.12821	6.24485
11:33:19				338	9.90148	0.7546077	1.3784	1.51404	5.42125	6.01609
11:33:19				339	9.89472	0.7265194	1.3784	1.4652	5.42125	5.77722
11:33:20				340	9.88409	0.730211	1.3784	1.4652	5.07937	5.81042
11:33:20				341	9.87635	0.7382348	1.3784	1.51404	4.98168	5.8802
11:33:21				342	9.87055	0.7204191	1.3784	1.51404	5.42125	5.72902
11:33:21				343	9.86958	0.6828679	1.3784	1.4652	5.71429	5.40961
11:33:22				344	9.87055	0.7016433	1.4768	1.4652	5.22589	5.56904
11:33:22				345	9.86862	0.7072603	1.3784	1.51404	5.42125	5.61717
11:33:23				346	9.86668	0.6913719	1.3784	1.51404	5.42125	5.48228
11:33:23				347	9.86088	0.6817446	1.3784	1.41636	5.07937	5.40137
11:33:24				348	9.85308	0.6628105	1.3784	1.4652	5.71429	5.24191
11:33:24				349	9.85212	0.6512597	1.3784	1.51404	5.42125	5.14426
11:33:25				350	9.85308	0.6520607	1.3784	1.51404	5.32357	5.1509
11:33:25				351	9.85405	0.6648974	1.3784	1.4652	5.32357	5.25946
11:33:26				352	9.85018	0.6453222	1.3784	1.4652	5.66545	5.09432
11:33:26				353	9.84534	0.6393872	1.4768	1.51404	5.51893	5.04483
11:33:27				354	9.84244	0.6377828	1.3784	1.4652	5.17705	5.03169
11:33:27				355	9.83857	0.647408	1.3784	1.4652	5.03053	5.11359
11:33:28				356	9.83761	0.6283172	1.3784	1.4652	5.61661	4.95244
11:33:28				357	9.8347	0.6244688	1.3784	1.51404	5.71429	4.92037
11:33:29				358	9.83083	0.6304037	1.3784	1.4652	5.07937	4.97098
11:33:29				359	9.8289	0.6103517	1.4768	1.4652	5.17705	4.80219
11:33:30				360	9.82793	0.6000858	1.3784	1.51404	5.56777	4.71595
11:33:30				361	9.81825	0.6151645	1.4768	1.51404	5.32357	4.84414

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:31				362	9.80858	0.6101919	1.3784	1.4652	5.37241	4.80354
11:33:31				363	9.80858	0.596397	1.3784	1.4652	5.66545	4.68745
11:33:32				364	9.80374	0.5992839	1.4768	1.4652	5.27473	4.71235
11:33:33				367	9.79593	0.6062479	1.3784	1.4652	5.37241	4.772
11:33:34				368	9.79109	0.5905278	1.3784	1.4652	5.81197	4.64037
11:33:34				369	9.78522	0.5716009	1.4768	1.51404	5.56777	4.48223
11:33:35				370	9.78232	0.5926123	1.4768	1.4652	5.66545	4.65901
11:33:35				371	9.78038	0.5932548	1.4768	1.4652	5.47009	4.66466
11:33:36				372	9.78135	0.5505907	1.4768	1.4652	5.95849	4.30683
11:33:36				373	9.77748	0.5590905	1.3784	1.51404	6.30037	4.37839
11:33:37				374	9.77457	0.5672706	1.3784	1.51404	6.25153	4.44725
11:33:37				375	9.77748	0.595982	1.3784	1.4652	5.86081	4.68799
11:33:38				376	9.78135	0.5618167	1.3784	1.4652	5.71429	4.40074
11:33:38				377	9.77845	0.5225297	1.3784	1.51404	5.86081	4.07313
11:33:39				378	9.77651	0.523171	1.4768	1.51404	5.81197	4.07868
11:33:39				379	9.76973	0.5117859	1.4768	1.4652	5.86081	3.98474
11:33:40				380	9.75036	0.5457806	1.3784	1.51404	6.05617	4.2703
11:33:40				381	9.73383	0.5448173	1.4768	1.4652	5.90965	4.26419
11:33:41				382	9.70864	0.5173978	1.3784	1.4652	5.90965	4.03821
11:33:41				383	9.66882	0.5122683	1.4768	1.51404	5.86081	3.99988
11:33:42				384	9.66591	0.5156346	1.3784	1.4652	5.61661	4.02828
11:33:42				385	9.66785	0.5191628	1.3784	1.51404	5.81197	4.05749
11:33:43				386	9.66009	0.5085801	1.4768	1.4652	5.71429	3.97011
11:33:43	11:32:28 end transect	2.5	90	387	9.65912	0.5058538	1.3784	1.4652	5.86081	3.94751
11:33:44				388	9.65233	0.5024873	1.4768	1.51404	5.86081	3.92021
11:33:44				389	9.64457	0.5000834	1.4768	1.51404	5.90965	3.90104
11:33:45				390	9.64457	0.4981596	1.4768	1.4652	5.76313	3.88503
11:33:45				391	9.64554	0.5000834	1.4768	1.4652	5.71429	3.90094
11:33:46				392	9.64748	0.5234919	1.4768	1.4652	5.66545	4.09593
11:33:46				393	9.65233	0.5129094	1.5752	1.4652	5.86081	4.00705
11:33:47				394	9.65427	0.5345559	1.5752	1.51404	5.81197	4.18765
11:33:47				395	9.67076	0.5833103	1.5752	1.51404	5.81197	4.59498
11:33:48				396	9.69603	0.6556628	1.6736	1.4652	6.15385	5.2039
11:33:48				397	9.74455	0.6104186	1.5752	1.51404	5.86081	4.81395
11:33:49				398	9.74649	0.6516523	1.8703	1.4652	5.17705	5.16258
11:33:49				399	9.76586	0.7543715	1.8703	1.51404	5.27473	6.03659
11:33:50				400	9.80271	0.7709068	1.9687	1.51404	5.37241	6.17244
11:33:50				401	9.85308	0.8041444	2.0671	1.4652	4.98168	6.44971
11:33:51				402	9.88693	0.7935459	2.0671	1.4652	4.6398	6.3525
11:33:51				403	9.90922	0.8939281	2.2639	1.4652	4.20024	7.21584
11:33:52				404	9.9411	0.9247735	2.2639	1.4652	4.20024	7.47757
11:33:52				405	9.99137	0.8934449	2.3623	1.51404	4.10256	7.19531
11:33:53				406	10.01363	0.8577842	2.4606	1.51404	3.51648	6.88265
11:33:53				407	10.02038	0.8857343	2.559	1.4652	3.32112	7.12281
11:33:54				408	10.01652	0.9233277	2.4606	1.4652	3.51648	7.44946

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:54				409	10.02134	0.9075822	2.559	1.4652	3.56532	7.31184
11:33:55				410	10.01556	0.8964969	2.4606	1.4652	3.22344	7.21694
11:33:55				411	9.98558	0.8866974	2.559	1.51404	3.4188	7.13798
11:33:56				412	9.95951	0.8786672	2.4606	1.4652	3.51648	7.07356
11:33:56				413	9.9711	0.9009953	2.4606	1.51404	3.51648	7.26481
11:33:57				414	9.98847	0.9173829	2.559	1.51404	3.4188	7.40355
11:33:57				415	9.99716	0.9226847	2.559	1.4652	3.36996	7.44784
11:33:58				416	10.01073	0.9276649	2.559	1.4652	3.663	7.48832
11:33:58				417	10.0281	0.9262197	2.4606	1.51404	3.46764	7.4722
11:33:59				418	10.02906	0.935698	2.559	1.4652	3.71184	7.55434
11:33:59				419	10.0416	0.9352174	2.4606	1.51404	3.71184	7.54757
11:34:00				420	10.0416	0.9348964	2.559	1.51404	3.46764	7.54477
11:34:00				421	10.03678	0.9326464	2.559	1.51404	3.27228	7.52622
11:34:01				422	10.04353	0.9189896	2.559	1.4652	3.51648	7.40627
11:34:01	11:32:46 start transect	2.5	90	423	10.04642	0.9303962	2.4606	1.4652	3.4188	7.50469
11:34:02				424	10.05317	0.9287904	2.559	1.4652	3.36996	7.48934
11:34:02				425	10.05414	0.9263806	2.4606	1.4652	3.32112	7.46824
11:34:03				426	10.0551	0.9334492	2.559	1.4652	3.1746	7.52939
11:34:03				427	10.0551	0.9318436	2.559	1.51404	3.32112	7.51545
11:34:04				428	10.05414	0.9390724	2.559	1.51404	3.32112	7.57844
11:34:04				429	10.05414	0.9419654	2.559	1.4652	3.56532	7.60358
11:34:05				430	10.05896	0.943251	2.559	1.4652	3.22344	7.61375
11:34:05				431	10.05992	0.9418055	2.559	1.51404	3.4188	7.60098
11:34:06				432	10.06384	0.9395557	2.4606	1.41636	3.46764	7.58063
11:34:06				433	10.0677	0.9368229	2.4606	1.51404	3.07692	7.55609
11:34:07				434	10.06577	0.9305574	2.559	1.4652	3.07692	7.50208
11:34:07				435	10.06384	0.9406803	2.4606	1.51404	3.22344	7.5904
11:34:08				436	10.06963	0.9451795	2.559	1.51404	3.07692	7.62827
11:34:08				437	10.06577	0.9312004	2.559	1.51404	3.02808	7.50766
11:34:09				438	10.05992	0.931521	2.559	1.51404	3.12576	7.51165
11:34:09				439	10.05607	0.9419654	2.559	1.4652	3.27228	7.60318
11:34:10				440	10.058	0.943251	2.4606	1.4652	3.12576	7.61396
11:34:10				441	10.06089	0.9440551	2.559	1.4652	3.12576	7.62033
11:34:11				442	10.05992	0.9263806	2.4606	1.4652	3.02808	7.46705
11:34:11				443	10.06089	0.9303962	2.4606	1.4652	3.1746	7.5017
11:34:12				444	10.0677	0.9536944	2.4606	1.51404	3.27228	7.70272
11:34:12				445	10.07445	0.9466249	2.559	1.51404	3.12576	7.63982
11:34:13				446	10.07348	0.9369845	2.559	1.4652	2.97924	7.55628
11:34:13				447	10.06481	0.9426071	2.4606	1.51404	3.12576	7.60694
11:34:14				448	10.0783	0.9652642	2.4606	1.51404	3.12576	7.80114
11:34:14				449	10.0918	0.9634967	2.559	1.4652	3.02808	7.78285
11:34:15				450	10.09469	0.9488744	2.559	1.4652	2.9304	7.65511
11:34:15				451	10.0783	0.946785	2.4606	1.51404	2.97924	7.64041
11:34:16				452	10.07252	0.9498386	2.559	1.41636	3.07692	7.66816
11:34:16				453	10.07348	0.9588366	2.559	1.4652	2.97924	7.74622

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:17				454	10.0783	0.9544995	2.559	1.4652	3.02808	7.70746
11:34:17				455	10.07734	0.9516053	2.4606	1.4652	2.97924	7.68251
11:34:18				456	10.07541	0.9525704	2.559	1.4652	2.97924	7.6913
11:34:18				457	10.07541	0.9598022	2.559	1.51404	3.1746	7.75421
11:34:19				458	10.07541	0.9557851	2.559	1.51404	3.02808	7.71926
11:34:19				459	10.07541	0.9536944	2.559	1.51404	2.83272	7.70108
11:34:20				460	10.07445	0.9540156	2.559	1.4652	2.6862	7.70407
11:34:20				461	10.07348	0.950803	2.559	1.51404	2.73504	7.67634
11:34:21				462	10.07637	0.9498385	2.4606	1.4652	2.88156	7.66736
11:34:21				463	10.0783	0.9527309	2.559	1.51404	3.07692	7.69208
11:34:22				464	10.08023	0.9524098	2.559	1.4652	2.88156	7.68888
11:34:22				465	10.0783	0.9519283	2.4606	1.4652	2.9304	7.68512
11:34:23				466	10.0783	0.9517678	2.559	1.4652	2.83272	7.68371
11:34:23				467	10.07637	0.9501593	2.559	1.4652	2.9304	7.67013
11:34:24				468	10.07445	0.946785	2.559	1.4652	3.02808	7.64121
11:34:24				469	10.07445	0.9475881	2.4606	1.4652	2.83272	7.6482
11:34:25				470	10.07348	0.9496782	2.559	1.4652	2.97924	7.66656
11:34:25				471	10.07348	0.9496782	2.559	1.4652	3.12576	7.66656
11:34:26				472	10.07445	0.9506426	2.4606	1.51404	2.9304	7.67475
11:34:26				473	10.07541	0.9527309	2.559	1.51404	2.88156	7.6927
11:34:27				474	10.07445	0.9514448	2.559	1.51404	2.97924	7.68172
11:34:27				475	10.07541	0.9520888	2.559	1.4652	2.9304	7.68711
11:34:28				476	10.07541	0.9514448	2.559	1.51404	2.9304	7.68151
11:34:28				477	10.07541	0.9479107	2.4606	1.51404	2.9304	7.6508
11:34:29				478	10.07348	0.945822	2.4606	1.4652	2.97924	7.63306
11:34:29				479	10.07445	0.9474279	2.559	1.51404	2.97924	7.6468
11:34:30				480	10.07348	0.9479107	2.559	1.4652	2.9304	7.6512
11:34:30				481	10.07252	0.9493575	2.559	1.41636	2.97924	7.66398
11:34:31				482	10.07348	0.9485538	2.559	1.4652	3.07692	7.65679
11:34:31				483	10.07155	0.9517678	2.4606	1.51404	2.97924	7.68515
11:34:32				484	10.07252	0.953855	2.4606	1.41636	2.9304	7.7031
11:34:33				487	10.07589	0.9541762	2.559	1.4652	3.02808	7.70516
11:34:34				488	10.07782	0.9522473	2.559	1.4652	3.02808	7.68798
11:34:34				489	10.07878	0.9512843	2.559	1.4652	3.02808	7.67941
11:34:35				490	10.07975	0.9506405	2.559	1.4652	3.12576	7.67361
11:34:35				491	10.07782	0.9490348	2.4606	1.4652	3.27228	7.66007
11:34:36				492	10.07782	0.9463025	2.4606	1.4652	3.27228	7.63632
11:34:36				493	10.07782	0.9446952	2.559	1.4652	3.51648	7.62234
11:34:37				494	10.07878	0.9350557	2.559	1.4652	3.80952	7.53843
11:34:37				495	10.07878	0.9006741	2.559	1.51404	3.85836	7.2405
11:34:38				496	10.073	0.8907138	2.559	1.4652	4.00488	7.15552
11:34:38				497	10.0595	0.8778629	2.559	1.51404	4.20024	7.04714
11:34:39				498	10.05468	0.8719187	2.559	1.51404	4.34676	6.99676
11:34:39				499	10.05565	0.8768992	2.559	1.51404	4.68864	7.03957
11:34:40				500	10.05661	0.8850923	2.559	1.51404	5.07937	7.11016

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:40				501	10.05082	0.8720803	2.4606	1.51404	5.27473	6.99891
11:34:41				502	10.04504	0.8740084	2.4606	1.51404	4.59096	7.01667
11:34:41				503	10.03437	0.8637287	2.559	1.51404	4.68864	6.92998
11:34:42				504	10.02954	0.8642099	2.3623	1.56288	4.73748	6.93507
11:34:42				505	10.02472	0.8672608	2.559	1.51404	4.59096	6.96231
11:34:43				506	10.02183	0.8513612	2.559	1.51404	4.1514	6.8257
11:34:43				507	10.0199	0.8380297	2.4606	1.51404	4.10256	6.71123
11:34:44				508	10.01604	0.8475059	2.4606	1.51404	3.80952	6.79356
11:34:44				509	10.01218	0.872723	2.559	1.4652	3.61416	7.01191
11:34:45				510	10.00928	0.887181	2.4606	1.51404	3.663	7.13752
11:34:45				511	10.00446	0.8719189	2.559	1.4652	3.46764	7.00645
11:34:46				512	10.0006	0.8913572	2.559	1.4652	3.56532	7.17538
11:34:46				513	9.99963	0.9120797	2.4606	1.4652	3.61416	7.35525
11:34:47				514	10.00832	0.902602	2.559	1.51404	3.71184	7.27128
11:34:47				515	10.01218	0.9021194	2.559	1.4652	3.56532	7.26632
11:34:48				516	10.01507	0.9050121	2.559	1.51404	3.61416	7.29082
11:34:48				517	10.02183	0.9185061	2.559	1.4652	3.36996	7.4065
11:34:49				518	10.03051	0.909349	2.4606	1.4652	3.36996	7.32532
11:34:49				519	10.03437	0.9074224	2.4606	1.51404	3.4188	7.30784
11:34:50				520	10.03726	0.9213988	2.559	1.51404	3.46764	7.42845
11:34:50				521	10.04022	0.9236473	2.559	1.4652	3.36996	7.44736
11:34:51				522	10.04407	0.9215594	2.559	1.4652	3.1746	7.42845
11:34:51				523	10.04697	0.9297534	2.559	1.51404	3.27228	7.49898
11:34:52				524	10.04986	0.9342524	2.559	1.4652	3.32112	7.53746
11:34:52				525	10.05565	0.9443752	2.559	1.4652	3.32112	7.62421
11:34:53				526	10.0595	0.941	2.559	1.51404	3.1746	7.59407
11:34:53				527	10.06336	0.943571	2.559	1.4652	3.22344	7.61561
11:34:54				528	10.06818	0.944053	2.559	1.51404	3.07692	7.61878
11:34:54				529	10.07107	0.9416435	2.559	1.4652	3.1746	7.59724
11:34:55				530	10.07589	0.9401968	2.559	1.4652	3.22344	7.58367
11:34:55				531	10.07782	0.9365017	2.559	1.51404	3.02808	7.55118
11:34:56				532	10.07782	0.9369845	2.4606	1.51404	3.12576	7.55538
11:34:56				533	10.07686	0.9454997	2.559	1.51404	2.9304	7.62953
11:34:57				534	10.07782	0.946785	2.559	1.51404	2.9304	7.6405
11:34:57				535	10.07589	0.9422851	2.4606	1.51404	3.02808	7.60182
11:34:58				536	10.07396	0.9464647	2.559	1.51404	3.07692	7.63853
11:34:58				537	10.07782	0.9506405	2.4606	1.51404	3.02808	7.67402
11:34:59				538	10.07975	0.9496782	2.559	1.51404	2.97924	7.66524
11:34:59				539	10.08264	0.9472677	2.4606	1.51404	3.07692	7.64369
11:35:00				540	10.08264	0.9495158	2.559	1.4652	3.02808	7.66322
11:35:00				541	10.08457	0.9496782	2.559	1.51404	3.12576	7.66422
11:35:01				542	10.0865	0.9493554	2.4606	1.51404	3.07692	7.66102
11:35:01				543	10.08553	0.9501593	2.4606	1.51404	3.02808	7.66821
11:35:02				544	10.08553	0.958193	2.559	1.51404	3.07692	7.73805
11:35:02				545	10.08553	0.9548188	2.559	1.4652	3.1746	7.70871

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:03				546	10.08553	0.9535337	2.559	1.51404	3.22344	7.69753
11:35:03				547	10.08746	0.9543368	2.4606	1.51404	3.02808	7.70412
11:35:04				548	10.09324	0.9643007	2.559	1.51404	3.12576	7.78954
11:35:04				549	10.09909	0.9565867	2.559	1.51404	3.07692	7.7212
11:35:05				550	10.09716	0.9581929	2.559	1.4652	2.88156	7.73558
11:35:05				551	10.09812	0.9750674	2.559	1.51404	2.9304	7.88221
11:35:06				552	10.09909	0.9758707	2.559	1.51404	2.88156	7.889
11:35:06				553	10.09812	0.9708886	2.559	1.4652	2.9304	7.84582
11:35:07				554	10.09716	0.9718524	2.559	1.51404	3.07692	7.85442
11:35:07				555	10.09716	0.9758707	2.559	1.4652	2.97924	7.88942
11:35:08				556	10.10005	0.9932276	2.559	1.4652	3.02808	8.04007
11:35:08				557	10.10198	1.0002985	2.559	1.4652	2.97924	8.10135
11:35:09				558	10.10872	1.0356601	2.559	1.4652	3.02808	8.40895
11:35:09				559	10.11547	1.0490006	2.559	1.4652	3.02808	8.52424
11:35:10				560	10.13088	1.0633075	2.559	1.4652	2.83272	8.64604
11:35:10				561	10.14533	1.0658811	2.559	1.4652	2.9304	8.66517
11:35:11				562	10.15694	1.0626649	2.4606	1.41636	3.02808	8.63422
11:35:11				563	10.16561	1.0686136	2.559	1.4652	2.97924	8.68429
11:35:12				564	10.1762	1.0641128	2.559	1.51404	2.6862	8.64233
11:35:12				565	10.18293	1.0464291	2.559	1.4652	2.49084	8.48594
11:35:13				566	10.18775	1.0650771	2.559	1.4652	2.53968	8.64803
11:35:13				567	10.19063	1.0735963	2.4606	1.51404	2.78388	8.722
11:35:14				568	10.19641	1.0660417	2.559	1.4652	2.58852	8.65442
11:35:14				569	10.19833	1.0552711	2.559	1.51404	2.442	8.55969
11:35:15				570	10.19544	1.0740799	2.559	1.51404	2.73504	8.72507
11:35:15				571	10.19833	1.0813149	2.4606	1.4652	2.6862	8.78782
11:35:16				572	10.20603	1.0732759	2.559	1.51404	2.49084	8.71549
11:35:16				573	10.20603	1.0689353	2.4606	1.51404	2.39316	8.67749
11:35:17				574	10.20603	1.0724722	2.559	1.51404	2.53968	8.70845
11:35:17				575	10.20699	1.0803494	2.4606	1.51404	2.49084	8.77727
11:35:18				576	10.2109	1.0780988	2.559	1.51404	2.442	8.75659
11:35:18				577	10.21667	1.0739186	2.559	1.4652	2.442	8.71858
11:35:19				578	10.22148	1.0822784	2.559	1.51404	2.39316	8.79067
11:35:19				579	10.22629	1.0925677	2.559	1.4652	2.39316	8.87971
11:35:20				580	10.22533	1.0930502	2.4606	1.4652	2.442	8.88419
11:35:20	11:34:05 end transect	2.5	270	581	10.22725	1.1001261	2.559	1.51404	2.6862	8.94579
11:35:21				582	10.24168	1.1009288	2.559	1.4652	2.49084	8.94929
11:35:21				583	10.2686	1.1086478	2.6574	1.4652	2.63736	9.01037
11:35:22				584	10.28115	1.1088066	2.7558	1.4652	2.49084	9.00864
11:35:22				585	10.29173	1.1139539	2.8542	1.4652	2.24664	9.05116
11:35:23				586	10.27635	1.1163652	2.9526	1.51404	2.29548	9.07612
11:35:23				587	10.26091	1.1202239	3.0509	1.51404	2.39316	9.11384
11:35:24				588	10.25995	1.1771532	3.1493	1.4652	2.29548	9.61532
11:35:24				589	10.26379	1.1536731	3.1493	1.51404	2.49084	9.4073
11:35:25				590	10.26668	1.1819785	3.3461	1.51404	2.29548	9.6561

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:25				591	10.26572	1.1753848	3.3461	1.4652	2.29548	9.59817
11:35:26				592	10.26764	1.182139	3.3461	1.51404	2.00244	9.65726
11:35:26				593	10.26668	1.1808512	3.3461	1.51404	1.9536	9.64615
11:35:27				594	10.26475	1.1795661	3.4445	1.51404	2.05128	9.6353
11:35:27				595	10.26379	1.1641265	3.4445	1.4652	1.85592	9.49937
11:35:28				596	10.26475	1.1655737	3.4445	1.4652	2.05128	9.51188
11:35:28				597	10.26475	1.1721666	3.4445	1.4652	1.9536	9.57001
11:35:29				598	10.26572	1.1757051	3.4445	1.51404	2.00244	9.60098
11:35:29				599	10.26572	1.1742576	3.5428	1.4652	2.00244	9.58819
11:35:30				600	10.26572	1.1565672	3.5428	1.51404	2.88156	9.43224
11:35:30				601	10.26764	1.1766704	3.5428	1.51404	2.10012	9.60897
11:35:31				602	10.26764	1.1797264	3.5428	1.4652	1.9536	9.63594
11:35:31				603	10.26668	1.1728108	3.5428	1.51404	1.80708	9.57518
11:35:32				604	10.26764	1.1813346	3.5428	1.51404	2.10012	9.65014
11:35:33				607	10.26638	1.1779588	3.5428	1.51404	1.85592	9.62068
11:35:34				608	10.26542	1.1840696	3.5428	1.4652	1.85592	9.67487
11:35:34				609	10.26734	1.1792454	3.5428	1.51404	1.80708	9.63178
11:35:35				610	10.26542	1.1739375	3.5428	1.4652	1.90476	9.58545
11:35:35				611	10.26542	1.1757073	3.5428	1.4652	2.14896	9.60106
11:35:36				612	10.26638	1.178119	3.5428	1.4652	2.34432	9.62209
11:35:36				613	10.26542	1.1742598	3.5428	1.4652	1.9536	9.58829
11:35:37				614	10.26542	1.1724909	3.5428	1.4652	1.9536	9.57269
11:35:37				615	10.26542	1.1851959	3.5428	1.4652	2.10012	9.68481
11:35:38				616	10.26734	1.1871261	3.5428	1.4652	2.14896	9.70135
11:35:38				617	10.27022	1.18037	3.5428	1.51404	2.24664	9.64094
11:35:39				618	10.26926	1.1845535	3.5428	1.51404	2.49084	9.67812
11:35:39	11:34:24 start transect	2.5	270	619	10.26734	1.1882513	3.4445	1.51404	2.14896	9.7113
11:35:40				620	10.27022	1.1890553	3.5428	1.51404	2.34432	9.71762
11:35:40				621	10.27118	1.1834274	3.5428	1.4652	1.90476	9.66767
11:35:41				622	10.27022	1.1843907	3.5428	1.4652	2.00244	9.67643
11:35:41				623	10.27022	1.1871261	3.5428	1.4652	2.00244	9.70058
11:35:42				624	10.27118	1.1876083	3.5428	1.41636	2.00244	9.70458
11:35:42				625	10.27214	1.1882513	3.5428	1.4652	1.90476	9.71
11:35:43				626	10.27022	1.1871261	3.4445	1.51404	1.85592	9.70059
11:35:43				627	10.27118	1.1888945	3.5428	1.4652	1.80708	9.71594
11:35:44				628	10.27214	1.1893769	3.5428	1.51404	2.05128	9.71994
11:35:44				629	10.27407	1.1884121	3.5428	1.51404	2.05128	9.71091
11:35:45				630	10.27407	1.1887336	3.5428	1.51404	1.9536	9.71375
11:35:45				631	10.27311	1.1887336	3.5428	1.51404	2.00244	9.71401
11:35:46				632	10.27118	1.1888945	3.5428	1.4652	1.80708	9.71594
11:35:46				633	10.27022	1.1900203	3.5428	1.4652	2.14896	9.72614
11:35:47				634	10.27214	1.1900203	3.5428	1.4652	2.1978	9.72563
11:35:47				635	10.27214	1.1887336	3.5428	1.4652	1.90476	9.71426
11:35:48				636	10.27214	1.1895377	3.5428	1.51404	1.90476	9.72136
11:35:48				637	10.27214	1.1911465	3.5428	1.4652	1.9536	9.73557

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:49				638	10.27214	1.1888944	3.5428	1.4652	2.05128	9.71568
11:35:49				639	10.27214	1.1885728	3.4445	1.51404	2.05128	9.71286
11:35:50				640	10.27311	1.1896986	3.5428	1.51404	1.75824	9.72253
11:35:50				641	10.27311	1.1893769	3.5428	1.51404	1.80708	9.71969
11:35:51				642	10.27311	1.1884121	3.5428	1.51404	1.9536	9.71117
11:35:51				643	10.27311	1.1887336	3.4445	1.4652	2.10012	9.71402
11:35:52				644	10.27214	1.1927561	3.5428	1.4652	1.85592	9.74979
11:35:52				645	10.27022	1.1901811	3.3461	1.51404	2.10012	9.72759
11:35:53				646	10.27022	1.1909856	3.5428	1.41636	2.05128	9.73466
11:35:53				647	10.27022	1.1869654	3.5428	1.51404	1.75824	9.69916
11:35:54				648	10.27022	1.1842301	3.5428	1.51404	2.05128	9.67501
11:35:54				649	10.26926	1.1861619	3.4445	1.4652	1.85592	9.69234
11:35:55				650	10.26926	1.1853565	3.5428	1.51404	1.85592	9.68521
11:35:55				651	10.27022	1.187769	3.5428	1.51404	2.05128	9.70626
11:35:56				652	10.26926	1.1856778	3.5428	1.4652	1.90476	9.68805
11:35:56				653	10.27022	1.1919512	3.4445	1.51404	1.9536	9.74321
11:35:57				654	10.27022	1.1935591	3.5428	1.4652	2.05128	9.7574
11:35:57				655	10.27118	1.1909856	3.5428	1.4652	1.85592	9.73441
11:35:58				656	10.27214	1.1916293	3.5428	1.4652	1.9536	9.73984
11:35:58				657	10.27214	1.1911465	3.5428	1.4652	2.1978	9.73557
11:35:59				658	10.27118	1.1893769	3.5428	1.51404	2.00244	9.7202
11:35:59				659	10.27214	1.1906638	3.5428	1.51404	1.90476	9.73131
11:36:00				660	10.27118	1.1911465	3.5428	1.4652	1.85592	9.73583
11:36:00				661	10.27022	1.1900203	3.5428	1.51404	1.75824	9.72614
11:36:01				662	10.27214	1.1898594	3.5428	1.4652	1.85592	9.7242
11:36:01				663	10.27118	1.1898594	3.5428	1.4652	2.29548	9.72446
11:36:02				664	10.27022	1.1911465	3.5428	1.4652	2.1978	9.73609
11:36:02				665	10.27214	1.1906638	3.5428	1.4652	2.34432	9.73131
11:36:03				666	10.27118	1.1885729	3.5428	1.51404	2.14896	9.7131
11:36:03				667	10.27214	1.1906638	3.5428	1.51404	2.05128	9.73131
11:36:04				668	10.27214	1.1905029	3.5428	1.4652	2.14896	9.72989
11:36:04				669	10.27214	1.1905029	3.5428	1.51404	1.7094	9.72989
11:36:05				670	10.26926	1.1906638	3.5428	1.51404	1.85592	9.73208
11:36:05				671	10.27022	1.1908247	3.5428	1.4652	1.7094	9.73324
11:36:06				672	10.27118	1.1909856	3.5428	1.4652	1.85592	9.73441
11:36:06				673	10.27022	1.1911465	3.5428	1.4652	2.29548	9.73609
11:36:07				674	10.27022	1.1905029	3.5428	1.4652	2.29548	9.7304
11:36:07				675	10.27022	1.1908247	3.5428	1.4652	2.05128	9.73324
11:36:08				676	10.27022	1.1917903	3.5428	1.4652	1.9536	9.74177
11:36:08				677	10.26926	1.1919512	3.5428	1.51404	2.58852	9.74345
11:36:09				678	10.27022	1.1914684	3.5428	1.4652	2.34432	9.73893
11:36:09				679	10.2683	1.1906638	3.5428	1.51404	1.75824	9.73234
11:36:10				680	10.2683	1.190342	3.5428	1.4652	1.7094	9.72949
11:36:10				681	10.26926	1.1898594	3.5428	1.4652	2.1978	9.72497
11:36:11				682	10.2683	1.1911465	3.5428	1.4652	2.05128	9.7366

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:11				683	10.2683	1.1893769	3.5428	1.51404	1.85592	9.72097
11:36:12				684	10.2683	1.1900203	3.5428	1.4652	1.90476	9.72665
11:36:12				685	10.2683	1.1905029	3.5428	1.51404	2.10012	9.73091
11:36:13				686	10.2683	1.1896986	3.5428	1.51404	1.9536	9.72381
11:36:13				687	10.26926	1.1893769	3.5428	1.4652	1.7094	9.72071
11:36:14				688	10.26926	1.1906638	3.5428	1.4652	1.80708	9.73208
11:36:14				689	10.2683	1.1909856	3.5428	1.4652	2.73504	9.73518
11:36:15				690	10.2683	1.1905029	3.5428	1.4652	3.663	9.73091
11:36:15				691	10.2683	1.1895378	3.5428	1.51404	2.05128	9.72239
11:36:16				692	10.26638	1.1887337	3.5428	1.4652	1.90476	9.7158
11:36:16				693	10.26734	1.1888945	3.5428	1.51404	1.66056	9.71696
11:36:17				694	10.26734	1.1887337	3.5428	1.4652	1.9536	9.71554
11:36:17				695	10.26638	1.1888945	3.5428	1.4652	2.00244	9.71722
11:36:18				696	10.2683	1.1884121	3.5428	1.4652	2.05128	9.71245
11:36:18				697	10.26734	1.1884121	3.5428	1.4652	1.75824	9.7127
11:36:19				698	10.26734	1.1884121	3.5428	1.4652	1.80708	9.7127
11:36:19				699	10.26926	1.1880905	3.5428	1.51404	1.85592	9.70935
11:36:20				700	10.2683	1.187769	3.5428	1.4652	1.85592	9.70677
11:36:20				701	10.2683	1.1880905	3.5428	1.51404	1.9536	9.70961
11:36:21				702	10.2683	1.1879298	3.5428	1.51404	1.75824	9.70819
11:36:21				703	10.2683	1.1879298	3.5428	1.4652	1.7094	9.70819
11:36:22				704	10.2683	1.1880905	3.4445	1.4652	1.90476	9.70962
11:36:22				705	10.26734	1.1872868	3.5428	1.4652	1.80708	9.70277
11:36:23				706	10.26734	1.1868047	3.5428	1.4652	2.29548	9.69851
11:36:23				707	10.2683	1.1876083	3.4445	1.51404	2.53968	9.70536
11:36:24				708	10.2683	1.1876083	3.5428	1.51404	2.39316	9.70535
11:36:24				709	10.2683	1.1880905	3.4445	1.51404	2.14896	9.70962
11:36:25				710	10.27022	1.1892161	3.5428	1.4652	1.9536	9.71904
11:36:25				711	10.27022	1.1914684	3.5428	1.51404	1.85592	9.73893
11:36:26				712	10.27311	1.1905029	3.5428	1.4652	1.9536	9.72963
11:36:26				713	10.27791	1.1900203	3.5428	1.41636	1.80708	9.72409
11:36:27				714	10.28079	1.1911465	3.5428	1.51404	1.80708	9.73326
11:36:27				715	10.28944	1.1927561	3.5428	1.51404	2.14896	9.74516
11:36:28				716	10.29233	1.1909855	3.5428	1.4652	2.10012	9.72876
11:36:28				717	10.28944	1.1940421	3.5428	1.51404	1.85592	9.75652
11:36:29				718	10.28752	1.1945254	3.5428	1.4652	1.90476	9.7613
11:36:29				719	10.28464	1.1953287	3.5428	1.4652	1.9536	9.76917
11:36:30				720	10.28368	1.1927561	3.5428	1.51404	2.10012	9.74671
11:36:30				721	10.28848	1.1954899	3.5428	1.4652	2.00244	9.76956
11:36:31				722	10.28656	1.1951676	3.5428	1.51404	1.9536	9.76723
11:36:31				723	10.28464	1.1946865	3.5428	1.51404	1.9536	9.7635
11:36:32				724	10.28656	1.1958122	3.5428	1.51404	1.90476	9.77292
11:36:33				727	10.30332	1.1963177	3.5428	1.4652	2.10012	9.7729
11:36:34				728	10.31196	1.196799	3.5428	1.51404	2.1978	9.77483
11:36:34				729	10.33123	1.196799	3.5428	1.51404	2.34432	9.76966

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:35				730	10.36292	1.1967988	3.5428	1.51404	2.05128	9.76118
11:36:35				731	10.41383	1.1969598	3.5428	1.4652	1.90476	9.749
11:36:36				732	10.43206	1.1964784	3.5428	1.4652	2.00244	9.7399
11:36:36				733	10.42055	1.1961561	3.5428	1.4652	2.442	9.74013
11:36:37				734	10.41863	1.1959949	3.5428	1.4652	2.24664	9.73922
11:36:37				735	10.41096	1.1953525	3.5428	1.51404	1.80708	9.73562
11:36:38				736	10.4052	1.1951914	3.5428	1.51404	1.85592	9.73573
11:36:38				737	10.40328	1.1958338	3.5428	1.4652	2.00244	9.7419
11:36:39				738	10.39657	1.1953526	3.5428	1.4652	1.9536	9.73945
11:36:39				739	10.39273	1.1950304	3.5428	1.41636	2.39316	9.73764
11:36:40				740	10.3706	1.1956728	3.5428	1.4652	1.9536	9.74921
11:36:40				741	10.35524	1.1951916	3.5428	1.51404	2.73504	9.74907
11:36:41				742	10.35812	1.1947083	3.4445	1.51404	2.14896	9.74405
11:36:41				743	10.34564	1.1948694	3.5428	1.51404	1.75824	9.74879
11:36:42				744	10.33507	1.1943862	3.5428	1.4652	1.75824	9.74735
11:36:42				745	10.33507	1.1940662	3.5428	1.4652	2.1978	9.74453
11:36:43				746	10.33123	1.193261	3.5428	1.4652	1.80708	9.73845
11:36:43				747	10.33507	1.1939052	3.5428	1.4652	2.05128	9.74311
11:36:44				748	10.33603	1.193261	3.5428	1.51404	1.90476	9.73717
11:36:44				749	10.33027	1.1931	3.5428	1.51404	1.80708	9.73729
11:36:45				750	10.33699	1.1931	3.5428	1.51404	2.05128	9.7355
11:36:45				751	10.34756	1.1927779	3.5428	1.4652	2.14896	9.72984
11:36:46				752	10.34948	1.1930999	3.5428	1.4652	1.90476	9.73217
11:36:46				753	10.34468	1.193583	3.5428	1.4652	1.80708	9.73771
11:36:47				754	10.35236	1.1940662	3.7396	1.4652	1.90476	9.73989
11:36:47				755	10.38985	1.1950304	3.5428	1.4652	2.49084	9.73841
11:36:48				756	10.42055	1.1948691	3.5428	1.51404	2.05128	9.72881
11:36:48				757	10.41959	1.1942248	3.5428	1.4652	1.80708	9.72339
11:36:49				758	10.41479	1.1947081	3.5428	1.4652	1.9536	9.72892
11:36:49				759	10.42055	1.1955114	3.5428	1.4652	1.9536	9.73446
11:36:50				760	10.43589	1.1953524	3.5428	1.4652	2.29548	9.72897
11:36:50				761	10.44842	1.1947079	3.5428	1.51404	1.75824	9.71997
11:36:51				762	10.45417	1.1953524	3.5428	1.51404	1.75824	9.72411
11:36:51				763	10.45704	1.1953524	3.5428	1.51404	1.80708	9.72334
11:36:52				764	10.46663	1.194869	3.5428	1.51404	1.7094	9.71655
11:36:52				765	10.45896	1.194869	3.5428	1.41636	1.90476	9.71858
11:36:53				766	10.45033	1.194869	3.5428	1.51404	1.85592	9.72088
11:36:53				767	10.44165	1.1942247	3.5428	1.51404	1.75824	9.71752
11:36:54				768	10.44938	1.1942247	3.5428	1.51404	1.85592	9.71547
11:36:54				769	10.4426	1.1943858	3.4445	1.51404	1.90476	9.7187
11:36:55				770	10.43973	1.194708	3.5428	1.51404	1.80708	9.72228
11:36:55				771	10.45129	1.1937437	3.5428	1.4652	2.00244	9.71073
11:36:56				772	10.45992	1.1935826	3.5428	1.51404	1.85592	9.70702
11:36:56				773	10.46663	1.1935826	3.5428	1.4652	2.14896	9.70524
11:36:57				774	10.47717	1.1932604	3.5428	1.51404	1.80708	9.69961

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:57				775	10.48101	1.1937435	3.5428	1.51404	1.66056	9.70284
11:36:58				776	10.48005	1.1940657	3.5428	1.51404	1.85592	9.70592
11:36:58				777	10.47813	1.1942245	3.5428	1.4652	1.66056	9.70783
11:36:59				778	10.47238	1.1934215	3.5428	1.4652	1.66056	9.7023
11:36:59				779	10.47238	1.1929384	3.5428	1.51404	2.00244	9.69805
11:37:00				780	10.47909	1.1922944	3.5428	1.51404	2.10012	9.69062
11:37:00				781	10.48388	1.1903655	3.5428	1.51404	1.90476	9.67241
11:37:01				782	10.48963	1.1881139	3.5428	6.69109	2.05128	9.65112
11:37:01				783	10.49346	1.184414	3.5428	2.14896	2.6862	9.61764
11:37:02				784	10.49825	1.1829669	3.5428	2.05128	1.80708	9.60369
11:37:02				785	10.49538	1.17991	3.5428	2.49084	1.61172	9.57763
11:37:03				786	10.48963	1.1823228	3.5428	2.9304	1.7094	9.6003
11:37:03				787	10.4858	1.1797497	3.5428	4.10256	1.66056	9.57873
11:37:04				788	10.48101	1.174441	3.5428	4.20024	1.80708	9.53342
11:37:04				789	10.4743	1.1776594	3.5428	5.12821	2.10012	9.5634
11:37:05				790	10.47813	1.1776594	3.5428	5.17705	1.75824	9.5624
11:37:05				791	10.48292	1.1710638	3.4445	5.90965	2.10012	9.50332
11:37:06				792	10.48292	1.1717078	3.5428	5.71429	1.85592	9.50895
11:37:06				793	10.48867	1.1728341	3.5428	5.90965	1.75824	9.51733
11:37:07				794	10.49155	1.1710637	3.5428	6.30037	1.7094	9.50107
11:37:07				795	10.48771	1.1681694	3.5428	6.30037	1.90476	9.47669
11:37:08				796	10.48196	1.1686509	3.6412	6.34921	1.90476	9.48239
11:37:08				797	10.48675	1.1686509	3.4445	6.15385	1.7094	9.48117
11:37:09				798	10.49442	1.1659183	3.5428	6.20269	1.75824	9.45523
11:37:09				799	10.47717	1.1641498	3.5428	6.15385	2.10012	9.44419
11:37:10				800	10.46663	1.1654352	3.5428	6.10501	2.10012	9.45818
11:37:10				801	10.46663	1.1659184	3.5428	6.15385	1.9536	9.46242
11:37:11				802	10.4628	1.1641498	3.5428	6.30037	1.80708	9.44791
11:37:11				803	10.45513	1.1660781	3.5428	4.884	2.00244	9.4668
11:37:12				804	10.45225	1.168651	3.5428	4.29792	1.90476	9.49011
11:37:12				805	10.45609	1.1654352	3.5428	3.85836	1.90476	9.46091
11:37:13				806	10.45609	1.1615763	3.5428	1.9536	2.05128	9.42708
11:37:13				807	10.4465	1.1604497	3.5428	1.4652	2.14896	9.41967
11:37:14				808	10.44165	1.1541779	3.5428	1.51404	2.1978	9.36593
11:37:14				809	10.43302	1.1453325	3.5428	1.51404	2.49084	9.29063
11:37:15				810	10.42055	1.1401862	3.5428	1.51404	2.34432	9.24871
11:37:15				811	10.40808	1.1416331	3.5428	1.4652	2.24664	9.26454
11:37:16				812	10.39177	1.1395423	3.5428	1.4652	2.24664	9.25035
11:37:16				813	10.38889	1.1363263	3.5428	1.51404	2.39316	9.22289
11:37:17				814	10.39177	1.1261954	3.5428	1.4652	2.1978	9.13342
11:37:17				815	10.38019	1.1220145	3.5428	1.51404	2.34432	9.0997
11:37:18				816	10.36772	1.1303778	3.5428	1.4652	2.39316	9.17609
11:37:18				817	10.3658	1.1295737	3.5428	1.4652	2.24664	9.16952
11:37:19				818	10.37252	1.1245875	3.5428	1.51404	2.24664	9.12415
11:37:19	11:36:04 end transect	2.5	90	819	10.38499	1.1258737	3.5428	1.4652	2.34432	9.13229

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:20				820	10.38595	1.1261954	3.5428	1.56288	2.49084	9.13487
11:37:20				821	10.3706	1.1242661	3.5428	1.4652	2.34432	9.12181
11:37:21				822	10.34564	1.1208894	3.4445	1.4652	2.34432	9.09847
11:37:21				823	10.32739	1.1147796	3.5428	1.51404	2.39316	9.04945
11:37:22				824	10.32253	1.1175123	3.4445	1.4652	2.39316	9.07462
11:37:22				825	10.32061	1.1142979	3.4445	1.51404	2.29548	9.04693
11:37:23				826	10.3158	1.1104383	3.4445	1.51404	2.24664	9.01429
11:37:23				827	10.30332	1.1107605	3.4445	1.51404	2.24664	9.0202
11:37:24				828	10.29851	1.1097942	3.5428	1.4652	2.53968	9.01291
11:37:24				829	10.29371	1.1099552	3.5428	1.4652	2.73504	9.01551
11:37:25				830	10.2889	1.1424387	3.6412	1.51404	2.34432	9.30192
11:37:25				831	10.29082	1.1395427	3.6412	1.51404	2.39316	9.27597
11:37:26				832	10.31965	1.1342371	3.7396	1.4652	2.39316	9.22204
11:37:26				833	10.33795	1.1549823	3.7396	1.51404	2.29548	9.39961
11:37:27				834	10.36484	1.1866657	3.9364	1.4652	2.34432	9.67133
11:37:27				835	10.43877	1.1675263	4.1331	1.51404	2.24664	9.48366
11:37:28				836	10.45417	1.1828067	4.1331	1.51404	2.24664	9.61378
11:37:28				837	10.46088	1.1803935	4.2315	6.05617	1.9536	9.59082
11:37:29				838	10.46184	1.1940658	4.3299	5.03053	2.10012	9.71065
11:37:29				839	10.4465	1.1942248	4.4283	3.32112	1.9536	9.71611
11:37:30				840	10.4052	1.1905268	4.5267	1.9536	1.90476	9.69453
11:37:30				841	10.39849	1.1866656	4.5267	1.51404	1.85592	9.66234
11:37:31				842	10.40616	1.1746037	4.5267	1.51404	1.85592	9.55425
11:37:31				843	10.41863	1.1789463	4.5267	1.51404	1.90476	9.58915
11:37:32				844	10.42438	1.1865048	4.5267	1.4652	1.90476	9.65408
11:37:33				847	10.42432	1.1847356	4.5267	1.51404	1.9536	9.63854
11:37:34				848	10.42816	1.1903636	4.5267	1.51404	1.9536	9.68701
11:37:34				849	10.42337	1.185378	4.5267	1.4652	1.85592	9.64444
11:37:35				850	10.42528	1.1893985	4.5267	6.49573	1.9536	9.67928
11:37:35				851	10.42432	1.1955115	4.5267	1.51404	2.05128	9.73331
11:37:36				852	10.40802	1.1921338	4.5267	1.51404	2.14896	9.70793
11:37:36				853	10.38397	1.1910073	4.5267	1.51404	1.9536	9.7044
11:37:37				854	10.36094	1.1811959	4.5267	1.4652	1.85592	9.62412
11:37:37				855	10.36382	1.1795878	4.5267	1.51404	2.10012	9.6092
11:37:38				856	10.37246	1.1747639	4.5267	1.51404	1.85592	9.56448
11:37:38				857	10.38301	1.1766943	4.6251	1.4652	2.10012	9.57868
11:37:39				858	10.38883	1.1805542	4.6251	1.51404	2.39316	9.61111
11:37:39				859	10.39075	1.1779804	4.6251	1.4652	2.39316	9.58796
11:37:40				860	10.39555	1.1787839	4.6251	1.51404	2.05128	9.59377
11:37:40				861	10.39555	1.1794273	4.6251	1.51404	1.90476	9.59943
11:37:41				862	10.39363	1.1807146	4.6251	1.51404	2.00244	9.61125
11:37:41				863	10.39267	1.1816793	4.6251	1.4652	1.85592	9.61999
11:37:42				864	10.38595	1.1832885	4.6251	1.4652	1.75824	9.63592
11:37:42				865	10.38301	1.1858601	4.6251	1.4652	2.05128	9.65933
11:37:43				866	10.38109	1.1868264	4.6251	1.51404	1.85592	9.66834

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:43				867	10.37725	1.1885946	4.6251	1.51404	1.75824	9.68493
11:37:44				868	10.3763	1.190042	4.5267	1.51404	2.63736	9.69794
11:37:44				869	10.37917	1.191973	4.6251	1.4652	2.29548	9.71417
11:37:45				870	10.38013	1.1922949	4.6251	1.51404	2.14896	9.71675
11:37:45	11:36:30 start transect	2.5	90	871	10.38397	1.1921339	4.6251	1.51404	2.00244	9.71431
11:37:46				872	10.38397	1.1929389	4.6251	1.51404	1.9536	9.7214
11:37:46				873	10.37821	1.1929389	4.6251	1.51404	1.75824	9.72293
11:37:47				874	10.36862	1.192939	4.6251	1.4652	1.75824	9.72549
11:37:47				875	10.36286	1.193261	4.6251	1.51404	1.85592	9.72986
11:37:48				876	10.36286	1.192778	4.6251	1.51404	2.05128	9.7256
11:37:48				877	10.36862	1.192295	4.6251	1.4652	1.80708	9.71981
11:37:49				878	10.36286	1.1955118	4.6251	1.4652	1.7094	9.7497
11:37:49				879	10.35806	1.1947084	4.6251	1.4652	1.85592	9.7439
11:37:50				880	10.36094	1.1934221	4.6251	1.51404	1.80708	9.73179
11:37:50				881	10.36574	1.1958341	4.6251	1.51404	1.7094	9.75177
11:37:51				882	10.36766	1.1959952	4.6251	1.51404	1.80708	9.75267
11:37:51				883	10.37054	1.1956729	4.6251	1.51404	1.90476	9.74907
11:37:52				884	10.37342	1.1963153	4.6251	1.4652	1.90476	9.75396
11:37:52				885	10.37438	1.195834	4.6251	1.51404	2.14896	9.74946
11:37:53				886	10.37054	1.1964765	4.6251	1.51404	2.05128	9.75615
11:37:53				887	10.36958	1.1993726	4.6251	1.51404	1.7094	9.78193
11:37:54				888	10.36958	1.1988909	4.6251	1.4652	1.75824	9.77768
11:37:54				889	10.36862	1.2004978	4.6251	1.4652	1.80708	9.7921
11:37:55				890	10.3667	1.2000159	4.6251	1.51404	1.75824	9.78837
11:37:55				891	10.35806	1.1992114	4.6251	1.51404	1.9536	9.78359
11:37:56				892	10.3571	1.1992114	4.6251	1.51404	2.29548	9.78385
11:37:56				893	10.3571	1.1988909	4.6251	1.4652	2.00244	9.78103
11:37:57				894	10.36382	1.1980867	4.6251	1.4652	2.442	9.77214
11:37:57				895	10.3667	1.1976029	4.6251	1.51404	1.75824	9.7671
11:37:58				896	10.3667	1.1979254	4.6251	1.51404	1.85592	9.76994
11:37:58				897	10.3715	1.1972804	4.6251	1.4652	1.90476	9.76297
11:37:59				898	10.37054	1.1972804	4.6251	1.51404	2.24664	9.76323
11:37:59				899	10.37342	1.1972804	4.6251	1.4652	1.9536	9.76246
11:38:00				900	10.3715	1.1967989	4.6251	1.51404	1.85592	9.75873
11:38:00				901	10.36382	1.196799	4.6251	1.51404	1.80708	9.76079
11:38:01				902	10.36574	1.1964766	4.6251	1.51404	1.85592	9.75743
11:38:01				903	10.36574	1.1958341	4.6251	1.51404	1.80708	9.75177
11:38:02				904	10.36574	1.1955118	4.6251	1.4652	1.90476	9.74893
11:38:02				905	10.36286	1.1953506	4.6251	1.51404	2.05128	9.74828
11:38:03				906	10.36382	1.1943862	4.6251	1.51404	1.90476	9.73952
11:38:03				907	10.36478	1.192939	4.5267	1.51404	1.80708	9.72653
11:38:04				908	10.36766	1.192617	4.6251	1.51404	2.1978	9.72291
11:38:04				909	10.37054	1.193422	4.6251	1.4652	1.75824	9.72923
11:38:05				910	10.37246	1.1939029	4.5267	1.51404	2.1978	9.73297
11:38:05				911	10.37342	1.1948694	4.6251	1.4652	1.9536	9.74122

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:06				912	10.37246	1.1945472	4.5267	1.51404	1.9536	9.73865
11:38:06				913	10.3619	1.1945473	4.6251	1.51404	1.85592	9.74145
11:38:07				914	10.35614	1.1943862	4.6251	1.4652	1.80708	9.74157
11:38:07				915	10.35518	1.1940641	4.6251	1.56288	1.90476	9.73899
11:38:08				916	10.36094	1.193903	4.6251	1.4652	2.00244	9.73603
11:38:08				917	10.36382	1.1937419	4.6251	1.4652	1.80708	9.73384
11:38:09				918	10.36766	1.1943862	4.5267	1.51404	2.00244	9.73851
11:38:09				919	10.36286	1.1947084	4.6251	1.51404	1.75824	9.74262
11:38:10				920	10.35422	1.1947084	4.6251	1.51404	1.9536	9.74492
11:38:10				921	10.3475	1.1943863	4.6251	1.4652	1.90476	9.74388
11:38:11				922	10.33982	1.1939031	4.6251	1.51404	2.05128	9.74167
11:38:11				923	10.35422	1.1935809	4.6251	1.51404	1.85592	9.73498
11:38:12				924	10.35806	1.1956729	4.5267	1.51404	1.90476	9.75241
11:38:12				925	10.34846	1.1953507	4.6251	1.51404	1.85592	9.75212
11:38:13				926	10.34078	1.1953507	4.6251	1.51404	1.85592	9.75418
11:38:13				927	10.33021	1.1950285	4.6251	1.51404	2.05128	9.75416
11:38:14				928	10.32829	1.1950285	4.6251	1.51404	2.05128	9.75467
11:38:14				929	10.33309	1.1942252	4.6251	1.51404	2.29548	9.74631
11:38:15				930	10.34366	1.1942252	4.5267	1.51404	2.1978	9.7435
11:38:15				931	10.34558	1.1945474	4.6251	1.4652	2.00244	9.74581
11:38:16				932	10.33789	1.1943863	4.6251	1.51404	1.90476	9.74644
11:38:16				933	10.33405	1.1948696	4.6251	1.51404	1.9536	9.75173
11:38:17				934	10.33982	1.1948696	4.6251	1.4652	1.90476	9.75019
11:38:17				935	10.35326	1.1953507	4.5267	1.4652	2.10012	9.75086
11:38:18				936	10.35038	1.1958341	4.6251	1.4652	2.14896	9.75587
11:38:18				937	10.34366	1.1961565	4.5267	1.51404	2.00244	9.76053
11:38:19				938	10.34654	1.1964766	4.6251	1.51404	1.85592	9.76257
11:38:19				939	10.35614	1.1963154	4.5267	1.51404	1.80708	9.75859
11:38:20				940	10.35902	1.1963154	4.5267	1.51404	2.05128	9.75782
11:38:20				941	10.35134	1.1993727	4.5267	1.51404	1.9536	9.78683
11:38:21				942	10.34078	1.2008207	4.5267	1.51404	1.85592	9.80244
11:38:21				943	10.32439	1.20098	4.5267	1.4652	2.29548	9.80825
11:38:22				944	10.32925	1.1998546	4.5267	1.4652	1.85592	9.79701
11:38:22				945	10.33405	1.1977642	4.5267	1.51404	2.58852	9.77728
11:38:23				946	10.32439	1.1972805	4.5267	1.51404	2.14896	9.7756
11:38:23				947	10.31574	1.1959954	4.6251	1.51404	1.9536	9.76656
11:38:24				948	10.3071	1.1963156	4.5267	1.4652	1.66056	9.77172
11:38:24				949	10.30902	1.1898814	4.5267	1.51404	3.02808	9.71442
11:38:25				950	10.30998	1.1902032	4.5267	1.51404	2.1978	9.71701
11:38:25				951	10.33982	1.1898813	4.5267	1.4652	1.9536	9.70622
11:38:26				952	10.38787	1.1905246	4.5267	1.51404	2.00244	9.69912
11:38:26				953	10.38397	1.1902029	4.5267	1.4652	2.00244	9.69732
11:38:27				954	10.38595	1.189077	4.5267	1.51404	1.80708	9.68688
11:38:27				955	10.4109	1.1885945	4.5267	1.51404	2.10012	9.67602
11:38:28				956	10.45603	1.1900417	4.5267	1.51404	1.9536	9.6768

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:28				957	10.45507	1.1905244	4.5267	1.51404	1.75824	9.68129
11:38:29				958	10.4272	1.1897201	4.5267	1.4652	1.9536	9.6816
11:38:29				959	10.4109	1.1905245	4.5267	1.51404	2.00244	9.693
11:38:30				960	10.39555	1.191812	4.5267	1.51404	2.14896	9.70841
11:38:30				961	10.38013	1.1905247	4.5267	1.4652	1.9536	9.70117
11:38:31				962	10.3763	1.1913292	4.5267	1.51404	1.80708	9.70928
11:38:31				963	10.3763	1.1929389	4.5267	1.4652	1.75824	9.72346
11:38:32				964	10.35518	1.1940641	4.5267	1.51404	1.75824	9.739
11:38:33				967	10.32445	1.1926105	4.5267	1.51404	1.75824	9.73438
11:38:34				968	10.31965	1.1910032	4.5267	1.4652	1.9536	9.72149
11:38:34				969	10.29755	1.1919689	4.5267	1.51404	2.00244	9.7359
11:38:35				970	10.29275	1.1913251	4.6251	1.4652	1.75824	9.73149
11:38:35				971	10.30428	1.1911642	4.5267	1.4652	1.85592	9.72701
11:38:36				972	10.32637	1.1897161	4.6251	1.51404	2.00244	9.70833
11:38:36				973	10.33021	1.1910031	4.6251	1.51404	1.9536	9.71866
11:38:37				974	10.3062	1.1908423	4.6251	1.51404	2.00244	9.72364
11:38:37				975	10.30332	1.1901988	4.5267	1.4652	2.14896	9.71874
11:38:38				976	10.32445	1.1884296	4.5267	1.51404	1.85592	9.69751
11:38:38				977	10.31196	1.1910032	4.5267	1.51404	2.05128	9.72354
11:38:39				978	10.30524	1.1901988	4.5267	1.51404	1.90476	9.71823
11:38:39				979	10.30332	1.1895554	4.6251	1.4652	1.9536	9.71305
11:38:40				980	10.32349	1.1897161	4.5267	1.4652	2.10012	9.70911
11:38:40				981	10.33982	1.1927714	4.5267	1.51404	1.85592	9.7317
11:38:41				982	10.31388	1.1929325	4.6251	1.51404	2.00244	9.74003
11:38:41				983	10.29467	1.1913251	4.5267	1.51404	1.75824	9.73099
11:38:42				984	10.31196	1.1913251	4.5267	1.4652	2.14896	9.72638
11:38:42				985	10.31484	1.1932546	4.5267	1.4652	2.00244	9.74263
11:38:43				986	10.30428	1.1930936	4.5267	1.51404	1.9536	9.74403
11:38:43				987	10.29563	1.1922908	4.5267	1.51404	1.85592	9.73926
11:38:44				988	10.28986	1.1919689	4.5267	1.4652	1.85592	9.73796
11:38:44				989	10.29179	1.1919689	4.5267	1.4652	2.00244	9.73744
11:38:45				990	10.29563	1.1918079	4.5267	1.51404	2.24664	9.735
11:38:45				991	10.29179	1.1919689	4.5267	1.51404	1.9536	9.73744
11:38:46				992	10.2889	1.1922909	4.5267	1.4652	2.14896	9.74106
11:38:46				993	10.28602	1.1919689	4.5267	1.51404	1.80708	9.73899
11:38:47				994	10.29082	1.1921299	4.4283	1.51404	1.7094	9.73914
11:38:47				995	10.29179	1.1932547	4.5267	1.51404	1.80708	9.7488
11:38:48				996	10.28698	1.1921299	4.6251	1.51404	1.9536	9.74014
11:38:48				997	10.28602	1.1919689	4.5267	1.4652	2.00244	9.73899
11:38:49				998	10.28794	1.191647	4.5267	1.51404	1.9536	9.73563
11:38:49				999	10.28794	1.1924496	4.5267	1.51404	1.90476	9.74272
11:38:50				1000	10.28506	1.1919689	4.5267	1.51404	2.442	9.73924
11:38:50				1001	10.2841	1.191808	4.5267	1.51404	1.75824	9.73808
11:38:51				1002	10.28506	1.1938989	4.5267	1.4652	1.90476	9.75628
11:38:51				1003	10.2841	1.1937378	4.5267	1.56288	1.85592	9.75512

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:52				1004	10.28308	1.1934157	4.6251	1.4652	1.90476	9.75253
11:38:52				1005	10.28212	1.1929327	4.5267	1.4652	1.75824	9.74854
11:38:53				1006	10.28308	1.194541	4.6251	1.51404	1.80708	9.76247
11:38:53				1007	10.28212	1.1940599	4.6251	1.51404	1.90476	9.75848
11:38:54				1008	10.28212	1.1929327	4.6251	1.51404	1.85592	9.74852
11:38:54				1009	10.28308	1.1935768	4.6251	1.4652	2.10012	9.75396
11:38:55				1010	10.28308	1.1926107	4.6251	1.4652	1.80708	9.74542
11:38:55				1011	10.28115	1.1926107	4.6251	1.51404	1.85592	9.74594
11:38:56				1012	10.28308	1.1926107	4.5267	1.51404	1.85592	9.74544
11:38:56				1013	10.28308	1.1934157	4.5267	1.51404	1.9536	9.75255
11:38:57				1014	10.28212	1.1935768	4.6251	1.4652	1.80708	9.75421
11:38:57				1015	10.28115	1.1926107	4.6251	1.51404	1.80708	9.74594
11:38:58				1016	10.28212	1.1937378	4.5267	1.51404	1.80708	9.75565
11:38:58				1017	10.28115	1.1951854	4.5267	1.51404	1.85592	9.76869
11:38:59				1018	10.28212	1.194221	4.6251	1.51404	1.90476	9.7599
11:38:59				1019	10.28019	1.1938989	4.5267	1.4652	1.7094	9.75759
11:39:00				1020	10.28115	1.1956666	4.6251	1.51404	2.05128	9.77293
11:39:00				1021	10.28115	1.1958278	4.6251	1.51404	1.90476	9.77435
11:39:01				1022	10.28308	1.1953465	4.6251	1.51404	1.80708	9.76959
11:39:01				1023	10.28308	1.1948632	4.6251	1.51404	2.05128	9.76532
11:39:02				1024	10.28115	1.1953465	4.6251	1.51404	1.90476	9.7701
11:39:02				1025	10.28212	1.1955077	4.6251	1.51404	1.90476	9.77127
11:39:03				1026	10.28212	1.1953465	4.6251	1.4652	1.90476	9.76984
11:39:03				1027	10.28115	1.1959889	4.5267	1.51404	1.75824	9.77579
11:39:04				1028	10.28115	1.1963113	4.6251	1.51404	1.90476	9.77862
11:39:04				1029	10.2841	1.1955077	4.6251	1.51404	1.90476	9.77074
11:39:05				1030	10.28115	1.1953465	4.6251	1.51404	1.80708	9.7701
11:39:05				1031	10.28115	1.1951854	4.5267	1.4652	1.80708	9.76869
11:39:06				1032	10.27731	1.1953466	4.6251	1.51404	1.90476	9.77113
11:39:06				1033	10.27731	1.1959889	4.6251	1.51404	1.85592	9.77681
11:39:07				1034	10.27539	1.1958278	4.6251	1.51404	2.10012	9.7759
11:39:07				1035	10.27347	1.1955077	4.5267	1.51404	1.90476	9.7736
11:39:08				1036	10.27827	1.1955077	4.6251	1.4652	1.9536	9.7723
11:39:08				1037	10.27827	1.1959889	4.6251	1.51404	1.85592	9.77655
11:39:09				1038	10.27539	1.1958278	4.6251	1.4652	2.24664	9.7759
11:39:09				1039	10.2725	1.1955077	4.6251	1.4652	2.14896	9.77385
11:39:10				1040	10.27443	1.1971151	4.6251	1.51404	2.00244	9.78753
11:39:10				1041	10.2725	1.1969539	4.6251	1.51404	2.14896	9.78662
11:39:11				1042	10.27347	1.1969539	4.5267	1.51404	1.90476	9.78638
11:39:11				1043	10.27154	1.1964725	4.6251	1.41636	1.80708	9.78263
11:39:12				1044	10.27347	1.1967927	4.6251	1.51404	2.34432	9.78494
11:39:12				1045	10.27154	1.1964725	4.6251	1.51404	2.10012	9.78263
11:39:13				1046	10.2725	1.195989	4.6251	1.51404	2.00244	9.7781
11:39:13				1047	10.2725	1.1961501	4.6251	1.4652	2.00244	9.77952
11:39:14				1048	10.27347	1.1961501	4.6251	1.4652	2.14896	9.77926

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:14				1049	10.2725	1.1963113	4.6251	1.51404	1.90476	9.78095
11:39:15				1050	10.27347	1.195989	4.6251	1.4652	1.90476	9.77784
11:39:15				1051	10.27347	1.1961501	4.6251	1.4652	2.00244	9.77926
11:39:16				1052	10.27539	1.195989	4.6251	1.4652	2.14896	9.77732
11:39:16				1053	10.27539	1.1961501	4.6251	1.51404	1.9536	9.77875
11:39:17				1054	10.27443	1.1961501	4.6251	1.51404	1.66056	9.77901
11:39:17				1055	10.27443	1.1961501	4.6251	1.4652	1.80708	9.77901
11:39:18				1056	10.27443	1.195989	4.6251	1.51404	2.05128	9.77758
11:39:18				1057	10.27443	1.1958278	4.6251	1.51404	2.00244	9.77616
11:39:19				1058	10.27347	1.195989	4.5267	1.51404	1.80708	9.77785
11:39:19				1059	10.2725	1.1961501	4.6251	1.51404	1.85592	9.77952
11:39:20				1060	10.27347	1.195989	4.6251	1.4652	2.10012	9.77784
11:39:20				1061	10.27347	1.1963113	4.5267	1.51404	2.58852	9.7807
11:39:21				1062	10.27443	1.1963113	4.6251	1.51404	2.88156	9.78043
11:39:21				1063	10.27539	1.1963113	4.6251	1.4652	2.00244	9.78017
11:39:22				1064	10.27539	1.1961501	4.5267	1.51404	2.1978	9.77876
11:39:22				1065	10.27539	1.1966337	4.6251	1.4652	3.36996	9.78302
11:39:23				1066	10.27539	1.1964725	4.6251	1.51404	1.80708	9.7816
11:39:23				1067	10.27539	1.1967927	4.6251	1.4652	1.75824	9.78443
11:39:24				1068	10.27443	1.1967927	4.6251	1.4652	2.10012	9.78468
11:39:24				1069	10.27539	1.1971151	4.6251	1.51404	1.90476	9.78727
11:39:25				1070	10.27539	1.1969539	4.6251	1.4652	1.80708	9.78585
11:39:25				1071	10.27539	1.1967927	4.6251	1.51404	1.85592	9.78443
11:39:26				1072	10.27539	1.1971151	4.6251	1.4652	2.14896	9.78727
11:39:26				1073	10.27539	1.1971151	4.6251	1.51404	3.4188	9.78727
11:39:27				1074	10.27635	1.1967927	4.5267	1.51404	2.1978	9.78418
11:39:27				1075	10.27539	1.1967927	4.6251	1.51404	1.9536	9.78443
11:39:28				1076	10.27539	1.1969539	4.6251	1.51404	1.90476	9.78585
11:39:28				1077	10.27539	1.1967927	4.6251	1.4652	2.39316	9.78443
11:39:29				1078	10.27635	1.1964725	4.6251	1.51404	2.00244	9.78134
11:39:29				1079	10.27539	1.1964725	4.6251	1.51404	1.85592	9.7816
11:39:30				1080	10.27539	1.1963113	4.6251	1.4652	1.85592	9.78017
11:39:30				1081	10.27443	1.1961501	4.6251	1.51404	1.85592	9.77901
11:39:31				1082	10.27539	1.1956666	4.6251	1.51404	2.00244	9.77448
11:39:31				1083	10.27539	1.1953466	4.6251	1.51404	2.00244	9.77165
11:39:32				1084	10.27443	1.1955077	4.6251	1.41636	2.05128	9.77333
11:39:33				1087	10.27839	1.1954922	4.5267	1.51404	2.00244	9.77214
11:39:34				1088	10.27839	1.1958145	4.6251	1.4652	1.90476	9.77498
11:39:34				1089	10.27839	1.1959757	4.6251	1.4652	2.05128	9.7764
11:39:35				1090	10.27743	1.1956534	4.6251	1.51404	2.24664	9.77381
11:39:35				1091	10.27935	1.1956534	4.6251	1.51404	1.85592	9.7733
11:39:36				1092	10.27935	1.1956534	4.6251	1.4652	1.75824	9.7733
11:39:36				1093	10.27935	1.1971018	4.6251	1.51404	1.80708	9.78609
11:39:37				1094	10.27743	1.196298	4.5267	1.51404	2.00244	9.77952
11:39:37				1095	10.28127	1.1959757	4.6251	1.51404	1.75824	9.77563

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:38				1096	10.27935	1.196298	4.5267	1.4652	1.80708	9.77901
11:39:38				1097	10.27839	1.1969406	4.6251	1.51404	2.00244	9.78493
11:39:39				1098	10.28127	1.1966182	4.6251	1.4652	1.9536	9.7813
11:39:39				1099	10.28127	1.1959757	4.6251	1.51404	2.34432	9.77563
11:39:40				1100	10.28127	1.196457	4.5267	1.51404	2.1978	9.77989
11:39:40				1101	10.28031	1.1956534	4.6251	1.4652	2.05128	9.77304
11:39:41				1102	10.28224	1.1953311	4.6251	1.51404	1.90476	9.76968
11:39:41				1103	10.2832	1.1948499	4.5267	1.51404	2.24664	9.76518
11:39:42				1104	10.28512	1.1951721	4.5267	1.4652	2.00244	9.76751
11:39:42				1105	10.28608	1.197263	4.6251	1.4652	1.90476	9.78571
11:39:43				1106	10.28608	1.1975833	4.6251	1.51404	2.05128	9.78854
11:39:43				1107	10.28704	1.1959757	4.6251	1.51404	1.85592	9.77408
11:39:44				1108	10.28704	1.1921145	4.5267	1.4652	1.85592	9.74
11:39:44				1109	10.29473	1.1885772	4.1331	1.51404	1.90476	9.70678
11:39:45				1110	10.2832	1.1842345	3.838	1.51404	1.9536	9.67156
11:39:45	11:38:30 end transect	2.5	270	1111	10.28608	1.1564101	3.5428	1.51404	1.9536	9.42559
11:39:46				1112	10.29665	1.1403276	3.3461	1.51404	2.24664	9.28143
11:39:46				1113	10.3149	1.1303585	3.0509	1.4652	2.10012	9.18928
11:39:47				1114	10.32451	1.1298764	2.7558	1.51404	2.1978	9.18267
11:39:47				1115	10.31875	1.1144397	2.4606	1.51404	2.29548	9.04876
11:39:48				1116	10.31106	1.0977168	2.1655	1.4652	2.29548	8.9042
11:39:48				1117	10.28512	1.0745654	1.9687	1.4652	2.442	8.70794
11:39:49				1118	10.21872	0.9816581	1.5752	1.4652	2.39316	7.91347
11:39:49				1119	10.12233	0.9676783	1.2801	1.51404	2.63736	7.81283
11:39:50				1120	10.02677	0.7550185	1.0833	1.4652	3.4188	5.99888
11:39:50				1121	10.02098	0.6421907	0.8865	1.51404	4.3956	5.04409
11:39:51				1122	9.93693	0.6258254	0.8865	1.51404	4.98168	4.91797
11:39:51				1123	9.88372	0.6593601	0.8865	1.51404	5.22589	5.20832
11:39:52				1124	9.85175	0.5977526	0.8865	1.51404	5.81197	4.69329
11:39:52				1125	9.8237	0.6083399	0.7881	1.4652	5.76313	4.78599
11:39:53				1126	9.80138	0.5251011	0.6898	1.51404	6.00733	4.09199
11:39:53				1127	9.7704	0.5371285	0.6898	1.51404	6.15385	4.19575
11:39:54				1128	9.76652	0.5347229	0.6898	1.51404	5.76313	4.17613
11:39:54				1129	9.78492	0.3270375	0.6898	1.41636	12.06349	2.47321
11:39:55				1130	9.78492	0.3510607	0.6898	1.56288	4.3956	2.66646
11:39:55				1131	9.78589	0.0704101	0.6898	1.51404	2.9304	0.49271
11:39:56				1132	9.78686	0.0541093	0.6898	1.4652	2.63736	0.37479
11:39:56	11:38:46	2.5	270	1133	9.78299	0.1325983	0.6898	0	0	0.95455
11:40:53	10:39:34 switch on	0.2	180	7	10.12179	0.9672226	1.3784	0	0	7.80897
11:40:54				8	10.1189	0.9599914	1.2801	0	0	7.74673
11:40:54				9	10.12275	0.9527591	1.3784	0	0	7.68307
11:40:55				10	10.13431	0.9654538	1.2801	0	0	7.79092
11:40:55				11	10.14009	0.9668998	1.2801	0	0	7.80225
11:40:56				12	10.12949	0.9672226	1.2801	0	0	7.80733

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:56				13	10.1266	0.9667405	1.2801	0	0	7.80376
11:40:57				14	10.12853	0.9792749	1.3784	0	0	7.91238
11:40:57				15	10.13238	0.9868287	1.3784	0	0	7.97732
11:40:58				16	10.13913	0.9902034	1.3784	0	0	8.00523
11:40:58				17	10.14882	1.000168	1.2801	0	0	8.08994
11:40:59				18	10.15748	1.0051512	1.3784	0	0	8.13144
11:40:59				19	10.16326	1.0040267	1.3784	0	0	8.12034
11:41:00				20	10.16326	1.0151173	1.2801	0	0	8.21708
11:41:00				21	10.16422	1.0160819	1.3784	0	0	8.22527
11:41:01				22	10.16711	1.0099732	1.2801	0	0	8.17134
11:41:01				23	10.16711	1.0136709	1.2801	0	0	8.20359
11:41:02				24	10.17481	1.0009723	1.2801	0	0	8.09116
11:41:02				25	10.18444	0.9998474	1.3784	0	0	8.07922
11:41:03				26	10.18636	1.0085273	1.2801	0	0	8.15442
11:41:03				27	10.18636	1.0107762	1.3784	0	0	8.17401
11:41:04				28	10.18251	1.0122232	1.3784	0	0	8.18749
11:41:04				29	10.18251	1.0141529	1.3784	0	0	8.20431
11:41:05				30	10.18155	1.0223497	1.3784	0	0	8.27604
11:41:05				31	10.17962	1.0271719	1.2801	0	0	8.31859
11:41:06				32	10.1777	1.0284581	1.3784	0	0	8.33025
11:41:06				33	10.17577	1.0175274	1.1817	0	0	8.23529
11:41:07				34	10.17577	1.0282973	1.3784	0	0	8.32928
11:41:07				35	10.15748	1.027172	1.2801	0	0	8.32365
11:41:08				36	10.15748	1.011098	1.3784	0	0	8.1833
11:41:08				37	10.17577	1.0175274	1.2801	0	0	8.23528
11:41:09				38	10.14587	1.0172072	1.3784	0	0	8.23925
11:41:09				39	10.15941	1.0083656	1.3784	0	0	8.15904
11:41:10				40	10.16711	1.0070802	1.3784	0	0	8.1461
11:41:10				41	10.14394	0.9961514	1.2801	0	0	8.05601
11:41:11				42	10.13335	1.0038653	1.3784	0	0	8.12562
11:41:11				43	10.13624	1.0024185	1.3784	0	0	8.11235
11:41:12				44	10.1266	0.9906856	1.3784	0	0	8.01219
11:41:12				45	10.10445	0.9532409	1.2801	0	0	7.69113
11:41:13				46	10.08318	0.9898822	1.3784	0	0	8.01476
11:41:13				47	10.07933	0.9951856	1.3784	0	0	8.0619
11:41:14				48	10.06776	0.937334	1.3784	0	0	7.56064
11:41:14				49	10.03883	0.9145183	1.3784	0	0	7.36858
11:41:15				50	10.02816	0.9770249	1.3784	0	0	7.91463
11:41:15				51	10.01562	0.9381364	1.3784	0	0	7.57848
11:41:16				52	10.00114	0.8693761	1.3784	0	0	6.98524
11:41:16				53	9.97405	0.9418339	1.3784	0	0	7.61937
11:41:17				54	9.96054	0.9444037	1.3784	0	0	7.64461
11:41:17				55	9.94605	0.8550796	1.3784	0	0	6.87222
11:41:18				56	9.94219	0.8719466	1.3784	0	0	7.01885
11:41:18				57	9.91991	0.9326749	1.3784	0	0	7.55089

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:19				58	9.90541	0.8741941	1.3784	0	0	7.04546
11:41:19				59	9.91121	0.7914832	1.2801	0	0	6.3306
11:41:20				60	9.90251	0.8899381	1.3784	0	0	7.18262
11:41:20				61	9.88705	0.9085737	1.3784	0	0	7.34773
11:41:21				62	9.87248	0.7934104	1.3784	0	0	6.35393
11:41:21				63	9.87152	0.7826523	1.3784	0	0	6.26162
11:41:22				64	9.85895	0.8809425	1.3784	0	0	7.11309
11:41:22				65	9.85604	0.8579707	1.3784	0	0	6.91436
11:41:23				66	9.85314	0.7950162	1.3784	0	0	6.37115
11:41:23				67	9.85121	0.8247237	1.3784	0	0	6.62764
11:41:24				68	9.85024	0.8698589	1.3784	0	0	7.01857
11:41:24				69	9.8425	0.8088252	1.3784	0	0	6.49201
11:41:25				70	9.83767	0.785061	1.3784	0	0	6.28819
11:41:25				71	9.83186	0.8542775	1.3784	0	0	6.88696
11:41:26				72	9.83089	0.8346827	1.3784	0	0	6.71746
11:41:26				73	9.83283	0.8032051	1.3784	0	0	6.44529
11:41:27				74	9.8367	0.8022413	1.3784	0	0	6.43629
11:41:27				75	9.83767	0.8200681	1.3784	0	0	6.58991
11:41:28				76	9.83767	0.8521885	1.3784	0	0	6.86775
11:41:28				77	9.83476	0.8032051	1.3784	0	0	6.44494
11:41:29				78	9.8367	0.7804037	1.3784	0	0	6.24831
11:41:29				79	9.8425	0.8314697	1.3784	0	0	6.68753
11:41:30				80	9.84444	0.8627904	1.3784	0	0	6.95836
11:41:30				81	9.84444	0.8133227	1.3784	0	0	6.53046
11:41:31				82	9.8454	0.7791189	1.3784	0	0	6.23576
11:41:31				83	9.8454	0.8208711	1.3784	0	0	6.59543
11:41:32				84	9.84637	0.8398213	1.3784	0	0	6.75903
11:41:32				85	9.84927	0.81525	1.4768	0	0	6.5462
11:41:33				86	9.85024	0.8123586	1.3784	0	0	6.52109
11:41:33				87	9.85314	0.7990306	1.3784	0	0	6.40571
11:41:34				88	9.85314	0.7852208	1.3784	0	0	6.28688
11:41:34				89	9.86088	0.8468877	1.3784	0	0	6.81746
11:41:35				90	9.87248	0.8271341	1.3784	0	0	6.64455
11:41:35				91	9.87055	0.7672379	1.3784	0	0	6.12947
11:41:36				92	9.87055	0.809146	1.3784	0	0	6.48975
11:41:36				93	9.88125	0.8562036	1.3784	0	0	6.89425
11:41:37				94	9.88415	0.8006363	1.3784	0	0	6.41405
11:41:37				95	9.88221	0.7609754	1.3784	0	0	6.07382
11:41:38				96	9.88125	0.737698	1.3784	0.63492	0.29304	5.87482
11:41:38				97	9.87538	0.7319187	1.4768	0.39072	0.09768	5.82639
11:41:39				98	9.88801	0.7319187	1.3784	1.51404	1.02564	5.82436
11:41:39				99	9.88608	0.7356098	1.3784	1.4652	4.54212	5.85619
11:41:40				100	9.88415	0.7340054	1.3784	1.4652	4.3956	5.8428
11:41:40				101	9.88511	0.7296705	1.3784	1.51404	4.44444	5.80564
11:41:41				102	9.88608	0.7171498	1.3784	1.51404	4.54212	5.6987

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:41				103	9.88608	0.7131368	1.3784	1.4652	4.93284	5.6645
11:41:42				104	9.88608	0.7179533	1.3784	1.4652	4.6398	5.70554
11:41:42				105	9.88801	0.7222878	1.3784	1.4652	4.54212	5.74219
11:41:43				106	9.88608	0.7195574	1.3784	1.4652	4.59096	5.71922
11:41:43				107	9.88415	0.7211627	1.2801	1.56288	4.59096	5.73322
11:41:44				108	9.88318	0.7187552	1.3784	1.4652	4.98168	5.71284
11:41:44				109	9.87442	0.7611373	1.3784	1.51404	4.54212	6.07652
11:41:45				110	9.87931	0.7842565	1.3784	1.4652	4.59096	6.27405
11:41:45				111	9.89188	0.7502186	1.3784	1.4652	4.29792	5.98012
11:41:46				112	9.89381	0.7221268	1.3784	1.4652	4.44444	5.7399
11:41:46				113	9.88125	0.7410681	1.3784	1.51404	4.49328	5.90362
11:41:47				114	9.88125	0.7553569	1.3784	1.51404	4.59096	6.02586
11:41:47				115	9.89091	0.7686823	1.3784	1.4652	4.884	6.13841
11:41:48				116	9.90541	0.7564802	1.3784	1.4652	4.49328	6.03146
11:41:48				117	9.89381	0.7723761	1.3784	1.51404	4.34676	6.16959
11:41:49				118	9.88995	0.7686823	1.3784	1.4652	4.68864	6.13857
11:41:49				119	9.90348	0.7656319	1.3784	1.4652	4.49328	6.11014
11:41:50				120	9.91024	0.7678797	1.3784	1.51404	4.49328	6.12826
11:41:50				121	9.91121	0.7898779	1.3784	1.51404	4.44444	6.3168
11:41:51				122	9.91701	0.8001538	1.3784	1.4652	4.3956	6.40409
11:41:51				123	9.9286	0.78763	1.3784	1.51404	4.73748	6.29448
11:41:52				124	9.9257	0.7786368	1.3784	1.51404	4.49328	6.21783
11:41:53				127	9.9312	0.7852168	1.3784	1.51404	4.34676	6.27332
11:41:54				128	9.92631	0.7815238	1.3784	1.4652	4.44444	6.24248
11:41:54				129	9.92631	0.7853785	1.3784	1.51404	4.884	6.27555
11:41:55				130	9.92733	0.7868228	1.3784	1.51404	4.49328	6.28777
11:41:55				131	9.9283	0.7778308	1.3784	1.4652	4.44444	6.21047
11:41:56				132	9.93023	0.8068951	1.3784	1.51404	4.3956	6.45971
11:41:56				133	9.94569	0.8423865	1.3784	1.51404	4.24908	6.76267
11:41:57				134	9.96597	0.8187789	1.3784	1.4652	4.34676	6.55552
11:41:57				135	9.96693	0.8080182	1.3784	1.4652	3.95604	6.46283
11:41:58				136	9.95824	0.8366052	1.3784	1.51404	4.1514	6.71047
11:41:58				137	9.95148	0.8767593	1.3784	1.4652	4.20024	7.05872
11:41:59				138	9.97466	0.890575	1.3784	1.51404	4.29792	7.17386
11:41:59				139	9.9892	0.9153159	1.3784	1.51404	4.29792	7.38559
11:42:00				140	9.98727	0.870335	1.3784	1.4652	4.10256	6.9962
11:42:00				141	10.0056	0.8876825	1.3784	1.51404	4.24908	7.1427
11:42:01				142	10.02104	0.8900926	1.3784	1.4652	4.49328	7.16052
11:42:01				143	10.03455	0.8794909	1.3784	1.4652	4.05372	7.06618
11:42:02				144	10.04522	0.9013378	1.3784	1.4652	4.3956	7.25307
11:42:02				145	10.05293	0.8873612	1.3784	1.4652	3.85836	7.13062
11:42:03				146	10.0674	0.917565	1.3784	1.51404	3.663	7.38919
11:42:03				147	10.07897	0.9468072	1.4768	1.4652	3.76068	7.64058
11:42:04				148	10.08475	0.9318636	1.3784	1.51404	3.36996	7.50963
11:42:04				149	10.08379	0.9328277	1.3784	1.51404	3.51648	7.51819

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:05				150	10.08186	0.9754116	1.3784	1.4652	3.95604	7.88888
11:42:05				151	10.08379	0.9582173	1.3784	1.4652	3.663	7.73877
11:42:06				152	10.08571	0.9416656	1.3784	1.51404	3.1746	7.59451
11:42:06				153	10.09053	0.9419874	1.3784	1.51404	3.1746	7.5963
11:42:07				154	10.0915	0.9619117	1.3784	1.51404	3.1746	7.76927
11:42:07				155	10.0983	0.9550037	1.3784	1.51404	3.46764	7.70774
11:42:08				156	10.10505	0.9537165	1.3784	1.4652	3.1746	7.69513
11:42:08				157	10.10023	0.9532348	1.3784	1.4652	3.32112	7.69196
11:42:09				158	10.09927	0.9538772	1.3784	1.4652	3.12576	7.69775
11:42:09				159	10.0983	0.9522715	1.3784	1.4652	2.97924	7.684
11:42:10				160	10.09927	0.9641618	1.3784	1.51404	3.22344	7.78718
11:42:10				161	10.10119	0.9675374	1.3784	1.4652	2.9304	7.81613
11:42:11				162	10.10216	0.9609494	1.3784	1.51404	2.88156	7.75862
11:42:11				163	10.10216	0.9617526	1.3784	1.4652	2.9304	7.7656
11:42:12				164	10.10119	0.9604663	1.3784	1.4652	2.9304	7.75462
11:42:12				165	10.10119	0.9603053	1.3784	1.4652	2.9304	7.75322
11:42:13				166	10.10119	0.964323	1.3784	1.51404	2.88156	7.78817
11:42:13				167	10.10312	0.9696265	1.3784	1.51404	2.88156	7.8339
11:42:14				168	10.10312	0.9683405	1.3784	1.51404	2.9304	7.82271
11:42:14				169	10.10408	0.9606273	1.3784	1.4652	2.78388	7.75541
11:42:15				170	10.10312	0.9696265	1.3784	1.4652	2.73504	7.8339
11:42:15				171	10.10119	0.983929	1.3784	1.51404	2.88156	7.95889
11:42:16				172	10.10505	0.9828048	1.3784	1.51404	3.22344	7.94825
11:42:16				173	10.10697	0.9803936	1.3784	1.51404	2.97924	7.92682
11:42:17				174	10.10697	1.000805	1.3784	1.4652	2.63736	8.1048
11:42:17				175	10.10601	1.0040186	1.3784	1.4652	2.83272	8.13307
11:42:18				176	10.10987	0.9749299	1.3784	1.4652	2.78388	7.87861
11:42:18				177	10.10987	0.9831253	1.3784	1.4652	3.02808	7.94999
11:42:19				178	10.10987	1.0110899	1.3784	1.51404	3.1746	8.19396
11:42:19				179	10.11854	0.9979112	1.3784	1.51404	3.07692	8.07698
11:42:20				180	10.12528	1.0020896	1.3784	1.51404	2.83272	8.11192
11:42:20				181	10.13106	1.0017689	1.3784	1.4652	2.83272	8.10784
11:42:21				182	10.13299	1.0181622	1.3784	1.51404	2.97924	8.25051
11:42:21				183	10.13395	1.0475789	1.4768	1.51404	2.9304	8.50759
11:42:22				184	10.14551	1.0503111	1.4768	1.51404	2.88156	8.52881
11:42:22				185	10.15808	1.0429174	1.4768	1.51404	2.63736	8.46115
11:42:23				186	10.17156	1.0400243	1.5752	1.51404	2.78388	8.4327
11:42:23				187	10.1706	1.0393806	1.4768	1.4652	2.78388	8.42731
11:42:24				188	10.16579	1.0522414	1.4768	1.4652	2.63736	8.54096
11:42:24				189	10.17638	1.0578672	1.5752	1.51404	2.6862	8.58771
11:42:25				190	10.17638	1.0601171	1.6736	1.4652	2.83272	8.6074
11:42:25				191	10.17541	1.0522414	1.6736	1.51404	2.63736	8.53867
11:42:26				192	10.17541	1.0520793	1.6736	1.4652	2.442	8.53725
11:42:26				193	10.17541	1.0602798	1.772	1.51404	2.39316	8.60904
11:42:27				194	10.1783	1.0633326	1.772	1.4652	2.442	8.63509

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:27				195	10.18119	1.0588315	1.772	1.4652	2.442	8.59499
11:42:28				196	10.18311	1.0659062	1.8703	1.51404	2.49084	8.65649
11:42:28				197	10.18985	1.0702466	1.8703	1.4652	2.53968	8.69291
11:42:29				198	10.19274	1.0937208	1.9687	1.4652	2.39316	8.8981
11:42:29	11:41:14 start vertical profile	0.2	180	199	10.2014	1.1033661	2.0671	1.51404	2.34432	8.98068
11:42:30				200	10.21493	1.1109239	2.0671	1.4652	2.442	9.04373
11:42:30				201	10.24378	1.0810191	2.1655	1.51404	2.53968	8.77431
11:42:31				202	10.24378	1.0699244	2.1655	1.4652	2.34432	8.67719
11:42:31				203	10.22551	1.1109239	2.1655	1.4652	2.49084	9.04109
11:42:32				204	10.26884	1.1168731	2.2639	1.51404	2.58852	9.08255
11:42:32				205	10.31496	1.1176779	2.3623	1.4652	3.07692	9.07811
11:42:33				206	10.32751	1.1028837	2.4606	1.51404	2.34432	8.94537
11:42:33				207	10.31496	1.1033658	2.4606	1.4652	2.39316	8.95267
11:42:34				208	10.31496	1.1086734	2.4606	1.4652	2.34432	8.99917
11:42:34				209	10.31689	1.1176779	2.559	1.51404	2.39316	9.0776
11:42:35				210	10.32463	1.1167136	2.559	1.51404	2.24664	9.06722
11:42:35				211	10.33039	1.1097982	2.6574	1.4652	2.442	9.00519
11:42:36				212	10.32943	1.102723	2.6574	1.51404	2.34432	8.94347
11:42:36				213	10.31785	1.1146225	2.6574	1.51404	2.24664	9.05056
11:42:37				214	10.32655	1.1163908	2.6574	1.51404	2.1978	9.0639
11:42:37				215	10.33327	1.1178394	2.7558	1.51404	2.1978	9.07491
11:42:38				216	10.33904	1.1163908	2.8542	1.4652	2.29548	9.06077
11:42:38				217	10.34	1.1162294	2.8542	1.4652	2.14896	9.05912
11:42:39				218	10.34096	1.1154269	2.9526	1.56288	2.00244	9.05184
11:42:39				219	10.33808	1.1176779	2.9526	1.51404	2.24664	9.07228
11:42:40				220	10.33904	1.1286122	3.0509	1.4652	2.39316	9.16788
11:42:40				221	10.33231	1.1245919	3.0509	1.51404	2.24664	9.13431
11:42:41				222	10.33327	1.1229849	3.1493	1.4652	2.05128	9.11997
11:42:41				223	10.33231	1.1323111	3.1493	1.51404	2.05128	9.20201
11:42:42				224	10.33039	1.1411561	3.1493	1.51404	2.1978	9.28015
11:42:42				225	10.32361	1.161258	3.2477	1.4652	2.1978	9.45858
11:42:43				226	10.30344	1.1504835	3.3461	1.4652	2.14896	9.36899
11:42:43				227	10.29671	1.1503225	3.3461	1.51404	2.24664	9.3693
11:42:44				228	10.29383	1.1485541	3.3461	1.51404	2.10012	9.35449
11:42:44				229	10.29575	1.159167	3.3461	1.4652	2.05128	9.44739
11:42:45				230	10.29383	1.1601316	3.4445	1.51404	2.29548	9.45636
11:42:45				231	10.28902	1.1717129	3.5428	1.51404	2.10012	9.55963
11:42:46				232	10.28806	1.1713909	3.5428	1.51404	2.39316	9.55704
11:42:46				233	10.28806	1.1617407	3.5428	1.41636	2.10012	9.47202
11:42:47				234	10.28806	1.1606141	3.6412	1.51404	1.85592	9.46208
11:42:47				235	10.28902	1.1783078	3.6412	1.51404	2.00244	9.61776
11:42:48				236	10.28902	1.1800756	3.7396	1.4652	2.34432	9.63334
11:42:48				237	10.29191	1.1786283	3.838	1.4652	2.05128	9.6198
11:42:49				238	10.29383	1.168656	3.9364	1.51404	2.10012	9.53138
11:42:49				239	10.29479	1.1683343	3.838	1.51404	2.10012	9.5283

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:50				240	10.29383	1.1710689	3.9364	1.51404	2.00244	9.55264
11:42:50				241	10.29479	1.1712288	3.9364	1.4652	2.05128	9.5538
11:42:51				242	10.29575	1.1660831	3.9364	1.51404	2.442	9.50821
11:42:51				243	10.29671	1.1602932	3.9364	1.51404	2.00244	9.45697
11:42:52				244	10.29671	1.1713909	3.9364	1.4652	1.9536	9.55472
11:42:53				247	10.29323	1.1729532	4.1331	1.51404	1.9536	9.56938
11:42:54				248	10.29323	1.1745624	4.2315	1.4652	1.9536	9.58355
11:42:54				249	10.29323	1.1663587	4.2315	1.4652	2.34432	9.51125
11:42:55				250	10.29515	1.1687721	4.2315	1.51404	2.10012	9.53201
11:42:55				251	10.29611	1.1800295	4.2315	1.51404	2.24664	9.63099
11:42:56				252	10.29323	1.1858208	4.3299	1.4652	2.14896	9.68283
11:42:56				253	10.29419	1.178905	4.4283	1.4652	2.14896	9.62155
11:42:57				254	10.29419	1.1764927	4.5267	1.4652	2.00244	9.60027
11:42:57				255	10.29419	1.1832471	4.5267	1.56288	1.9536	9.65984
11:42:58				256	10.29323	1.1885553	4.6251	1.51404	2.10012	9.70691
11:42:58				257	10.29227	1.1826029	4.7234	1.4652	2.00244	9.65463
11:42:59				258	10.29323	1.1816379	4.7234	1.4652	1.90476	9.64587
11:42:59				259	10.29323	1.1774561	4.7234	1.51404	1.85592	9.60899
11:43:00				260	10.29323	1.1785823	4.7234	1.51404	2.10012	9.61892
11:43:00				261	10.29419	1.1787448	4.7234	1.4652	1.90476	9.6201
11:43:01				262	10.29323	1.1919315	4.8218	1.4652	2.05128	9.73669
11:43:01				263	10.29515	1.1975612	4.9202	1.4652	2.14896	9.78587
11:43:02				264	10.29323	1.1887161	5.0186	1.51404	2.24664	9.70828
11:43:02				265	10.29515	1.1932194	5.0186	1.4652	2.14896	9.74751
11:43:03				266	10.29323	1.2006175	5.117	1.51404	2.63736	9.81335
11:43:03				267	10.29419	1.1957925	5.2153	1.51404	2.1978	9.77046
11:43:04				268	10.29323	1.1965962	5.3137	1.4652	2.10012	9.7778
11:43:04				269	10.29323	1.2019046	5.4121	1.4652	2.10012	9.82468
11:43:05				270	10.29323	1.1996537	5.4121	1.51404	1.9536	9.80479
11:43:05				271	10.29515	1.2006176	5.5105	1.51404	1.90476	9.81277
11:43:06				272	10.29899	1.2068918	5.6089	1.51404	2.05128	9.86716
11:43:06				273	10.3086	1.2051222	5.6089	1.4652	2.05128	9.84893
11:43:07				274	10.31052	1.205926	5.8056	1.4652	2.24664	9.85548
11:43:07				275	10.31148	1.20866	5.7073	1.4652	2.00244	9.87939
11:43:08				276	10.31148	1.20866	5.8056	1.4652	1.90476	9.87937
11:43:08				277	10.3086	1.207696	5.904	1.51404	1.7094	9.87162
11:43:09				278	10.3086	1.2081791	5.904	1.51404	2.14896	9.87589
11:43:09				279	10.3086	1.2068918	5.904	1.4652	2.00244	9.86451
11:43:10				280	10.3086	1.2054433	5.904	1.4652	1.90476	9.85172
11:43:10				281	10.30668	1.2075343	5.904	1.51404	1.85592	9.87071
11:43:11				282	10.30668	1.2094648	6.0024	1.4652	2.39316	9.88776
11:43:11				283	10.30764	1.2080173	6.1008	1.51404	2.05128	9.87469
11:43:12				284	10.30956	1.2091433	6.0024	1.51404	2.00244	9.88413
11:43:12				285	10.3086	1.2117159	6.1992	1.51404	2.14896	9.9071
11:43:13				286	10.31052	1.213165	6.1992	1.4652	1.9536	9.91938

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:13				287	10.31148	1.216865	6.2976	1.4652	1.80708	9.95182
11:43:14				288	10.31436	1.2167028	6.2976	1.4652	2.14896	9.94959
11:43:14				289	10.31725	1.2152565	6.3959	1.4652	2.00244	9.93601
11:43:15				290	10.31725	1.2195994	6.2976	1.51404	1.80708	9.97442
11:43:15				291	10.31725	1.222817	6.4943	1.51404	2.1978	10.00284
11:43:16				292	10.31917	1.2215282	6.4943	1.51404	1.80708	9.99092
11:43:16				293	10.32109	1.2189545	6.4943	1.4652	1.80708	9.96764
11:43:17				294	10.31917	1.2134868	6.4943	1.4652	1.9536	9.91983
11:43:17				295	10.31629	1.2229773	6.4943	1.51404	2.24664	10.00452
11:43:18				296	10.32013	1.2298931	6.5927	1.4652	1.80708	10.06463
11:43:18				297	10.32397	1.2236208	6.5927	1.4652	1.90476	10.00809
11:43:19				298	10.32877	1.2253893	6.6911	1.51404	1.7094	10.02239
11:43:19				299	10.32781	1.2236208	6.6911	1.51404	1.61172	10.00702
11:43:20				300	10.32781	1.2231376	6.6911	1.51404	1.66056	10.00275
11:43:20				301	10.32781	1.2229773	6.6911	1.51404	1.85592	10.00133
11:43:21				302	10.32397	1.2163828	6.6911	1.51404	1.56288	9.94409
11:43:21				303	10.31917	1.2157386	6.6911	1.4652	1.4652	9.9397
11:43:22				304	10.31821	1.2223339	6.6911	1.4652	1.7094	9.99827
11:43:22				305	10.32205	1.2242644	6.6911	1.4652	1.61172	10.01429
11:43:23				306	10.32397	1.2212078	6.6911	1.4652	1.51404	9.98674
11:43:23				307	10.32301	1.2200821	6.5927	1.4652	1.9536	9.97706
11:43:24				308	10.32013	1.2316629	6.6911	1.51404	1.66056	10.08027
11:43:24				309	10.32013	1.2387426	6.6911	1.56288	1.61172	10.14294
11:43:25				310	10.32109	1.2368103	6.6911	1.4652	1.4652	10.12556
11:43:25				311	10.32397	1.2355249	6.6911	1.51404	1.61172	10.11339
11:43:26				312	10.32397	1.230056	6.6911	1.51404	1.9536	10.06499
11:43:26				313	10.32781	1.2390625	6.6911	1.4652	1.56288	10.14364
11:43:27				314	10.32877	1.2461426	6.6911	1.4652	1.51404	10.20606
11:43:27				315	10.33165	1.2533818	6.6911	1.51404	2.05128	10.26939
11:43:28				316	10.33357	1.2443717	6.6911	1.4652	1.61172	10.18904
11:43:28				317	10.33165	1.2596552	6.6911	1.4652	1.56288	10.32499
11:43:29				318	10.32973	1.2530605	6.6911	1.4652	2.9304	10.26708
11:43:29				319	10.32781	1.2472684	6.6911	1.4652	2.05128	10.2163
11:43:30				320	10.32781	1.2504865	6.6911	1.51404	2.10012	10.24481
11:43:30				321	10.32493	1.2583676	6.5927	1.51404	3.1746	10.31549
11:43:31				322	10.32397	1.2565991	6.6911	1.51404	3.95604	10.30007
11:43:31				323	10.32205	1.2532201	6.6911	1.51404	2.05128	10.27066
11:43:32				324	10.32109	1.2577263	6.6911	1.51404	1.56288	10.31088
11:43:32				325	10.32109	1.2549912	6.6911	1.51404	1.7094	10.28663
11:43:33				326	10.32013	1.2429244	6.6911	1.4652	2.00244	10.17997
11:43:33				327	10.31917	1.2490387	6.5927	1.4652	1.56288	10.23442
11:43:34				328	10.32205	1.2593333	6.6911	1.4652	2.83272	10.32486
11:43:34				329	10.32685	1.2520945	6.6911	1.4652	2.00244	10.25933
11:43:35				330	10.32685	1.2546675	6.6911	1.4652	1.36752	10.28213
11:43:35				331	10.32685	1.2541864	6.6911	1.4652	1.66056	10.27787

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:36				332	10.32589	1.2528987	6.6911	1.4652	1.7094	10.26673
11:43:36				333	10.32685	1.2615853	6.6911	1.4652	1.4652	10.34347
11:43:37				334	10.32973	1.2680209	6.6911	1.4652	1.31868	10.39973
11:43:37				335	10.33165	1.2651262	6.6911	1.4652	1.4652	10.37351
11:43:38				336	10.33261	1.2660916	6.6911	1.4652	1.61172	10.3818
11:43:38				337	10.33261	1.2689871	6.6911	1.4652	1.56288	10.40748
11:43:39				338	10.32973	1.2631941	6.6911	1.4652	1.90476	10.35692
11:43:39				339	10.32877	1.2627118	6.5927	1.4652	1.56288	10.35293
11:43:40				340	10.32973	1.2677004	6.6911	1.51404	1.61172	10.39689
11:43:40				341	10.32781	1.2681834	6.6911	1.51404	1.90476	10.40172
11:43:41				342	10.32589	1.2665744	6.6911	1.4652	1.75824	10.388
11:43:41				343	10.32781	1.2680209	6.6911	1.51404	1.51404	10.40028
11:43:42				344	10.32685	1.2704347	6.6911	1.51404	1.51404	10.42197
11:43:42				345	10.32205	1.2588515	6.6911	1.51404	1.61172	10.32059
11:43:43				346	10.32205	1.2315021	6.6911	1.51404	1.61172	10.07832
11:43:43				347	10.32493	1.2390625	6.3959	1.51404	1.80708	10.14448
11:43:44				348	10.32973	1.2337552	6.1992	1.4652	1.7094	10.0962
11:43:44				349	10.32973	1.2247454	6.2976	1.51404	1.85592	10.01649
11:43:45				350	10.33261	1.2266773	6.2976	1.51404	1.7094	10.03279
11:43:45				351	10.33165	1.2279637	6.1992	1.4652	1.66056	10.04444
11:43:46				352	10.32781	1.2205647	6.0024	1.51404	1.66056	9.9801
11:43:46				353	10.32205	1.2157384	5.8056	1.51404	1.85592	9.93905
11:43:47				354	10.32301	1.2141305	5.7073	1.4652	2.14896	9.92459
11:43:47				355	10.32397	1.2141305	5.7073	1.4652	2.10012	9.92433
11:43:48				356	10.32301	1.2138086	5.6089	1.51404	2.1978	9.92176
11:43:48				357	10.32109	1.2121994	5.4121	1.4652	2.14896	9.9081
11:43:49				358	10.31917	1.2086599	5.2153	1.51404	2.29548	9.87738
11:43:49	11:42:34 end vertical profile	0.2	180	359	10.31917	1.2096265	5.2153	1.51404	2.05128	9.88591
11:43:50				360	10.31917	1.2089813	5.2153	1.4652	2.29548	9.88021
11:43:50				361	10.31917	1.2057642	4.9202	1.51404	2.1978	9.85184
11:43:51				362	10.31629	1.2027096	4.7234	1.51404	2.14896	9.82567
11:43:51				363	10.31629	1.1980449	4.7234	1.4652	2.00244	9.78449
11:43:52				364	10.31629	1.2001354	4.6251	1.51404	1.85592	9.80296
11:43:53				367	10.31833	1.2064419	4.6251	1.51404	1.9536	9.8581
11:43:54				368	10.32121	1.2053147	4.7234	1.51404	2.00244	9.84735
11:43:54				369	10.31929	1.20419	4.6251	1.4652	2.00244	9.83795
11:43:55				370	10.32121	1.1988822	4.6251	1.51404	2.05128	9.79058
11:43:55				371	10.31833	1.2001686	4.7234	1.51404	2.00244	9.80269
11:43:56				372	10.31833	1.2016169	4.7234	1.4652	2.10012	9.81548
11:43:56				373	10.31641	1.2029021	4.6251	1.51404	2.29548	9.82736
11:43:57				374	10.31544	1.2062802	4.7234	1.51404	2.24664	9.85743
11:43:57				375	10.31448	1.2054763	4.7234	1.4652	2.05128	9.85059
11:43:58				376	10.31448	1.2059591	4.6251	1.51404	1.85592	9.85487
11:43:58				377	10.31448	1.2070843	4.7234	1.51404	1.90476	9.8648
11:43:59				378	10.31448	1.2078886	4.7234	1.4652	1.80708	9.8719

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:59				379	10.31641	1.2069248	4.7234	1.51404	1.7094	9.86287
11:44:00				380	10.31544	1.2059591	4.7234	1.51404	2.14896	9.8546
11:44:00				381	10.31737	1.2064419	4.7234	1.51404	2.1978	9.85834
11:44:01				382	10.31641	1.204511	4.7234	1.51404	1.90476	9.84155
11:44:01				383	10.31544	1.204832	4.6251	1.51404	1.85592	9.84466
11:44:02				384	10.31544	1.2016169	4.6251	1.51404	2.05128	9.81627
11:44:02				385	10.31544	1.2004892	4.7234	1.51404	2.00244	9.8063
11:44:03				386	10.31641	1.1995254	4.7234	1.51404	2.00244	9.79753
11:44:03				387	10.31544	1.198721	4.7234	1.51404	2.05128	9.79069
11:44:04				388	10.31544	1.1979168	4.7234	1.51404	1.85592	9.78359
11:44:04				389	10.31544	1.1966291	4.6251	1.51404	2.00244	9.77224
11:44:05				390	10.31448	1.198078	4.6251	1.4652	1.85592	9.78528
11:44:05				391	10.31448	1.1979168	4.7234	1.51404	2.10012	9.78385
11:44:06				392	10.31352	1.197433	4.7234	1.4652	1.85592	9.77983
11:44:06				393	10.31352	1.1990414	4.7234	1.4652	1.80708	9.79403
11:44:07				394	10.3116	1.1985597	4.7234	1.51404	2.10012	9.79029
11:44:07				395	10.3116	1.197433	4.7234	1.4652	1.90476	9.78035
11:44:08				396	10.31256	1.1972718	4.7234	1.4652	2.05128	9.77867
11:44:08				397	10.31064	1.1975943	4.7234	1.4652	1.90476	9.78203
11:44:09				398	10.3116	1.1972718	4.7234	1.4652	1.9536	9.77892
11:44:09				399	10.3116	1.1975943	4.7234	1.4652	2.1978	9.78177
11:44:10				400	10.30968	1.1961478	4.6251	1.4652	1.90476	9.76953
11:44:10				401	10.30968	1.1964679	4.7234	1.4652	1.90476	9.77234
11:44:11				402	10.31064	1.1900357	4.6251	1.4652	2.00244	9.71534
11:44:11				403	10.31064	1.1884253	4.7234	1.51404	2.14896	9.70112
11:44:12				404	10.30872	1.1929304	4.6251	1.4652	2.10012	9.74139
11:44:12				405	10.30872	1.1908379	4.6251	1.51404	2.05128	9.72293
11:44:13				406	10.30872	1.1887491	4.7234	1.4652	2.05128	9.70449
11:44:13				407	10.31064	1.1913207	4.6251	1.51404	1.75824	9.72668
11:44:14				408	10.30968	1.1919645	4.7234	1.51404	1.80708	9.7326
11:44:14	11:42:59 @ 4 m	0.2	180	409	10.31064	1.1808665	4.7234	1.51404	1.85592	9.63446
11:44:15				410	10.31064	1.1818313	4.6251	1.51404	1.9536	9.64298
11:44:15				411	10.30968	1.1884253	4.7234	1.51404	2.10012	9.70137
11:44:16				412	10.31064	1.18328	4.4283	1.56288	1.9536	9.65578
11:44:16				413	10.30968	1.1831195	4.7234	1.51404	2.58852	9.65458
11:44:17				414	10.30872	1.1892315	4.6251	1.51404	2.05128	9.70876
11:44:17				415	10.31064	1.1914816	4.7234	1.4652	1.90476	9.72808
11:44:18				416	10.30968	1.187943	4.6251	1.4652	1.75824	9.69713
11:44:18				417	10.30872	1.1884253	4.7234	1.51404	1.9536	9.70163
11:44:19				418	10.30776	1.1890707	4.7234	1.4652	1.7094	9.70758
11:44:19				419	10.30872	1.1874607	4.7234	1.4652	2.14896	9.69312
11:44:20				420	10.30584	1.1861751	4.7234	1.51404	2.00244	9.68255
11:44:20				421	10.30584	1.1877822	4.7234	1.4652	1.90476	9.69672
11:44:21				422	10.3068	1.1850485	4.7234	1.4652	2.00244	9.67235
11:44:21				423	10.3068	1.1861751	4.7234	1.51404	2.1978	9.68229

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:22				424	10.3068	1.1858538	4.7234	1.4652	2.10012	9.67946
11:44:22				425	10.30584	1.1866572	4.7234	1.51404	1.9536	9.6868
11:44:23				426	10.3068	1.1853697	4.7234	1.51404	2.1978	9.67519
11:44:23				427	10.30776	1.1811874	4.7234	1.51404	2.10012	9.63805
11:44:24				428	10.3068	1.1794189	4.7234	1.51404	2.05128	9.62271
11:44:24				429	10.3068	1.1792586	4.7234	1.51404	2.05128	9.6213
11:44:25				430	10.30488	1.1815104	4.7234	1.4652	2.1978	9.64166
11:44:25				431	10.30776	1.1839222	4.7234	1.4652	2.442	9.66217
11:44:26				432	10.31256	1.1905183	4.7234	1.4652	2.29548	9.71907
11:44:26				433	10.31544	1.1879429	4.7234	1.4652	1.90476	9.69559
11:44:27				434	10.31833	1.1866571	4.7234	1.4652	2.34432	9.68348
11:44:27				435	10.31737	1.1890706	4.7234	1.4652	1.9536	9.70502
11:44:28				436	10.31352	1.1892315	4.7234	1.51404	1.85592	9.70746
11:44:28				437	10.31544	1.1860144	4.7234	1.51404	1.75824	9.67858
11:44:29				438	10.31352	1.1861751	4.7234	1.51404	1.75824	9.68051
11:44:29				439	10.31256	1.190677	4.7234	1.51404	1.80708	9.72047
11:44:30				440	10.31544	1.1898748	4.8218	1.51404	1.90476	9.71261
11:44:30				441	10.31737	1.1889098	4.8218	1.51404	2.05128	9.70359
11:44:31				442	10.31641	1.185209	4.7234	1.51404	2.10012	9.67122
11:44:31				443	10.31352	1.1853697	4.8218	1.51404	2.00244	9.67339
11:44:32				444	10.31064	1.1845667	4.8218	1.4652	2.00244	9.66707
11:44:32				445	10.3116	1.1866572	4.8218	1.51404	1.90476	9.68525
11:44:33				446	10.31352	1.1892315	4.8218	1.4652	1.85592	9.70745
11:44:33				447	10.31737	1.188586	4.8218	1.51404	1.9536	9.70073
11:44:34				448	10.31448	1.1874607	4.8218	1.51404	2.05128	9.69157
11:44:34				449	10.31544	1.1884253	4.8218	1.51404	2.1978	9.69983
11:44:35				450	10.31833	1.1884253	4.8218	1.51404	1.66056	9.69906
11:44:35				451	10.31929	1.1873	4.8218	1.51404	1.7094	9.68888
11:44:36				452	10.31929	1.1868178	4.8218	1.51404	1.90476	9.68463
11:44:36				453	10.32409	1.1868178	4.8218	1.4652	1.85592	9.68335
11:44:37				454	10.33183	1.1863357	4.8218	1.4652	2.10012	9.67705
11:44:37				455	10.33471	1.1858537	4.8218	1.4652	1.85592	9.67204
11:44:38				456	10.33567	1.1837615	4.8218	1.51404	1.80708	9.65334
11:44:38				457	10.33183	1.1853696	4.8218	1.4652	2.1978	9.66853
11:44:39				458	10.32601	1.185209	4.8218	1.51404	1.90476	9.66866
11:44:39				459	10.32409	1.1831194	4.6251	1.56288	2.1978	9.65078
11:44:40				460	10.33087	1.1824753	4.8218	1.51404	2.00244	9.64328
11:44:40				461	10.34624	1.1816707	4.8218	1.51404	2.10012	9.63213
11:44:41				462	10.35872	1.1818311	4.8218	1.51404	1.90476	9.63025
11:44:41				463	10.35584	1.1810268	4.8218	1.51404	2.05128	9.62393
11:44:42				464	10.352	1.1808664	4.8218	1.4652	1.90476	9.62353
11:44:42				465	10.35008	1.1811872	4.8218	1.4652	1.85592	9.62686
11:44:43				466	10.35296	1.1802227	4.8218	1.51404	1.9536	9.61761
11:44:43				467	10.36832	1.180383	4.8218	1.51404	1.90476	9.61497
11:44:44				468	10.37408	1.1816706	4.8218	1.4652	1.90476	9.62479

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:44				469	10.37216	1.1807059	4.8218	1.51404	1.75824	9.6168
11:44:45				470	10.376	1.1799019	4.8218	1.51404	1.9536	9.60872
11:44:45				471	10.39525	1.1782921	4.7234	1.51404	1.9536	9.58951
11:44:46				472	10.43937	1.1776487	4.4283	1.51404	2.10012	9.57233
11:44:46				473	10.44997	1.1752373	4.2315	1.51404	2.05128	9.54841
11:44:47				474	10.44608	1.1683206	4.1331	1.51404	2.05128	9.48873
11:44:47				475	10.4317	1.1697676	3.9364	1.4652	2.00244	9.5052
11:44:48				476	10.4317	1.1551323	3.838	1.4652	2.10012	9.37681
11:44:48				477	10.42307	1.1588327	3.7396	1.51404	1.9536	9.4115
11:44:49				478	10.42019	1.1388896	3.5428	1.51404	5.22589	9.23744
11:44:49				479	10.4058	1.1400171	3.5428	1.51404	2.442	9.25096
11:44:50				480	10.38559	1.1252219	3.5428	1.51404	2.24664	9.12644
11:44:50				481	10.37408	1.12699	3.4445	1.51404	2.14896	9.14482
11:44:51				482	10.3712	1.1281174	3.4445	1.4652	2.24664	9.15542
11:44:51				483	10.37216	1.1279554	3.4445	1.4652	2.29548	9.15376
11:44:52				484	10.37408	1.128759	3.4445	1.4652	2.10012	9.16032
11:44:53				487	10.3736	1.1215381	3.5428	1.51404	2.29548	9.09717
11:44:54				488	10.3736	1.1210553	3.4445	1.51404	2.14896	9.09295
11:44:54				489	10.36496	1.1192864	3.4445	1.51404	2.39316	9.07961
11:44:55				490	10.35632	1.1133367	3.5428	1.4652	2.10012	9.02965
11:44:55				491	10.35152	1.1165522	3.5428	1.4652	2.24664	9.05899
11:44:56				492	10.34384	1.1167137	3.5428	1.4652	2.24664	9.06232
11:44:56				493	10.34384	1.1168751	3.5428	1.4652	2.10012	9.06373
11:44:57				494	10.35536	1.1192865	3.4445	1.4652	2.1978	9.082
11:44:57				495	10.4082	1.1194478	3.5428	1.51404	2.24664	9.07027
11:44:58				496	10.50322	1.1183211	3.4445	1.51404	2.14896	9.03691
11:44:58				497	10.47058	1.1186421	3.5428	1.51404	2.442	9.04776
11:44:59				498	10.45141	1.1188037	3.5428	1.51404	2.24664	9.05392
11:44:59				499	10.43026	1.1191247	3.5428	1.51404	2.29548	9.06197
11:45:00				500	10.41875	1.1202513	3.5428	1.41636	2.10012	9.07467
11:45:00				501	10.41587	1.1180006	3.5428	1.51404	2.1978	9.05571
11:45:01				502	10.41779	1.1183214	3.4445	1.51404	2.1978	9.05805
11:45:01				503	10.40628	1.1191247	3.4445	1.4652	2.24664	9.06793
11:45:02				504	10.40916	1.126843	3.4445	1.51404	2.24664	9.13475
11:45:02				505	10.45141	1.1276484	3.4445	1.51404	2.1978	9.13123
11:45:03				506	10.44278	1.1318284	3.4445	1.4652	2.14896	9.16995
11:45:03				507	10.41491	1.1313463	3.4445	1.51404	2.1978	9.17273
11:45:04				508	10.38031	1.1366534	3.4445	15.09158	2.05128	9.22794
11:45:04				509	10.43601	1.1472665	3.4445	15.28694	2.10012	9.30682
11:45:05				510	10.43218	1.1578815	3.4445	7.71673	2.10012	9.40085
11:45:05				511	10.36976	1.1532175	3.5428	1.51404	2.05128	9.37595
11:45:06				512	10.42163	1.1461408	3.5428	1.51404	2.05128	9.30061
11:45:06				513	10.461	1.1368134	3.5428	1.51404	2.39316	9.20897
11:45:07				514	10.43601	1.1315084	3.5428	1.51404	2.24664	9.16884
11:45:07				515	10.40628	1.1281302	3.5428	1.51404	2.24664	9.14672

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:08				516	10.38517	1.1302221	3.4445	8.69353	2.1978	9.17035
11:45:08				517	10.38805	1.1250751	3.5428	8.69353	2.00244	9.12454
11:45:09				518	10.38325	1.1237893	3.5428	11.81929	2.05128	9.11447
11:45:09				519	10.34864	1.1292561	3.5428	6.20269	2.24664	9.17105
11:45:10				520	10.35536	1.132151	3.4445	1.51404	2.1978	9.19476
11:45:10				521	10.41395	1.1270049	3.5428	1.51404	2.1978	9.13495
11:45:11				522	10.38901	1.1266833	3.5428	1.4652	2.14896	9.13838
11:45:11				523	10.34768	1.1274868	3.5428	1.51404	2.1978	9.15578
11:45:12				524	10.31881	1.1276489	3.4445	5.95849	2.1978	9.16446
11:45:12				525	10.32175	1.1297381	3.4445	6.00733	2.1978	9.18206
11:45:13				526	10.31785	1.1327937	3.5428	1.51404	2.29548	9.20985
11:45:13				527	10.31208	1.1350467	3.5428	1.51404	2.1978	9.23109
11:45:14				528	10.31304	1.1329559	3.5428	1.51404	2.29548	9.21248
11:45:14				529	10.31881	1.1337587	3.5428	1.4652	2.34432	9.21808
11:45:15				530	10.314	1.1316689	3.5428	1.4652	2.442	9.20094
11:45:15				531	10.31112	1.1311866	3.5428	1.51404	2.24664	9.19743
11:45:16				532	10.30728	1.1315089	3.5428	1.51404	2.24664	9.20123
11:45:16				533	10.30632	1.1300603	3.5428	1.51404	2.78388	9.18876
11:45:17				534	10.30728	1.1311866	3.5428	1.51404	2.29548	9.1984
11:45:17				535	10.30728	1.1310245	3.4445	1.4652	2.10012	9.19699
11:45:18				536	10.30728	1.1297382	3.5428	1.51404	2.24664	9.18569
11:45:18				537	10.3092	1.1297382	3.4445	1.4652	2.14896	9.18522
11:45:19				538	10.3092	1.1292563	3.5428	1.51404	2.29548	9.18097
11:45:19				539	10.30824	1.1297382	3.5428	1.51404	2.24664	9.18544
11:45:20				540	10.30632	1.1295783	3.5428	1.51404	2.29548	9.18452
11:45:20				541	10.30728	1.1289343	3.5428	1.51404	2.34432	9.17863
11:45:21				542	10.30536	1.1286124	3.5428	1.4652	2.39316	9.17629
11:45:21				543	10.30344	1.1287744	3.5428	1.4652	2.78388	9.17819
11:45:22				544	10.30344	1.1294183	3.4445	1.51404	2.10012	9.18386
11:45:22				545	10.30536	1.1292563	3.5428	1.51404	2.1978	9.18194
11:45:23				546	10.3044	1.1281306	3.5428	1.51404	2.24664	9.1723
11:45:23				547	10.30344	1.1281306	3.5428	1.51404	2.14896	9.17254
11:45:24				548	10.30151	1.1273271	3.5428	1.51404	2.14896	9.16597
11:45:24				549	10.30151	1.1270054	3.5428	1.4652	2.10012	9.16314
11:45:25				550	10.30728	1.1278087	3.5428	1.4652	2.29548	9.16875
11:45:25				551	10.30632	1.1274869	3.5428	1.51404	2.1978	9.16616
11:45:26				552	10.30536	1.1273271	3.5428	1.51404	2.05128	9.165
11:45:26				553	10.30728	1.1278087	3.5428	1.51404	2.00244	9.16875
11:45:27				554	10.31016	1.1299003	3.4445	1.51404	2.29548	9.1864
11:45:27				555	10.3092	1.1295783	3.4445	1.4652	2.29548	9.18381
11:45:28				556	10.31785	1.1327937	3.5428	1.4652	2.05128	9.20985
11:45:28				557	10.32655	1.1411561	3.5428	1.51404	2.14896	9.28107
11:45:29				558	10.34192	1.140835	3.5428	1.4652	2.24664	9.27434
11:45:29				559	10.36208	1.1429246	3.5428	1.51404	2.05128	9.28756
11:45:30				560	10.36496	1.138905	3.5428	1.51404	2.10012	9.25156

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:30				561	10.36496	1.1480711	3.5428	1.51404	2.24664	9.332
11:45:31				562	10.36496	1.1453371	3.5428	1.51404	2.10012	9.308
11:45:31				563	10.35632	1.1418004	3.5428	1.4652	2.05128	9.27916
11:45:32				564	10.35536	1.1372969	3.5428	1.51404	2.14896	9.23988
11:45:32				565	10.36112	1.1403513	3.5428	1.51404	2.14896	9.26522
11:45:33				566	10.3736	1.1356896	3.5428	7.47253	2.10012	9.22117
11:45:33				567	10.37935	1.1356896	3.5428	2.1978	1.9536	9.21972
11:45:34				568	10.37456	1.1366534	3.5428	1.4652	2.10012	9.22938
11:45:34				569	10.37072	1.1324733	3.5428	1.51404	2.10012	9.1937
11:45:35				570	10.37168	1.1379404	3.5428	1.51404	2.10012	9.2414
11:45:35				571	10.37168	1.1335984	3.5428	1.51404	2.1978	9.20332
11:45:36				572	10.39093	1.129578	3.5428	1.51404	2.1978	9.16325
11:45:36				573	10.39765	1.1327934	3.5428	1.51404	2.24664	9.18973
11:45:37				574	10.39861	1.1324732	3.5428	1.4652	2.1978	9.18668
11:45:37				575	10.39956	1.1310241	3.5428	1.51404	2.24664	9.17375
11:45:38				576	10.4034	1.1324732	3.5428	1.85592	2.05128	9.18547
11:45:38				577	10.40628	1.1313463	3.5428	1.51404	2.00244	9.17488
11:45:39				578	10.40532	1.1327933	3.5428	1.51404	2.24664	9.1878
11:45:39				579	10.40148	1.1297379	3.5428	1.51404	2.14896	9.162
11:45:40				580	10.39956	1.129418	3.5428	2.34432	2.29548	9.15968
11:45:40				581	10.40532	1.129096	3.4445	1.4652	2.14896	9.15543
11:45:41				582	10.40532	1.1337584	3.5428	1.51404	2.24664	9.19625
11:45:41				583	10.40916	1.1356894	3.4445	1.56288	2.05128	9.21221
11:45:42				584	10.4034	1.1356895	3.5428	1.51404	2.1978	9.21365
11:45:42				585	10.39477	1.1353669	3.5428	1.51404	2.1978	9.213
11:45:43				586	10.38901	1.1350464	3.5428	1.4652	2.34432	9.21164
11:45:43				587	10.38805	1.1327934	3.5428	1.51404	2.24664	9.19214
11:45:44				588	10.38901	1.1335983	3.5428	1.51404	2.14896	9.19895
11:45:44				589	10.38901	1.1335983	3.5428	1.51404	2.29548	9.19895
11:45:45				590	10.38997	1.1326333	3.5428	1.51404	2.05128	9.19026
11:45:45				591	10.39381	1.1292559	3.4445	1.4652	2.00244	9.15972
11:45:46				592	10.39093	1.127005	3.3461	1.51404	2.1978	9.14074
11:45:46				593	10.38805	1.1115679	3.1493	1.51404	2.29548	9.00638
11:45:47				594	10.35152	1.091308	2.9526	1.4652	2.24664	8.8382
11:45:47				595	10.32655	1.082627	2.7558	1.51404	2.34432	8.76838
11:45:48				596	10.30055	1.0734623	2.6574	1.51404	2.34432	8.69453
11:45:48				597	10.27268	1.0662276	2.6574	1.4652	2.34432	8.63793
11:45:49				598	10.24186	1.0697655	2.559	1.51404	2.39316	8.6762
11:45:49				599	10.23897	1.0538484	2.559	1.4652	2.39316	8.5377
11:45:50				600	10.24186	1.040668	2.559	1.51404	2.58852	8.42193
11:45:50				601	10.2332	1.0311827	2.559	1.51404	2.58852	8.34117
11:45:51				602	10.22743	1.0401857	2.559	1.51404	2.49084	8.42106
11:45:51				603	10.22455	1.0220205	2.559	1.51404	2.442	8.26325
11:45:52				604	10.21974	1.0155912	2.559	1.4652	2.53968	8.20831
11:45:53				607	10.19352	1.0544829	2.559	1.51404	2.78388	8.55392

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:54				608	10.19544	1.0427474	2.559	1.51404	2.6862	8.45084
11:45:54				609	10.20122	1.0441959	2.559	1.4652	2.78388	8.46216
11:45:55				610	10.20699	1.0488573	2.559	1.4652	3.46764	8.50156
11:45:55				611	10.20795	1.0541625	2.559	1.51404	2.58852	8.54773
11:45:56				612	10.20795	1.0530354	2.6574	1.51404	2.97924	8.53786
11:45:56				613	10.20988	1.0511066	2.6574	1.51404	2.6862	8.52054
11:45:57				614	10.20795	1.0578587	2.559	1.4652	2.63736	8.58006
11:45:57				615	10.19929	1.0573777	2.6574	1.4652	2.49084	8.57788
11:45:58				616	10.19063	1.055931	2.6574	1.51404	2.49084	8.56726
11:45:58				617	10.18775	1.0554482	2.6574	1.51404	2.442	8.56371
11:45:59				618	10.18678	1.0560913	2.559	1.56288	2.53968	8.56958
11:45:59				619	10.18293	1.0565742	2.559	1.4652	2.49084	8.57471
11:46:00				620	10.17908	1.0565742	2.6574	1.4652	2.34432	8.57561
11:46:00				621	10.17908	1.0546431	2.6574	1.51404	2.53968	8.5587
11:46:01				622	10.17908	1.0549655	2.6574	1.4652	2.63736	8.56153
11:46:01				623	10.17908	1.058342	2.6574	1.51404	2.49084	8.59109
11:46:02				624	10.17908	1.0585024	2.6574	1.51404	2.53968	8.59249
11:46:02				625	10.17812	1.0572154	2.6574	1.4652	2.53968	8.58145
11:46:03				626	10.17812	1.0575381	2.6574	1.51404	2.6862	8.58427
11:46:03				627	10.17716	1.0591461	2.6574	1.4652	2.58852	8.59858
11:46:04				628	10.17812	1.061395	2.6574	1.51404	2.442	8.61805
11:46:04				629	10.1762	1.0605924	2.6574	1.56288	2.53968	8.61148
11:46:05				630	10.1762	1.0591461	2.6574	1.51404	2.39316	8.59881
11:46:05				631	10.1762	1.0588232	2.559	1.4652	2.83272	8.59599
11:46:06				632	10.17716	1.0623605	2.6574	1.4652	2.49084	8.62674
11:46:06				633	10.17812	1.0560913	2.6574	1.51404	2.6862	8.57161
11:46:07				634	10.17908	1.0581816	2.559	1.51404	2.6862	8.58969
11:46:07				635	10.18005	1.0671845	2.6574	1.51404	2.6862	8.66831
11:46:08				636	10.18293	1.0644511	2.6574	1.51404	2.73504	8.64368
11:46:08				637	10.18871	1.0633242	2.6574	1.4652	2.63736	8.63244
11:46:09				638	10.19159	1.0649332	2.6574	1.51404	2.49084	8.64584
11:46:09				639	10.19544	1.0636476	2.6574	1.51404	2.442	8.63367
11:46:10				640	10.19544	1.0768287	2.6574	1.51404	2.442	8.74916
11:46:10				641	10.19737	1.1007855	2.6574	1.51404	2.442	8.95892
11:46:11				642	10.21661	1.0800454	2.6574	1.4652	2.63736	8.77226
11:46:11				643	10.21661	1.0750602	2.6574	1.51404	2.29548	8.72858
11:46:12				644	10.21565	1.1064145	2.6574	1.51404	2.39316	9.00385
11:46:12				645	10.2436	1.1085041	2.6574	1.51404	2.58852	9.01529
11:46:13				646	10.25706	1.0906554	2.6574	1.51404	2.39316	8.85544
11:46:13				647	10.27341	1.1033574	2.6574	1.4652	2.34432	8.96278
11:46:14				648	10.27923	1.1065751	2.6574	1.51404	2.34432	8.98956
11:46:14				649	10.28308	1.1131671	2.6574	1.51404	2.53968	9.04643
11:46:15				650	10.28692	1.1113985	2.6574	1.4652	2.49084	9.02996
11:46:15				651	10.285	1.1099509	2.6574	1.51404	2.29548	9.01774
11:46:16				652	10.28884	1.1096288	2.6574	1.4652	2.24664	9.01397

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:46:16				653	10.29749	1.1123632	2.559	1.51404	2.34432	9.03582
11:46:17				654	10.30422	1.1115595	2.6574	1.51404	2.1978	9.02709
11:46:17				655	10.30614	1.1081819	2.6574	1.51404	2.24664	8.99701
11:46:18				656	10.30518	1.113971	2.559	1.51404	2.1978	9.04801
11:46:18				657	10.30614	1.113971	2.6574	1.4652	2.29548	9.04776
11:46:19				658	10.31286	1.1130057	2.6574	1.51404	2.10012	9.03763
11:46:19				659	10.31574	1.1086648	2.6574	1.51404	2.14896	8.99887
11:46:20				660	10.3119	1.1144527	2.559	1.51404	2.1978	9.05056
11:46:20				661	10.31382	1.1152571	2.6574	1.51404	2.14896	9.05712
11:46:21				662	10.31767	1.1149344	2.6574	1.4652	2.1978	9.05334
11:46:21				663	10.32247	1.1112372	2.6574	1.4652	2.49084	9.01975
11:46:22				664	10.31574	1.1126833	2.6574	1.51404	2.34432	9.03409
11:46:22				665	10.31863	1.1146139	2.6574	1.51404	2.442	9.05029
11:46:23				666	10.32439	1.1118796	2.6574	1.4652	2.24664	9.0249
11:46:23				667	10.31959	1.1112372	2.6574	1.4652	2.29548	9.02046
11:46:24				668	10.31863	1.1150957	2.6574	1.51404	2.24664	9.05452
11:46:24				669	10.32439	1.1149344	2.6574	1.51404	2.1978	9.05167
11:46:25				670	10.32247	1.1134872	2.6574	1.51404	2.10012	9.03947
11:46:25				671	10.31863	1.1165436	2.6574	1.4652	2.1978	9.06721
11:46:26				672	10.32439	1.1171871	2.6574	1.4652	2.24664	9.07142
11:46:26				673	10.32727	1.1170257	2.6574	1.4652	2.14896	9.06929
11:46:27				674	10.32343	1.1162209	2.6574	1.51404	2.29548	9.06319
11:46:27				675	10.32055	1.1170257	2.6574	1.51404	2.10012	9.07096
11:46:28				676	10.32631	1.1171871	2.6574	1.51404	2.10012	9.07094
11:46:28				677	10.32823	1.1162208	2.6574	1.4652	2.1978	9.06199
11:46:29				678	10.32727	1.1163822	2.6574	1.51404	2.29548	9.06365
11:46:29				679	10.32727	1.1184724	2.6574	1.51404	2.24664	9.08197
11:46:30				680	10.32823	1.1181516	2.6574	1.51404	2.29548	9.07892
11:46:30				681	10.33111	1.1176693	2.6574	1.51404	2.10012	9.07397
11:46:31				682	10.33015	1.1175078	2.6574	1.4652	2.10012	9.0728
11:46:31				683	10.33111	1.1173464	2.6574	1.51404	2.442	9.07114
11:46:32				684	10.33207	1.1178286	2.559	1.51404	2.24664	9.07514
11:46:32				685	10.33399	1.116705	2.6574	1.51404	2.29548	9.0648
11:46:33				686	10.33399	1.1191163	2.6574	1.4652	2.14896	9.08594
11:46:33				687	10.33207	1.1186339	2.6574	1.4652	2.24664	9.08219
11:46:34				688	10.33495	1.1179901	2.6574	1.51404	2.05128	9.07583
11:46:34				689	10.33399	1.1176693	2.6574	1.51404	2.24664	9.07326
11:46:35				690	10.33303	1.1170257	2.6574	1.4652	2.10012	9.06785
11:46:35				691	10.33303	1.1160616	2.6574	1.51404	2.05128	9.05941
11:46:36				692	10.33399	1.1160616	2.6574	1.4652	2.24664	9.05917
11:46:36				693	10.33495	1.1150957	2.6574	1.51404	2.39316	9.05046
11:46:37				694	10.33399	1.1155775	2.6574	1.51404	2.29548	9.05492
11:46:37				695	10.33207	1.1154183	2.6574	1.51404	2.29548	9.05401
11:46:38				696	10.33303	1.1150957	2.6574	1.4652	2.14896	9.05094
11:46:38				697	10.33207	1.1154183	2.6574	1.4652	2.24664	9.05401

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:46:39				698	10.33303	1.1162208	2.6574	1.51404	2.39316	9.0608
11:46:39				699	10.33591	1.1181515	2.6574	1.51404	2.24664	9.077
11:46:40				700	10.33591	1.1175078	2.6574	1.4652	2.14896	9.07136
11:46:40				701	10.33789	1.1159002	2.6574	1.51404	2.10012	9.05678
11:46:41				702	10.33982	1.1157388	2.6574	1.4652	2.24664	9.05489
11:46:41				703	10.34174	1.1154183	2.6574	1.51404	2.78388	9.05161
11:46:42				704	10.34366	1.1160616	2.6574	1.51404	2.34432	9.05677
11:46:42				705	10.3427	1.1157388	2.6574	1.51404	2.00244	9.05418
11:46:43				706	10.34462	1.1160615	2.559	1.51404	2.10012	9.05654
11:46:43				707	10.34558	1.1167049	2.559	1.4652	2.29548	9.06194
11:46:44				708	10.34462	1.1159002	2.6574	1.51404	2.1978	9.05512
11:46:44				709	10.3427	1.116705	2.559	1.51404	2.14896	9.06266
11:46:45				710	10.33982	1.1155775	2.6574	1.4652	2.10012	9.05348
11:46:45				711	10.33982	1.1150956	2.6574	1.4652	2.34432	9.04926
11:46:46				712	10.33789	1.1109149	2.6574	1.51404	2.24664	9.01311
11:46:46				713	10.33399	1.1117184	2.6574	1.51404	2.24664	9.02112
11:46:47				714	10.33303	1.1131669	2.6574	1.4652	2.63736	9.03404
11:46:47				715	10.33207	1.1101117	2.6574	1.4652	2.58852	9.00752
11:46:48				716	10.33015	1.1123631	2.6574	1.51404	2.53968	9.02771
11:46:48				717	10.32631	1.1104339	2.6574	1.4652	2.1978	9.01176
11:46:49				718	10.32535	1.1070554	2.6574	1.51404	2.53968	8.98241
11:46:49				719	10.32439	1.1093066	2.6574	1.4652	2.29548	9.00236
11:46:50				720	10.32343	1.1089867	2.6574	1.51404	2.24664	8.9998
11:46:50				721	10.31863	1.1110761	2.6574	1.51404	2.24664	9.01929
11:46:51				722	10.31671	1.1149344	2.6574	1.51404	2.1978	9.05358
11:46:51				723	10.31574	1.1101118	2.6574	1.51404	2.58852	9.01155
11:46:52				724	10.31671	1.1085038	2.6574	1.4652	2.29548	8.99722
11:46:53				727	10.32019	1.1073687	2.6574	1.51404	2.442	8.98642
11:46:54				728	10.31827	1.104313	2.6574	1.51404	2.29548	8.96013
11:46:54				729	10.31923	1.1065642	2.6574	1.4652	2.39316	8.97961
11:46:55				730	10.32115	1.1084931	2.6574	1.51404	2.1978	8.99603
11:46:55				731	10.32883	1.108654	2.6574	1.51404	2.14896	8.99555
11:46:56				732	10.32499	1.1073686	2.6574	1.51404	2.14896	8.98524
11:46:56				733	10.32115	1.1046345	2.6574	1.4652	2.00244	8.96224
11:46:57				734	10.31827	1.1073687	2.6574	1.4652	2.1978	8.98689
11:46:57				735	10.31635	1.1075274	2.6574	1.51404	2.1978	8.98876
11:46:58				736	10.31827	1.1064034	2.6574	1.51404	2.34432	8.97844
11:46:58				737	10.31923	1.1039915	2.6574	1.51404	2.14896	8.95708
11:46:59				738	10.31827	1.1041522	2.6574	1.4652	2.24664	8.95872
11:46:59				739	10.31731	1.1070469	2.6574	1.4652	2.34432	8.98431
11:47:00				740	10.31635	1.0990067	2.6574	1.51404	2.34432	8.91414
11:47:00				741	10.31635	1.1035093	2.6574	1.51404	2.34432	8.95356
11:47:01				742	10.31442	1.1025432	2.6574	1.4652	2.14896	8.94557
11:47:01				743	10.3125	1.1030273	2.6574	1.51404	2.49084	8.95028
11:47:02				744	10.31058	1.1036701	2.6574	1.4652	2.63736	8.95639

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:02				745	10.30866	1.1028645	2.6574	1.51404	2.24664	8.9498
11:47:03				746	10.31346	1.1001322	2.6574	1.51404	2.1978	8.9247
11:47:03				747	10.31346	1.0983628	2.6574	1.4652	2.39316	8.90921
11:47:04				748	10.31346	1.092736	2.6574	1.51404	2.442	8.85996
11:47:04				749	10.30866	1.0959509	2.6574	1.51404	2.29548	8.88926
11:47:05				750	10.3077	1.0940216	2.6574	1.51404	2.29548	8.87261
11:47:05				751	10.30866	1.0903245	2.6574	1.4652	2.29548	8.84002
11:47:06				752	10.30866	1.0912889	2.6574	1.51404	2.49084	8.84846
11:47:06				753	10.30578	1.0937012	2.6574	1.51404	2.39316	8.87027
11:47:07				754	10.30578	1.0948269	2.6574	1.51404	2.29548	8.88013
11:47:07				755	10.30194	1.0935389	2.6574	1.51404	2.39316	8.86979
11:47:08				756	10.29905	1.0935389	2.6574	1.4652	2.29548	8.87049
11:47:08				757	10.29809	1.096434	2.6574	1.51404	2.1978	8.89607
11:47:09				758	10.29905	1.0993277	2.6574	1.51404	2.24664	8.92118
11:47:09				759	10.29809	1.0986858	2.6574	1.51404	2.24664	8.91579
11:47:10				760	10.29713	1.0961134	2.7558	1.4652	2.24664	8.89348
11:47:10				761	10.29809	1.1064034	2.7558	1.4652	2.1978	8.98339
11:47:11				762	10.3029	1.1152464	2.9526	1.51404	2.442	9.0597
11:47:11				763	10.31058	1.1102622	3.0509	1.51404	2.24664	9.01409
11:47:12				764	10.31442	1.114442	3.1493	1.51404	2.10012	9.04976
11:47:12				765	10.31635	1.1091371	3.1493	1.51404	2.1978	9.00279
11:47:13				766	10.31346	1.1104233	3.2477	1.51404	2.1978	9.01476
11:47:13				767	10.3125	1.1088151	3.2477	1.51404	2.34432	9.00091
11:47:14				768	10.3077	1.1171765	3.2477	1.4652	2.29548	9.0754
11:47:14				769	10.3029	1.1213573	3.3461	1.51404	2.14896	9.11326
11:47:15				770	10.29329	1.1255373	3.4445	1.51404	2.29548	9.15234
11:47:15				771	10.28944	1.1255374	3.6412	1.51404	2.39316	9.15328
11:47:16				772	10.29329	1.128593	3.6412	1.51404	2.24664	9.17914
11:47:16				773	10.29809	1.1310051	3.838	1.4652	2.29548	9.19909
11:47:17				774	10.30001	1.1274675	3.838	1.4652	2.1978	9.16754
11:47:17				775	10.30001	1.1353478	3.838	1.51404	2.10012	9.23675
11:47:18				776	10.30097	1.1745886	3.9364	1.51404	2.05128	9.58178
11:47:18				777	10.31346	1.1935678	4.0348	1.51404	2.24664	9.74584
11:47:19				778	10.35194	1.1943707	4.1331	1.4652	2.29548	9.74263
11:47:19				779	10.38265	1.1966222	4.2315	1.56288	2.05128	9.75425
11:47:20				780	10.35578	1.1932456	4.3299	1.51404	1.90476	9.73166
11:47:20				781	10.32595	1.1977488	4.4283	1.4652	1.9536	9.77933
11:47:21				782	10.32595	1.1953353	4.6251	1.51404	1.9536	9.75801
11:47:21				783	10.34618	1.194693	4.7234	1.4652	1.9536	9.74692
11:47:22				784	10.34522	1.1948541	4.8218	1.51404	1.85592	9.74858
11:47:22				785	10.3394	1.1630076	4.9202	1.4652	2.05128	9.46964
11:47:23				786	10.32787	0.835303	5.0186	1.51404	1.9536	6.63116
11:47:23				787	12.2657	0.8155443	5.117	1.51404	2.10012	6.13387
11:47:24				788	15.37978	1.1224643	5.2153	1.51404	1.9536	7.98229
11:47:24				789	16.28251	1.0803348	5.3137	1.51404	1.90476	7.48828

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:25				790	15.37799	1.2022342	5.4121	1.4652	1.9536	8.59695
11:47:25				791	13.86643	1.1517371	5.5105	1.51404	1.90476	8.53068
11:47:26				792	12.80252	1.2104461	5.6089	1.51404	1.9536	9.2547
11:47:26				793	11.9502	1.2044981	5.7073	120.4884	2.24664	9.41583
11:47:27				794	11.52558	1.1887379	5.7073	120.4884	2.24664	9.38891
11:47:27				795	11.58318	1.159948	5.7073	1.66056	2.1978	9.12936
11:47:28				796	12.70236	1.1644476	5.7073	1.75824	2.1978	8.89872
11:47:28				797	12.85814	1.1806899	5.7073	1.7094	2.1978	8.99592
11:47:29				798	12.32081	1.1231181	5.7073	23.44322	1.66056	8.64491
11:47:29				799	12.55651	1.1202244	5.7073	11.52625	1.80708	8.56726
11:47:30				800	12.15259	1.1927557	5.7073	2.05128	2.39316	9.26657
11:47:30				801	11.88353	1.1642889	5.7073	2.05128	2.34432	9.09284
11:47:31				802	11.75186	1.1615564	5.7073	1.4652	1.75824	9.10178
11:47:31				803	11.71423	1.1583394	5.7073	1.51404	1.80708	9.0837
11:47:32				804	11.54256	1.1593044	5.7073	1.51404	1.75824	9.13384
11:47:32				805	11.55677	1.1726527	5.7073	1.4652	2.34432	9.24397
11:47:33				806	11.49349	1.1798911	5.8056	1.51404	1.90476	9.32146
11:47:33				807	11.32322	1.1631657	5.8056	1.4652	1.85592	9.22097
11:47:34				808	11.40557	1.1612345	5.8056	1.51404	1.80708	9.18403
11:47:34				809	11.61994	1.174904	5.7073	1.51404	1.9536	9.24745
11:47:35				810	11.38377	1.1774784	5.8056	1.4652	1.90476	9.32837
11:47:35				811	11.20753	1.1747455	5.7073	2.1978	2.10012	9.34933
11:47:36				812	11.23597	1.1763532	5.6089	2.1978	2.10012	9.35598
11:47:36				813	11.13254	1.1925987	5.6089	2.24664	2.10012	9.52225
11:47:37				814	11.06506	1.1845572	5.5105	12.89377	2.10012	9.47018
11:47:37				815	11.06696	1.1840755	5.5105	15.2381	2.00244	9.46554
11:47:38				816	11.1126	1.1908305	5.4121	22.51526	2.05128	9.51215
11:47:38				817	11.12305	1.1914741	5.4121	22.66178	1.85592	9.51502
11:47:39				818	11.00797	1.1971035	5.4121	36.0928	2.05128	9.59346
11:47:39				819	10.85936	1.0773002	5.5105	59.34066	1.80708	8.59559
11:47:40				820	12.4625	1.0941766	5.4121	19.82906	1.80708	8.37327
11:47:40				821	13.81168	1.0182939	5.2153	72.33211	1.9536	7.48006
11:47:41				822	14.18415	0.9477421	5.2153	99.3895	1.80708	6.85716
11:47:41				823	15.22609	0.9326349	5.2153	99.3895	1.80708	6.56295
11:47:42				824	16.23932	0.8552014	5.117	99.3895	1.85592	5.82894
11:47:42				825	17.4377	0.8484518	5.2153	96.7033	1.80708	5.6115
11:47:43				826	17.79559	0.8683683	5.117	200	1.75824	5.70332
11:47:43				827	17.32671	0.9160801	5.0186	200	2.29548	6.11027
11:47:44				828	16.57006	0.8576094	5.0186	196.63004	2.14896	5.79884
11:47:44				829	17.58492	0.8982463	5.0186	151.94139	1.66056	5.94489
11:47:45				830	16.71116	0.9175275	5.0186	125.90965	1.80708	6.21387
11:47:45				831	16.07253	0.9633231	5.0186	108.91331	1.80708	6.65283
11:47:46				832	15.38513	0.8675724	5.0186	108.96215	1.80708	6.04753
11:47:46				833	16.03894	0.8588966	5.0186	93.87057	1.90476	5.8853
11:47:47				834	17.52174	0.8905356	5.0186	93.87057	1.90476	5.8991

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:47:47				835	17.05534	0.9313448	5.0186	163.07692	1.85592	6.26134
11:47:48				836	15.85213	0.9633238	5.117	145.93407	1.75824	6.68955
11:47:48				837	15.69503	1.1007554	5.0186	130.01221	1.7094	7.75409
11:47:49				838	14.55457	1.0716601	5.0186	108.71795	1.7094	7.75403
11:47:49				839	12.93953	1.1326046	5.0186	108.71795	1.7094	8.5826
11:47:50				840	12.27783	1.1477228	5.0186	75.116	2.10012	8.85976
11:47:50				841	12.11886	1.1493304	5.0186	69.64591	1.75824	8.91073
11:47:51				842	11.94639	1.150297	5.0186	68.13187	2.05128	8.9599
11:47:51				843	12.17596	1.1437017	4.9202	56.4591	1.90476	8.85017
11:47:52				844	13.04212	1.1792415	4.9202	51.52625	1.90476	8.94082
11:47:53				847	11.6025	1.1600221	4.9202	33.74847	2.10012	9.12535
11:47:54				848	11.4344	1.1672601	5.0186	33.35775	1.85592	9.22846
11:47:54				849	11.39754	1.1654909	4.9202	22.51526	1.85592	9.22251
11:47:55				850	11.3587	1.1592177	4.9202	24.22466	1.90476	9.1785
11:47:55				851	11.20706	0.64287	5.0186	2.9304	1.9536	4.88895
11:47:56				852	12.212	0.8141521	5.117	2.88156	1.9536	6.13135
11:47:56				853	15.05021	0.8144661	5.117	5.61661	2.1978	5.69871
11:47:57				854	16.67595	0.7092995	5.117	6.73993	1.90476	4.71758
11:47:57				855	17.81527	0.713952	5.117	78.68132	2.10012	4.62032
11:47:58				856	19.37216	1.1106227	5.2153	96.31258	2.24664	7.15766
11:47:58				857	18.83376	1.0091817	5.2153	190.67155	1.75824	6.53876
11:47:59				858	17.42627	1.1226897	5.2153	142.0757	1.7094	7.58857
11:47:59				859	15.70014	1.1955529	5.3137	126.69109	1.7094	8.47634
11:48:00				860	13.09898	1.1836608	5.3137	107.83883	1.80708	8.96361
11:48:00				861	12.15119	1.1711168	5.3137	107.88767	1.85592	9.08545
11:48:01				862	11.84268	1.1875253	5.4121	92.25885	1.85592	9.29923
11:48:01				863	11.41361	1.1979832	5.3137	66.71551	1.9536	9.49646
11:48:02				864	11.16243	1.1968578	5.4121	51.62393	1.9536	9.55131
11:48:02				865	10.93799	1.1949269	5.4121	55.14042	1.80708	9.5928
11:48:03				866	10.83023	1.1913893	5.3137	70.91575	2.00244	9.59016
11:48:03				867	10.73375	1.1963759	5.4121	102.27106	1.80708	9.65885
11:48:04				868	10.70988	1.1989493	5.4121	102.27106	1.85592	9.6876
11:48:04				869	10.66874	1.1942858	5.4121	120.2442	1.80708	9.65771
11:48:05				870	10.60845	1.1849572	5.3137	120.2442	1.80708	9.59198
11:48:05				871	10.65154	1.1992722	5.3137	98.46154	1.7094	9.70586
11:48:06				872	10.6228	1.1918729	5.4121	98.51038	1.7094	9.6487
11:48:06				873	10.59123	1.1682283	5.4121	154.96947	1.56288	9.45018
11:48:07				874	10.69746	1.1802917	5.4121	44.34676	1.9536	9.52802
11:48:07				875	10.83118	1.195733	5.4121	50.59829	1.7094	9.62769
11:48:08				876	10.84071	1.1942851	5.4121	33.74847	1.9536	9.6126
11:48:08				877	10.9437	1.1524643	5.4121	15.43346	1.80708	9.22362
11:48:09				878	11.52605	1.1379884	5.4121	11.03785	1.75824	8.95661
11:48:09				879	12.25035	1.1907401	5.4121	3.85836	1.85592	9.22569
11:48:10				880	12.0304	1.1970156	5.4121	1.4652	1.80708	9.33269
11:48:10				881	11.33316	1.1971795	5.4121	1.51404	1.80708	9.51015

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:48:11				882	10.93418	1.1975014	5.4121	1.51404	1.9536	9.61613
11:48:11				883	10.78058	1.1979857	5.3137	1.4652	1.90476	9.66059
11:48:12				884	10.6697	1.1965373	5.4121	1.51404	2.10012	9.67713
11:48:12				885	10.59315	1.1983068	5.4121	1.4652	1.80708	9.71286
11:48:13				886	10.54907	1.1984682	5.4121	1.51404	1.90476	9.72597
11:48:13				887	10.49442	1.1981459	5.4121	1.4652	1.7094	9.73767
11:48:14				888	10.48005	1.1979869	5.4121	1.51404	1.80708	9.7401
11:48:14				889	10.47813	1.1986298	5.4121	1.51404	1.66056	9.74627
11:48:15				890	10.45513	1.1989503	5.4121	1.51404	1.85592	9.75522
11:48:15				891	10.44932	1.1983073	5.4121	1.51404	1.9536	9.75111
11:48:16				892	10.46951	1.1979869	5.4121	1.51404	1.75824	9.74291
11:48:16				893	10.44548	1.1984686	5.4121	1.51404	1.85592	9.75356
11:48:17				894	10.41383	1.1986301	5.4121	1.4652	1.85592	9.76343
11:48:17				895	10.39944	1.1986301	5.3137	1.51404	1.80708	9.76729
11:48:18				896	10.39363	1.1986301	5.4121	1.51404	1.80708	9.76883
11:48:18				897	10.38595	1.1989506	5.4121	1.4652	1.80708	9.77371
11:48:19				898	10.38019	1.1989506	5.4121	1.51404	1.75824	9.77525
11:48:19				899	10.38211	1.1983076	5.4121	1.51404	1.7094	9.76907
11:48:20				900	10.38499	1.1987915	5.3137	1.4652	1.66056	9.77258
11:48:20				901	10.38691	1.1987915	5.4121	1.4652	1.7094	9.77205
11:48:21				902	10.38403	1.1986302	5.4121	1.51404	1.75824	9.7714
11:48:21				903	10.38115	1.1991119	5.4121	1.4652	1.80708	9.77642
11:48:22				904	10.38115	1.1987915	5.3137	1.51404	1.75824	9.77361
11:48:22				905	10.38883	1.1989506	5.4121	1.51404	1.80708	9.77294
11:48:23				906	10.39849	1.1992732	5.4121	1.51404	1.80708	9.7732
11:48:23				907	10.4004	1.1983075	5.4121	1.51404	2.1978	9.76418
11:48:24				908	10.39657	1.1989505	5.4121	1.51404	1.80708	9.77087
11:48:24				909	10.38211	1.1992732	5.4121	1.51404	1.85592	9.77758
11:48:25				910	10.38595	1.1991119	5.4121	1.4652	2.1978	9.77513
11:48:25				911	10.38403	1.1992732	5.4121	1.51404	2.78388	9.77707
11:48:26				912	10.38307	1.1995959	5.3137	1.51404	2.10012	9.78018
11:48:26				913	10.38211	1.2000778	5.4121	1.51404	1.80708	9.78467
11:48:27				914	10.36964	1.2000778	5.4121	1.51404	1.9536	9.78801
11:48:27				915	10.36004	1.1997551	5.4121	1.51404	2.34432	9.78774
11:48:28				916	10.35524	1.1999165	5.4121	1.51404	1.85592	9.79045
11:48:28				917	10.35236	1.1999165	5.4121	1.4652	2.05128	9.79123
11:48:29				918	10.35812	1.1997552	5.4121	1.56288	1.80708	9.78826
11:48:29				919	10.36388	1.1997551	5.4121	1.4652	1.90476	9.78671
11:48:30				920	10.35524	1.199596	5.4121	1.4652	2.05128	9.78763
11:48:30				921	10.35236	1.199596	5.4121	1.51404	1.80708	9.7884
11:48:31				922	10.35812	1.1992733	5.3137	1.51404	1.85592	9.78402
11:48:31				923	10.35524	1.199596	5.4121	1.51404	1.75824	9.78763
11:48:32				924	10.35236	1.199596	5.3137	1.51404	1.66056	9.78842
11:48:32				925	10.35812	1.1997552	5.4121	1.51404	1.85592	9.78826
11:48:33				926	10.3562	1.1997551	5.3137	1.4652	1.90476	9.78879

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:48:33				927	10.35332	1.199596	5.4121	1.51404	1.85592	9.78814
11:48:34				928	10.36292	1.1999165	5.4121	1.4652	2.39316	9.78839
11:48:34				929	10.36388	1.1999165	5.4121	1.51404	2.29548	9.78814
11:48:35				930	10.37444	1.1995959	5.3137	1.51404	1.85592	9.78249
11:48:35				931	10.38019	1.1994346	5.4121	1.51404	1.85592	9.77952
11:48:36				932	10.37923	1.1997551	5.4121	1.4652	1.90476	9.7826
11:48:36				933	10.3754	1.1992732	5.2153	1.51404	1.85592	9.77941
11:48:37				934	10.3754	1.1995959	5.4121	1.51404	1.85592	9.78222
11:48:37				935	10.36676	1.1992733	5.4121	1.4652	1.7094	9.78169
11:48:38				936	10.35236	1.1989507	5.4121	1.51404	1.80708	9.78271
11:48:38				937	10.34564	1.1987916	5.3137	1.51404	1.90476	9.78312
11:48:39				938	10.34468	1.1986303	5.4121	1.51404	2.05128	9.78194
11:48:39				939	10.34372	1.1986303	5.3137	1.51404	1.90476	9.78222
11:48:40				940	10.34084	1.1987916	5.3137	1.51404	2.34432	9.78441
11:48:40				941	10.33789	1.1987917	5.3137	1.51404	1.9536	9.7852
11:48:41				942	10.33597	1.1992734	5.4121	1.4652	2.00244	9.78995
11:48:41				943	10.33213	1.1992734	5.4121	1.51404	1.85592	9.79098
11:48:42				944	10.32829	1.1995961	5.4121	1.51404	1.7094	9.79486
11:48:42				945	10.32637	1.1997553	5.4121	1.51404	1.90476	9.79678
11:48:43				946	10.32733	1.1999166	5.4121	1.51404	2.1978	9.79795
11:48:43				947	10.32925	1.2003986	5.5105	1.51404	2.29548	9.80167
11:48:44				948	10.33021	1.2002394	5.4121	1.51404	1.90476	9.80002
11:48:44				949	10.33021	1.2003985	5.4121	1.4652	2.14896	9.80143
11:48:45				950	10.33693	1.1989508	5.4121	1.51404	1.9536	9.78685
11:48:45				951	10.33789	1.1986304	5.4121	1.4652	1.85592	9.78376
11:48:46				952	10.33886	1.1981465	5.4121	1.51404	1.9536	9.77924
11:48:46				953	10.33789	1.1979874	5.4121	1.51404	1.80708	9.77809
11:48:47				954	10.34756	1.1983077	5.4121	1.51404	1.61172	9.77833
11:48:47				955	10.36772	1.1986302	5.4121	1.51404	1.61172	9.77577
11:48:48				956	10.36388	1.1987916	5.4121	1.4652	1.7094	9.77822
11:48:48				957	10.361	1.1920349	5.4121	1.51404	2.10012	9.71944
11:48:49				958	10.86168	1.1928379	5.4121	1.51404	1.90476	9.59454
11:48:49				959	10.9027	1.19702	5.4121	1.51404	1.85592	9.62017
11:48:50				960	10.86263	1.1666192	5.4121	63.93162	1.90476	9.36664
11:48:50				961	11.29523	1.1756246	5.4121	75.94628	1.85592	9.33481
11:48:51				962	12.01541	1.155035	5.4121	54.35897	1.80708	8.98317
11:48:51				963	11.98349	1.1804471	5.4121	53.23565	2.14896	9.20469
11:48:52				964	11.66098	1.1810921	5.4121	50.89133	1.9536	9.28989
11:48:53				967	11.37904	1.1843646	5.4121	74.67643	2.00244	9.38858
11:48:54				968	11.20937	1.1911211	5.4121	68.91331	1.80708	9.4898
11:48:54				969	11.0926	1.1843657	5.4121	60.07326	1.80708	9.46149
11:48:55				970	11.04599	1.1835631	5.4121	50.10989	1.7094	9.4665
11:48:55				971	11.03269	1.1853318	5.4121	30.18315	1.85592	9.4852
11:48:56				972	10.90223	1.1922489	5.4121	22.12454	1.85592	9.57887
11:48:56				973	10.76006	1.1933743	5.4121	12.06349	1.9536	9.62577

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:48:57				974	10.67113	1.191445	5.4121	6.49573	2.05128	9.63225
11:48:57				975	10.66922	1.1940188	5.4121	1.51404	2.34432	9.65525
11:48:58				976	10.62334	1.1964315	5.4121	1.4652	2.34432	9.68845
11:48:58				977	10.49687	1.1956284	5.5105	1.51404	1.85592	9.7149
11:48:59				978	10.43356	1.1956286	5.5105	1.51404	2.14896	9.73174
11:48:59				979	10.38361	1.1957899	5.5105	1.4652	1.85592	9.74648
11:49:00				980	10.35764	1.1956289	5.5105	1.51404	1.90476	9.75199
11:49:00				981	10.36442	1.1951455	5.5105	1.51404	2.24664	9.74592
11:49:01				982	10.37114	1.1959489	5.5105	1.51404	2.63736	9.75121
11:49:01				983	10.35764	1.1956289	5.5105	1.4652	2.00244	9.75199
11:49:02				984	10.349	1.1956289	5.5105	1.56288	1.85592	9.7543
11:49:02				985	10.35572	1.1949844	5.6089	1.4652	1.9536	9.74681
11:49:03				986	10.36052	1.195949	5.5105	1.51404	2.34432	9.75405
11:49:03				987	10.34804	1.1961102	5.5105	1.51404	1.9536	9.7588
11:49:04				988	10.33555	1.1957901	5.6089	1.51404	1.9536	9.75931
11:49:04				989	10.33651	1.1954678	5.5105	1.51404	2.10012	9.75622
11:49:05				990	10.35956	1.1961102	5.5105	1.51404	1.85592	9.75572
11:49:05				991	10.35572	1.1961102	5.5105	1.56288	1.75824	9.75675
11:49:06				992	10.34324	1.1959491	5.5105	1.4652	2.1978	9.75867
11:49:06				993	10.33555	1.1957901	5.5105	1.51404	2.00244	9.75932
11:49:07				994	10.33844	1.1962714	5.5105	1.51404	2.10012	9.7628
11:49:07				995	10.3394	1.1962714	5.5105	1.4652	1.85592	9.76254
11:49:08				996	10.34228	1.1962714	5.6089	1.51404	2.05128	9.76175
11:49:08				997	10.33555	1.1962714	5.5105	1.51404	1.90476	9.76357
11:49:09				998	10.32019	1.1964327	5.5105	1.51404	1.85592	9.7691
11:49:09				999	10.32019	1.1961103	5.5105	1.51404	1.9536	9.76626
11:49:10				1000	10.31827	1.1962715	5.5105	1.51404	2.29548	9.7682
11:49:10				1001	10.31827	1.1961103	5.5105	1.4652	2.05128	9.76677
11:49:11				1002	10.3125	1.1962715	5.6089	1.51404	1.85592	9.76973
11:49:11				1003	10.31346	1.1962715	5.5105	1.51404	1.9536	9.76948
11:49:12				1004	10.31058	1.1962715	5.5105	1.51404	3.02808	9.77025
11:49:12				1005	10.31058	1.1962715	5.5105	1.51404	2.10012	9.77025
11:49:13				1006	10.31058	1.1962715	5.5105	1.51404	2.10012	9.77025
11:49:13				1007	10.31154	1.1961103	5.5105	1.51404	1.85592	9.76857
11:49:14				1008	10.31154	1.1961104	5.6089	1.4652	1.9536	9.76856
11:49:14				1009	10.31058	1.1961104	5.6089	1.51404	1.75824	9.76882
11:49:15				1010	10.30962	1.1964327	5.5105	1.4652	2.14896	9.77193
11:49:15				1011	10.31346	1.1961103	5.5105	1.51404	1.90476	9.76806
11:49:16				1012	10.31442	1.1962715	5.5105	1.51404	2.29548	9.76922
11:49:16				1013	10.30866	1.1962715	5.6089	1.51404	2.05128	9.77076
11:49:17				1014	10.30578	1.1962715	5.5105	1.51404	1.9536	9.77154
11:49:17				1015	10.3125	1.1967551	5.5105	1.51404	2.10012	9.77401
11:49:18				1016	10.30866	1.1965939	5.6089	1.51404	1.75824	9.7736
11:49:18				1017	10.3029	1.1965939	5.5105	1.4652	1.85592	9.77516
11:49:19				1018	10.3125	1.1967551	5.5105	1.51404	1.80708	9.77401

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:19				1019	10.31635	1.1967551	5.5105	1.51404	2.10012	9.77298
11:49:20				1020	10.30962	1.1965939	5.5105	1.4652	2.10012	9.77336
11:49:20				1021	10.3125	1.1965939	5.5105	1.51404	2.29548	9.77259
11:49:21				1022	10.33171	1.1965938	5.5105	1.51404	2.14896	9.76744
11:49:21				1023	10.31923	1.1965939	5.5105	1.51404	2.10012	9.77078
11:49:22				1024	10.31635	1.1965939	5.5105	1.4652	2.24664	9.77156
11:49:22				1025	10.31154	1.1967551	5.5105	1.51404	2.10012	9.77427
11:49:23				1026	10.31154	1.1969163	5.5105	1.4652	2.05128	9.77569
11:49:23				1027	10.31154	1.1970753	5.5105	1.51404	2.24664	9.77709
11:49:24				1028	10.31154	1.1970753	5.5105	1.51404	2.05128	9.77709
11:49:24				1029	10.31058	1.1969163	5.5105	1.51404	2.05128	9.77595
11:49:25				1030	10.30962	1.1969163	5.5105	1.51404	2.05128	9.7762
11:49:25				1031	10.31058	1.1980406	5.5105	1.51404	2.1978	9.78587
11:49:26				1032	10.30578	1.1972366	5.6089	1.51404	3.1746	9.78005
11:49:26				1033	10.3029	1.1969163	5.6089	1.4652	2.05128	9.77799
11:49:27				1034	10.30386	1.1973978	5.5105	1.51404	2.6862	9.782
11:49:27				1035	10.30674	1.1980406	5.5105	1.51404	3.32112	9.7869
11:49:28				1036	10.30578	1.1978793	5.5105	1.51404	1.9536	9.78574
11:49:28				1037	10.30386	1.1978793	5.6089	1.51404	1.85592	9.78624
11:49:29				1038	10.3077	1.1973978	5.5105	1.51404	2.24664	9.78097
11:49:29				1039	10.30866	1.1983631	5.6089	1.51404	2.29548	9.78922
11:49:30				1040	10.30578	1.2039932	5.6089	1.51404	2.29548	9.83971
11:49:30				1041	10.30674	1.2002925	5.6089	1.51404	2.1978	9.80677
11:49:31				1042	10.30674	1.1993288	5.6089	1.4652	1.75824	9.79826
11:49:31				1043	10.3077	1.2022231	5.6089	1.51404	1.90476	9.82356
11:49:32				1044	10.3077	1.2136444	5.6089	1.51404	1.9536	9.92448
11:49:32				1045	10.31058	1.2043142	5.6089	1.51404	1.85592	9.84125
11:49:33				1046	10.31346	1.2035107	5.6089	1.51404	1.85592	9.83338
11:49:33				1047	10.31442	1.2028668	5.6089	1.51404	1.75824	9.82743
11:49:34				1048	10.31827	1.2080128	5.6089	1.51404	1.75824	9.87185
11:49:34				1049	10.32211	1.2094624	5.6089	1.4652	1.9536	9.88361
11:49:35				1050	10.32499	1.2072085	5.7073	1.51404	2.1978	9.86291
11:49:35				1051	10.32691	1.2064043	5.6089	1.51404	1.7094	9.8553
11:49:36				1052	10.32883	1.2192746	5.6089	1.4652	1.66056	9.96848
11:49:36				1053	10.32979	1.2215259	5.6089	1.51404	1.80708	9.98812
11:49:37				1054	10.32979	1.221043	5.6089	1.51404	2.63736	9.98385
11:49:37				1055	10.32979	1.2212032	5.6089	1.51404	2.63736	9.98526
11:49:38				1056	10.33363	1.2218463	5.6089	1.4652	2.78388	9.9899
11:49:38				1057	10.33555	1.2208828	5.6089	1.51404	1.7094	9.98086
11:49:39				1058	10.33844	1.2234558	5.6089	1.4652	1.7094	10.00281
11:49:39				1059	10.3394	1.2229726	5.6089	1.51404	1.66056	9.99827
11:49:40				1060	10.3394	1.2228124	5.7073	1.51404	1.7094	9.99684
11:49:40				1061	10.34036	1.2220088	5.6089	1.51404	1.75824	9.98949
11:49:41				1062	10.34228	1.2234558	5.7073	1.51404	1.61172	10.00174
11:49:41				1063	10.34132	1.2236161	5.7073	1.51404	2.00244	10.00342

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:49:42				1064	10.34228	1.2231352	5.7073	1.51404	1.75824	9.99891
11:49:42				1065	10.34132	1.2231352	5.7073	1.4652	1.85592	9.99917
11:49:43				1066	10.34132	1.2247431	5.6089	1.51404	1.90476	10.0134
11:49:43				1067	10.34228	1.2258682	5.6089	1.4652	1.66056	10.02308
11:49:44				1068	10.3442	1.223939	5.7073	1.51404	1.75824	10.00548
11:49:44				1069	10.34516	1.2249035	5.6089	1.51404	2.442	10.01376
11:49:45				1070	10.3442	1.227317	5.6089	1.51404	1.85592	10.03536
11:49:45				1071	10.34612	1.22973	5.7073	1.51404	1.7094	10.05615
11:49:46				1072	10.34612	1.2258682	5.7073	1.51404	1.80708	10.02201
11:49:46				1073	10.34708	1.2310153	5.6089	1.51404	1.7094	10.06726
11:49:47				1074	10.34708	1.2424381	5.7073	1.4652	1.61172	10.1683
11:49:47				1075	10.34996	1.2340722	5.6089	1.56288	1.7094	10.0935
11:49:48				1076	10.35092	1.2355202	5.7073	1.4652	1.7094	10.10603
11:49:48				1077	10.34996	1.2437262	5.7073	1.51404	1.75824	10.1789
11:49:49				1078	10.3538	1.2434035	5.6089	1.51404	2.442	10.17498
11:49:49				1079	10.35476	1.2413117	5.7073	1.51404	1.61172	10.15619
11:49:50				1080	10.35476	1.2454945	5.7073	1.51404	2.00244	10.19321
11:49:50				1081	10.35476	1.2516091	5.7073	1.4652	1.90476	10.24734
11:49:51				1082	10.35764	1.2504818	5.7073	1.51404	1.61172	10.23655
11:49:51				1083	10.35956	1.252894	5.7073	1.4652	1.56288	10.25737
11:49:52				1084	10.36244	1.2577215	5.7073	1.51404	1.56288	10.29931
11:49:53				1087	10.37815	1.2564414	5.7073	1.51404	1.7094	10.28354
11:49:54				1088	10.38007	1.2575662	5.7073	1.51404	1.4652	10.29296
11:49:54				1089	10.38103	1.2570847	5.7073	1.4652	1.56288	10.28842
11:49:55				1090	10.38007	1.2569227	5.7073	1.51404	1.56288	10.28726
11:49:55				1091	10.37624	1.2527411	5.7073	1.51404	1.66056	10.25133
11:49:56				1092	10.37048	1.2556362	5.7073	1.4652	1.41636	10.27857
11:49:56				1093	10.3676	1.2606232	5.7073	1.51404	1.41636	10.32355
11:49:57				1094	10.36472	1.2628761	5.7073	1.51404	1.4652	10.34433
11:49:57				1095	10.36178	1.2615895	5.7073	1.51404	1.51404	10.33376
11:49:58				1096	10.36472	1.2672194	5.7073	1.51404	1.56288	10.38281
11:49:58				1097	10.3637	1.2714035	5.8056	1.51404	1.66056	10.42018
11:49:59				1098	10.35506	1.2919983	6.0024	1.51404	1.56288	10.6054
11:49:59				1099	10.32817	1.2818609	6.0024	1.4652	1.56288	10.52315
11:50:00				1100	10.32529	1.287171	6.1008	1.51404	1.51404	10.57114
11:50:00				1101	10.32913	1.2879747	6.1008	1.51404	1.75824	10.57717
11:50:01				1102	10.32145	1.2854008	6.1008	1.4652	1.56288	10.55652
11:50:01				1103	10.31857	1.2833096	6.1008	1.51404	1.51404	10.53878
11:50:02				1104	10.32049	1.2829876	6.1008	1.51404	1.51404	10.53536
11:50:02				1105	10.30992	1.2834706	6.1008	1.51404	1.41636	10.54271
11:50:03				1106	10.30704	1.2817001	6.1008	1.4652	1.36752	10.5278
11:50:03				1107	10.31184	1.2813782	6.1008	1.51404	1.4652	10.52356
11:50:04				1108	10.31376	1.2807347	6.1008	1.4652	1.4652	10.51728
11:50:04				1109	10.31761	1.2797696	6.1992	1.51404	1.41636	10.50759
11:50:05				1110	10.32145	1.279448	6.1992	1.51404	1.31868	10.50362

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:05				1111	10.32337	1.279448	6.1992	1.51404	1.31868	10.50307
11:50:06				1112	10.32529	1.2844367	6.1992	1.51404	1.36752	10.54683
11:50:06				1113	10.32433	1.2813782	6.1992	1.51404	1.31868	10.51994
11:50:07				1114	10.31665	1.2828267	6.2976	1.51404	1.66056	10.53501
11:50:07				1115	10.31568	1.2808956	6.2976	1.4652	1.4652	10.51813
11:50:08				1116	10.32433	1.2833095	6.1992	1.51404	1.36752	10.53709
11:50:08				1117	10.32145	1.2855619	6.2976	1.51404	1.61172	10.55793
11:50:09				1118	10.31568	1.2828267	6.2976	1.51404	1.26984	10.53529
11:50:09				1119	10.31568	1.2852398	6.2976	1.51404	1.31868	10.55673
11:50:10				1120	10.31376	1.2900667	6.2976	1.51404	1.31868	10.6002
11:50:10				1121	10.30608	1.2903894	6.3959	1.4652	1.31868	10.60528
11:50:11				1122	10.30218	1.2850788	6.2976	1.51404	1.56288	10.55921
11:50:11				1123	10.30416	1.2807348	6.2976	1.51404	1.4652	10.52003
11:50:12				1124	10.30025	1.2854009	6.2976	1.4652	1.31868	10.56263
11:50:12				1125	10.29833	1.2845978	6.2976	1.51404	1.4652	10.55605
11:50:13				1126	10.30218	1.2849177	6.2976	1.51404	1.4652	10.55778
11:50:13				1127	10.30704	1.2821829	6.3959	1.51404	1.31868	10.53205
11:50:14				1128	10.31088	1.2844368	6.3959	1.51404	1.51404	10.55097
11:50:14	11:50:14 ? Up profile	0.2	180	1129	10.308	1.2834706	6.3959	1.51404	1.4652	10.54322
11:50:15				1130	10.30896	1.2842757	6.3959	1.51404	1.36752	10.55009
11:50:15				1131	10.31088	1.2844368	6.3959	1.4652	1.26984	10.55097
11:50:16				1132	10.30896	1.2841147	6.2976	1.51404	1.61172	10.54868
11:50:16				1133	10.30896	1.2829877	6.3959	1.51404	1.41636	10.53865
11:50:17				1134	10.31472	1.2825048	6.3959	1.4652	1.26984	10.53269
11:50:17				1135	10.31568	1.281861	6.3959	1.51404	1.36752	10.52669
11:50:18				1136	10.31472	1.2799305	6.3959	1.51404	1.31868	10.50982
11:50:18				1137	10.31953	1.2817001	6.3959	1.51404	1.41636	10.52415
11:50:19				1138	10.32145	1.2842757	6.3959	1.4652	1.4652	10.54648
11:50:19				1139	10.31472	1.2882973	6.4943	1.51404	1.31868	10.58415
11:50:20				1140	10.30896	1.2834706	6.4943	1.4652	1.36752	10.54292
11:50:20				1141	10.31472	1.2857231	6.4943	1.51404	1.36752	10.56127
11:50:21				1142	10.31184	1.2796089	6.4943	1.51404	1.41636	10.50777
11:50:21				1143	10.31761	1.2792872	6.3959	1.4652	1.51404	10.50327
11:50:22				1144	10.31376	1.2821829	6.3959	1.51404	1.61172	10.53011
11:50:22				1145	10.31376	1.2805739	6.2976	1.51404	1.36752	10.51582
11:50:23				1146	10.3128	1.280413	6.2976	1.51404	1.56288	10.51467
11:50:23				1147	10.31184	1.2807347	6.2976	1.4652	1.4652	10.51781
11:50:24				1148	10.3128	1.2808956	6.2976	1.51404	1.36752	10.51896
11:50:24				1149	10.31568	1.2792872	6.2976	1.51404	1.31868	10.50384
11:50:25				1150	10.31761	1.279448	6.2976	1.4652	1.31868	10.50472
11:50:25				1151	10.31857	1.2762312	6.2976	1.51404	1.66056	10.47587
11:50:26				1152	10.32721	1.2744599	6.1008	1.51404	1.31868	10.45769
11:50:26				1153	10.34354	1.2660937	6.1008	1.4652	1.4652	10.3788
11:50:27				1154	10.34546	1.2525795	6.0024	1.51404	1.41636	10.2585
11:50:27				1155	10.34834	1.239709	5.904	1.51404	1.41636	10.14377

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:28				1156	10.34066	1.2522583	5.7073	1.4652	1.66056	10.25705
11:50:28				1157	10.33681	1.2364926	5.7073	1.51404	1.61172	10.11854
11:50:29				1158	10.3397	1.226198	5.6089	1.51404	1.66056	10.0267
11:50:29				1159	10.33874	1.2210496	5.5105	1.4652	1.61172	9.98147
11:50:30				1160	10.33874	1.2176715	5.5105	1.51404	1.85592	9.95162
11:50:30				1161	10.34066	1.2060897	5.5105	1.51404	1.75824	9.84883
11:50:31				1162	10.38487	1.1737619	5.4121	20.56166	1.9536	9.5523
11:50:31				1163	11.19165	1.1386983	5.3137	12.89377	1.80708	9.04378
11:50:32				1164	12.21731	1.1285645	5.2153	89.37729	1.7094	8.71415
11:50:32				1165	12.80553	1.0859545	5.0186	89.32845	1.66056	8.23063
11:50:33				1166	13.0765	1.0923849	4.9202	200	1.90476	8.22453
11:50:33				1167	13.08203	1.1190742	4.9202	200	1.75824	8.44038
11:50:34				1168	12.98966	1.1382105	4.9202	200	1.90476	8.61714
11:50:34				1169	12.50554	1.1501121	4.8218	180.65934	1.80708	8.82631
11:50:35				1170	12.53716	1.1423935	4.8218	145.93407	1.90476	8.75504
11:50:35				1171	12.04603	1.1581548	4.9202	112.28327	1.85592	9.00209
11:50:36				1172	12.04041	1.1366062	4.8218	112.28327	1.90476	8.82268
11:50:36				1173	12.42636	1.1615297	4.7234	112.28327	1.85592	8.9397
11:50:37				1174	12.17433	1.1661942	4.7234	170.40293	1.80708	9.03872
11:50:37				1175	11.86586	1.1514006	4.7234	187.83883	1.9536	8.98853
11:50:38				1176	11.84896	1.1705396	4.6251	200	1.7094	9.15417
11:50:38				1177	11.64661	1.1760071	4.7234	200	1.85592	9.25034
11:50:39				1178	11.43605	1.1724712	4.6251	200	1.75824	9.27262
11:50:39				1179	11.13467	1.16636	4.6251	200	1.90476	9.29569
11:50:40				1180	11.18786	1.1642696	4.6251	189.35287	1.85592	9.26437
11:50:40				1181	11.22578	1.1731141	4.6251	200	1.9536	9.33085
11:50:41				1182	11.15745	1.1739189	4.6251	108.57143	1.80708	9.35503
11:50:41				1183	11.0891	1.1735969	4.6251	105.20147	1.90476	9.36956
11:50:42				1184	11.0967	1.1731146	4.6251	145.68987	2.00244	9.36348
11:50:42				1185	11.08809	1.1784233	4.5267	170.54945	1.9536	9.41147
11:50:43				1186	10.9968	1.1756893	4.6251	181.78266	1.90476	9.41112
11:50:43				1187	10.97302	1.1771353	4.6251	184.07814	1.7094	9.4297
11:50:44				1188	10.93965	1.1764925	4.6251	174.16361	1.85592	9.43267
11:50:44				1189	10.90252	1.1686122	4.6251	151.79487	1.90476	9.37387
11:50:45				1190	10.87389	1.1551024	4.5267	126.59341	2.00244	9.26408
11:50:45				1191	10.80138	1.1628223	4.5267	115.45788	1.85592	9.34939
11:50:46				1192	10.68964	1.1634673	4.5267	115.45788	1.85592	9.38349
11:50:46				1193	10.74407	1.1634671	4.6251	56.11722	2.1978	9.36957
11:50:47				1194	10.80234	1.1555865	4.5267	49.91453	1.85592	9.28632
11:50:47				1195	10.6657	1.1568732	4.6251	48.64469	2.10012	9.33213
11:50:48				1196	10.58914	1.1565508	4.5267	44.59096	2.10012	9.34884
11:50:48				1197	10.57957	1.14819	4.5267	38.82784	1.85592	9.27829
11:50:49				1198	10.55756	1.1427221	4.5267	39.31624	1.80708	9.23612
11:50:49				1199	10.5968	1.1605715	4.5267	36.23932	2.00244	9.38199
11:50:50				1200	10.67812	1.1485115	4.4283	32.57631	1.9536	9.25619

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:50:50				1201	10.51729	1.1407932	4.3299	45.37241	2.10012	9.22946
11:50:51				1202	10.44728	1.1407935	4.2315	38.92552	2.10012	9.24717
11:50:51				1203	10.42133	1.139668	4.2315	29.30403	2.10012	9.24388
11:50:52				1204	10.41557	1.1306609	4.1331	23.00366	2.1978	9.16647
11:50:53				1207	10.37426	1.1313313	4.0348	11.28205	1.9536	9.18273
11:50:54				1208	10.35602	1.129885	3.9364	6.88645	2.05128	9.17466
11:50:54				1209	10.33291	1.1276337	3.838	3.76068	2.24664	9.16073
11:50:55				1210	10.32619	1.1255416	3.838	1.51404	2.1978	9.14407
11:50:55				1211	10.34546	1.1223272	3.838	1.4652	2.1978	9.11106
11:50:56				1212	10.3541	1.1195924	3.838	1.51404	2.14896	9.08494
11:50:56				1213	10.35314	1.1199134	3.838	1.51404	2.14896	9.08799
11:50:57				1214	10.33387	1.1205577	3.838	1.51404	2.1978	9.09844
11:50:57				1215	10.32331	1.1253819	3.7396	1.51404	2.6862	9.1434
11:50:58				1216	10.32715	1.1253818	3.7396	1.51404	2.24664	9.14244
11:50:58				1217	10.33003	1.123453	3.6412	1.51404	2.29548	9.12481
11:50:59				1218	10.32811	1.120396	3.5428	1.4652	2.05128	9.0985
11:50:59				1219	10.31851	1.1245769	3.5428	1.51404	2.1978	9.13757
11:51:00				1220	10.31274	1.1223273	3.6412	1.4652	2.24664	9.11926
11:51:00				1221	10.31274	1.124577	3.5428	1.51404	2.24664	9.13901
11:51:01				1222	10.3137	1.1210404	3.3461	1.51404	2.05128	9.10778
11:51:01				1223	10.29929	1.1184682	3.1493	1.51404	2.29548	9.08883
11:51:02				1224	10.28386	1.1160553	2.9526	1.4652	2.1978	9.07154
11:51:02				1225	10.28194	1.1165373	2.8542	1.51404	2.34432	9.07626
11:51:03				1226	10.27521	1.1162167	2.8542	1.51404	2.29548	9.07512
11:51:03				1227	10.27521	1.1136443	2.559	1.4652	2.29548	9.05258
11:51:04				1228	10.27232	1.1072122	2.4606	1.51404	2.442	8.99688
11:51:04				1229	10.26656	1.1059253	2.3623	1.51404	2.34432	8.98703
11:51:05				1230	10.26463	1.1047997	2.3623	1.4652	2.39316	8.97763
11:51:05				1231	10.26367	1.0938658	2.1655	1.51404	2.442	8.88203
11:51:06				1232	10.25117	1.0843809	1.8703	1.51404	2.39316	8.80201
11:51:06				1233	10.24733	1.0773062	1.772	1.4652	2.442	8.741
11:51:07				1234	10.23771	1.094026	1.772	1.4652	2.49084	8.88982
11:51:07				1235	10.23194	1.0830932	1.772	1.51404	2.442	8.79538
11:51:08				1236	10.23098	1.071518	1.6736	1.51404	2.49084	8.69425
11:51:08				1237	10.22322	1.0678214	1.3784	1.4652	2.442	8.66378
11:51:09				1238	10.21938	1.0676605	1.2801	1.51404	2.6862	8.6633
11:51:09				1239	10.21168	1.054959	1.2801	1.51404	2.6862	8.55398
11:51:10				1240	10.20591	1.0445108	1.0833	1.51404	2.83272	8.46401
11:51:10				1241	10.15772	0.6359353	0.9849	1.4652	3.1746	4.97277
11:51:11				1242	10.15676	0.8908841	0.8865	1.51404	3.95604	7.14071
11:51:11				1243	10.13076	0.8544195	0.8865	1.4652	4.24908	6.83173
11:51:12				1244	10.08348	0.7972475	0.8865	1.51404	4.29792	6.34997
11:51:12				1245	10.06035	0.8380373	0.8865	1.51404	4.34676	6.70398
11:51:13				1246	10.05938	0.4640215	0.8865	1.4652	4.10256	3.56084
11:51:13				1247	10.01013	0.6683473	0.7881	1.51404	4.83516	5.26604

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:51:14				1248	9.95408	0.1257182	0.6898	1.4652	10.35409	0.89848
11:51:14				1249	9.93373	0.0887866	0.5914	1.4652	10.64713	0.62488
11:51:15				1250	9.9289	0.5262256	0.5914	0	0	4.08696
11:51:15				1251	9.93373	0.6757304	0.6898	0	0	5.33963
11:51:16				1252	9.94146	0.6791001	0.6898	0	0	5.36703
11:51:16				1253	9.94828	0.4135395	0.6898	0	0	3.15939
11:51:17				1254	9.95697	0.6752483	0.6898	0	0	5.33214
11:51:17				1255	9.95794	0.4172246	0.6898	0	0	3.18852
11:51:18				1256	9.96567	0.4627388	0.7881	0	0	3.55951
11:51:18	12:08:12 switch off	0.2	180	1257	9.9676	0.3973566	0.6898	0	0	3.02641
11:57:00	11:55:01 switch on	15.0	90	7	9.97647	0.8492512	1.2801	0	0	6.81616
11:57:01				8	9.96971	0.8429883	1.2801	0	0	6.76339
11:57:01				9	9.98998	0.8452353	1.2801	0	0	6.77898
11:57:02				10	9.99197	0.8478064	1.2801	0	0	6.80078
11:57:02				11	9.98516	0.8384905	1.2801	0	0	6.72174
11:57:03				12	9.97647	0.8352784	1.2801	0	0	6.69567
11:57:03				13	9.97743	0.8355989	1.2801	0	0	6.69826
11:57:04				14	9.9755	0.8352784	1.2801	0	0	6.69585
11:57:04				15	9.97067	0.8266055	1.2801	0	0	6.62204
11:57:05				16	9.97067	0.8251604	1.2801	0	0	6.6096
11:57:05				17	9.97357	0.8269268	1.3784	0	0	6.62426
11:57:06				18	9.96198	0.8319057	1.2801	0	0	6.66928
11:57:06				19	9.94557	0.8245185	1.1817	0	0	6.60865
11:57:07				20	9.93784	0.8190587	1.2801	0	0	6.56303
11:57:07				21	9.96005	0.819541	1.2801	0	0	6.56316
11:57:08				22	9.96778	0.8304613	1.2801	0	0	6.65577
11:57:08				23	9.9475	0.8420243	1.2801	0	0	6.75921
11:57:09				24	9.93295	0.842184	1.2801	0	0	6.76331
11:57:09				25	9.96681	0.8296571	1.2801	0	0	6.64902
11:57:10				26	9.98612	0.8574433	1.2801	0	0	6.88504
11:57:10				27	9.96971	0.8778413	1.2801	0	0	7.06455
11:57:11				28	10.00162	0.8651511	1.2801	0	0	6.94865
11:57:11				29	10.0132	0.8754327	1.2801	0	0	7.03526
11:57:12				30	10.02092	0.8884439	1.2801	0	0	7.14629
11:57:12				31	10.03925	0.8943868	1.2801	0	0	7.1941
11:57:13				32	10.06438	0.869809	1.0833	0.04884	0	6.97685
11:57:13				33	10.07306	0.8982421	1.2801	0	0	7.22075
11:57:14				34	10.06149	0.9003313	1.2801	0	0	7.24112
11:57:14				35	10.05956	0.8641881	1.2801	0	0	6.92927
11:57:15				36	10.06728	0.8759141	1.2801	0	0	7.02895
11:57:15				37	10.05667	0.9107728	1.2801	0	0	7.33251
11:57:16				38	10.05088	0.8860332	1.3784	0	0	7.11954
11:57:16				39	10.06246	0.8682029	1.2801	0	0	6.96334
11:57:17				40	10.04896	0.8874801	1.2801	0	0	7.13244

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:57:17				41	10.01513	0.89744	1.2801	0	0	7.22532
11:57:18				42	10.00741	0.8805723	1.2801	0	0	7.08083
11:57:18				43	10.01224	0.8686852	1.2801	0	0	6.97714
11:57:19				44	10.01899	0.8788053	1.2801	0	0	7.06329
11:57:19				45	10.01031	0.8937448	1.2801	0	0	7.19427
11:57:20				46	10.00934	0.8760741	1.2801	0	0	7.04156
11:57:20				47	10.02671	0.8691674	1.2801	0	0	6.97853
11:57:21				48	10.03346	0.8828214	1.2801	0	0	7.09519
11:57:21				49	10.03443	0.8889259	1.2801	0	0	7.1478
11:57:22				50	10.03636	0.8727011	1.2801	0	0	7.00719
11:57:22				51	10.05088	0.8781631	1.2801	0	0	7.05155
11:57:23				52	10.03732	0.8945478	1.2801	0	0	7.19587
11:57:23				53	10.03539	0.8762359	1.2801	0	0	7.0379
11:57:24				54	10.04992	0.8738249	1.2801	0	0	7.01427
11:57:24				55	10.05667	0.8940667	1.2801	0	0	7.18788
11:57:25				56	10.05763	0.8794474	1.2801	0	0	7.06133
11:57:25				57	10.07499	0.8701319	1.2801	0	0	6.97758
11:57:26				58	10.08559	0.8910134	1.2801	0	0	7.15577
11:57:26				59	10.07692	0.8857122	1.2801	0	0	7.11168
11:57:27				60	10.0933	0.8702914	1.2801	0	0	6.97544
11:57:27				61	10.10198	0.88748	1.2801	0	0	7.12204
11:57:28				62	10.08366	0.898242	1.2801	0	0	7.21864
11:57:28				63	10.07692	0.8747893	1.2801	0	0	7.01738
11:57:29				64	10.06535	0.8749491	1.2801	0	0	7.021
11:57:29				65	10.06149	0.8908527	1.2801	0	0	7.15913
11:57:30				66	10.04992	0.8810547	1.2801	0	0	7.07671
11:57:30				67	10.04504	0.8702915	1.2801	0	0	6.98471
11:57:31				68	10.04118	0.8754326	1.2801	0	0	7.02984
11:57:31				69	10.03346	0.8765557	1.2801	0	0	7.04104
11:57:32				70	10.02864	0.8739867	1.2801	0	0	7.01978
11:57:32				71	10.02768	0.873825	1.2801	0	0	7.01857
11:57:33				72	10.02285	0.8730225	1.2801	0	0	7.01257
11:57:33				73	10.00452	0.8736653	1.2801	0	0	7.02167
11:57:34				74	9.99487	0.8743082	1.2801	0	0	7.02909
11:57:34				75	9.98033	0.8718991	1.2801	0	0	7.01107
11:57:35				76	9.97454	0.8710953	1.2801	0	0	7.00524
11:57:35				77	9.96585	0.8698093	1.2801	0	0	6.99579
11:57:36				78	9.95329	0.8698093	1.2801	0	0	6.99822
11:57:36				79	9.95619	0.8698093	1.2801	0	0	6.99766
11:57:37				80	9.94943	0.8677212	1.2801	0	0	6.98089
11:57:37				81	9.93881	0.8677212	1.2801	0	0	6.98294
11:57:38				82	9.94653	0.868526	1.2801	0	0	6.98841
11:57:38				83	9.95619	0.8675618	1.2801	0	0	6.97821
11:57:39				84	9.95522	0.8667594	1.2801	0	0	6.97146
11:57:39				85	9.95233	0.8675619	1.2801	0	0	6.97896

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:57:40				86	9.9504	0.8683646	1.2801	0	0	6.98627
11:57:40				87	9.94557	0.86708	1.2801	0	0	6.97609
11:57:41				88	9.93488	0.8665982	1.2801	0	0	6.97397
11:57:41				89	9.92715	0.8675619	1.2801	0	0	6.9838
11:57:42				90	9.93102	0.8675619	1.2801	0	0	6.98306
11:57:42				91	9.92908	0.8677213	1.2801	0	0	6.98481
11:57:43				92	9.92425	0.8674006	1.2801	0	0	6.98297
11:57:43				93	9.91073	0.8665982	1.2801	0	0	6.97862
11:57:44				94	9.90493	0.867562	1.2801	0	0	6.98809
11:57:44				95	9.8972	0.8641886	1.2801	0	0	6.96036
11:57:45				96	9.8943	0.7920822	1.2801	0.63492	0.29304	6.3387
11:57:45				97	9.8885	0.844754	1.2801	0.39072	0.09768	6.79382
11:57:46				98	9.90396	0.8055692	1.2801	1.4652	1.02564	6.45299
11:57:46				99	9.89816	0.7903144	1.2801	1.51404	3.85836	6.32284
11:57:47				100	9.8943	0.7838933	1.2801	1.4652	4.34676	6.26835
11:57:47				101	9.88656	0.7805213	1.2801	1.51404	4.6398	6.24073
11:57:48				102	9.88656	0.7620581	1.2801	1.4652	4.34676	6.08238
11:57:48				103	9.8885	0.7352486	1.2801	1.4652	4.24908	5.85273
11:57:49				104	9.8856	0.7819664	1.2801	1.4652	4.73748	6.25331
11:57:49				105	9.90203	0.7842146	1.2801	1.51404	4.68864	6.26977
11:57:50				106	9.92039	0.807978	1.2801	1.4652	4.78632	6.47079
11:57:50				107	9.92425	0.8017162	1.2801	1.4652	4.54212	6.41625
11:57:51				108	9.91652	0.8267663	1.2801	1.4652	4.73748	6.63332
11:57:51				109	9.91749	0.8076573	1.2801	1.4652	5.27473	6.46855
11:57:52				110	9.91073	0.7736174	1.2801	1.4652	5.12821	6.17736
11:57:52				111	9.90203	0.8307813	1.2801	1.4652	5.07937	6.67061
11:57:53				112	9.90203	0.8529451	1.2801	1.41636	5.03053	6.86211
11:57:53				113	9.92136	0.8301398	1.2801	1.51404	4.59096	6.66153
11:57:54				114	9.92908	0.8352786	1.2801	1.4652	4.20024	6.70443
11:57:54				115	9.91169	0.8391325	1.2801	1.51404	4.49328	6.74092
11:57:55				116	9.93784	0.8359214	1.2801	1.4652	3.9072	6.70835
11:57:55				117	9.96295	0.8135976	1.2801	1.4652	3.56532	6.51151
11:57:56				118	9.93784	0.8338322	1.2801	1.4652	3.71184	6.69033
11:57:56				119	9.92908	0.8566402	1.2801	1.51404	3.85836	6.88894
11:57:57				120	9.9417	0.8580842	1.2801	1.4652	3.71184	6.89902
11:57:57				121	9.96102	0.8701322	1.2801	1.51404	3.61416	6.99952
11:57:58				122	9.97067	0.8376876	1.2801	1.51404	3.663	6.71751
11:57:58				123	9.99197	0.789994	1.2801	1.4652	3.46764	6.30376
11:57:59				124	10.00259	0.7594883	1.2801	1.4652	3.56532	6.04101
11:58:00				127	9.97369	0.7633484	1.2801	1.51404	3.9072	6.07881
11:58:01				128	9.96211	0.7635105	1.2801	1.51404	4.1514	6.08214
11:58:01				129	9.95438	0.7607813	1.2801	1.51404	4.10256	6.06009
11:58:02				130	9.95245	0.7147096	1.2801	1.4652	4.00488	5.66753
11:58:02				131	9.95052	0.7169558	1.2801	1.4652	4.29792	5.68694
11:58:03				132	9.94472	0.7241802	1.2801	1.51404	4.3956	5.74934

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:58:03				133	9.93989	0.718561	1.1817	1.51404	4.00488	5.70227
11:58:04				134	9.93506	0.7318851	1.2801	1.4652	4.20024	5.81653
11:58:04				135	9.93023	0.7469734	1.0833	1.56288	4.20024	5.9461
11:58:05				136	9.92927	0.7811705	1.2801	1.4652	4.24908	6.23895
11:58:05				137	9.92927	0.8028465	1.2801	1.51404	4.6398	6.42508
11:58:06				138	9.92733	0.8012412	1.2801	1.4652	4.59096	6.41162
11:58:06				139	9.93023	0.8102335	1.2801	1.4652	4.44444	6.48844
11:58:07				140	9.93603	0.815373	1.2801	1.51404	4.29792	6.53163
11:58:07				141	9.95245	0.7855059	1.2801	1.4652	4.29792	6.27213
11:58:08				142	9.96307	0.7500236	1.2801	1.4652	4.1514	5.96674
11:58:08				143	9.96597	0.7455292	1.2801	1.51404	4.00488	5.9279
11:58:09				144	9.95824	0.7538773	1.2801	1.51404	4.44444	6.00045
11:58:09				145	9.95245	0.7415159	1.2801	1.51404	4.3956	5.89587
11:58:10				146	9.94665	0.7464925	1.2801	1.4652	4.59096	5.93929
11:58:10				147	9.94182	0.7283523	1.2801	1.51404	4.59096	5.78534
11:58:11				148	9.93506	0.7228949	1.2801	1.4652	4.884	5.73992
11:58:11				149	9.93216	0.7126224	1.2801	1.4652	4.78632	5.65294
11:58:12				150	9.92637	0.688548	1.2801	1.4652	4.68864	5.44931
11:58:12				151	9.92154	0.6769939	1.2801	1.51404	4.83516	5.35208
11:58:13				152	9.90988	0.7062033	1.2801	1.51404	4.73748	5.6018
11:58:13				153	9.90698	0.7023512	1.2801	1.51404	4.68864	5.56949
11:58:14				154	9.90988	0.6854986	1.2801	1.4652	4.884	5.42592
11:58:14				155	9.90602	0.6879065	1.2801	1.51404	4.68864	5.44693
11:58:15				156	9.89925	0.681005	1.2801	1.51404	4.68864	5.38939
11:58:15				157	9.88862	0.6835735	1.2801	1.51404	4.68864	5.41276
11:58:16				158	9.89248	0.6965729	1.2801	1.4652	4.73748	5.52258
11:58:16				159	9.89828	0.6858208	1.2801	1.4652	5.07937	5.43039
11:58:17				160	9.89925	0.6744261	1.2801	1.4652	4.78632	5.33361
11:58:17				161	9.89442	0.6646377	1.2801	1.4652	4.884	5.25141
11:58:18				162	9.89055	0.6742667	1.2801	1.51404	4.93284	5.33354
11:58:18				163	9.89152	0.6712174	1.2801	1.4652	5.07937	5.30756
11:58:19				164	9.88378	0.6550108	1.2801	1.4652	5.22589	5.17149
11:58:19				165	9.87605	0.6588603	1.2801	1.4652	5.42125	5.20516
11:58:20				166	9.87218	0.657417	1.2801	1.4652	5.12821	5.1935
11:58:20				167	9.86928	0.6416917	1.2801	1.4652	5.03053	5.06098
11:58:21				168	9.86439	0.6445809	1.2801	1.4652	5.07937	5.08607
11:58:21				169	9.85665	0.6532456	1.2801	1.4652	4.93284	5.16043
11:58:22				170	9.85955	0.6479498	1.2801	1.4652	5.12821	5.11522
11:58:22				171	9.85858	0.6582186	1.1817	1.51404	5.27473	5.20225
11:58:23				172	9.85471	0.6402477	1.2801	1.51404	5.17705	5.05081
11:58:23				173	9.84601	0.6421733	1.2801	1.4652	5.03053	5.0683
11:58:24	11:57:09 start transect	15.0	90	174	9.84504	0.6588604	1.2801	1.51404	5.12821	5.20962
11:58:24				175	9.85278	0.655973	1.2801	1.51404	5.22589	5.18406
11:58:25				176	9.84891	0.6745874	1.2801	1.51404	5.17705	5.34239
11:58:25				177	9.84794	0.6692906	1.2801	1.51404	5.17705	5.2976

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:58:26				178	9.84407	0.6569356	1.2801	1.51404	4.98168	5.19346
11:58:26				179	9.84117	0.6554919	1.2801	1.51404	5.07937	5.18165
11:58:27				180	9.84214	0.6445809	1.2801	1.51404	4.884	5.08919
11:58:27				181	9.84214	0.6534052	1.2801	1.51404	4.93284	5.16384
11:58:28				182	9.84311	0.6760315	1.2801	1.51404	5.22589	5.35551
11:58:28				183	9.84601	0.6657613	1.2801	1.51404	5.27473	5.26796
11:58:29				184	9.84794	0.6595023	1.2801	1.51404	4.93284	5.21464
11:58:29				185	9.84698	0.6641565	1.2801	1.51404	4.98168	5.25421
11:58:30				186	9.84794	0.6615896	1.2801	1.4652	4.78632	5.23232
11:58:30				187	9.84698	0.6570955	1.2801	1.4652	4.884	5.19439
11:58:31				188	9.84601	0.6548493	1.2801	1.4652	5.07937	5.17552
11:58:31				189	9.84504	0.6582186	1.2801	1.4652	5.12821	5.20418
11:58:32				190	9.84794	0.6599844	1.2801	1.4652	5.03053	5.21872
11:58:32				191	9.85085	0.6710566	1.2801	1.4652	5.12821	5.31215
11:58:33				192	9.84988	0.6686493	1.2801	1.4652	4.884	5.29188
11:58:33				193	9.85085	0.6720188	1.2801	1.4652	5.07937	5.32031
11:58:34				194	9.84988	0.6639961	1.2801	1.4652	4.78632	5.25243
11:58:34				195	9.85278	0.6521216	1.2801	1.4652	4.78632	5.15147
11:58:35				196	9.85085	0.6423338	1.2801	1.51404	4.93284	5.06898
11:58:35				197	9.84504	0.6465051	1.2801	1.51404	4.98168	5.10505
11:58:36				198	9.84021	0.646346	1.2801	1.51404	4.884	5.10439
11:58:36				199	9.8373	0.6493938	1.2801	1.4652	4.83516	5.13058
11:58:37				200	9.8344	0.6506776	1.2801	1.4652	5.12821	5.14186
11:58:37				201	9.83634	0.6562945	1.2801	1.51404	4.98168	5.18914
11:58:38				202	9.83827	0.6676868	1.2801	1.51404	5.03053	5.28541
11:58:38				203	9.84117	0.6774747	1.2801	1.51404	4.98168	5.36805
11:58:39				204	9.84214	0.6614276	1.2801	1.51404	4.98168	5.23179
11:58:39				205	9.84214	0.6574171	1.2801	1.4652	4.83516	5.19781
11:58:40				206	9.83924	0.6582186	1.2801	1.4652	4.83516	5.20502
11:58:40				207	9.8373	0.6585404	1.2801	1.51404	4.83516	5.20802
11:58:41				208	9.8373	0.6534052	1.2801	1.51404	4.83516	5.16453
11:58:41				209	9.84021	0.6452221	1.2801	1.51404	4.93284	5.09489
11:58:42				210	9.83827	0.6251674	1.1817	1.4652	5.12821	4.9258
11:58:42				211	9.8315	0.6242053	1.2801	1.4652	5.17705	4.91859
11:58:43				212	9.8315	0.6071998	1.2801	1.4652	5.27473	4.77533
11:58:43				213	9.8286	0.6099267	1.2801	1.51404	5.12821	4.79866
11:58:44				214	9.81892	0.5699859	1.2801	1.4652	5.17705	4.46455
11:58:44				215	9.80628	0.5924416	1.2801	1.4652	5.22589	4.65451
11:58:45				216	9.79079	0.6455438	1.2801	1.51404	5.27473	5.10457
11:58:45				217	9.79079	0.5780065	1.1817	1.51404	5.22589	4.53528
11:58:46				218	9.77046	0.5637319	1.2801	1.51404	5.17705	4.41812
11:58:46				219	9.74909	0.6011032	1.2801	1.51404	5.66545	4.73481
11:58:47				220	9.74134	0.6014249	1.2801	1.51404	5.61661	4.73854
11:58:47				221	9.73553	0.543846	1.2801	1.51404	5.71429	4.25588
11:58:48				222	9.7239	0.5492982	1.2801	1.4652	5.42125	4.30287

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:58:48				223	9.71809	0.5534671	1.2801	1.4652	5.51893	4.33847
11:58:49				224	9.71905	0.5781674	1.2801	1.51404	5.66545	4.54562
11:58:49				225	9.72196	0.5355071	1.2801	1.51404	5.61661	4.18778
11:58:50				226	9.72196	0.547855	1.2801	1.4652	5.37241	4.29102
11:58:50				227	9.72196	0.5316592	1.2801	1.51404	5.37241	4.15565
11:58:51				228	9.72196	0.5292539	1.2801	1.51404	5.66545	4.13558
11:58:51				229	9.72002	0.5308565	1.2801	1.51404	5.76313	4.14917
11:58:52				230	9.72099	0.5287722	1.2801	1.51404	5.76313	4.13167
11:58:52				231	9.72099	0.5311786	1.2801	1.51404	5.66545	4.15175
11:58:53				232	9.72099	0.5279708	1.2801	1.4652	5.90965	4.12498
11:58:53				233	9.72196	0.5181896	1.2801	1.51404	5.86081	4.04333
11:58:54				234	9.71712	0.5122582	1.2801	1.51404	5.95849	3.99448
11:58:54				235	9.70936	0.5161061	1.2801	1.4652	5.90965	4.02738
11:58:55				236	9.70542	0.5128993	1.3784	1.51404	5.90965	4.0011
11:58:55				237	9.70349	0.5162667	1.2801	1.51404	5.81197	4.02937
11:58:56				238	9.70349	0.5140216	1.2801	1.51404	5.71429	4.01067
11:58:56				239	9.70645	0.5181896	1.2801	1.51404	5.81197	4.04506
11:58:57				240	9.70839	0.512098	1.2801	1.4652	6.05617	3.9941
11:58:57				241	9.71227	0.5079289	1.2801	1.4652	5.76313	3.95898
11:58:58				242	9.70839	0.50873	1.2801	1.51404	5.81197	3.96607
11:58:58				243	9.70742	0.5045619	1.2801	1.4652	5.90965	3.93151
11:58:59				244	9.70742	0.5066455	1.2801	1.51404	6.15385	3.94884
11:59:00				247	9.70088	0.5061697	1.2801	1.4652	5.81197	3.94559
11:59:01				248	9.69797	0.5018399	1.2801	1.4652	5.76313	3.9099
11:59:01				249	9.69797	0.4997567	1.2801	1.51404	5.95849	3.89258
11:59:02				250	9.6941	0.499596	1.2801	1.4652	5.66545	3.89166
11:59:02				251	9.69022	0.4994352	1.2801	1.51404	5.76313	3.89074
11:59:03				252	9.69119	0.5011994	1.2801	1.51404	5.90965	3.90531
11:59:03				253	9.69119	0.4941446	1.2801	1.51404	5.81197	3.84668
11:59:04				254	9.69216	0.4912601	1.2801	1.51404	5.90965	3.82263
11:59:04				255	9.69313	0.4869314	1.2801	1.4652	5.86081	3.7866
11:59:05				256	9.68634	0.4888548	1.2801	1.51404	5.81197	3.80327
11:59:05				257	9.68149	0.488695	1.2801	1.4652	6.05617	3.80246
11:59:06				258	9.68149	0.5247685	1.1817	1.51404	6.39805	4.10275
11:59:06				259	9.68925	0.5127424	1.2801	1.4652	6.15385	4.00159
11:59:07				260	9.68634	0.4878928	1.2801	1.51404	6.15385	3.79529
11:59:07				261	9.67761	0.4938241	1.2801	1.4652	6.20269	3.84546
11:59:08				262	9.67567	0.5308617	1.2801	1.51404	6.30037	4.15431
11:59:08				263	9.68052	0.5003984	1.2801	1.4652	5.95849	3.89979
11:59:09				264	9.66404	0.504886	1.2801	1.51404	6.25153	3.93892
11:59:09				265	9.6747	0.5342281	1.2801	1.4652	6.25153	4.18256
11:59:10				266	9.70379	0.5512264	1.2801	1.51404	6.44689	4.32141
11:59:10				267	9.69991	0.5488216	1.2801	1.4652	6.39805	4.30173
11:59:11				268	9.68634	0.5497835	1.2801	1.51404	5.81197	4.3114
11:59:11				269	9.70088	0.5544331	1.2801	1.4652	5.95849	4.34863

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:59:12				270	9.7242	0.5513866	1.2801	1.51404	6.10501	4.32031
11:59:12				271	9.72226	0.5459353	1.2801	1.4652	5.86081	4.27492
11:59:13				272	9.71742	0.5457738	1.2801	1.51404	6.05617	4.27414
11:59:13				273	9.72614	0.5627733	1.2801	1.4652	5.81197	4.41549
11:59:14				274	9.73292	0.5589246	1.2801	1.51404	5.76313	4.3824
11:59:14				275	9.73292	0.5733586	1.2801	1.4652	5.42125	4.50348
11:59:15				276	9.73486	0.5714339	1.2801	1.51404	5.86081	4.48708
11:59:15				277	9.74649	0.5804152	1.2801	1.4652	5.86081	4.56106
11:59:16				278	9.75327	0.5778494	1.2801	1.51404	5.66545	4.53865
11:59:16				279	9.74842	0.5646979	1.2801	1.4652	5.61661	4.4289
11:59:17				280	9.74842	0.6044767	1.2801	1.51404	5.61661	4.76334
11:59:17				281	9.76005	0.6193959	1.2801	1.51404	5.76313	4.88768
11:59:18				282	9.7756	0.6112143	1.2801	1.4652	5.51893	4.81655
11:59:18				283	9.76689	0.6142616	1.2801	1.51404	5.56777	4.84342
11:59:19				284	9.77657	0.6232454	1.2801	1.4652	5.27473	4.91795
11:59:19				285	9.78528	0.6210001	1.2801	1.51404	5.37241	4.89781
11:59:20				286	9.78238	0.6107329	1.2801	1.4652	5.12821	4.81159
11:59:20				287	9.77948	0.607363	1.2801	1.51404	5.27473	4.78357
11:59:21				288	9.78335	0.6023903	1.2801	1.51404	5.71429	4.74117
11:59:21				289	9.78432	0.6064004	1.2801	1.4652	5.56777	4.77482
11:59:22				290	9.78432	0.6299835	1.2801	1.51404	5.42125	4.97383
11:59:22				291	9.79013	0.6561365	1.2801	1.4652	5.47009	5.19442
11:59:23				292	9.78335	0.6535685	1.0833	1.56288	5.17705	5.17364
11:59:23				293	9.78722	0.6522866	1.2801	1.51404	5.17705	5.1622
11:59:24				294	9.80755	0.6570992	1.2801	1.4652	5.27473	5.20008
11:59:24				295	9.82013	0.6428191	1.2801	1.51404	5.17705	5.07738
11:59:25				296	9.81142	0.62501	1.2801	1.4652	5.22589	4.92811
11:59:25				297	9.80368	0.6346365	1.2801	1.51404	5.07937	5.01049
11:59:26				298	9.81142	0.6405722	1.2801	1.51404	5.07937	5.0596
11:59:26				299	9.81142	0.6181119	1.2801	1.41636	5.03053	4.86992
11:59:27				300	9.80271	0.6139413	1.2801	1.51404	5.07937	4.83593
11:59:27				301	9.79206	0.6072034	1.2801	1.51404	4.93284	4.78056
11:59:28				302	9.79593	0.6102516	1.2801	1.4652	5.17705	4.80573
11:59:28				303	9.79497	0.6039951	1.2801	1.51404	5.56777	4.75316
11:59:29				304	9.78722	0.5970966	1.2801	1.4652	5.32357	4.69611
11:59:29				305	9.78238	0.6360802	1.2801	1.51404	5.37241	5.02565
11:59:30				306	9.78432	0.607363	1.2801	1.51404	5.37241	4.78293
11:59:30				307	9.77948	0.584747	1.2801	1.51404	5.47009	4.59328
11:59:31				308	9.76979	0.587954	1.2801	1.51404	5.37241	4.62147
11:59:31				309	9.77657	0.599022	1.2801	1.4652	5.61661	4.7137
11:59:32				310	9.77657	0.580737	1.2801	1.4652	5.32357	4.55997
11:59:32				311	9.7727	0.5816994	1.2801	1.51404	5.32357	4.56854
11:59:33				312	9.76586	0.5993434	1.2801	1.51404	5.47009	4.7178
11:59:33				313	9.76979	0.6211608	1.2801	1.4652	5.56777	4.90127
11:59:34				314	9.76198	0.5794535	1.2801	1.4652	5.61661	4.55103

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:59:34				315	9.7552	0.5849066	1.2801	1.51404	5.22589	4.59771
11:59:35				316	9.74842	0.6245291	1.2801	1.4652	5.42125	4.93263
11:59:35				317	9.76882	0.6243681	1.2801	1.51404	5.47009	4.92849
11:59:36				318	9.77463	0.5958146	1.2801	1.51404	5.47009	4.68695
11:59:36				319	9.75036	0.6075244	1.2801	1.4652	5.32357	4.78878
11:59:37				320	9.75811	0.6067212	1.2801	1.51404	5.51893	4.78098
11:59:37				321	9.76882	0.594692	1.2801	1.51404	5.37241	4.67826
11:59:38				322	9.75714	0.5805761	1.2801	1.4652	5.27473	4.56107
11:59:38				323	9.74649	0.5857079	1.2801	1.4652	5.32357	4.60555
11:59:39				324	9.73777	0.5885951	1.2801	1.51404	5.76313	4.63095
11:59:39				325	9.73777	0.534228	1.2801	1.4652	5.61661	4.17528
11:59:40				326	9.7368	0.5441703	1.2801	1.4652	5.51893	4.25844
11:59:40				327	9.72808	0.5823401	1.2801	1.51404	5.71429	4.57957
11:59:41				328	9.72808	0.5622916	1.2801	1.51404	5.51893	4.41121
11:59:41				329	9.7242	0.547377	1.2801	1.51404	5.37241	4.28675
11:59:42				330	9.72323	0.5881139	1.2801	1.51404	5.71429	4.62876
11:59:42				331	9.73971	0.5897194	1.2801	1.51404	5.90965	4.64016
11:59:43				332	9.74164	0.5448122	1.2801	1.4652	5.42125	4.26324
11:59:43				333	9.72711	0.5504239	1.2801	1.51404	5.56777	4.31191
11:59:44				334	9.73099	0.5545935	1.2801	1.51404	5.61661	4.34635
11:59:44				335	9.73099	0.5436898	1.2801	1.4652	5.61661	4.25511
11:59:45				336	9.72517	0.5658207	1.2801	1.4652	5.76313	4.44117
11:59:45				337	9.7242	0.5656593	1.2801	1.51404	5.76313	4.43994
11:59:46				338	9.73099	0.5459353	1.2801	1.51404	5.76313	4.27389
11:59:46				339	9.72517	0.5528308	1.2801	1.4652	5.90965	4.33229
11:59:47				340	9.72614	0.5725572	1.2801	1.4652	5.56777	4.4976
11:59:47				341	9.73874	0.5786513	1.2801	1.4652	5.86081	4.54721
11:59:48				342	9.73389	0.5741604	1.0833	1.56288	5.81197	4.51011
11:59:48				343	9.73195	0.5690278	1.2801	1.4652	5.86081	4.46725
11:59:49				344	9.73777	0.5638966	1.2801	1.4652	5.61661	4.42349
11:59:49				345	9.73583	0.5690278	1.2801	1.51404	5.66545	4.46677
11:59:50				346	9.73389	0.5685462	1.2801	1.51404	5.95849	4.46297
11:59:50				347	9.73486	0.5680665	1.2801	1.4652	6.10501	4.45882
11:59:51				348	9.72808	0.5701513	1.2801	1.4652	5.51893	4.47716
11:59:51				349	9.73389	0.5688678	1.2801	1.4652	5.86081	4.46566
11:59:52				350	9.73099	0.5613302	1.2801	1.51404	5.76313	4.4028
11:59:52				351	9.72033	0.5683863	1.2801	1.4652	5.71429	4.4633
11:59:53				352	9.72323	0.5643771	1.2801	1.4652	5.81197	4.4293
11:59:53				353	9.72905	0.5597256	1.2801	1.51404	5.86081	4.38958
11:59:54				354	9.72905	0.5618117	1.2801	1.4652	5.90965	4.40707
11:59:54				355	9.73777	0.5634146	1.2801	1.51404	6.10501	4.41945
11:59:55				356	9.73874	0.5613302	1.2801	1.4652	5.66545	4.40186
11:59:55				357	9.74261	0.5597255	1.2801	1.4652	5.81197	4.38794
11:59:56				358	9.74261	0.5570005	1.2801	1.51404	5.71429	4.36511
11:59:56				359	9.74261	0.5542743	1.2801	1.4652	5.61661	4.34228

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:59:57				360	9.74358	0.5513866	1.2801	1.51404	5.42125	4.318
11:59:57				361	9.73874	0.5502637	1.2801	1.51404	5.66545	4.30918
11:59:58				362	9.7368	0.5510662	1.2801	1.41636	5.66545	4.31613
11:59:58				363	9.73486	0.5496234	1.2801	1.51404	5.76313	4.30428
11:59:59				364	9.73486	0.5452929	1.2801	1.51404	5.71429	4.26806
12:00:00				367	9.72099	0.531327	1.2801	1.4652	5.47009	4.15299
12:00:01				368	9.71905	0.5286004	1.2801	1.51404	5.90965	4.13046
12:00:01				369	9.7113	0.5228286	1.2801	1.51404	6.05617	4.08319
12:00:02				370	9.70645	0.5199419	1.1817	1.51404	6.20269	4.05967
12:00:02				371	9.70839	0.5199419	1.2801	1.51404	5.81197	4.05945
12:00:03				372	9.70936	0.5168957	1.2801	1.51404	5.90965	4.03395
12:00:03				373	9.70446	0.5138495	1.2801	1.4652	5.81197	4.00913
12:00:04				374	9.70252	0.5151329	1.2801	1.51404	5.81197	4.02003
12:00:04				375	9.69961	0.516255	1.2801	1.51404	5.71429	4.0297
12:00:05				376	9.6967	0.5132082	1.2801	1.4652	6.05617	4.00464
12:00:05				377	9.69185	0.516255	1.2801	1.4652	5.90965	4.03057
12:00:06				378	9.68991	0.5180188	1.2801	1.4652	5.71429	4.04549
12:00:06				379	9.68991	0.5213856	1.2801	1.51404	5.81197	4.07356
12:00:07				380	9.68894	0.5209042	1.2801	1.51404	5.81197	4.06966
12:00:07				381	9.68894	0.519461	1.2801	1.4652	5.66545	4.05762
12:00:08				382	9.6967	0.5319679	1.2801	1.51404	6.00733	4.16113
12:00:08				383	9.70542	0.5340524	1.2801	1.51404	6.05617	4.17754
12:00:09				384	9.70058	0.5168957	1.2801	1.41636	5.86081	4.03493
12:00:09				385	9.69961	0.5124068	1.2801	1.51404	5.66545	3.99765
12:00:10				386	9.69864	0.5101631	1.2801	1.51404	5.90965	3.97907
12:00:10				387	9.6967	0.5096814	1.2801	1.51404	5.90965	3.97527
12:00:11				388	9.69573	0.5072763	1.2801	1.4652	5.66545	3.95536
12:00:11				389	9.69379	0.5055128	1.2801	1.51404	5.81197	3.9409
12:00:12				390	9.69185	0.5075976	1.2801	1.4652	5.90965	3.95846
12:00:12				391	9.69185	0.5075976	1.2801	1.4652	5.95849	3.95846
12:00:13				392	9.69088	0.5043907	1.2801	1.51404	5.86081	3.93188
12:00:13				393	9.68894	0.5128876	1.2801	1.51404	6.30037	4.00283
12:00:14				394	9.69088	0.5082386	1.2801	1.51404	5.86081	3.9639
12:00:14				395	9.68798	0.5127273	1.3784	1.4652	5.86081	4.0016
12:00:15				396	9.68798	0.5176974	1.2801	1.4652	6.10501	4.04302
12:00:15				397	9.69282	0.520423	1.2801	1.51404	6.05617	4.06521
12:00:16				398	9.69379	0.519461	1.2801	1.4652	6.20269	4.05708
12:00:16				399	9.69282	0.5159338	1.2801	1.51404	5.95849	4.02778
12:00:17				400	9.68216	0.5253938	1.2801	1.51404	5.90965	4.10789
12:00:17				401	9.68701	0.5422306	1.2801	1.51404	6.20269	4.24807
12:00:18				402	9.6967	0.544476	1.2801	1.4652	6.30037	4.26573
12:00:18				403	9.69185	0.5513713	1.2801	1.4652	6.44689	4.32405
12:00:19				404	9.69185	0.5646826	1.2801	1.4652	5.95849	4.43571
12:00:19				405	9.70742	0.6100744	1.2801	1.4652	6.00733	4.81601
12:00:20				406	9.71518	0.5694923	1.3784	1.4652	5.86081	4.47321

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:00:20				407	9.70645	0.5504086	1.2801	1.51404	5.71429	4.31424
12:00:21				408	9.70252	0.5465608	1.2801	1.51404	5.66545	4.28249
12:00:21				409	9.71227	0.5648422	1.2801	1.51404	5.56777	4.43454
12:00:22				410	9.72196	0.5545782	1.2801	1.51404	5.90965	4.34731
12:00:22				411	9.71421	0.5563426	1.2801	1.51404	5.81197	4.36303
12:00:23				412	9.72196	0.582645	1.2801	1.4652	5.86081	4.58291
12:00:23				413	9.73165	0.5829654	1.2801	1.51404	6.10501	4.58437
12:00:24				414	9.73456	0.6001279	1.2801	1.4652	5.56777	4.72849
12:00:24				415	9.74134	0.5991653	1.2801	1.4652	6.00733	4.7195
12:00:25				416	9.73456	0.5972415	1.2801	1.51404	5.81197	4.70417
12:00:25				417	9.74134	0.6240304	1.2801	1.51404	5.86081	4.92938
12:00:26				418	9.76368	0.6177736	1.2801	1.51404	5.76313	4.87349
12:00:26				419	9.75296	0.6229079	1.2801	1.51404	5.66545	4.91831
12:00:27				420	9.76271	0.6121599	1.2801	1.51404	5.66545	4.82624
12:00:27				421	9.75981	0.594354	1.2801	1.51404	5.66545	4.67658
12:00:28				422	9.752	0.5972414	1.2801	1.4652	5.66545	4.7019
12:00:28				423	9.76465	0.5970809	1.2801	1.4652	5.47009	4.69891
12:00:29				424	9.76852	0.5924295	1.2801	1.4652	5.86081	4.65926
12:00:29				425	9.75878	0.5778338	1.2801	1.4652	5.71429	4.53783
12:00:30				426	9.74037	0.5760687	1.2801	1.4652	5.56777	4.52531
12:00:30				427	9.73746	0.5656439	1.2801	1.51404	5.71429	4.43818
12:00:31				428	9.73746	0.5646825	1.2801	1.51404	5.17705	4.43012
12:00:31				429	9.73165	0.5571441	1.2801	1.51404	5.32357	4.36764
12:00:32				430	9.72681	0.5534551	1.2801	1.51404	5.27473	4.33732
12:00:32				431	9.72874	0.5499282	1.2801	1.51404	5.71429	4.30756
12:00:33				432	9.72874	0.5505687	1.2801	1.4652	5.95849	4.31292
12:00:33				433	9.73068	0.5468804	1.2801	1.51404	6.00733	4.28183
12:00:34				434	9.72002	0.5451163	1.2801	1.51404	6.30037	4.26833
12:00:34				435	9.72293	0.5531344	1.2801	1.4652	6.00733	4.3351
12:00:35				436	9.72681	0.5653228	1.2801	1.4652	6.10501	4.43679
12:00:35				437	9.72874	0.5706161	1.2801	1.51404	6.10501	4.48097
12:00:36				438	9.73456	0.5686906	1.2801	1.4652	6.00733	4.4641
12:00:36				439	9.74231	0.5701341	1.2801	1.51404	5.90965	4.47525
12:00:37				440	9.74328	0.5651631	1.2801	1.51404	6.10501	4.43343
12:00:37				441	9.74037	0.5616352	1.2801	1.51404	5.81197	4.40421
12:00:38				442	9.7394	0.5590683	1.2801	1.51404	6.10501	4.38282
12:00:38				443	9.73746	0.5597101	1.2801	1.51404	6.39805	4.38843
12:00:39				444	9.7394	0.5622761	1.2801	1.51404	5.71429	4.4097
12:00:39				445	9.74037	0.5592292	1.2801	1.4652	6.15385	4.38405
12:00:40				446	9.73746	0.5565032	1.2801	1.4652	6.15385	4.36157
12:00:40				447	9.73553	0.5565032	1.2801	1.4652	5.90965	4.3618
12:00:41				448	9.73359	0.5550597	1.2801	1.4652	6.05617	4.34994
12:00:41				449	9.73068	0.5528137	1.2801	1.4652	6.05617	4.33149
12:00:42				450	9.72584	0.5491262	1.2801	1.4652	6.10501	4.3012
12:00:42				451	9.72874	0.547042	1.2801	1.4652	6.00733	4.28341

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:00:43				452	9.72584	0.5427123	1.2801	1.4652	5.61661	4.24754
12:00:43				453	9.72002	0.5395051	1.2801	1.51404	5.61661	4.22141
12:00:44				454	9.72002	0.5449566	1.2801	1.51404	5.76313	4.267
12:00:44				455	9.72099	0.5454374	1.2801	1.4652	5.66545	4.2709
12:00:45				456	9.72002	0.5407877	1.2801	1.51404	6.05617	4.23213
12:00:45				457	9.7113	0.5393442	1.2801	1.56288	5.95849	4.22109
12:00:46				458	9.7113	0.5393442	1.2801	1.4652	6.05617	4.22109
12:00:46				459	9.71518	0.5377411	1.2801	1.51404	5.90965	4.20723
12:00:47				460	9.70936	0.5361376	1.1817	1.51404	6.05617	4.19452
12:00:47				461	9.70155	0.5337316	1.2801	1.4652	5.95849	4.17531
12:00:48				462	9.70446	0.5379018	1.2801	1.51404	6.54457	4.20983
12:00:48				463	9.71421	0.5369392	1.2801	1.51404	6.20269	4.20065
12:00:49				464	9.71518	0.5364572	1.2801	1.4652	5.90965	4.19651
12:00:49				465	9.71421	0.5348548	1.2801	1.51404	5.95849	4.18323
12:00:50				466	9.71615	0.535977	1.2801	1.51404	6.10501	4.19238
12:00:50				467	9.71809	0.5353347	1.2801	1.4652	5.81197	4.18679
12:00:51				468	9.71712	0.5343733	1.2801	1.4652	5.86081	4.17887
12:00:51				469	9.72002	0.5316474	1.2801	1.51404	5.56777	4.15578
12:00:52				470	9.72002	0.5292421	1.2801	1.4652	5.86081	4.1357
12:00:52				471	9.71905	0.5277991	1.2801	1.51404	5.81197	4.12377
12:00:53				472	9.71518	0.5263555	1.2801	1.51404	5.76313	4.11217
12:00:53				473	9.71712	0.524592	1.1817	1.4652	5.71429	4.09724
12:00:54				474	9.71421	0.5257148	1.2801	1.51404	5.95849	4.10693
12:00:54				475	9.7113	0.5268366	1.2801	1.51404	5.76313	4.11662
12:00:55				476	9.70839	0.5245921	1.2801	1.4652	5.56777	4.09823
12:00:55				477	9.71033	0.5220264	1.2801	1.51404	5.76313	4.07661
12:00:56				478	9.70839	0.5215466	1.2801	1.51404	5.90965	4.07283
12:00:56				479	9.70446	0.5194609	1.2801	1.51404	5.42125	4.05588
12:00:57				480	9.70446	0.5207449	1.2801	1.51404	5.86081	4.06659
12:00:57				481	9.69961	0.5213855	1.2801	1.51404	5.86081	4.07247
12:00:58				482	9.70058	0.5213855	1.2801	1.51404	5.76313	4.07236
12:00:58				483	9.69864	0.5197827	1.2801	1.51404	5.61661	4.05922
12:00:59				484	9.69961	0.5170564	1.2801	1.51404	5.81197	4.03638
12:01:00				487	9.69379	0.5229864	1.2801	1.51404	5.61661	4.08648
12:01:01				488	9.69282	0.525071	1.2801	1.51404	5.81197	4.10399
12:01:01				489	9.69476	0.5297206	1.2801	1.4652	5.90965	4.14258
12:01:02				490	9.69767	0.5306829	1.2801	1.51404	5.86081	4.15029
12:01:02				491	9.69379	0.5271563	1.2801	1.51404	5.86081	4.12128
12:01:03				492	9.69573	0.5284388	1.2801	1.4652	5.81197	4.13177
12:01:03				493	9.69573	0.5311651	1.2801	1.51404	5.86081	4.15454
12:01:04				494	9.69961	0.5313253	1.2801	1.51404	6.05617	4.15543
12:01:04				495	9.69961	0.5345321	1.2801	1.4652	5.76313	4.18222
12:01:05				496	9.69767	0.5370982	1.2801	1.51404	5.76313	4.2039
12:01:05				497	9.70252	0.5383808	1.2801	1.51404	5.95849	4.21406
12:01:06				498	9.70542	0.5396626	1.2801	1.51404	5.81197	4.22443

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:01:06				499	9.70639	0.5383808	1.2801	1.51404	5.90965	4.2136
12:01:07				500	9.70446	0.5387008	1.2801	1.51404	5.71429	4.2165
12:01:07				501	9.70833	0.5385399	1.2801	1.4652	5.76313	4.21471
12:01:08				502	9.71124	0.5385399	1.2801	1.51404	5.90965	4.21437
12:01:08				503	9.70833	0.5364555	1.2801	1.51404	5.66545	4.19729
12:01:09				504	9.70736	0.5364555	1.2801	1.51404	5.76313	4.1974
12:01:09				505	9.70833	0.5383808	1.2801	1.51404	5.81197	4.21338
12:01:10				506	9.71027	0.5303626	1.2801	1.51404	5.76313	4.14617
12:01:10				507	9.70252	0.5300424	1.2801	1.51404	5.71429	4.14438
12:01:11				508	9.70058	0.5271562	1.2801	1.51404	5.56777	4.12051
12:01:11				509	9.6967	0.5244308	1.2801	1.51404	5.95849	4.0982
12:01:12				510	9.69573	0.5253921	1.2801	1.51404	5.51893	4.10634
12:01:12				511	9.69088	0.5236279	1.2801	1.51404	5.42125	4.09216
12:01:13				512	9.68894	0.519781	1.2801	1.51404	5.71429	4.06029
12:01:13				513	9.68798	0.5217043	1.2801	1.51404	6.05617	4.07644
12:01:14				514	9.68991	0.5271563	1.2801	1.51404	6.10501	4.12172
12:01:14				515	9.69476	0.5282789	1.2801	1.51404	6.05617	4.13055
12:01:15				516	9.68604	0.5244308	1.2801	1.51404	5.90965	4.09941
12:01:15				517	9.68701	0.5361359	1.2801	1.51404	5.86081	4.19709
12:01:16				518	9.69476	0.5326074	1.2801	1.51404	5.81197	4.1667
12:01:16				519	9.69476	0.5297206	1.2801	1.51404	6.05617	4.14258
12:01:17				520	9.69282	0.5133668	1.2801	1.51404	5.90965	4.00639
12:01:17	12:00:02 end transect	15.0	270	521	9.69961	0.5072746	1.2801	1.51404	6.00733	3.95492
12:01:18				522	9.70155	0.5082369	1.2801	1.51404	5.95849	3.96272
12:01:18				523	9.69864	0.5039088	1.2801	1.51404	5.86081	3.92703
12:01:19				524	9.69379	0.4936473	1.2801	1.51404	5.90965	3.84227
12:01:19				525	9.69185	0.4955712	1.2801	1.51404	5.71429	3.85846
12:01:20				526	9.68991	0.492526	1.2801	1.51404	5.71429	3.83337
12:01:20				527	9.68991	0.4891596	1.2801	1.51404	5.76313	3.80543
12:01:21				528	9.68894	0.4901205	1.2801	1.51404	6.34921	3.81351
12:01:21				529	9.68991	0.4891596	1.2801	1.51404	6.05617	3.80543
12:01:22				530	9.68604	0.486915	1.2801	1.4652	5.90965	3.78721
12:01:22				531	9.68022	0.487236	1.2801	1.4652	5.71429	3.79048
12:01:23				532	9.67828	0.4854723	1.2801	1.51404	6.20269	3.77605
12:01:23				533	9.67925	0.4806639	1.2801	1.4652	6.44689	3.73607
12:01:24				534	9.67828	0.4809838	1.2801	1.51404	5.90965	3.73883
12:01:24				535	9.67925	0.4797015	1.2801	1.51404	6.25153	3.7281
12:01:25				536	9.68119	0.4797015	1.2801	1.4652	6.44689	3.7279
12:01:25				537	9.68216	0.4771366	1.2801	1.51404	5.71429	3.70655
12:01:26				538	9.67925	0.4801819	1.2801	1.51404	5.90965	3.73208
12:01:26				539	9.67925	0.5403048	1.2801	1.4652	6.00733	4.23287
12:01:27				540	9.69573	0.5226658	1.4768	1.4652	6.15385	4.08358
12:01:27				541	9.70639	0.5271562	1.5752	1.51404	5.81197	4.11983
12:01:28				542	9.71027	0.554416	1.6736	1.4652	5.76313	4.34733
12:01:28				543	9.71809	0.5472002	1.772	1.51404	5.90965	4.28596

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:01:29				544	9.71712	0.5682075	1.772	1.4652	5.51893	4.46216
12:01:29				545	9.72778	0.5767076	1.9687	1.4652	5.90965	4.53221
12:01:30				546	9.7365	0.5913037	2.0671	1.51404	5.56777	4.65385
12:01:30				547	9.74812	0.5682075	2.0671	1.51404	5.27473	4.45832
12:01:31				548	9.74909	0.9293957	2.2639	1.51404	5.42125	7.5578
12:01:31				549	9.77917	0.6748901	2.2639	1.51404	5.51893	5.35519
12:01:32				550	9.79079	0.7223955	2.3623	1.51404	5.17705	5.75846
12:01:32				551	9.78401	0.8214545	2.4606	1.51404	4.884	6.61156
12:01:33				552	9.85762	0.7583526	2.4606	1.56288	4.6398	6.05536
12:01:33				553	9.82376	0.868672	2.4606	1.51404	4.54212	7.01328
12:01:34				554	9.8373	0.7236804	2.4606	1.51404	4.20024	5.76203
12:01:34				555	9.85278	0.7710353	2.4606	1.51404	3.85836	6.16497
12:01:35				556	9.81499	0.8230596	2.4606	1.51404	3.9072	6.61978
12:01:35				557	9.85762	0.899834	2.4606	1.51404	3.80952	7.27749
12:01:36				558	9.90505	0.850361	2.559	1.4652	3.46764	6.83906
12:01:36				559	9.91085	0.8715625	2.4606	1.4652	4.05372	7.02148
12:01:37				560	9.88668	0.8270742	2.4606	1.4652	4.20024	6.64132
12:01:37				561	9.90312	0.8622465	2.4606	1.51404	4.78632	6.94228
12:01:38				562	9.92148	0.8836096	2.4606	1.4652	4.3956	7.12384
12:01:38				563	9.93307	0.8914805	2.559	1.4652	4.83516	7.18982
12:01:39				564	9.94279	0.8800764	2.4606	1.51404	4.68864	7.08903
12:01:39				565	9.94955	0.9207182	2.4606	1.4652	4.6398	7.44052
12:01:40				566	9.96693	0.9703673	2.4606	1.51404	4.00488	7.86968
12:01:40				567	9.99209	0.9070629	2.559	1.51404	3.663	7.31323
12:01:41				568	9.99981	0.8935681	2.559	1.4652	3.61416	7.19468
12:01:41				569	10.00464	0.9522109	2.559	1.51404	3.71184	7.70317
12:01:42				570	10.01911	0.9785633	2.559	1.51404	3.663	7.92989
12:01:42				571	10.03358	0.9795277	2.4606	1.51404	3.27228	7.93516
12:01:43				572	10.02876	0.9661894	2.559	1.51404	3.02808	7.81984
12:01:43				573	10.02008	0.9616898	2.4606	1.51404	2.88156	7.7825
12:01:44				574	10.04612	0.9771173	2.4606	1.51404	2.88156	7.91139
12:01:44				575	10.07222	0.9835448	2.4606	1.51404	2.9304	7.96175
12:01:45				576	10.08668	0.9788852	2.4606	1.51404	2.83272	7.91797
12:01:45				577	10.09053	0.9965626	2.4606	1.4652	3.02808	8.0713
12:01:46				578	10.10306	0.9997775	2.4606	1.4652	2.83272	8.09657
12:01:46				579	10.11179	1.0052405	2.4606	1.4652	2.88156	8.14231
12:01:47				580	10.11757	1.0097411	2.4606	1.51404	2.78388	8.1803
12:01:47				581	10.12046	1.0100627	2.4606	1.4652	2.83272	8.18246
12:01:48				582	10.12143	1.0078123	2.4606	1.4652	3.07692	8.1626
12:01:48				583	10.12528	1.0092598	2.4606	1.51404	2.88156	8.17437
12:01:49				584	10.13106	1.0116691	2.4606	1.51404	2.88156	8.1941
12:01:49				585	10.13588	1.0042775	2.4606	1.4652	2.83272	8.12851
12:01:50				586	10.13588	0.9997774	2.4606	1.51404	2.83272	8.08926
12:01:50				587	10.13395	1.010544	2.4606	1.51404	2.83272	8.18363
12:01:51				588	10.13588	1.015527	2.4606	1.51404	2.83272	8.2267

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:01:51				589	10.13684	1.0221166	2.4606	1.51404	2.88156	8.28405
12:01:52				590	10.1378	1.0272599	2.4606	1.51404	2.83272	8.32878
12:01:52				591	10.13973	1.0309572	2.4606	1.51404	2.78388	8.36066
12:01:53				592	10.14262	1.0351366	2.4606	1.51404	2.88156	8.39654
12:01:53				593	10.1484	1.0338495	2.559	1.4652	2.73504	8.38394
12:01:54				594	10.14936	1.0280637	2.559	1.51404	2.78388	8.33314
12:01:54				595	10.15417	1.0274206	2.4606	1.51404	2.63736	8.32643
12:01:55				596	10.15321	1.0293502	2.559	1.4652	2.6862	8.3435
12:01:55				597	10.15225	1.0314401	2.4606	1.51404	2.83272	8.362
12:01:56				598	10.15417	1.0274206	2.4606	1.4652	2.6862	8.32643
12:01:56				599	10.15225	1.0277421	2.559	1.4652	2.63736	8.32967
12:01:57				600	10.15514	1.0348142	2.559	1.51404	2.78388	8.39082
12:01:57				601	10.15706	1.0346531	2.559	1.51404	2.6862	8.38897
12:01:58				602	10.15321	1.0227605	2.559	1.51404	2.63736	8.28593
12:01:58				603	10.13299	1.0348143	2.4606	1.51404	2.58852	8.39595
12:01:59				604	10.13395	1.0446204	2.559	1.51404	2.6862	8.48154
12:02:00				607	10.1431	1.0298517	2.559	1.4652	2.63736	8.35021
12:02:01				608	10.14117	1.0460867	2.4606	1.4652	2.63736	8.49271
12:02:01				609	10.14695	1.0409431	2.559	1.51404	2.6862	8.44633
12:02:02				610	10.15658	1.0343538	2.559	1.4652	2.53968	8.38646
12:02:02				611	10.15273	1.0396575	2.559	1.51404	2.53968	8.43374
12:02:03				612	10.1508	1.0436754	2.559	1.51404	2.58852	8.46934
12:02:03				613	10.15465	1.034674	2.559	1.4652	2.53968	8.38971
12:02:04				614	10.15465	1.0404606	2.559	1.51404	2.49084	8.44032
12:02:04	12:0049 start transect	15.0	270	615	10.15465	1.0433541	2.559	1.51404	2.63736	8.46563
12:02:05				616	10.15754	1.0419081	2.559	1.51404	2.58852	8.45231
12:02:05				617	10.15851	1.0411045	2.559	1.51404	2.9304	8.44506
12:02:06				618	10.15562	1.0423907	2.559	1.51404	2.58852	8.45698
12:02:06				619	10.15754	1.0449626	2.559	1.4652	2.49084	8.47904
12:02:07				620	10.16139	1.0465699	2.559	1.4652	2.58852	8.4922
12:02:07				621	10.16236	1.0464081	2.559	1.4652	2.63736	8.49056
12:02:08				622	10.16139	1.0472131	2.559	1.4652	2.49084	8.49783
12:02:08				623	10.16525	1.0486597	2.559	1.51404	2.6862	8.50959
12:02:09				624	10.16428	1.0489815	2.559	1.51404	2.53968	8.51263
12:02:09				625	10.16717	1.0488196	2.559	1.51404	2.58852	8.51054
12:02:10				626	10.17487	1.0483379	2.559	1.51404	2.6862	8.50452
12:02:10				627	10.17872	1.0473728	2.559	1.51404	2.73504	8.49518
12:02:11				628	10.17583	1.0488195	2.559	1.51404	2.53968	8.50851
12:02:11				629	10.1768	1.0480162	2.559	1.4652	2.63736	8.50126
12:02:12				630	10.17776	1.045284	2.559	1.51404	2.63736	8.47714
12:02:12				631	10.17487	1.0443178	2.559	1.51404	2.58852	8.46936
12:02:13				632	10.17295	1.0446412	2.559	1.4652	2.73504	8.47263
12:02:13				633	10.1691	1.0369248	2.559	1.51404	2.63736	8.40605
12:02:14				634	10.16236	1.0349963	2.559	1.51404	2.6862	8.39075
12:02:14				635	10.15851	1.0377293	2.559	1.4652	2.6862	8.41553

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:02:15				636	10.16813	1.0456054	2.559	1.51404	2.78388	8.48219
12:02:15				637	10.17872	1.0478543	2.559	1.51404	2.88156	8.49939
12:02:16				638	10.18257	1.0507489	2.559	1.51404	2.73504	8.52382
12:02:16				639	10.17872	1.0546072	2.559	1.51404	2.6862	8.55849
12:02:17				640	10.17583	1.0571795	2.559	1.51404	2.63736	8.58169
12:02:17				641	10.17006	1.0493012	2.559	1.51404	2.58852	8.51408
12:02:18				642	10.16621	1.0512309	2.559	1.4652	2.58852	8.53187
12:02:18				643	10.16428	1.0603939	2.559	1.4652	2.49084	8.61257
12:02:19				644	10.16813	1.0616802	2.559	1.51404	2.39316	8.62293
12:02:19				645	10.17295	1.0603939	2.559	1.51404	2.49084	8.61052
12:02:20				646	10.17487	1.0611985	2.559	1.4652	2.442	8.61711
12:02:20				647	10.17776	1.0615196	2.559	1.51404	2.63736	8.61924
12:02:21				648	10.17968	1.0602334	2.559	1.51404	2.442	8.60752
12:02:21				649	10.18546	1.0605543	2.559	1.51404	2.58852	8.60896
12:02:22				650	10.19027	1.0602333	2.559	1.51404	2.6862	8.60501
12:02:22				651	10.19707	1.0591081	2.559	1.4652	2.63736	8.59356
12:02:23				652	10.20092	1.0576604	2.559	1.4652	2.83272	8.57998
12:02:23				653	10.20092	1.0214934	2.559	1.51404	2.63736	8.26402
12:02:24				654	10.18257	1.0324248	2.559	1.4652	2.78388	8.36363
12:02:24				655	10.17583	1.0361205	2.559	1.51404	2.78388	8.39747
12:02:25				656	10.1768	1.0346739	2.4606	1.51404	2.73504	8.38462
12:02:25				657	10.17295	1.0153855	2.559	1.51404	2.9304	8.21708
12:02:26				658	10.16717	1.0173154	2.559	1.51404	2.83272	8.23522
12:02:26				659	10.16236	1.0063861	2.559	1.51404	2.83272	8.14097
12:02:27				660	10.15658	0.9970643	2.559	1.4652	2.58852	8.06101
12:02:27				661	10.14888	0.9954579	2.4606	1.4652	2.73504	8.04873
12:02:28				662	10.14406	0.9914399	2.559	1.4652	2.9304	8.01477
12:02:28				663	10.1431	0.9829219	2.559	1.4652	2.88156	7.94081
12:02:29				664	10.13732	0.9941723	2.559	1.51404	2.78388	8.04007
12:02:29				665	10.13052	0.9875821	2.559	1.51404	3.07692	7.98415
12:02:30				666	10.13347	0.9822788	2.559	1.51404	2.9304	7.93731
12:02:30				667	10.1325	1.0194048	2.4606	1.4652	2.97924	8.26134
12:02:31				668	10.14984	1.0284061	2.559	1.51404	3.02808	8.33602
12:02:31				669	10.16043	1.034674	2.559	1.51404	2.83272	8.38838
12:02:32				670	10.16717	1.0486597	2.559	1.4652	2.88156	8.50914
12:02:32				671	10.17872	1.0480162	2.4606	1.51404	2.9304	8.50082
12:02:33				672	10.18161	1.0505889	2.4606	1.51404	2.88156	8.52266
12:02:33				673	10.18546	1.0584644	2.559	1.51404	2.9304	8.59066
12:02:34				674	10.19226	1.0552501	2.559	1.51404	2.78388	8.56093
12:02:34				675	10.19226	1.0566965	2.559	1.51404	3.02808	8.57359
12:02:35				676	10.19322	1.0618407	2.559	1.4652	3.02808	8.61839
12:02:35				677	10.19707	1.0658597	2.559	1.4652	2.9304	8.65267
12:02:36				678	10.19611	1.0592685	2.559	1.4652	2.78388	8.59519
12:02:36				679	10.19418	1.0587872	2.559	1.51404	2.78388	8.59143
12:02:37				680	10.19418	1.055893	2.559	1.51404	2.97924	8.5661

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:02:37				681	10.19322	1.0509088	2.559	1.51404	2.83272	8.52272
12:02:38				682	10.19027	1.0161901	2.559	1.51404	2.78388	8.22018
12:02:38				683	10.17295	0.9883848	2.559	1.51404	2.73504	7.98182
12:02:39				684	10.14406	0.9940114	2.559	1.4652	2.63736	8.03718
12:02:39				685	10.13636	1.006065	2.559	1.51404	3.02808	8.14399
12:02:40				686	10.14214	1.0332281	2.559	1.41636	2.88156	8.37995
12:02:40				687	10.15851	1.0391753	2.559	1.4652	2.9304	8.42818
12:02:41				688	10.16428	1.0454437	2.4606	1.51404	2.78388	8.48169
12:02:41				689	10.16717	1.050589	2.559	1.51404	2.78388	8.52603
12:02:42				690	10.17198	1.0470512	2.559	1.51404	2.9304	8.49394
12:02:42				691	10.17006	1.0568568	2.559	1.51404	2.78388	8.58022
12:02:43				692	10.17583	1.0647345	2.559	1.51404	2.83272	8.64786
12:02:43				693	10.17968	1.0595894	2.559	1.4652	2.83272	8.60188
12:02:44				694	10.17968	1.065699	2.559	1.4652	2.6862	8.6554
12:02:44				695	10.17968	1.070039	2.4606	1.51404	2.6862	8.69344
12:02:45				696	10.17872	1.0648952	2.4606	1.51404	2.78388	8.64859
12:02:45				697	10.18257	1.0692362	2.559	1.51404	2.63736	8.6857
12:02:46				698	10.18353	1.0718086	2.559	1.51404	2.442	8.70802
12:02:46				699	10.18257	1.0727734	2.559	1.4652	2.442	8.71671
12:02:47				700	10.1845	1.0716475	2.559	1.51404	2.63736	8.70638
12:02:47				701	10.18546	1.0721288	2.4606	1.4652	2.73504	8.71038
12:02:48				702	10.18546	1.0751834	2.559	1.4652	2.78388	8.73714
12:02:48				703	10.1845	1.0748629	2.559	1.51404	2.63736	8.73456
12:02:49				704	10.1845	1.0726122	2.559	1.51404	2.63736	8.71483
12:02:49				705	10.1845	1.0758265	2.559	1.4652	2.53968	8.74301
12:02:50				706	10.18353	1.07422	2.559	1.51404	2.58852	8.72916
12:02:50				707	10.18257	1.070039	2.4606	1.51404	2.53968	8.69275
12:02:51				708	10.18353	1.0745404	2.559	1.4652	2.442	8.73197
12:02:51				709	10.18257	1.0771133	2.559	1.4652	2.63736	8.75476
12:02:52				710	10.18065	1.0714864	2.559	1.4652	2.58852	8.70589
12:02:52				711	10.17968	1.0779162	2.559	1.51404	2.49084	8.7625
12:02:53				712	10.17968	1.0838661	2.559	1.51404	2.49084	8.8147
12:02:53				713	10.17968	1.0894931	2.559	1.51404	2.6862	8.86409
12:02:54				714	10.1845	1.0914216	2.4606	1.51404	2.442	8.87986
12:02:54				715	10.18642	1.0902972	2.559	1.4652	2.6862	8.86951
12:02:55				716	10.18738	1.0964066	2.559	1.51404	2.53968	8.92292
12:02:55				717	10.19226	1.0965669	2.559	1.51404	2.53968	8.92313
12:02:56				718	10.19226	1.0923863	2.4606	1.4652	2.49084	8.88644
12:02:56				719	10.18931	1.087082	2.559	1.51404	2.442	8.84058
12:02:57				720	10.18835	1.0986562	2.559	1.51404	2.58852	8.94245
12:02:57				721	10.19129	1.1021945	2.559	1.51404	2.6862	8.97281
12:02:58				722	10.19418	1.0875636	2.559	1.4652	2.6862	8.84363
12:02:58				723	10.18835	1.0949598	2.559	1.4652	2.58852	8.90998
12:02:59				724	10.18931	1.0899751	2.4606	1.4652	3.02808	8.86599
12:03:00				727	10.18353	1.0798797	2.559	1.51404	2.53968	8.77879

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:01				728	10.18161	1.0822913	2.559	1.4652	2.49084	8.80041
12:03:01				729	10.18257	1.0776273	2.559	1.51404	2.49084	8.75927
12:03:02				730	10.18065	1.0752174	2.559	1.4652	2.442	8.7386
12:03:02				731	10.18257	1.0756992	2.559	1.4652	2.53968	8.74236
12:03:03				732	10.18161	1.0750561	2.559	1.51404	2.442	8.73695
12:03:03				733	10.18353	1.0702318	2.559	1.51404	2.63736	8.6942
12:03:04				734	10.18353	1.0700708	2.4606	1.51404	2.49084	8.6928
12:03:04				735	10.18257	1.0731254	2.559	1.51404	2.63736	8.71979
12:03:05				736	10.18353	1.070715	2.559	1.4652	2.63736	8.69843
12:03:05				737	10.18546	1.0686241	2.559	1.4652	2.73504	8.67965
12:03:06				738	10.18642	1.0705539	2.559	1.4652	2.53968	8.69633
12:03:06				739	10.18546	1.0723217	2.559	1.4652	2.442	8.71206
12:03:07				740	10.18546	1.0686241	2.559	1.51404	2.442	8.67965
12:03:07				741	10.18353	1.068785	2.559	1.51404	2.39316	8.68152
12:03:08				742	10.18257	1.0711982	2.4606	1.51404	2.442	8.70291
12:03:08				743	10.18257	1.0686241	2.559	1.51404	2.6862	8.68034
12:03:09				744	10.18353	1.0678216	2.559	1.4652	2.53968	8.67308
12:03:09				745	10.1845	1.069107	2.559	1.51404	2.63736	8.68411
12:03:10				746	10.1845	1.0679825	2.559	1.51404	2.53968	8.67426
12:03:10				747	10.1845	1.0668564	2.559	1.4652	2.49084	8.66439
12:03:11				748	10.18738	1.0662131	2.559	1.56288	2.49084	8.65807
12:03:11				749	10.19027	1.067339	2.559	1.51404	2.63736	8.66724
12:03:12				750	10.19123	1.0666955	2.4606	1.51404	2.49084	8.66139
12:03:12				751	10.18931	1.0657307	2.559	1.4652	2.58852	8.65338
12:03:13				752	10.1922	1.0665347	2.559	1.4652	2.63736	8.65974
12:03:13				753	10.19316	1.0657307	2.559	1.51404	2.53968	8.65247
12:03:14				754	10.1922	1.0655699	2.559	1.51404	2.78388	8.65129
12:03:14				755	10.19605	1.0662131	2.559	1.51404	2.88156	8.65601
12:03:15				756	10.20182	1.0654091	2.559	1.51404	2.78388	8.64759
12:03:15				757	10.20759	1.0649268	2.559	1.4652	2.73504	8.642
12:03:16				758	10.21439	1.0668563	2.559	1.51404	2.49084	8.65728
12:03:16				759	10.20663	1.0650876	2.4606	1.51404	2.53968	8.64365
12:03:17				760	10.21144	1.0660522	2.559	1.51404	2.58852	8.65094
12:03:17				761	10.20374	1.0684631	2.559	1.51404	2.442	8.67388
12:03:18				762	10.20086	1.0666955	2.559	1.51404	2.53968	8.65909
12:03:18				763	10.20278	1.0676607	2.559	1.51404	2.49084	8.66708
12:03:19				764	10.19989	1.068785	2.559	1.4652	2.63736	8.67762
12:03:19				765	10.19508	1.0681434	2.559	1.4652	2.63736	8.67314
12:03:20				766	10.1922	1.0686241	2.559	1.51404	2.53968	8.67804
12:03:20				767	10.19027	1.0681434	2.559	1.51404	2.442	8.67429
12:03:21				768	10.18931	1.0695899	2.559	1.51404	2.39316	8.68719
12:03:21				769	10.18835	1.0695899	2.559	1.51404	2.39316	8.68742
12:03:22				770	10.18835	1.0674998	2.559	1.4652	2.39316	8.66911
12:03:22				771	10.19027	1.0674998	2.559	1.4652	2.442	8.66865
12:03:23				772	10.19123	1.0666955	2.4606	1.51404	2.442	8.66139

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:23				773	10.19605	1.0671781	2.559	1.4652	2.53968	8.66446
12:03:24				774	10.21048	1.0674998	2.559	1.51404	2.53968	8.66384
12:03:24				775	10.21727	1.0670171	2.559	1.51404	2.49084	8.658
12:03:25				776	10.22208	1.0665346	2.559	1.4652	2.63736	8.65263
12:03:25				777	10.22882	1.0660521	2.559	1.51404	2.63736	8.64681
12:03:26				778	10.23074	1.0580148	2.559	1.4652	2.58852	8.57606
12:03:26				779	10.20952	1.0453154	2.559	1.51404	2.39316	8.47002
12:03:27				780	10.19508	1.0326151	2.4606	1.51404	2.442	8.36242
12:03:27				781	10.18642	1.0167017	2.559	1.4652	2.34432	8.22551
12:03:28				782	10.16813	1.004004	2.559	1.51404	2.6862	8.11891
12:03:28				783	10.15754	0.994523	2.559	1.41636	2.49084	8.03866
12:03:29				784	10.16621	0.9827903	2.559	1.4652	2.63736	7.93462
12:03:29				785	10.18161	0.9874502	2.559	1.51404	2.78388	7.97179
12:03:30				786	10.16717	0.9667201	2.559	1.51404	2.63736	7.79473
12:03:30				787	10.13437	0.962703	2.559	1.4652	3.07692	7.76685
12:03:31				788	10.12088	0.9625419	2.559	1.4652	3.22344	7.76833
12:03:31				789	10.10932	0.950811	2.559	1.4652	2.88156	7.66884
12:03:32				790	10.09963	0.9320109	2.559	1.51404	2.97924	7.5077
12:03:32				791	10.08999	0.9406883	2.559	1.51404	3.12576	7.58499
12:03:33				792	10.08517	0.9324929	2.559	1.51404	3.07692	7.51487
12:03:33				793	10.08132	0.9332978	2.559	1.4652	3.12576	7.52265
12:03:34				794	10.08132	0.9402069	2.559	1.4652	3.07692	7.58262
12:03:34				795	10.08613	0.9753973	2.559	1.51404	3.27228	7.88768
12:03:35				796	10.09866	0.9831111	2.559	1.4652	3.1746	7.95217
12:03:35				797	10.11029	0.9810219	2.559	1.51404	3.07692	7.93143
12:03:36				798	10.11799	1.0163817	2.559	1.51404	3.12576	8.2382
12:03:36				799	10.14015	1.0149346	2.4606	1.4652	2.88156	8.22056
12:03:37				800	10.15658	1.0080236	2.559	1.4652	2.73504	8.15654
12:03:37				801	10.14978	1.0195963	2.559	1.4652	2.73504	8.25907
12:03:38				802	10.15171	1.0149345	2.559	1.51404	2.97924	8.21794
12:03:38				803	10.15459	1.0065768	2.559	1.51404	2.73504	8.14437
12:03:39				804	10.15171	1.0138103	2.559	1.51404	2.6862	8.20813
12:03:39				805	10.15363	1.022971	2.559	1.51404	2.88156	8.28767
12:03:40				806	10.15754	1.0292395	2.559	1.4652	2.73504	8.34154
12:03:40				807	10.16043	1.0292395	2.559	1.4652	2.88156	8.34088
12:03:41				808	10.15947	1.038884	2.559	1.51404	2.83272	8.42541
12:03:41				809	10.16525	1.044511	2.559	1.4652	2.88156	8.47329
12:03:42				810	10.17487	1.0470827	2.559	1.51404	2.78388	8.49354
12:03:42				811	10.18642	1.0464396	2.559	1.4652	2.73504	8.48522
12:03:43				812	10.18835	1.0485293	2.559	1.4652	2.83272	8.50305
12:03:43				813	10.18642	1.0491729	2.559	1.51404	2.88156	8.50913
12:03:44				814	10.19027	1.0554419	2.559	1.51404	3.07692	8.56308
12:03:44				815	10.19989	1.0552816	2.4606	1.51404	2.97924	8.55942
12:03:45				816	10.20086	1.0507804	2.559	1.4652	2.73504	8.51981
12:03:45				817	10.19893	1.0520666	2.4606	1.4652	2.73504	8.53152

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:03:46				818	10.19508	1.0520667	2.559	1.51404	2.63736	8.53241
12:03:46				819	10.19605	1.0573714	2.4606	1.4652	2.97924	8.57861
12:03:47				820	10.20278	1.0554418	2.559	1.51404	2.6862	8.56013
12:03:47				821	10.20182	1.054799	2.559	1.51404	2.63736	8.55473
12:03:48				822	10.20374	1.0568884	2.559	1.4652	2.442	8.57256
12:03:48				823	10.20663	1.0546388	2.559	1.4652	2.63736	8.5522
12:03:49				824	10.19316	1.0483694	2.559	1.4652	2.6862	8.50053
12:03:49				825	10.18065	1.0493328	2.559	1.51404	2.78388	8.51188
12:03:50				826	10.1768	1.0504585	2.559	1.51404	2.58852	8.52263
12:03:50				827	10.17968	1.0461181	2.559	1.51404	2.6862	8.48398
12:03:51				828	10.17872	1.0491729	2.559	1.51404	2.58852	8.51093
12:03:51				829	10.18065	1.0472446	2.559	1.4652	2.6862	8.49361
12:03:52				830	10.17583	1.0478858	2.559	1.51404	2.6862	8.50034
12:03:52				831	10.17583	1.046923	2.559	1.51404	2.53968	8.49192
12:03:53				832	10.17487	1.0424221	2.559	1.51404	2.78388	8.45278
12:03:53				833	10.17006	1.0409744	2.559	1.51404	2.73504	8.44124
12:03:54				834	10.16525	1.0416185	2.559	1.4652	2.6862	8.44799
12:03:54				835	10.16236	1.0311683	2.559	1.4652	2.78388	8.35729
12:03:55				836	10.15754	1.0295612	2.559	1.51404	2.73504	8.34435
12:03:55				837	10.15754	1.0416185	2.559	1.51404	2.78388	8.44978
12:03:56				838	10.15658	1.0461181	2.559	1.51404	2.78388	8.48937
12:03:56				839	10.16043	1.0388839	2.559	1.4652	2.63736	8.42519
12:03:57				840	10.16139	1.0512625	2.4606	1.51404	2.63736	8.53329
12:03:57				841	10.17006	1.0544787	2.559	1.51404	2.63736	8.5594
12:03:58				842	10.17776	1.0544787	2.559	1.4652	2.58852	8.55759
12:03:58				843	10.1768	1.054799	2.559	1.51404	2.58852	8.56062
12:03:59				844	10.17583	1.0583357	2.559	1.4652	2.53968	8.59181
12:04:00				847	10.17662	1.0549403	2.559	1.51404	2.63736	8.5619
12:04:01				848	10.17565	1.0552628	2.559	1.51404	2.58852	8.56495
12:04:01				849	10.17469	1.055423	2.559	1.4652	2.49084	8.56658
12:04:02				850	10.17469	1.0565489	2.559	1.51404	2.63736	8.57643
12:04:02				851	10.17565	1.056066	2.4606	1.51404	2.6862	8.57199
12:04:03				852	10.17565	1.0562263	2.559	1.4652	2.73504	8.57338
12:04:03				853	10.17662	1.060246	2.559	1.51404	2.58852	8.60836
12:04:04				854	10.17854	1.0607275	2.559	1.51404	2.58852	8.61212
12:04:04				855	10.18335	1.0616928	2.559	1.51404	2.58852	8.61943
12:04:05				856	10.19105	1.0600855	2.559	1.51404	2.63736	8.60354
12:04:05				857	10.19105	1.0618533	2.559	1.51404	2.53968	8.61901
12:04:06				858	10.19586	1.0607275	2.559	1.51404	2.49084	8.60802
12:04:06				859	10.19971	1.0615322	2.4606	1.51404	2.49084	8.61416
12:04:07				860	10.19971	1.0605669	2.559	1.51404	2.53968	8.6057
12:04:07				861	10.2017	1.0620139	2.559	1.51404	2.58852	8.6179
12:04:08				862	10.2017	1.0633009	2.559	1.4652	2.49084	8.62917
12:04:08				863	10.20555	1.0628169	2.559	1.51404	2.58852	8.62402
12:04:09				864	10.20266	1.066194	2.559	1.51404	2.6862	8.65427

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:04:09				865	10.19875	1.0678004	2.559	1.51404	2.53968	8.66927
12:04:10				866	10.19683	1.0678004	2.559	1.4652	2.442	8.66972
12:04:10				867	10.19683	1.0666765	2.559	1.4652	2.39316	8.65988
12:04:11				868	10.19875	1.0660332	2.559	1.51404	2.34432	8.65379
12:04:11				869	10.20068	1.0623351	2.559	1.51404	2.442	8.62095
12:04:12				870	10.19971	1.0615322	2.559	1.51404	2.53968	8.61415
12:04:12				871	10.19875	1.060246	2.4606	1.51404	2.39316	8.60313
12:04:13				872	10.19875	1.0592811	2.559	1.4652	2.39316	8.59468
12:04:13				873	10.19683	1.0560659	2.559	1.4652	2.442	8.56699
12:04:14				874	10.19394	1.0497956	2.4606	1.51404	2.39316	8.51283
12:04:14				875	10.19009	1.0472235	2.559	1.51404	2.39316	8.49122
12:04:15				876	10.18624	1.0457776	2.559	1.51404	2.53968	8.47948
12:04:15				877	10.18335	1.0459373	2.4606	1.4652	2.63736	8.48156
12:04:16				878	10.18239	1.0472235	2.4606	1.51404	2.6862	8.49303
12:04:16				879	10.18239	1.0472236	2.559	1.51404	2.6862	8.49302
12:04:17				880	10.18239	1.0393471	2.559	1.51404	2.58852	8.42415
12:04:17				881	10.17758	1.0433666	2.559	1.51404	2.49084	8.46041
12:04:18				882	10.18047	1.0472236	2.559	1.4652	2.6862	8.49347
12:04:18				883	10.18239	1.0449731	2.559	1.51404	2.63736	8.47334
12:04:19				884	10.1795	1.0358106	2.559	1.51404	2.53968	8.39391
12:04:19				885	10.17854	1.0385443	2.559	1.51404	2.53968	8.41803
12:04:20				886	10.17565	1.0393472	2.4606	1.4652	2.53968	8.42572
12:04:20				887	10.17758	1.037901	2.4606	1.4652	2.58852	8.41264
12:04:21				888	10.17662	1.0313104	2.4606	1.4652	2.58852	8.35527
12:04:21				889	10.17565	1.034044	2.559	1.51404	2.58852	8.37936
12:04:22				890	10.17662	1.034044	2.559	1.51404	2.53968	8.37914
12:04:22				891	10.17565	1.0306666	2.559	1.51404	2.53968	8.34986
12:04:23				892	10.17469	1.0258447	2.4606	1.4652	2.53968	8.30798
12:04:23				893	10.17469	1.0200585	2.559	1.4652	2.442	8.25745
12:04:24				894	10.1718	1.0126656	2.559	1.51404	2.58852	8.19361
12:04:24				895	10.16795	1.0063964	2.559	1.51404	2.63736	8.13981
12:04:25				896	10.16218	1.0020585	2.559	1.51404	2.73504	8.10328
12:04:25				897	10.1564	0.9985227	2.4606	1.4652	2.78388	8.07377
12:04:26				898	10.15255	0.9961103	2.559	1.51404	2.78388	8.05359
12:04:26				899	10.14484	0.9986819	2.559	1.51404	2.73504	8.07771
12:04:27				900	10.13997	0.9983616	2.559	1.51404	2.78388	8.076
12:04:27				901	10.14189	0.9967545	2.559	1.4652	2.58852	8.06156
12:04:28				902	10.13901	0.9880761	2.559	1.4652	2.73504	7.98658
12:04:28				903	10.13419	0.9851832	2.559	1.51404	2.73504	7.96245
12:04:29				904	10.1313	0.9816462	2.559	1.51404	2.83272	7.93228
12:04:29	12:03:14 end transect	15.0	90	905	10.12841	0.9766659	2.559	1.51404	2.78388	7.88956
12:04:30				906	10.12648	0.9795582	2.559	1.51404	2.73504	7.91515
12:04:30				907	10.12552	0.979236	2.559	1.4652	2.83272	7.91256
12:04:31				908	10.12745	0.9777897	2.559	1.51404	2.83272	7.89955
12:04:31				909	10.12648	0.9908073	2.559	1.51404	2.83272	8.01313

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:04:32				910	10.12937	1.030347	2.7558	1.51404	2.97924	8.35767
12:04:32				911	10.15447	1.0457778	3.0509	1.51404	2.78388	8.48682
12:04:33				912	10.16892	1.0173258	3.1493	1.4652	2.73504	8.23484
12:04:33				913	10.17662	1.0192549	3.2477	1.51404	2.58852	8.24992
12:04:34				914	10.17277	1.0671592	3.2477	1.51404	2.49084	8.66975
12:04:34				915	10.19683	1.0509215	3.4445	1.51404	2.49084	8.52188
12:04:35				916	10.20651	1.0425627	3.5428	1.51404	2.53968	8.44654
12:04:35				917	10.19875	1.0522078	3.5428	1.4652	2.53968	8.53266
12:04:36				918	10.18432	1.0449731	3.5428	1.4652	2.442	8.47276
12:04:36				919	10.18335	1.0305078	3.4445	1.51404	2.58852	8.34659
12:04:37				920	10.18239	1.0364536	3.5428	1.51404	2.9304	8.39874
12:04:37				921	10.18239	1.0390265	3.5428	1.51404	2.73504	8.42122
12:04:38				922	10.1872	1.0430455	3.4445	1.4652	2.6862	8.45525
12:04:38				923	10.19298	1.0456159	3.5428	1.51404	2.73504	8.47637
12:04:39				924	10.19683	1.0438496	3.4445	1.51404	2.6862	8.46004
12:04:39				925	10.19971	1.0523679	3.5428	1.4652	2.63736	8.53384
12:04:40				926	10.20362	1.0586375	3.4445	1.51404	2.78388	8.58778
12:04:40				927	10.20651	1.0571901	3.5428	1.4652	2.53968	8.57442
12:04:41				928	10.2094	1.0522078	3.4445	1.51404	2.53968	8.53018
12:04:41				929	10.20843	1.0573525	3.4445	1.51404	2.442	8.5754
12:04:42				930	10.20747	1.0559057	3.5428	1.51404	2.39316	8.56296
12:04:42				931	10.21036	1.056066	3.5428	1.4652	2.29548	8.56368
12:04:43				932	10.21036	1.05253	3.5428	1.41636	2.6862	8.53276
12:04:43				933	10.20651	1.0563865	3.5428	1.51404	2.63736	8.56739
12:04:44				934	10.20555	1.0587979	3.5428	1.51404	2.58852	8.58872
12:04:44				935	10.21132	1.0587978	3.5428	1.51404	2.442	8.58735
12:04:45				936	10.21421	1.0555832	3.5428	1.51404	2.58852	8.55856
12:04:45				937	10.21421	1.0597625	3.5428	1.4652	2.442	8.59511
12:04:46				938	10.21421	1.0613717	3.5428	1.4652	2.442	8.60919
12:04:46				939	10.21324	1.058477	3.5428	1.51404	2.63736	8.58409
12:04:47				940	10.21324	1.060246	3.5428	1.51404	2.49084	8.59957
12:04:47				941	10.21324	1.0621745	3.5428	1.51404	2.53968	8.61644
12:04:48				942	10.21517	1.061209	3.5428	1.41636	2.442	8.60754
12:04:48				943	10.21421	1.0607275	3.5428	1.51404	2.53968	8.60356
12:04:49				944	10.21421	1.0589603	3.5428	1.51404	2.49084	8.5881
12:04:49				945	10.21517	1.0578335	3.5428	1.4652	2.49084	8.57801
12:04:50				946	10.21709	1.0563865	3.5428	1.4652	2.49084	8.5649
12:04:50				947	10.21613	1.0551004	3.5428	1.4652	2.63736	8.55388
12:04:51				948	10.21421	1.0538149	3.5428	1.51404	2.49084	8.54309
12:04:51	12:03:36 start transect	15.0	90	949	10.21132	1.0505994	3.5428	1.51404	2.39316	8.51566
12:04:52	small hit @ 4:30			950	10.20651	1.0522078	3.5428	1.51404	2.49084	8.53084
12:04:52				951	10.19394	1.0507615	3.4445	1.51404	2.39316	8.52115
12:04:53				952	10.18432	1.046902	3.4445	1.4652	2.49084	8.48965
12:04:53				953	10.17758	1.0433667	3.4445	1.51404	2.63736	8.4603
12:04:54				954	10.17084	1.0441709	3.4445	1.51404	2.6862	8.4689

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:04:54				955	10.17084	1.0477072	3.4445	1.4652	2.63736	8.49983
12:04:55				956	10.16988	1.0544577	3.4445	1.4652	2.6862	8.55914
12:04:55				957	10.17469	1.0531725	3.4445	1.51404	2.63736	8.54676
12:04:56				958	10.17854	1.0581564	3.4445	1.51404	2.53968	8.58949
12:04:56				959	10.17854	1.0657118	3.4445	1.4652	2.49084	8.65566
12:04:57				960	10.18432	1.0750349	3.4445	1.51404	2.58852	8.736
12:04:57				961	10.19586	1.0803411	3.4445	1.51404	2.6862	8.77975
12:04:58				962	10.2094	1.0930418	3.4445	1.4652	2.58852	8.88788
12:04:58				963	10.2662	1.1192502	3.4445	1.51404	2.6862	9.10392
12:04:59				964	10.32391	1.1284157	3.4445	1.51404	2.49084	9.16991
12:05:00				967	10.43074	1.1396722	3.4445	1.51404	2.29548	9.24164
12:05:01				968	10.42403	1.1403141	3.4445	1.51404	2.1978	9.24896
12:05:01				969	10.41731	1.1504461	3.5428	1.4652	2.1978	9.33945
12:05:02				970	10.43362	1.1589701	3.4445	1.51404	2.14896	9.41003
12:05:02				971	10.46531	1.1607378	3.5428	1.51404	2.53968	9.41735
12:05:03				972	10.46244	1.1623473	3.5428	1.51404	2.34432	9.4322
12:05:03				973	10.45663	1.1652406	3.5428	1.51404	2.53968	9.45907
12:05:04				974	10.46052	1.1676531	3.5428	1.4652	2.58852	9.47921
12:05:04				975	10.46148	1.1633107	3.5428	4.10256	1.9536	9.44089
12:05:05				976	10.47106	1.1617029	3.5428	3.46764	2.00244	9.42432
12:05:05				977	10.47298	1.1674933	3.5428	3.51648	1.85592	9.47458
12:05:06				978	10.46819	1.1695835	3.5428	2.6862	2.442	9.49415
12:05:06				979	10.47202	1.1691018	3.5428	1.7094	1.9536	9.48893
12:05:07				980	10.4701	1.1686181	3.5428	1.51404	2.10012	9.48519
12:05:07				981	10.4317	1.1705493	3.5428	1.51404	2.6862	9.51212
12:05:08				982	10.41347	1.1727993	3.5428	1.51404	2.73504	9.53663
12:05:08				983	10.40388	1.173926	3.5428	1.51404	1.9536	9.54903
12:05:09				984	10.39135	1.173766	3.5428	1.4652	1.9536	9.5509
12:05:09				985	10.38943	1.173766	3.5428	1.51404	1.9536	9.55141
12:05:10				986	10.40388	1.1760161	3.5428	1.51404	1.85592	9.5674
12:05:10				987	10.40772	1.1771439	3.5428	1.51404	2.00244	9.57631
12:05:11				988	10.42498	1.1763385	3.5428	1.4652	2.34432	9.56471
12:05:11				989	10.44608	1.177304	3.5428	1.4652	2.1978	9.56767
12:05:12				990	10.45375	1.176661	3.5428	1.51404	1.85592	9.56001
12:05:12				991	10.45375	1.1764986	3.5428	1.51404	2.05128	9.55859
12:05:13				992	10.45375	1.1773039	3.5428	1.4652	2.05128	9.56566
12:05:13				993	10.46435	1.1766609	3.5428	1.51404	1.9536	9.55724
12:05:14				994	10.47202	1.1753731	3.5428	1.51404	2.10012	9.54394
12:05:14				995	10.46531	1.1753731	3.4445	1.51404	1.80708	9.5457
12:05:15				996	10.44512	1.1753732	3.5428	1.4652	1.85592	9.55097
12:05:15				997	10.41923	1.1750531	3.5428	1.51404	1.9536	9.55492
12:05:16				998	10.41252	1.1747307	3.5428	1.51404	1.9536	9.55385
12:05:16				999	10.4106	1.1740861	3.5428	1.4652	2.00244	9.54868
12:05:17				1000	10.39813	1.1742484	3.5428	1.51404	1.90476	9.55337
12:05:17				1001	10.38751	1.1740861	3.5428	1.4652	1.9536	9.55472

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:18				1002	10.38943	1.1736038	3.5428	1.4652	2.6862	9.54998
12:05:18				1003	10.38847	1.1736038	3.4445	1.51404	2.05128	9.55024
12:05:19				1004	10.37983	1.1734438	3.5428	1.51404	1.90476	9.55108
12:05:19				1005	10.376	1.1726395	3.4445	1.51404	1.80708	9.54503
12:05:20				1006	10.37887	1.1702275	3.4445	1.4652	1.90476	9.52307
12:05:20				1007	10.376	1.1686185	3.5428	1.51404	1.90476	9.50966
12:05:21				1008	10.36832	1.1697459	3.4445	1.56288	1.85592	9.52159
12:05:21				1009	10.39135	1.1708714	3.5428	1.51404	1.80708	9.52546
12:05:22				1010	10.41156	1.1711911	3.5428	1.51404	1.80708	9.523
12:05:22				1011	10.41635	1.1700653	3.4445	1.4652	1.9536	9.51188
12:05:23				1012	10.41635	1.1678152	3.5428	1.51404	1.9536	9.4921
12:05:23				1013	10.40868	1.1671719	3.5428	1.51404	2.10012	9.48845
12:05:24				1014	10.38943	1.1660456	3.4445	1.51404	2.24664	9.48356
12:05:24				1015	10.37791	1.1621859	3.5428	1.51404	2.14896	9.45263
12:05:25				1016	10.35872	1.1628282	3.5428	1.4652	1.90476	9.46325
12:05:25				1017	10.35392	1.1615418	3.5428	1.51404	2.24664	9.45318
12:05:26				1018	10.34912	1.163794	3.5428	1.51404	2.1978	9.47423
12:05:26				1019	10.35584	1.166529	3.5428	1.51404	2.14896	9.49653
12:05:27				1020	10.36448	1.164277	3.5428	1.4652	2.1978	9.47449
12:05:27				1021	10.36064	1.1610592	3.5428	1.4652	1.9536	9.4472
12:05:28				1022	10.3568	1.161865	3.5428	1.51404	2.14896	9.45527
12:05:28				1023	10.35776	1.1649196	3.4445	1.51404	1.9536	9.4819
12:05:29				1024	10.3664	1.1625071	3.5428	1.51404	1.90476	9.45843
12:05:29				1025	10.36064	1.1607382	3.5428	1.51404	2.05128	9.44438
12:05:30				1026	10.35584	1.1615418	3.5428	1.4652	2.73504	9.45268
12:05:30				1027	10.35968	1.1604173	3.5428	1.51404	2.14896	9.4418
12:05:31				1028	10.3568	1.1583268	3.5428	1.4652	2.14896	9.42418
12:05:31				1029	10.35008	1.1602558	3.5428	1.4652	1.9536	9.44287
12:05:32				1030	10.352	1.1592912	3.5428	1.51404	2.05128	9.43389
12:05:32				1031	10.34912	1.1589704	3.5428	1.51404	2.29548	9.43182
12:05:33				1032	10.34528	1.1584861	3.5428	1.51404	2.00244	9.42855
12:05:33				1033	10.34432	1.1583268	3.5428	1.4652	1.90476	9.4274
12:05:34				1034	10.3424	1.1586475	3.5428	1.51404	1.9536	9.43072
12:05:34				1035	10.3424	1.1573606	3.5428	1.51404	1.9536	9.4194
12:05:35				1036	10.34336	1.1581654	3.5428	1.51404	2.10012	9.42623
12:05:35				1037	10.3424	1.158004	3.5428	1.51404	1.80708	9.42506
12:05:36				1038	10.33952	1.1562355	3.5428	1.4652	1.90476	9.41025
12:05:36				1039	10.33759	1.1544658	3.5428	1.51404	2.05128	9.39519
12:05:37				1040	10.33369	1.1546271	3.4445	1.51404	2.29548	9.39763
12:05:37				1041	10.32697	1.1539844	3.5428	1.51404	2.14896	9.3937
12:05:38				1042	10.32313	1.1526972	3.4445	1.51404	2.14896	9.38338
12:05:38				1043	10.32505	1.1515717	3.7396	1.4652	2.10012	9.37295
12:05:39				1044	10.32889	1.1494805	3.5428	1.51404	2.24664	9.35361
12:05:39				1045	10.32793	1.1483561	3.5428	1.4652	2.10012	9.34397
12:05:40				1046	10.32697	1.1440146	3.5428	1.4652	2.05128	9.30607

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:05:40				1047	10.32121	1.1428878	3.5428	1.51404	2.00244	9.29764
12:05:41				1048	10.31737	1.1412798	3.5428	1.51404	2.00244	9.28449
12:05:41				1049	10.31737	1.1399936	3.4445	1.51404	2.00244	9.27321
12:05:42				1050	10.31833	1.13951	3.5428	1.4652	1.9536	9.2687
12:05:42				1051	10.31641	1.13951	3.5428	1.51404	2.05128	9.26919
12:05:43				1052	10.31544	1.1388683	3.5428	1.51404	1.9536	9.2638
12:05:43				1053	10.31833	1.1377412	3.5428	1.51404	2.10012	9.25317
12:05:44				1054	10.30584	1.1353304	3.5428	1.4652	2.14896	9.23516
12:05:44				1055	10.28854	1.1325969	3.5428	1.4652	2.14896	9.21552
12:05:45				1056	10.27022	1.1327571	3.5428	1.51404	2.24664	9.22156
12:05:45				1057	10.26349	1.1317923	3.5428	1.51404	2.39316	9.21478
12:05:46				1058	10.25676	1.1301837	3.5428	1.51404	2.49084	9.20234
12:05:46				1059	10.25003	1.1277722	3.5428	1.51404	2.1978	9.18284
12:05:47				1060	10.24234	1.1274504	3.5428	1.4652	2.14896	9.18195
12:05:47				1061	10.23561	1.1288978	3.5428	1.51404	2.24664	9.19638
12:05:48				1062	10.23753	1.1305058	3.4445	1.51404	2.14896	9.21005
12:05:48				1063	10.24234	1.1314702	3.5428	1.4652	2.14896	9.2173
12:05:49				1064	10.25003	1.1319524	3.5428	1.51404	2.29548	9.2196
12:05:49				1065	10.25965	1.1329172	3.4445	1.51404	2.39316	9.22566
12:05:50				1066	10.26926	1.1321146	3.5428	1.51404	2.442	9.21616
12:05:50				1067	10.27214	1.1324347	3.5428	1.4652	2.29548	9.21824
12:05:51				1068	10.27311	1.1345251	3.5428	1.4652	2.10012	9.23638
12:05:51				1069	10.28182	1.1358134	3.5428	1.51404	2.14896	9.24549
12:05:52				1070	10.28662	1.1348476	3.5428	1.4652	2.00244	9.23579
12:05:52				1071	10.28566	1.1361339	3.5428	1.51404	2.05128	9.24733
12:05:53				1072	10.2895	1.1372603	3.4445	1.4652	2.24664	9.25627
12:05:53				1073	10.29815	1.1377413	3.5428	1.51404	2.1978	9.25829
12:05:54				1074	10.302	1.1367771	3.5428	1.51404	2.39316	9.24884
12:05:54				1075	10.29815	1.137581	3.4445	1.51404	2.1978	9.25689
12:05:55				1076	10.30103	1.137581	3.5428	1.51404	2.1978	9.25615
12:05:55				1077	10.30392	1.1369374	3.5428	1.4652	2.14896	9.24976
12:05:56				1078	10.30296	1.1359735	3.5428	1.51404	2.39316	9.24154
12:05:56				1079	10.29815	1.1369375	3.5428	1.51404	2.24664	9.25123
12:05:57				1080	10.29815	1.1382246	3.5428	1.51404	2.10012	9.26254
12:05:57				1081	10.30296	1.1385454	3.5428	1.4652	2.00244	9.26413
12:05:58				1082	10.30392	1.1382246	3.5428	1.4652	2.05128	9.26107
12:05:58				1083	10.30392	1.1372603	3.5428	1.51404	2.14896	9.2526
12:05:59				1084	10.30296	1.1369375	3.5428	1.4652	2.14896	9.25001
12:06:00				1087	10.28662	1.1281091	3.5428	1.51404	2.29548	9.17658
12:06:01				1088	10.26355	1.1237681	3.5428	1.51404	2.29548	9.14425
12:06:01				1089	10.24625	1.1279472	3.5428	1.4652	2.1978	9.18533
12:06:02				1090	10.25009	1.1234446	3.5428	1.51404	2.29548	9.14478
12:06:02				1091	10.24528	1.1247326	3.5428	1.51404	2.34432	9.15731
12:06:03				1092	10.23368	1.1277874	3.5428	1.51404	2.442	9.1871
12:06:03				1093	10.24336	1.125857	3.5428	1.51404	2.34432	9.16768

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:04				1094	10.25105	1.131003	3.4445	1.4652	2.39316	9.211
12:06:04				1095	10.26836	1.1335771	3.5428	1.51404	2.24664	9.22924
12:06:05				1096	10.27317	1.1297167	3.5428	1.51404	2.14896	9.1941
12:06:05				1097	10.27509	1.1322898	3.5428	1.51404	2.1978	9.21622
12:06:06				1098	10.27509	1.1334148	3.5428	1.51404	2.14896	9.22611
12:06:06				1099	10.27701	1.1332547	3.5428	1.4652	2.14896	9.22422
12:06:07				1100	10.28085	1.13438	3.4445	1.51404	2.34432	9.23315
12:06:07				1101	10.2895	1.1363093	3.4445	1.4652	2.14896	9.24791
12:06:08				1102	10.29821	1.1382398	3.5428	1.51404	2.14896	9.26265
12:06:08				1103	10.30494	1.1377565	3.5428	1.51404	2.1978	9.2567
12:06:09				1104	10.30494	1.1387209	3.5428	1.51404	2.1978	9.26517
12:06:09				1105	10.30878	1.1395252	3.5428	1.4652	2.05128	9.27126
12:06:10				1106	10.31454	1.1395252	3.5428	1.4652	2.14896	9.2698
12:06:10				1107	10.31454	1.1398483	3.5428	1.51404	2.24664	9.27264
12:06:11				1108	10.31743	1.1421	3.5428	1.51404	2.1978	9.29169
12:06:11				1109	10.31839	1.1544812	3.5428	1.51404	2.24664	9.40028
12:06:12				1110	10.34912	1.1567326	3.5428	1.51404	2.14896	9.41215
12:06:12				1111	10.3655	1.1554463	3.5428	1.4652	2.05128	9.39662
12:06:13				1112	10.37126	1.1586627	3.5428	1.56288	2.10012	9.42339
12:06:13				1113	10.38181	1.1613975	3.4445	1.51404	1.90476	9.4447
12:06:14				1114	10.39333	1.165418	3.5428	1.4652	2.00244	9.47703
12:06:14				1115	10.39525	1.1659012	3.5428	1.51404	2.14896	9.48077
12:06:15				1116	10.39813	1.1642921	3.5428	1.51404	2.10012	9.46589
12:06:15				1117	10.39813	1.1647752	3.4445	1.51404	2.00244	9.47015
12:06:16				1118	10.401	1.1670254	3.5428	1.4652	2.00244	9.48915
12:06:16				1119	10.40004	1.1649348	3.4445	1.51404	1.90476	9.47105
12:06:17				1120	10.4058	1.1654179	3.5428	1.51404	2.10012	9.47379
12:06:17				1121	10.40676	1.1659012	3.5428	1.51404	2.00244	9.47778
12:06:18				1122	10.4058	1.1650965	3.5428	1.51404	1.85592	9.47097
12:06:18				1123	10.40292	1.1655775	3.4445	1.4652	1.9536	9.47595
12:06:19				1124	10.39909	1.1678305	3.5428	1.51404	2.10012	9.49672
12:06:19				1125	10.40004	1.1686337	3.5428	1.51404	1.85592	9.50353
12:06:20				1126	10.39813	1.1676686	3.5428	1.4652	1.9536	9.49555
12:06:20				1127	10.39717	1.1697611	3.5428	1.51404	2.00244	9.51419
12:06:21				1128	10.39717	1.1716906	3.5428	1.4652	2.00244	9.53114
12:06:21				1129	10.39717	1.1713686	3.5428	1.51404	2.10012	9.52831
12:06:22				1130	10.39141	1.1726547	3.4445	1.4652	2.05128	9.54113
12:06:22				1131	10.39045	1.1716906	3.5428	1.4652	1.85592	9.53289
12:06:23				1132	10.38853	1.1720127	3.5428	1.51404	2.10012	9.53623
12:06:23				1133	10.38853	1.1692773	3.5428	1.51404	1.90476	9.51218
12:06:24				1134	10.39045	1.1675089	3.4445	1.51404	1.90476	9.49616
12:06:24				1135	10.39141	1.1660609	3.5428	1.4652	1.75824	9.48317
12:06:25				1136	10.39525	1.1652562	3.4445	1.51404	1.75824	9.47512
12:06:25	12:05:10 end transect	15.0	180	1137	10.39525	1.1655776	3.4445	1.51404	2.24664	9.47794
12:06:26				1138	10.39333	1.1659012	3.5428	1.4652	1.80708	9.48127

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:26				1139	10.39333	1.1747461	3.5428	1.51404	2.10012	9.559
12:06:27				1140	10.39045	1.1742637	3.5428	1.51404	2.14896	9.55551
12:06:27				1141	10.38757	1.1732992	3.7396	1.51404	2.00244	9.54776
12:06:28				1142	10.38853	1.1792494	3.7396	1.4652	1.90476	9.59983
12:06:28				1143	10.38373	1.1853605	3.838	1.51404	1.90476	9.65485
12:06:29				1144	10.35974	1.1882576	4.1331	1.51404	2.05128	9.68668
12:06:29				1145	10.34816	1.1893833	4.3299	1.51404	2.14896	9.69965
12:06:30				1146	10.34528	1.1895442	4.4283	1.51404	2.14896	9.70181
12:06:30				1147	10.34336	1.1892225	4.5267	1.4652	2.05128	9.69948
12:06:31				1148	10.34432	1.1887401	4.5267	1.51404	1.80708	9.69497
12:06:31				1149	10.3472	1.1884185	4.5267	1.51404	2.00244	9.69137
12:06:32				1150	10.34624	1.1882577	4.5267	1.51404	1.9536	9.69021
12:06:32				1151	10.34528	1.1890617	4.5267	1.51404	2.10012	9.69755
12:06:33				1152	10.34624	1.1893833	4.5267	1.4652	2.10012	9.70013
12:06:33				1153	10.34528	1.1895442	4.5267	1.56288	1.9536	9.7018
12:06:34				1154	10.34528	1.1887401	4.5267	1.51404	1.75824	9.69471
12:06:34				1155	10.34336	1.1887401	4.6251	1.4652	1.85592	9.69521
12:06:35				1156	10.34336	1.189705	4.5267	1.4652	2.00244	9.70373
12:06:35	12:05:20 start transect	15.0	180	1157	10.34336	1.1890617	4.5267	1.51404	1.90476	9.69806
12:06:36				1158	10.34432	1.1884185	4.5267	1.51404	1.80708	9.69213
12:06:36				1159	10.3424	1.1890617	4.5267	1.4652	1.85592	9.69831
12:06:37				1160	10.3424	1.1893834	4.5267	1.51404	1.85592	9.70115
12:06:37				1161	10.3424	1.1895442	4.5267	1.51404	1.80708	9.70257
12:06:38				1162	10.34144	1.1895442	4.5267	1.51404	1.80708	9.70282
12:06:38				1163	10.3424	1.1893834	4.5267	1.51404	2.05128	9.70115
12:06:39				1164	10.34144	1.1892225	4.5267	1.51404	1.9536	9.69999
12:06:39				1165	10.34144	1.1892225	4.5267	1.51404	2.05128	9.69999
12:06:40				1166	10.34144	1.1890617	4.5267	1.51404	2.10012	9.69857
12:06:40				1167	10.34048	1.1884185	4.5267	1.51404	2.1978	9.69315
12:06:41				1168	10.3424	1.1887401	4.5267	1.51404	1.9536	9.69548
12:06:41				1169	10.34144	1.1900267	4.5267	1.51404	2.00244	9.70708
12:06:42				1170	10.33952	1.189705	4.5267	1.51404	1.9536	9.70475
12:06:42				1171	10.33952	1.1890617	4.5267	1.4652	2.14896	9.69908
12:06:43				1172	10.33952	1.1892225	4.5267	1.51404	1.85592	9.7005
12:06:43				1173	10.34048	1.1903485	4.5267	1.51404	1.90476	9.71017
12:06:44				1174	10.34048	1.1903485	4.5267	1.51404	2.24664	9.71017
12:06:44				1175	10.33952	1.1892225	4.5267	1.51404	2.00244	9.7005
12:06:45				1176	10.33856	1.1893834	4.5267	1.4652	2.24664	9.70217
12:06:45				1177	10.33856	1.1893834	4.5267	1.51404	2.05128	9.70217
12:06:46				1178	10.33952	1.1900268	4.5267	1.51404	1.85592	9.70759
12:06:46				1179	10.33952	1.1897051	4.6251	1.4652	1.85592	9.70474
12:06:47				1180	10.33952	1.1887401	4.5267	1.51404	1.9536	9.69624
12:06:47				1181	10.33952	1.1885793	4.5267	1.51404	1.9536	9.69483
12:06:48				1182	10.34144	1.1874518	4.5267	1.51404	2.00244	9.68438
12:06:48				1183	10.3424	1.1874518	4.5267	1.4652	1.90476	9.68412

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:06:49				1184	10.3424	1.1892225	4.5267	1.51404	2.00244	9.69973
12:06:49				1185	10.3424	1.1903485	4.5267	1.51404	1.80708	9.70966
12:06:50				1186	10.3424	1.1900267	4.5267	1.51404	1.90476	9.70682
12:06:50				1187	10.3424	1.1901876	4.5267	1.51404	2.05128	9.70824
12:06:51				1188	10.3424	1.1903485	4.5267	1.4652	2.05128	9.70966
12:06:51				1189	10.34432	1.1903485	4.5267	1.51404	2.00244	9.70914
12:06:52				1190	10.34336	1.1905094	4.5267	1.51404	1.85592	9.71082
12:06:52				1191	10.3424	1.1908312	4.5267	1.4652	1.85592	9.71391
12:06:53				1192	10.34432	1.1906702	4.4283	1.51404	1.7094	9.712
12:06:53				1193	10.34336	1.1908312	4.5267	1.51404	1.75824	9.71365
12:06:54				1194	10.3424	1.1914726	4.5267	1.51404	1.9536	9.71957
12:06:54				1195	10.3424	1.1921164	4.5267	1.4652	1.90476	9.72524
12:06:55				1196	10.34144	1.1922774	4.5267	1.51404	2.29548	9.72692
12:06:55				1197	10.34048	1.1925994	4.5267	1.51404	2.24664	9.73001
12:06:56				1198	10.33856	1.1922774	4.5267	1.51404	1.85592	9.72768
12:06:56				1199	10.33567	1.1925994	4.5267	1.51404	1.85592	9.73129
12:06:57				1200	10.33087	1.1927604	4.5267	1.4652	1.80708	9.73399
12:06:57				1201	10.32703	1.1930825	4.5267	1.51404	2.14896	9.73786
12:06:58				1202	10.32895	1.1932435	4.5267	1.51404	1.90476	9.73877
12:06:58				1203	10.32799	1.1938855	4.5267	1.51404	1.90476	9.74469
12:06:59				1204	10.32799	1.1935656	4.5267	1.51404	1.80708	9.74186
12:07:00				1207	10.33087	1.1943576	4.5267	1.4652	1.9536	9.74808
12:07:01				1208	10.33183	1.1941965	4.5267	1.51404	1.90476	9.7464
12:07:01				1209	10.33183	1.1940377	4.5267	1.51404	2.1978	9.745
12:07:02				1210	10.32895	1.1943576	4.5267	1.51404	1.9536	9.74859
12:07:02				1211	10.32703	1.1946798	4.5267	1.51404	2.29548	9.75195
12:07:03				1212	10.32607	1.1938766	4.5267	1.51404	1.9536	9.74512
12:07:03				1213	10.32607	1.1943576	4.5267	1.51404	1.66056	9.74936
12:07:04				1214	10.32511	1.1951632	4.5267	1.4652	2.00244	9.75673
12:07:04				1215	10.32217	1.1954832	4.5267	1.51404	1.85592	9.76034
12:07:05				1216	10.31929	1.1950021	4.6251	1.51404	2.29548	9.75685
12:07:05				1217	10.31833	1.1961279	4.5267	1.51404	2.05128	9.76706
12:07:06				1218	10.31737	1.1974153	4.5267	1.51404	2.14896	9.77867
12:07:06				1219	10.31737	1.1985397	4.5267	1.4652	2.05128	9.7886
12:07:07				1220	10.32121	1.1991828	4.5267	1.51404	2.34432	9.79324
12:07:07				1221	10.32703	1.1991827	4.5267	1.51404	2.24664	9.79168
12:07:08				1222	10.33087	1.20031	4.5267	1.51404	2.10012	9.8006
12:07:08				1223	10.33183	1.200792	4.5267	1.51404	2.00244	9.80459
12:07:09				1224	10.33471	1.200792	4.5267	1.4652	2.10012	9.80382
12:07:09				1225	10.33375	1.2006306	4.6251	1.51404	2.63736	9.80264
12:07:10				1226	10.33471	1.2011148	4.5267	1.4652	2.1978	9.80667
12:07:10				1227	10.33567	1.200792	4.5267	1.51404	1.85592	9.80356
12:07:11				1228	10.33663	1.2004714	4.5267	1.51404	1.80708	9.80047
12:07:11				1229	10.33663	1.201274	4.5267	1.51404	1.90476	9.80755
12:07:12				1230	10.33856	1.2011148	4.5267	1.51404	1.85592	9.80563

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:12				1231	10.33856	1.2009534	4.5267	1.4652	1.7094	9.80421
12:07:13				1232	10.33663	1.2015969	4.5267	1.51404	1.80708	9.8104
12:07:13				1233	10.33759	1.2022405	4.5267	1.51404	1.7094	9.81583
12:07:14				1234	10.33759	1.2020791	4.5267	1.51404	1.85592	9.8144
12:07:14				1235	10.33856	1.2022405	4.5267	1.51404	1.75824	9.81557
12:07:15				1236	10.33952	1.2023998	4.5267	1.51404	1.90476	9.81671
12:07:15				1237	10.33952	1.2025613	4.5267	1.51404	1.90476	9.81814
12:07:16				1238	10.34048	1.2023998	4.5267	1.4652	1.85592	9.81646
12:07:16				1239	10.34144	1.2025613	4.5267	1.51404	2.05128	9.81762
12:07:17				1240	10.34048	1.2027228	4.5267	1.51404	1.9536	9.81931
12:07:17				1241	10.33952	1.2027228	4.6251	1.51404	2.49084	9.81955
12:07:18				1242	10.33952	1.2025613	4.5267	1.51404	1.9536	9.81814
12:07:18				1243	10.34048	1.2025613	4.5267	1.4652	1.90476	9.81788
12:07:19				1244	10.33856	1.2025613	4.6251	1.51404	2.00244	9.81838
12:07:19				1245	10.34048	1.2023998	4.6251	1.51404	1.9536	9.81644
12:07:20				1246	10.34048	1.2023998	4.5267	1.51404	2.00244	9.81646
12:07:20				1247	10.34144	1.2025613	4.5267	1.51404	2.10012	9.81762
12:07:21				1248	10.34144	1.2025613	4.5267	1.51404	2.05128	9.81762
12:07:21				1249	10.3424	1.2027228	4.5267	1.51404	2.05128	9.81879
12:07:22				1250	10.34048	1.2028843	4.5267	1.4652	2.00244	9.82073
12:07:22				1251	10.34144	1.2028843	4.5267	1.51404	2.05128	9.82047
12:07:23				1252	10.34144	1.2030436	4.5267	1.51404	1.85592	9.82188
12:07:23				1253	10.3424	1.2030436	4.5267	1.56288	1.75824	9.82162
12:07:24				1254	10.34048	1.2027228	4.5267	1.51404	1.66056	9.81931
12:07:24				1255	10.3424	1.2025613	4.5267	1.4652	1.90476	9.81736
12:07:25				1256	10.33952	1.2015969	4.5267	1.51404	2.00244	9.80963
12:07:25				1257	10.33759	1.2014354	4.5267	1.51404	1.80708	9.80872
12:07:26				1258	10.33663	1.1998281	4.5267	1.4652	1.75824	9.7948
12:07:26				1259	10.32991	1.1978968	4.5267	1.51404	1.9536	9.77956
12:07:27				1260	10.32217	1.1980581	4.5267	1.51404	1.85592	9.78306
12:07:27				1261	10.31833	1.1958055	4.5267	1.51404	1.75824	9.76421
12:07:28				1262	10.31833	1.1945188	4.5267	1.4652	1.85592	9.75286
12:07:28				1263	10.31833	1.1951632	4.6251	1.51404	2.00244	9.75853
12:07:29				1264	10.31833	1.1954832	4.5267	1.51404	1.80708	9.76137
12:07:29				1265	10.31737	1.1940377	4.5267	1.51404	1.75824	9.74887
12:07:30				1266	10.31737	1.1938767	4.5267	1.51404	1.9536	9.74745
12:07:30				1267	10.31737	1.1938767	4.5267	1.51404	1.85592	9.74745
12:07:31				1268	10.31641	1.1935546	4.5267	1.51404	2.53968	9.74486
12:07:31				1269	10.31737	1.1932325	4.5267	1.4652	2.24664	9.74176
12:07:32				1270	10.31737	1.1930715	4.5267	1.51404	1.85592	9.74034
12:07:32				1271	10.31737	1.1930715	4.5267	1.56288	1.90476	9.74034
12:07:33				1272	10.31641	1.1929105	4.5267	1.51404	1.85592	9.73918
12:07:33				1273	10.31833	1.1916249	4.5267	1.51404	1.90476	9.72732
12:07:34				1274	10.31929	1.1903376	4.5267	1.4652	1.85592	9.71571
12:07:34				1275	10.32511	1.1885684	4.5267	1.51404	1.90476	9.69856

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:35				1276	10.32703	1.187443	4.4283	1.51404	1.85592	9.68814
12:07:35				1277	10.32991	1.1872823	4.5267	1.4652	2.14896	9.68594
12:07:36				1278	10.33183	1.1858339	4.5267	1.51404	2.00244	9.67267
12:07:36				1279	10.32895	1.1855126	4.5267	1.51404	1.90476	9.6706
12:07:37				1280	10.32703	1.1842256	4.5267	1.51404	1.80708	9.65976
12:07:37				1281	10.32607	1.1835812	4.5267	1.51404	2.05128	9.65434
12:07:38				1282	10.32415	1.1827786	4.5267	1.51404	2.00244	9.64777
12:07:38				1283	10.32511	1.1827786	4.5267	1.51404	2.05128	9.64752
12:07:39				1284	10.32415	1.1826159	4.5267	1.51404	2.10012	9.64634
12:07:39				1285	10.32511	1.1821345	4.5267	1.51404	2.39316	9.64184
12:07:40				1286	10.32607	1.1819741	4.5267	1.4652	2.14896	9.64017
12:07:40				1287	10.33087	1.1811697	4.5267	1.51404	2.10012	9.63182
12:07:41				1288	10.34144	1.1810092	4.5267	1.4652	2.10012	9.62762
12:07:41				1289	10.352	1.1810092	4.5267	1.51404	2.00244	9.62483
12:07:42				1290	10.35008	1.1806862	4.5267	1.51404	2.10012	9.62249
12:07:42				1291	10.34624	1.1805258	4.5267	1.51404	2.00244	9.62209
12:07:43				1292	10.35296	1.1794011	4.5267	1.51404	1.85592	9.61042
12:07:43				1293	10.35776	1.1787577	4.6251	1.4652	1.90476	9.60347
12:07:44				1294	10.37024	1.1790782	4.5267	1.51404	2.10012	9.60303
12:07:44				1295	10.37408	1.1785951	4.5267	1.51404	1.9536	9.59777
12:07:45				1296	10.37504	1.1792385	4.6251	1.4652	2.00244	9.60316
12:07:45				1297	10.36928	1.1784349	4.5267	1.51404	2.00244	9.59762
12:07:46				1298	10.37504	1.1781143	4.5267	1.51404	1.75824	9.59328
12:07:46				1299	10.37887	1.1779519	4.5267	1.51404	1.85592	9.59085
12:07:47				1300	10.37983	1.1777916	4.5267	1.4652	1.85592	9.58918
12:07:47				1301	10.38271	1.1766657	4.5267	1.51404	1.9536	9.57852
12:07:48				1302	10.38565	1.1753801	4.5267	1.56288	1.80708	9.56645
12:07:48				1303	10.38853	1.1766657	4.5267	1.51404	1.9536	9.577
12:07:49				1304	10.37696	1.1768259	4.5267	1.51404	1.90476	9.58144
12:07:49				1305	10.37504	1.177469	4.5267	1.51404	1.85592	9.58761
12:07:50				1306	10.37216	1.1771485	4.5267	1.51404	2.00244	9.58554
12:07:50				1307	10.36832	1.176826	4.5267	1.4652	1.85592	9.58371
12:07:51				1308	10.37024	1.1769883	4.5267	1.51404	1.75824	9.58464
12:07:51				1309	10.37312	1.1771485	4.5267	1.51404	1.7094	9.58529
12:07:52				1310	10.37408	1.1768259	4.5267	1.51404	1.80708	9.5822
12:07:52				1311	10.37791	1.1773087	4.5267	1.4652	2.14896	9.58544
12:07:53				1312	10.37791	1.177469	4.5267	1.4652	2.00244	9.58685
12:07:53				1313	10.37696	1.1771485	4.5267	1.51404	1.80708	9.58428
12:07:54				1314	10.37887	1.177469	4.5267	1.4652	1.80708	9.5866
12:07:54				1315	10.38079	1.1781143	4.5267	1.51404	1.75824	9.59177
12:07:55				1316	10.37408	1.1777916	4.5267	1.51404	1.75824	9.5907
12:07:55				1317	10.37216	1.1782746	4.5267	1.51404	1.80708	9.59545
12:07:56				1318	10.36928	1.1779519	4.5267	1.4652	2.24664	9.59337
12:07:56				1319	10.37024	1.1781143	4.5267	1.4652	1.85592	9.59454
12:07:57				1320	10.37216	1.1787576	4.5267	1.51404	1.85592	9.5997

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:07:57				1321	10.37216	1.1787576	4.5267	1.51404	1.80708	9.5997
12:07:58				1322	10.36448	1.1790783	4.5267	1.4652	1.80708	9.60454
12:07:58				1323	10.36256	1.1792386	4.5267	1.51404	1.9536	9.60646
12:07:59				1324	10.36256	1.1790783	4.5267	1.51404	2.00244	9.60505
12:08:00				1327	10.36826	1.1794143	4.5267	1.51404	1.9536	9.6065
12:08:01				1328	10.3673	1.1794143	4.5267	1.51404	1.85592	9.60676
12:08:01				1329	10.36634	1.1790914	4.6251	1.51404	1.85592	9.60415
12:08:02				1330	10.36922	1.1787708	4.5267	1.4652	2.10012	9.60059
12:08:02				1331	10.3769	1.1782878	4.5267	1.4652	2.10012	9.59432
12:08:03				1332	10.37977	1.1782877	4.5267	1.51404	2.05128	9.59356
12:08:03				1333	10.37018	1.1778048	4.5267	1.4652	1.85592	9.59184
12:08:04				1334	10.36442	1.1781275	4.5267	1.51404	1.85592	9.59619
12:08:04				1335	10.36058	1.1781276	4.5267	1.56288	1.9536	9.5972
12:08:05				1336	10.35866	1.177322	4.5267	1.51404	2.00244	9.59061
12:08:05				1337	10.36442	1.1763586	4.5267	1.51404	1.9536	9.58062
12:08:06				1338	10.37018	1.1771617	4.5267	1.4652	1.85592	9.58618
12:08:06				1339	10.37594	1.1771617	4.5267	1.51404	1.80708	9.58467
12:08:07				1340	10.3769	1.1774843	4.5267	1.4652	2.39316	9.58725
12:08:07				1341	10.37306	1.1787708	4.5267	1.51404	2.58852	9.59958
12:08:08				1342	10.37018	1.1794142	4.5267	1.51404	2.10012	9.606
12:08:08				1343	10.36442	1.1794143	4.5267	1.51404	1.80708	9.60752
12:08:09				1344	10.36442	1.1794143	4.5267	1.51404	1.80708	9.60752
12:08:09				1345	10.3625	1.1797349	4.5267	1.4652	1.90476	9.61084
12:08:10				1346	10.36154	1.1797349	4.5267	1.56288	1.90476	9.6111
12:08:10				1347	10.35866	1.1802182	4.5267	1.51404	2.05128	9.61611
12:08:11				1348	10.3577	1.1810223	4.5267	1.51404	2.29548	9.62344
12:08:11				1349	10.35194	1.1807016	4.5267	1.51404	2.39316	9.62214
12:08:12				1350	10.35194	1.1818267	4.5267	1.51404	1.85592	9.63204
12:08:12				1351	10.34522	1.1824708	4.5267	1.51404	1.85592	9.63949
12:08:13				1352	10.33844	1.180862	4.5267	1.4652	1.9536	9.62711
12:08:13				1353	10.33844	1.1815059	4.5267	1.51404	1.9536	9.63278
12:08:14				1354	10.33459	1.1819872	4.5267	1.51404	1.90476	9.63804
12:08:14				1355	10.33459	1.1821477	4.5267	1.4652	1.90476	9.63945
12:08:15				1356	10.33267	1.1826313	4.5267	1.51404	1.75824	9.64422
12:08:15				1357	10.33459	1.1827918	4.5267	1.51404	1.75824	9.64513
12:08:16				1358	10.33555	1.1837571	4.5267	1.51404	1.90476	9.65338
12:08:16				1359	10.33171	1.1831128	4.5267	1.4652	1.80708	9.64872
12:08:17				1360	10.33555	1.1826313	4.5267	1.51404	1.80708	9.64346
12:08:17				1361	10.33747	1.183436	4.5267	1.51404	1.7094	9.65004
12:08:18				1362	10.33844	1.1827918	4.5267	1.51404	1.61172	9.64411
12:08:18				1363	10.3394	1.1823081	4.5267	1.51404	1.80708	9.6396
12:08:19				1364	10.34522	1.1829522	4.5267	1.4652	1.7094	9.64373
12:08:19				1365	10.34618	1.1818267	4.5267	1.51404	1.85592	9.63357
12:08:20				1366	10.35194	1.1818267	4.5267	1.4652	1.7094	9.63204
12:08:20				1367	10.35482	1.1815058	4.5267	1.51404	1.9536	9.62846

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:08:21				1368	10.35674	1.1815058	4.5267	1.51404	1.90476	9.62795
12:08:21				1369	10.36058	1.1815058	4.5267	1.51404	1.90476	9.62694
12:08:22				1370	10.36154	1.1815058	4.6251	1.51404	1.90476	9.62667
12:08:22				1371	10.36154	1.1824707	4.5267	1.51404	2.1978	9.63518
12:08:23				1372	10.36442	1.1834359	4.6251	1.51404	2.442	9.6429
12:08:23				1373	10.35482	1.1824707	4.5267	1.4652	2.14896	9.63696
12:08:24				1374	10.35386	1.1816662	4.5267	1.51404	1.66056	9.63012
12:08:24				1375	10.35578	1.1818267	4.5267	1.51404	1.9536	9.63103
12:08:25				1376	10.35578	1.1818267	4.5267	1.51404	1.85592	9.63103
12:08:25				1377	10.3577	1.1826312	4.5267	1.51404	1.75824	9.63761
12:08:26				1378	10.35386	1.1819871	4.5267	1.4652	1.7094	9.63295
12:08:26				1379	10.35482	1.1819871	4.5267	1.51404	1.90476	9.6327
12:08:27				1380	10.35578	1.1821476	4.5267	1.51404	1.9536	9.63386
12:08:27				1381	10.35482	1.1821476	4.5267	1.51404	1.90476	9.63411
12:08:28				1382	10.36922	1.1834359	4.5267	1.51404	1.9536	9.64165
12:08:28				1383	10.38649	1.1837569	4.5267	1.51404	1.9536	9.63991
12:08:29				1384	10.39321	1.1842386	4.5267	1.51404	1.75824	9.64238
12:08:29				1385	10.39513	1.184078	4.5267	1.4652	1.9536	9.64046
12:08:30				1386	10.39321	1.1842386	4.5267	1.51404	2.05128	9.64238
12:08:30				1387	10.38841	1.1842386	4.5267	1.51404	2.00244	9.64365
12:08:31				1388	10.38745	1.1843991	4.5267	1.51404	1.90476	9.64531
12:08:31				1389	10.38745	1.1845597	4.5267	1.51404	1.9536	9.64673
12:08:32				1390	10.39417	1.1839174	4.5267	1.51404	2.53968	9.6393
12:08:32				1391	10.38649	1.1842386	4.5267	1.51404	2.05128	9.64415
12:08:33				1392	10.38553	1.1842386	4.5267	1.4652	1.85592	9.64441
12:08:33				1393	10.37402	1.1847226	4.5267	1.51404	1.85592	9.65171
12:08:34				1394	10.37594	1.1845598	4.5267	1.51404	2.1978	9.64977
12:08:34				1395	10.37306	1.1847226	4.5267	1.51404	1.85592	9.65196
12:08:35				1396	10.37306	1.1850438	4.5267	1.51404	1.75824	9.65479
12:08:35				1397	10.37306	1.1848832	4.5267	1.4652	2.05128	9.65338
12:08:36				1398	10.36634	1.1852044	4.5267	1.56288	1.9536	9.65798
12:08:36				1399	10.37402	1.1858469	4.4283	1.51404	2.14896	9.66162
12:08:37				1400	10.38073	1.1861682	4.5267	1.51404	2.24664	9.66266
12:08:37				1401	10.38649	1.1861682	4.5267	1.51404	2.14896	9.66113
12:08:38				1402	10.38841	1.1866524	4.5267	1.51404	1.90476	9.66489
12:08:38				1403	10.39513	1.1864917	4.5267	1.51404	1.90476	9.6617
12:08:39				1404	10.40766	1.1863288	4.5267	1.4652	2.29548	9.65695
12:08:39				1405	10.42301	1.1869737	4.5267	1.51404	2.05128	9.65856
12:08:40				1406	10.43835	1.1869736	4.5267	1.51404	1.80708	9.65451
12:08:40				1407	10.44027	1.1869736	4.5267	1.51404	1.7094	9.654
12:08:41				1408	10.43547	1.1869737	4.5267	1.51404	1.75824	9.65527
12:08:41				1409	10.42972	1.1869737	4.5267	1.51404	1.61172	9.65679
12:08:42				1410	10.43547	1.1871344	4.5267	1.51404	1.7094	9.65668
12:08:42	12:07:27 end transect	15.0	90	1411	10.43068	1.1871344	4.5267	1.4652	2.6862	9.65795
12:08:43				1412	10.4326	1.1871344	4.5267	1.56288	1.90476	9.65744

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:08:43				1413	10.44027	1.1872951	4.5267	1.51404	1.75824	9.65683
12:08:44				1414	10.45177	1.1871343	4.5267	1.4652	1.9536	9.65237
12:08:44				1415	10.44602	1.1866522	4.5267	1.51404	2.39316	9.64966
12:08:45				1416	10.43931	1.186168	4.5267	1.51404	2.14896	9.64717
12:08:45				1417	10.43547	1.1860073	4.5267	1.51404	2.00244	9.64677
12:08:46				1418	10.43835	1.1864916	4.5267	1.4652	1.9536	9.65027
12:08:46				1419	10.43356	1.1853648	4.5267	1.51404	1.90476	9.64163
12:08:47				1420	10.43643	1.1869737	4.5267	1.51404	1.9536	9.65501
12:08:47				1421	10.43835	1.1869737	4.6251	1.4652	1.90476	9.65449
12:08:48				1422	10.44123	1.1874558	4.5267	1.51404	2.05128	9.65798
12:08:48				1423	10.44218	1.1876165	4.5267	1.51404	1.90476	9.65914
12:08:49				1424	10.43835	1.1874558	4.6251	1.51404	1.80708	9.65873
12:08:49				1425	10.4326	1.1879381	4.6251	1.4652	2.00244	9.66449
12:08:50				1426	10.4326	1.1871344	4.5267	1.51404	1.85592	9.65744
12:08:50				1427	10.4489	1.1869736	4.5267	1.56288	1.9536	9.65172
12:08:51				1428	10.44602	1.1877773	4.5267	1.51404	1.9536	9.65954
12:08:51				1429	10.44794	1.1882595	4.5267	1.51404	1.90476	9.66327
12:08:52				1430	10.44698	1.1850435	4.4283	1.51404	2.6862	9.63528
12:08:52				1431	10.46238	1.1802178	4.1331	1.51404	2.14896	9.58889
12:08:53				1432	10.46429	1.1787704	3.838	1.4652	2.10012	9.57573
12:08:53				1433	10.44314	1.1470861	3.6412	9.37729	2.10012	9.3034
12:08:54				1434	10.4326	1.1445136	3.6412	3.61416	2.10012	9.28355
12:08:54				1435	10.39903	1.1429071	3.6412	1.51404	2.05128	9.278
12:08:55				1436	10.35674	1.1470864	3.6412	1.51404	2.10012	9.32544
12:08:55				1437	10.3577	1.1162122	3.4445	1.51404	2.00244	9.0545
12:08:56				1438	10.27112	1.0998114	3.0509	1.51404	2.10012	8.9322
12:08:56				1439	10.24228	1.0888788	2.8542	1.4652	2.24664	8.84344
12:08:57				1440	10.24805	1.084858	2.8542	1.51404	2.39316	8.80681
12:08:57				1441	10.24997	1.0789103	2.7558	1.51404	2.53968	8.75427
12:08:58				1442	10.24324	1.0826081	2.7558	1.51404	2.39316	8.78828
12:08:58				1443	10.24324	1.0605837	2.6574	1.4652	2.34432	8.59556
12:08:59				1444	10.20663	1.0284331	2.2639	1.51404	2.49084	8.3233
12:09:00				1447	10.17704	0.8462489	2.0671	1.51404	4.05372	6.7528
12:09:01				1448	10.1626	0.6743006	1.9687	1.56288	5.22589	5.29399
12:09:01				1449	10.14232	0.8086689	1.8703	1.51404	5.12821	6.43722
12:09:02				1450	10.02942	0.7136232	1.6736	1.51404	5.12821	5.64627
12:09:02				1451	9.87665	0.6401229	1.3784	1.4652	5.12821	5.04669
12:09:03				1452	9.86312	0.5183802	1.2801	1.51404	5.71429	4.02919
12:09:03				1453	9.81856	0.5382638	1.2801	1.4652	5.81197	4.1996
12:09:04				1454	9.78274	0.497858	1.1817	1.51404	6.00733	3.86774
12:09:04				1455	9.773	0.5039502	1.2801	1.51404	6.59341	3.91931
12:09:05				1456	9.76525	0.5193419	1.1817	1.51404	5.61661	4.04809
12:09:05				1457	9.75944	0.5241535	1.2801	1.4652	5.61661	4.0888
12:09:06				1458	9.7575	0.5496506	1.2801	1.4652	6.25153	4.30182
12:09:06				1459	9.78468	0.6114041	1.0833	1.51404	5.71429	4.81696

Table B-3. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Ryndam (7/12/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
12:09:07				1460	9.79533	0.6012971	0.9849	1.4652	6.05617	4.73042
12:09:07				1461	9.80694	0.5575082	0.9849	1.51404	5.76313	4.36163
12:09:08				1462	9.81565	0.5682537	0.9849	1.51404	5.90965	4.45047
12:09:08				1463	9.81565	0.5652076	0.8865	1.51404	6.00733	4.42498
12:09:09				1464	9.80888	0.5270399	0.8865	1.51404	5.42125	4.10726
12:09:09				1465	9.80114	0.5222293	0.8865	1.4652	5.37241	4.06811
12:09:10				1466	9.79533	0.5336132	0.8865	1.51404	5.61661	4.16355
12:09:10				1467	9.79146	0.5203038	0.8865	1.51404	5.81197	4.05318
12:09:11				1468	9.77984	0.5013851	0.8865	1.51404	6.05617	3.89732
12:09:11				1469	9.773	0.4970568	0.9849	1.51404	6.30037	3.86215
12:09:12				1470	9.76332	0.4964147	0.8865	1.51404	6.30037	3.85786
12:09:12				1471	9.76041	0.4723688	0.8865	1.51404	6.15385	3.65917
12:09:13				1472	9.75654	0.4657967	0.8865	1.4652	5.90965	3.6053
12:09:13				1473	9.74782	0.4688418	0.9849	1.51404	7.17949	3.6313
12:09:14				1474	9.7546	0.484872	0.9849	1.51404	6.64225	3.76314
12:09:14				1475	9.76622	0.5021866	0.9849	1.4652	5.86081	3.90543
12:09:15				1476	9.77397	0.4908031	0.9849	1.51404	5.95849	3.81023
12:09:15				1477	9.76622	0.4956124	0.8865	1.51404	5.81197	3.8509
12:09:16				1478	9.75847	0.5057139	0.8865	1.51404	5.90965	3.93556
12:09:16				1479	9.76138	0.4892006	0.7881	1.4652	6.05617	3.79829
12:09:17				1480	9.74879	0.471406	0.6898	1.51404	6.00733	3.6524
12:09:17				1481	9.7391	0.4709249	0.6898	1.4652	8.40049	3.6494
12:09:18				1482	9.73522	0.4789411	0.6898	1.4652	5.66545	3.71608
12:09:18				1483	9.73232	0.4803834	0.6898	1.51404	6.73993	3.72831
12:09:19				1484	9.74298	0.0814339	0.5914	1.51404	8.30281	0.57398
12:09:19				1485	9.74588	0.2255435	0.5914	1.51404	4.884	1.67093
12:09:20				1486	9.75169	0.4904831	0.493	0	0	3.80995
12:09:20				1487	9.75363	0.292294	0.5914	0	0	2.19749
12:09:21				1488	9.75847	0.5021866	0.5914	0	0	3.90629
12:09:21				1489	9.76332	0.5017053	0.5914	0	0	3.90177
12:09:22	12:07:27 switch off	15.0	90	1490	9.77106	0.5017053	0.6898	0	0	3.90093

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:51:39	9:50:15 switch on	10.0	90	7	9.07058	0.3040077	1.0833	0	0	2.33467
9:51:40	no dye - background			8	9.06471	0.302886	1.0833	0	0	2.32592
9:51:40				9	9.06275	0.302886	1.0833	0	0	2.32605
9:51:41				10	9.04507	0.303688	1.0833	0	0	2.33373
9:51:41				11	9.02739	0.3030458	1.0833	0	0	2.32964
9:51:42				12	9.01955	0.303688	1.0833	0	0	2.33539
9:51:42				13	8.98913	0.3051305	1.0833	0	0	2.34914
9:51:43				14	8.96255	0.3044891	1.1817	0	0	2.34564
9:51:43				15	8.96947	0.3044891	1.1817	0	0	2.34519
9:51:44				16	8.95961	0.3084979	1.0833	0	0	2.37859
9:51:44				17	8.96751	0.3065744	1.1817	0	0	2.36235
9:51:45				18	8.97731	0.3043291	1.1817	0	0	2.34337
9:51:45				19	8.96947	0.3041692	1.1817	0	0	2.34258
9:51:46				20	8.94589	0.3081772	1.1817	0	0	2.37688
9:51:46				21	8.94981	0.3052905	1.1817	0	0	2.35303
9:51:47				22	8.94295	0.3046505	1.1817	0	0	2.34825
9:51:47				23	8.92916	0.3094592	1.1817	0	0	2.38848
9:51:48				24	8.89967	0.3093002	1.2801	0	0	2.38914
9:51:48				25	8.90262	0.3097803	1.3784	0	0	2.39287
9:51:49				26	8.90948	0.3110638	1.4768	0	0	2.40292
9:51:49				27	8.91439	0.3115445	1.4768	0	0	2.40653
9:51:50				28	8.91144	0.3121861	1.4768	0	0	2.41198
9:51:50				29	8.91635	0.3121861	1.2801	0	0	2.41166
9:51:51				30	8.92033	0.3126672	1.2801	0	0	2.41533
9:51:51				31	8.91837	0.3131484	1.1817	0	0	2.41941
9:51:52				32	8.92327	0.3126672	1.1817	0	0	2.41514
9:51:52				33	8.91935	0.3133079	1.1817	0	0	2.42065
9:51:53				34	8.91439	0.3137893	1.1817	0	0	2.42493
9:51:53				35	8.91537	0.3139488	1.1817	0	0	2.42617
9:51:54				36	8.91837	0.3144305	1.1817	0	0	2.42992
9:51:54				37	8.92622	0.3144305	1.1817	0	0	2.42938
9:51:55				38	8.93504	0.3147511	1.1817	0	0	2.43141
9:51:55				39	8.93504	0.3150719	1.1817	0	0	2.43404
9:51:56				40	8.93308	0.3149108	1.1817	0	0	2.43285
9:51:56				41	8.92426	0.3150719	1.1817	0	0	2.43477
9:51:57				42	8.92229	0.3150719	1.1817	0	0	2.43491
9:51:57				43	8.92426	0.3152316	1.1817	0	0	2.43608
9:51:58				44	8.92327	0.3150719	1.1817	0	0	2.43484
9:51:58				45	8.92426	0.3155525	1.1817	0	0	2.43871
9:51:59				46	8.92916	0.3157137	1.1817	0	0	2.4397
9:51:59				47	8.9272	0.3149108	1.1817	0	0	2.43325
9:52:00				48	8.91837	0.3157137	1.1817	0	0	2.44043
9:52:00				49	8.91046	0.3153928	1.1817	0	0	2.43834
9:52:01				50	8.91635	0.3150719	1.1817	0	0	2.43531
9:52:01				51	8.91837	0.3153928	1.1817	0	0	2.4378
9:52:02				52	8.92033	0.3176377	1.1817	0	0	2.45608

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:52:02				53	8.92229	0.3174763	1.0833	0	0	2.45462
9:52:03				54	8.91341	0.3166754	1.1817	0	0	2.44866
9:52:03				55	8.92229	0.3168352	1.2801	0	0	2.44936
9:52:04				56	8.91935	0.3182791	1.2801	0	0	2.4614
9:52:04				57	8.91144	0.3198817	1.1817	0	0	2.4751
9:52:05				58	8.91046	0.3203638	1.1817	0	0	2.47912
9:52:05				59	8.90948	0.3187593	1.1817	0	0	2.46602
9:52:06				60	8.91144	0.3181191	1.1817	0	0	2.46063
9:52:06				61	8.91341	0.3185992	1.2801	0	0	2.46443
9:52:07				62	8.91935	0.3213256	1.1817	0	0	2.4864
9:52:07				63	8.91635	0.3221277	1.0833	0	0	2.4932
9:52:08				64	8.91341	0.3219672	1.0833	0	0	2.49209
9:52:08				65	8.91144	0.3185992	1.1817	0	0	2.46457
9:52:09				66	8.91739	0.3176377	1.2801	0	0	2.45627
9:52:09				67	8.91537	0.3202036	1.1817	0	0	2.47747
9:52:10				68	8.91739	0.321486	1.1817	0	0	2.48785
9:52:10				69	8.91837	0.3213257	1.1817	0	0	2.48647
9:52:11				70	8.91144	0.3189208	1.1817	0	0	2.46721
9:52:11				71	8.91439	0.3194012	1.2801	0	0	2.47095
9:52:12				72	8.91341	0.3205241	1.1817	0	0	2.48023
9:52:12				73	8.91635	0.3177977	1.1817	0	0	2.45766
9:52:13				74	8.91046	0.3185992	1.1817	0	0	2.46464
9:52:13				75	8.90752	0.3195613	1.1817	0	0	2.47274
9:52:14				76	8.91144	0.3184392	1.2801	0	0	2.46326
9:52:14				77	8.91439	0.3169966	1.1817	0	0	2.45123
9:52:15				78	8.91635	0.3149108	1.1817	0	0	2.43399
9:52:15				79	8.91243	0.3174763	1.1817	0	0	2.45529
9:52:16				80	8.91439	0.3169966	1.1817	0	0	2.45123
9:52:16				81	8.91635	0.3158734	1.1817	0	0	2.44188
9:52:17				82	8.91537	0.3173164	1.1817	0	0	2.45378
9:52:17				83	8.91635	0.3165155	1.1817	0	0	2.44715
9:52:18				84	8.91243	0.3149108	1.1817	0	0	2.43426
9:52:18				85	8.91243	0.3168352	1.1817	0	0	2.45004
9:52:19				86	8.91046	0.3168352	1.1817	0	0	2.45017
9:52:19				87	8.91439	0.3171565	1.1817	0	0	2.45254
9:52:20				88	8.91537	0.3171565	1.1817	0	0	2.45247
9:52:20				89	8.91935	0.3173164	1.1817	0	0	2.45351
9:52:21				90	8.91341	0.3173164	1.1817	0	0	2.45392
9:52:21				91	8.91243	0.3173164	1.1817	0	0	2.45398
9:52:22				92	8.91046	0.3173164	1.1817	0	0	2.45412
9:52:22				93	8.90556	0.3173164	1.1817	0	0	2.45445
9:52:23				94	8.90458	0.3173164	1.1817	0	0	2.45452
9:52:23				95	8.91243	0.3161945	1.1817	0	0	2.44478
9:52:24				96	8.91341	0.3006423	1.1817	0.58608	0.29304	2.31743
9:52:24				97	8.90556	0.3064143	1.1817	0.39072	0.09768	2.36513
9:52:25				98	8.9036	0.3054521	1.1817	1.4652	0.9768	2.35739

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:52:25				99	8.90654	0.3059324	1.1817	1.4652	12.45421	2.36112
9:52:26				100	8.9085	0.3017638	1.1817	1.4652	12.99145	2.32691
9:52:26				101	8.89967	0.3025652	1.1817	1.4652	13.13797	2.33403
9:52:27				102	8.89869	0.3036882	1.2801	1.41636	12.84493	2.34328
9:52:27				103	8.9036	0.3043292	1.1817	1.41636	12.99145	2.3482
9:52:28				104	8.90262	0.3036881	1.1817	1.4652	13.13797	2.34302
9:52:28				105	8.89869	0.303367	1.1817	1.4652	12.74725	2.34065
9:52:29				106	8.89967	0.3054521	1.1817	1.4652	13.38217	2.35765
9:52:29				107	8.90065	0.3044891	1.1817	1.4652	12.21001	2.3497
9:52:30				108	8.90262	0.3052906	1.1817	1.4652	12.60073	2.35613
9:52:30				109	8.90556	0.3056122	1.0833	1.4652	12.89377	2.35857
9:52:31				110	8.90262	0.3054521	1.1817	1.4652	13.43101	2.35745
9:52:31				111	8.90262	0.3059324	1.1817	1.41636	12.55189	2.36138
9:52:32				112	8.90458	0.3057723	1.1817	1.4652	12.94261	2.35994
9:52:32				113	8.90164	0.2987178	1.1817	1.4652	13.08913	2.30246
9:52:33				114	8.89078	0.3025652	1.1817	1.41636	13.23565	2.33461
9:52:33				115	8.8898	0.3014431	1.1817	1.4652	12.79609	2.3255
9:52:34				116	8.89078	0.3078565	1.2801	1.4652	12.99145	2.37791
9:52:34				117	8.8898	0.2951913	1.1817	1.41636	13.23565	2.27442
9:52:35				118	8.8898	0.3051306	1.1817	1.41636	12.94261	2.35567
9:52:35				119	8.88882	0.3072153	1.1817	1.4652	12.40537	2.3728
9:52:36				120	8.89275	0.3052906	1.1817	1.4652	12.21001	2.35678
9:52:36				121	8.89373	0.3032072	1.1817	1.41636	12.60073	2.33967
9:52:37				122	8.88293	0.2963128	1.1817	1.41636	13.43101	2.28402
9:52:37				123	8.86815	0.3016042	1.1817	1.4652	13.08913	2.32823
9:52:38				124	8.88293	0.2948707	1.1817	1.4652	12.99145	2.27224
9:52:39				127	8.84429	0.2839479	1.1817	1.4652	12.55189	2.18554
9:52:40				128	8.85116	0.285069	1.1817	1.4652	12.64957	2.19426
9:52:40				129	8.85607	0.2791411	1.1817	1.4652	13.47985	2.14568
9:52:41				130	8.83539	0.2781804	1.1817	1.4652	13.38217	2.1391
9:52:41				131	8.82655	0.2799425	1.1817	1.41636	12.25885	2.15398
9:52:42				132	8.81968	0.2754573	1.1817	1.4652	12.45421	2.11787
9:52:42				133	8.81575	0.2736952	1.1817	1.41636	13.43101	2.10376
9:52:43				134	8.81575	0.2706502	1.1817	1.4652	12.64957	2.07899
9:52:43				135	8.81077	0.2708106	1.1817	1.4652	13.08913	2.08059
9:52:44				136	8.81176	0.2687285	1.1817	1.41636	13.91941	2.0636
9:52:44				137	8.8128	0.2684082	1.1817	1.41636	13.38217	2.06094
9:52:45				138	8.81176	0.2640835	1.1817	1.41636	12.64957	2.02588
9:52:45				139	8.80881	0.2685683	1.1817	1.41636	13.28449	2.06247
9:52:46				140	8.80488	0.270331	1.0833	1.4652	12.69841	2.07703
9:52:46				141	8.80586	0.2664854	1.1817	1.41636	13.33333	2.04572
9:52:47				142	8.80684	0.2668066	1.1817	1.4652	12.50305	2.04827
9:52:47				143	8.798	0.2664854	1.1817	1.4652	13.47985	2.04617
9:52:48				144	8.79407	0.263602	1.1817	1.4652	13.23565	2.02297
9:52:48				145	8.79997	0.26985	1.1817	1.4652	13.33333	2.0734
9:52:49				146	8.80684	0.2626408	1.1817	1.4652	13.28449	2.01445

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:52:49				147	8.79113	0.2613603	1.1817	1.4652	13.62637	2.00494
9:52:50				148	8.7872	0.2642432	1.1817	1.4652	13.08913	2.02857
9:52:50				149	8.79604	0.2652041	1.1817	1.41636	13.08913	2.03587
9:52:51				150	8.79113	0.2623206	1.1817	1.4652	13.57753	2.01274
9:52:51				151	8.78916	0.2644028	1.1817	1.41636	13.38217	2.02975
9:52:52				152	8.78916	0.2701706	1.1817	1.4652	12.69841	2.07664
9:52:52				153	8.79014	0.2696898	1.1817	1.41636	12.25885	2.07267
9:52:53				154	8.79309	0.2764176	1.1817	1.4652	13.33333	2.12727
9:52:53				155	8.79604	0.2892346	1.0833	1.4652	13.23565	2.23168
9:52:54				156	8.80292	0.2746557	1.1817	1.4652	13.04029	2.11233
9:52:54				157	8.80193	0.2754573	1.1817	1.4652	13.33333	2.11892
9:52:55				158	8.81176	0.2757764	1.1817	1.4652	14.11477	2.12093
9:52:55				159	8.81176	0.2770591	1.1817	1.4652	13.28449	2.13138
9:52:56				160	8.81869	0.2804228	1.1817	1.4652	13.04029	2.15837
9:52:56				161	8.81575	0.2852297	1.0833	1.4652	13.62637	2.19775
9:52:57				162	8.8236	0.2817041	1.1817	1.4652	12.69841	2.16851
9:52:57				163	8.82459	0.2828263	1.1817	1.4652	13.04029	2.1776
9:52:58				164	8.82851	0.2839479	1.1817	1.4652	12.94261	2.18651
9:52:58				165	8.83244	0.2842675	1.1817	1.4652	12.99145	2.18887
9:52:59				166	8.84527	0.2858696	1.1817	1.4652	12.69841	2.20115
9:52:59				167	8.84527	0.2869908	1.1817	1.41636	13.04029	2.2103
9:53:00				168	8.84429	0.2884335	1.1817	1.4652	13.13797	2.22213
9:53:00				169	8.84527	0.2876315	1.1817	1.41636	13.38217	2.21552
9:53:01				170	8.85214	0.2887541	1.1817	1.41636	12.89377	2.22426
9:53:01				171	8.85999	0.2887541	1.1817	1.41636	12.89377	2.22377
9:53:02				172	8.85901	0.2917974	1.1817	1.41636	14.74969	2.24866
9:53:02				173	8.86196	0.2905154	1.1817	1.41636	12.30769	2.23801
9:53:03				174	8.86785	0.2925989	1.1817	1.4652	13.33333	2.25465
9:53:03				175	8.86588	0.2958038	1.1817	1.4652	13.28449	2.28095
9:53:04	09:51:49 start transect	10.0	90	176	8.86588	0.2933994	1.1817	1.4652	12.99145	2.26131
9:53:04				177	8.86686	0.2935596	1.1817	1.41636	12.74725	2.26256
9:53:05				178	8.86785	0.292759	1.1817	1.41636	12.84493	2.25596
9:53:05				179	8.86883	0.2921188	1.1817	1.41636	12.84493	2.25067
9:53:06				180	8.86981	0.2863504	1.1817	1.4652	13.62637	2.20356
9:53:06				181	8.86392	0.2895553	1.1817	1.4652	14.89621	2.23006
9:53:07				182	8.8649	0.2903556	1.1817	1.4652	12.69841	2.23653
9:53:07				183	8.86196	0.2911562	1.1817	1.4652	12.94261	2.24325
9:53:08				184	8.86196	0.2892345	1.1817	1.41636	12.89377	2.22756
9:53:08				185	8.8649	0.2901958	1.1817	1.4652	12.89377	2.23522
9:53:09				186	8.85901	0.2930792	1.1817	1.4652	13.28449	2.25913
9:53:09				187	8.85607	0.2905154	1.1817	1.4652	12.25885	2.23838
9:53:10				188	8.85901	0.2897151	1.1817	1.4652	13.28449	2.23167
9:53:10				189	8.85999	0.2898748	1.1817	1.41636	13.28449	2.23291
9:53:11				190	8.85803	0.2901958	1.1817	1.41636	13.18681	2.23565
9:53:11				191	8.85705	0.2898748	1.1817	1.4652	12.74725	2.23309
9:53:12				192	8.85607	0.2925989	1.1817	1.4652	12.30769	2.25539

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:53:12				193	8.85509	0.2933995	1.1817	1.4652	12.89377	2.26199
9:53:13				194	8.85999	0.292759	1.1817	1.41636	13.13797	2.25645
9:53:13				195	8.8649	0.2985264	1.1817	1.4652	13.33333	2.30327
9:53:14				196	8.87177	0.2805828	1.1817	1.4652	12.84493	2.15647
9:53:14				197	8.86392	0.2785	1.1817	1.4652	13.04029	2.13999
9:53:15				198	8.83048	0.2791411	1.1817	1.4652	13.33333	2.14721
9:53:15				199	8.81575	0.2722521	1.1817	1.4652	13.47985	2.09202
9:53:16				200	8.80684	0.263122	1.1817	1.4652	13.47985	2.01835
9:53:16				201	8.78425	0.2634425	1.1817	1.41636	14.01709	2.02223
9:53:17				202	8.77632	0.2640836	1.1817	1.41636	13.28449	2.02789
9:53:17				203	8.76944	0.2603994	1.1817	1.4652	13.18681	1.99836
9:53:18				204	8.75372	0.2592772	1.1817	1.4652	13.47985	1.99013
9:53:18				205	8.74284	0.2575164	1.1817	1.41636	13.38217	1.97643
9:53:19				206	8.74284	0.2562337	1.1817	1.4652	13.72405	1.96602
9:53:19				207	8.74087	0.2570358	1.1817	1.4652	13.47985	1.97264
9:53:20				208	8.74087	0.2589578	1.1817	1.41636	13.38217	1.98825
9:53:20				209	8.74972	0.2594377	1.1817	1.4652	13.62637	1.99165
9:53:21				210	8.76846	0.270331	1.1817	1.4652	13.43101	2.07915
9:53:21				211	8.78425	0.269209	1.1817	1.41636	13.13797	2.0691
9:53:22				212	8.798	0.2754573	1.1817	1.41636	13.04029	2.11915
9:53:22				213	8.8128	0.2828263	1.1817	1.4652	13.13797	2.17832
9:53:23				214	8.8295	0.2921189	1.1817	1.41636	12.94261	2.25315
9:53:23				215	8.83441	0.2933995	1.1817	1.4652	12.84493	2.2633
9:53:24				216	8.83244	0.2972455	1.1817	1.4652	13.28449	2.29488
9:53:24				217	8.8541	0.2978865	1.1817	1.41636	13.08913	2.29873
9:53:25				218	8.85607	0.2959628	1.1817	1.4652	13.23565	2.28288
9:53:25				219	8.85312	0.3030137	1.1817	1.4652	12.74725	2.34075
9:53:26				220	8.86097	0.3046154	1.1817	1.41636	12.45421	2.35335
9:53:26				221	8.87079	0.3012513	1.1817	1.41636	12.60073	2.32517
9:53:27				222	8.87478	0.3028525	1.1817	1.4652	12.55189	2.33801
9:53:27				223	8.86981	0.3018913	1.1817	1.41636	12.94261	2.33047
9:53:28				224	8.86981	0.3001288	1.1817	1.4652	13.33333	2.31605
9:53:28				225	8.86588	0.2895553	1.0833	1.4652	12.60073	2.22994
9:53:29				226	8.85116	0.2789812	1.1817	1.4652	12.89377	2.14467
9:53:29				227	8.84128	0.287472	1.1817	1.4652	12.60073	2.21447
9:53:30				228	8.8403	0.2897151	1.1817	1.41636	13.04029	2.23284
9:53:30				229	8.84723	0.2889138	1.1817	1.4652	12.79609	2.22586
9:53:31				230	8.85509	0.2901958	1.1817	1.41636	12.99145	2.23584
9:53:31				231	8.85312	0.2905154	1.1817	1.4652	13.67521	2.23857
9:53:32				232	8.8541	0.2906767	1.1817	1.4652	12.69841	2.23982
9:53:32				233	8.85607	0.2855496	1.1817	1.41636	12.89377	2.19788
9:53:33				234	8.85901	0.2842675	1.1817	1.4652	12.25885	2.18725
9:53:33				235	8.86196	0.2865112	1.1817	1.41636	12.25885	2.20535
9:53:34				236	8.85999	0.2863504	1.1817	1.4652	12.84493	2.20416
9:53:34				237	8.86392	0.2852297	1.1817	1.41636	12.74725	2.19479
9:53:35				238	8.8738	0.2820246	1.1817	1.4652	12.79609	2.16808

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:53:35				239	8.87968	0.2868313	1.1817	1.4652	12.99145	2.20687
9:53:36				240	8.87478	0.2868314	1.1817	1.4652	12.99145	2.20717
9:53:36				241	8.87576	0.2804227	1.1817	1.4652	13.08913	2.15492
9:53:37				242	8.88655	0.2809031	1.1817	1.41636	12.94261	2.15818
9:53:37				243	8.89244	0.2776994	1.1817	1.4652	13.28449	2.13178
9:53:38				244	8.90225	0.2754572	1.1817	1.41636	12.74725	2.11298
9:53:39				247	8.95624	0.2802106	1.1817	1.4652	12.69841	2.14836
9:53:40				248	8.95134	0.2778074	1.1817	1.41636	12.64957	2.12915
9:53:40				249	8.95918	0.2739634	1.1817	1.41636	12.94261	2.09752
9:53:41				250	8.92775	0.2714007	1.1817	1.4652	12.89377	2.07858
9:53:41				251	8.91206	0.2758855	1.1817	1.4652	13.38217	2.11588
9:53:42				252	8.90225	0.2696396	1.1817	1.4652	13.38217	2.06578
9:53:42				253	8.86189	0.2664368	1.1817	1.4652	13.47985	2.04212
9:53:43				254	8.84521	0.2683581	1.1817	1.41636	13.33333	2.05867
9:53:43				255	8.85699	0.268038	1.1817	1.41636	13.28449	2.05539
9:53:44				256	8.89041	0.2736434	1.1817	1.41636	13.43101	2.09895
9:53:44				257	8.92383	0.2733234	1.1817	1.4652	13.33333	2.0944
9:53:45				258	8.91892	0.275726	1.1817	1.4652	12.69841	2.11418
9:53:45				259	8.9199	0.2728428	1.1817	1.4652	12.79609	2.09073
9:53:46				260	8.91206	0.2744445	1.1817	1.41636	13.47985	2.10418
9:53:46				261	8.91108	0.2750851	1.1817	1.41636	13.43101	2.10944
9:53:47				262	8.90911	0.2742836	1.1817	1.4652	12.84493	2.10305
9:53:47				263	8.88355	0.2667566	1.1817	1.4652	13.08913	2.04348
9:53:48				264	8.85601	0.2649944	1.1817	1.41636	13.28449	2.03076
9:53:48				265	8.83735	0.2664368	1.1817	1.4652	13.43101	2.04352
9:53:49				266	8.83539	0.264675	1.1817	1.41636	14.31013	2.02934
9:53:49				267	8.82944	0.2656348	1.1817	1.4652	14.31013	2.03747
9:53:50				268	8.82845	0.2701191	1.1817	1.41636	13.52869	2.07394
9:53:50				269	8.8403	0.2720414	1.1817	1.4652	13.23565	2.08887
9:53:51				270	8.84422	0.2681981	1.1817	1.4652	13.33333	2.05742
9:53:51				271	8.84324	0.2681981	1.1817	1.4652	13.47985	2.05748
9:53:52				272	8.83238	0.2670765	1.1817	1.41636	13.04029	2.049
9:53:52				273	8.82747	0.2662755	1.1817	1.41636	13.38217	2.04278
9:53:53				274	8.82845	0.2677179	1.1817	1.4652	13.04029	2.05443
9:53:53				275	8.81274	0.2667566	1.1817	1.4652	12.99145	2.04753
9:53:54				276	8.80881	0.2651556	1.1817	1.4652	13.57753	2.03475
9:53:54				277	8.80684	0.2665967	1.1817	1.41636	13.38217	2.04657
9:53:55				278	8.79696	0.2659559	1.1817	1.4652	13.52869	2.04193
9:53:55				279	8.79008	0.2657961	1.1817	1.4652	13.62637	2.04102
9:53:56				280	8.78615	0.264514	1.1817	1.4652	13.72405	2.03083
9:53:56				281	8.7891	0.264514	1.1817	1.4652	13.47985	2.03066
9:53:57				282	8.78615	0.264514	1.1817	1.41636	14.16361	2.03083
9:53:57				283	8.78222	0.2649944	1.1817	1.4652	14.35897	2.03496
9:53:58				284	8.77731	0.2653153	1.1817	1.4652	13.43101	2.03784
9:53:58				285	8.77632	0.2667567	1.1817	1.4652	13.47985	2.04962
9:53:59				286	8.77632	0.2667567	1.1817	1.4652	13.77289	2.04962

Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:53:59				287	8.78025	0.2669166	1.1817	1.41636	13.52869	2.05069
9:54:00				288	8.78124	0.2664369	1.1817	1.4652	13.57753	2.04673
9:54:00				289	8.7832	0.2672365	1.1817	1.41636	13.47985	2.05312
9:54:01	09:52:46 @ 6:00	10.0	180	290	8.78713	0.2670765	1.1817	1.4652	13.67521	2.0516
9:54:01	begin depth profile			291	8.7891	0.2677179	1.1817	1.4652	13.23565	2.0567
9:54:02				292	8.79696	0.2651556	1.1817	1.41636	13.72405	2.03542
9:54:02				293	8.80193	0.2648347	1.1817	1.4652	13.52869	2.03254
9:54:03				294	8.79598	0.2662755	1.1817	1.4652	13.13797	2.04458
9:54:03				295	8.79696	0.2662755	1.1817	1.4652	13.18681	2.04452
9:54:04				296	8.79794	0.2662755	1.1817	1.4652	13.52869	2.04447
9:54:04				297	8.79794	0.2662755	1.1817	1.41636	14.31013	2.04447
9:54:05				298	8.79991	0.2669166	1.1817	1.41636	13.62637	2.04956
9:54:05				299	8.79598	0.268038	1.2801	1.4652	13.52869	2.0589
9:54:06				300	8.78615	0.272202	1.3784	1.4652	13.87057	2.09334
9:54:06				301	8.7891	0.2778075	1.5752	1.4652	14.16361	2.13882
9:54:07				302	8.81961	0.2739636	1.6736	1.41636	13.38217	2.1057
9:54:07				303	8.81863	0.2813317	1.6736	1.41636	13.04029	2.16576
9:54:08				304	8.85012	0.2888601	1.8703	1.4652	13.28449	2.22522
9:54:08				305	8.87864	0.2866169	1.8703	1.4652	13.62637	2.20516
9:54:09				306	8.89041	0.2957469	1.9687	1.4652	13.04029	2.27889
9:54:09				307	8.89532	0.2989516	2.1655	1.41636	13.67521	2.30475
9:54:10				308	8.89336	0.2997514	2.3623	1.41636	13.62637	2.3114
9:54:10				309	8.89532	0.2975097	2.4606	1.4652	13.38217	2.29296
9:54:11				310	8.8914	0.3010332	2.559	1.4652	12.94261	2.322
9:54:11				311	8.89238	0.313209	2.6574	1.41636	12.60073	2.42161
9:54:12				312	8.90421	0.3120873	2.7558	1.4652	12.84493	2.41161
9:54:12				313	8.91108	0.3268268	2.8542	1.41636	13.08913	2.5321
9:54:13				314	8.92383	0.4409479	3.0509	1.4652	13.67521	3.48023
9:54:13				315	9.00235	0.4531349	3.1493	1.4652	12.74725	3.57495
9:54:14				316	9.1631	0.4130505	3.3461	1.41636	10.20757	3.22462
9:54:14				317	9.21402	0.4366178	3.4445	1.41636	9.42613	3.41602
9:54:15				318	9.21695	0.45602	3.4445	1.4652	9.57265	3.5777
9:54:15				319	9.25605	0.4515308	3.6412	1.4652	9.81685	3.53631
9:54:16				320	9.27166	0.459388	3.7396	1.41636	9.47497	3.60036
9:54:16				321	9.27459	0.4613121	3.838	1.4652	9.18193	3.61614
9:54:17				322	9.27654	0.4616333	3.9364	1.4652	9.42613	3.61862
9:54:17				323	9.27654	0.482642	3.9364	1.4652	9.52381	3.79447
9:54:18				324	9.29611	0.4892164	4.1331	1.4652	9.67033	3.84753
9:54:18				325	9.31073	0.482481	4.2315	1.4652	9.27961	3.7895
9:54:19				326	9.31171	0.490179	4.3299	1.41636	9.32845	3.85392
9:54:19				327	9.31171	0.5134378	4.4283	1.4652	9.62149	4.04937
9:54:20				328	9.30976	0.5015669	4.6251	1.4652	9.91453	3.94972
9:54:20				329	9.31469	0.5097472	4.7234	1.41636	9.71917	4.01795
9:54:21				330	9.32542	0.6239943	4.9202	1.4652	8.74237	4.986
9:54:21				331	9.37907	0.5949439	5.117	1.4652	8.74237	4.73094
9:54:22				332	9.38199	0.5734405	5.3137	1.4652	7.61905	4.54792

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:54:22				333	9.38394	0.610994	5.3137	1.41636	7.76557	4.86694
9:54:23				334	9.3879	0.7065136	5.4121	1.4652	8.25397	5.6857
9:54:23				335	9.39471	0.7166305	5.7073	1.4652	8.00977	5.77194
9:54:24				336	9.39471	0.6891712	5.8056	1.4652	7.13065	5.53512
9:54:24				337	9.39277	0.7922803	5.904	1.4652	6.88645	6.42869
9:54:25				338	9.38498	0.7519617	6.0024	1.41636	7.03297	6.07941
9:54:25				339	9.38297	0.6928651	6.0024	1.41636	6.78877	5.56873
9:54:26				340	9.38984	0.7187179	6.1008	1.41636	6.83761	5.79072
9:54:26				341	9.39471	0.8517287	6.1008	1.4652	6.93529	6.94809
9:54:27				342	9.39666	0.8713338	6.2976	1.41636	6.93529	7.11982
9:54:27				343	9.35082	0.8300351	6.4943	1.4652	6.73993	6.76625
9:54:28				344	9.35277	0.7940478	6.4943	1.4652	6.15385	6.45121
9:54:28				345	9.37907	0.8210388	6.3959	1.4652	6.10501	6.68222
9:54:29				346	9.38498	0.768667	6.2976	1.41636	6.25153	6.22447
9:54:29				347	9.39374	0.8057743	6.2976	1.41636	6.39805	6.54616
9:54:30				348	9.3879	0.8666729	6.2976	1.4652	7.08181	7.0806
9:54:30				349	9.37225	0.8698862	6.4943	1.4652	7.22833	7.11191
9:54:31				350	9.34491	0.8960835	6.4943	1.41636	6.44689	7.34818
9:54:31				351	9.36738	0.8528531	6.6911	1.4652	6.30037	6.96319
9:54:32				352	9.37615	0.8531739	6.5927	1.4652	5.76313	6.96431
9:54:32				353	9.3703	0.832606	6.4943	1.4652	6.05617	6.7851
9:54:33				354	9.37128	0.8199135	6.4943	1.41636	6.54457	6.67382
9:54:33				355	9.35764	0.8340535	6.5927	1.4652	6.83761	6.80017
9:54:34				356	9.35374	0.8520495	6.6911	1.4652	6.10501	6.95878
9:54:34				357	9.35472	0.8350165	6.6911	1.4652	5.56777	6.80915
9:54:35				358	9.35861	0.8314811	6.5927	1.41636	5.42125	6.77744
9:54:35				359	9.36446	0.8287506	6.3959	1.4652	6.10501	6.75245
9:54:36				360	9.36446	0.8444966	6.4943	1.4652	6.25153	6.89044
9:54:36				361	9.36836	0.9034758	6.4943	1.4652	6.39805	7.40859
9:54:37				362	9.46297	0.8981726	6.6911	1.41636	5.76313	7.34242
9:54:37				363	9.5029	0.8673157	6.7895	1.4652	4.6398	7.06356
9:54:38				364	9.47561	0.8523698	6.6911	1.4652	4.54212	6.93802
9:54:39				367	9.40512	0.9039825	6.4943	1.4652	6.00733	7.40548
9:54:40				368	9.4967	0.9049461	6.5927	1.4652	5.95849	7.3951
9:54:40				369	9.57165	0.8797121	6.6911	1.4652	5.37241	7.15854
9:54:41				370	9.56291	0.8930511	6.6911	1.41636	4.78632	7.27715
9:54:41				371	9.50545	0.8989988	6.6911	1.41636	5.42125	7.34102
9:54:42				372	9.5269	0.9052674	6.5927	1.4652	5.81197	7.39172
9:54:42				373	9.59696	0.9046245	6.5927	1.4652	6.15385	7.37172
9:54:43				374	9.62517	0.9031779	6.6911	1.41636	5.32357	7.35327
9:54:43				375	9.64554	0.8991597	6.5927	1.4652	4.98168	7.31395
9:54:44				376	9.63972	0.8911224	6.5927	1.4652	4.83516	7.2448
9:54:44				377	9.55999	0.9020533	6.5927	1.4652	5.22589	7.35672
9:54:45				378	9.55611	0.9284137	6.5927	1.4652	5.76313	7.58919
9:54:45				379	9.6844	0.9403096	6.8878	1.41636	5.07937	7.66658
9:54:46				380	9.77179	0.9210184	6.9862	1.41636	3.80952	7.47925

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:54:46				381	9.72814	0.9203759	6.9862	1.4652	3.32112	7.48267
9:54:47				382	9.66113	0.9055884	6.9862	1.41636	3.4188	7.36701
9:54:47				383	9.64166	0.9208581	6.9862	1.4652	3.46764	7.50484
9:54:48				384	9.67179	0.9350049	6.8878	1.4652	3.4188	7.62268
9:54:48				385	9.77857	0.9407909	6.9862	1.41636	3.51648	7.65082
9:54:49				386	9.82509	0.9234292	6.9862	1.4652	3.56532	7.48928
9:54:49				387	9.82702	0.931629	6.9862	1.4652	3.51648	7.56049
9:54:50				388	9.82606	0.940469	6.9862	1.4652	3.51648	7.63797
9:54:50				389	9.84837	0.9594386	7.0846	1.41636	3.32112	7.79919
9:54:51				390	9.89387	0.9550985	7.2814	1.41636	3.56532	7.75142
9:54:51				391	9.91616	0.9740707	7.2814	1.4652	3.32112	7.91254
9:54:52				392	9.9152	1.0030117	7.3798	1.4652	3.27228	8.16636
9:54:52				393	9.90257	1.0290633	7.4781	1.41636	3.12576	8.39816
9:54:53				394	9.82606	1.0292244	7.6749	1.41636	3.36996	8.41732
9:54:53				395	9.66985	1.0184515	7.6749	1.4652	3.56532	8.35843
9:54:54				396	9.56679	1.0170038	7.6749	1.4652	3.71184	8.36952
9:54:54				397	9.55805	1.0678243	7.7733	1.4652	3.76068	8.82356
9:54:55				398	9.30555	1.2461043	7.9701	1.41636	3.71184	10.49841
9:54:55				399	9.00009	1.1263801	8.0684	1.41636	5.03053	9.4935
9:54:56				400	9.05993	1.1857534	7.9701	1.41636	5.42125	10.01837
9:54:56				401	9.08048	1.2327464	7.9701	1.4652	4.93284	10.44223
9:54:57				402	8.95005	1.7627529	8.1668	1.4652	5.07937	15.44681
9:54:57				403	8.65281	1.9859721	8.462	1.4652	5.47009	17.73723
9:54:58				404	8.39379	1.8416079	8.6587	1.41636	4.05372	16.45648
9:54:58				405	8.38094	1.7177753	8.5604	1.4652	3.07692	15.26135
9:54:59				406	8.50267	1.8282211	8.5604	1.4652	2.78388	16.27604
9:54:59				407	8.54811	1.7488903	8.5604	1.4652	3.12576	15.48888
9:55:00				408	8.44825	1.7724295	8.6587	1.4652	4.24908	15.76027
9:55:00				409	8.37006	1.8166121	8.6587	1.4652	4.73748	16.22428
9:55:01				410	8.35813	1.7234174	8.6587	1.41636	3.07692	15.32575
9:55:01				411	8.43541	1.6437861	8.462	1.4652	2.97924	14.52567
9:55:02				412	8.46609	2.117967	8.462	1.41636	4.10256	19.12871
9:55:02				413	8.30465	2.2550129	8.6587	1.4652	4.05372	20.57992
9:55:03				414	8.0791	2.1702645	8.7571	1.4652	2.39316	19.86238
9:55:03				415	8.08611	2.0635843	8.6587	1.41636	1.75824	18.79442
9:55:04				416	8.17257	1.9422563	8.462	1.41636	1.85592	17.54883
9:55:04				417	8.21433	2.1833386	8.462	1.41636	2.39316	19.91657
9:55:05				418	8.13382	2.3338083	8.6587	1.41636	2.442	21.47242
9:55:05				419	7.84886	2.2277317	8.7571	1.4652	1.9536	20.57294
9:55:06				420	7.83784	2.1820483	8.5604	1.51404	1.7094	20.11839
9:55:06				421	7.93768	2.2030341	8.462	1.4652	1.7094	20.27219
9:55:07				422	7.92866	2.3175016	8.5604	1.41636	2.10012	21.43315
9:55:07				423	7.78692	2.3195995	8.6587	1.4652	1.80708	21.54146
9:55:08				424	7.67786	2.248398	8.7571	1.4652	1.75824	20.88381
9:55:08				425	7.7699	2.2475918	8.5604	1.4652	1.7094	20.82071
9:55:09				426	7.84786	2.2115894	8.462	1.4652	1.85592	20.4106

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:55:09				427	7.8658	2.3360696	8.462	1.4652	2.05128	21.66018
9:55:10				428	7.7379	2.3236371	8.7571	1.4652	1.80708	21.6128
9:55:10				429	7.58969	2.2763314	8.7571	1.41636	1.80708	21.22153
9:55:11				430	7.63982	2.2627672	8.5604	1.4652	1.66056	21.05292
9:55:11				431	7.68685	2.2656733	8.462	1.4652	1.80708	21.05413
9:55:12				432	7.68385	2.3070058	8.5604	1.4652	1.85592	21.47676
9:55:12				433	7.63076	2.2879531	8.6587	1.4652	1.75824	21.31505
9:55:13				434	7.61676	2.2742312	8.6587	1.4652	1.9536	21.18366
9:55:13				435	7.64182	2.2947368	8.5604	1.4652	1.9536	21.37749
9:55:14				436	7.63076	2.3291286	8.5604	1.41636	2.00244	21.73547
9:55:14				437	7.55661	2.3654619	8.7571	1.41636	1.80708	22.15422
9:55:15				438	7.47029	2.3312283	8.7571	1.41636	1.66056	21.8574
9:55:15				439	7.47329	2.3291298	8.6587	1.4652	1.61172	21.834
9:55:16				440	7.52952	2.3231537	8.5604	1.4652	1.85592	21.73751
9:55:16				441	7.51944	2.4026072	8.5604	1.4652	1.90476	22.55992
9:55:17				442	7.39991	2.4764196	8.7571	1.4652	1.85592	23.40139
9:55:17				443	7.22171	2.4347495	8.9539	1.41636	1.75824	23.08815
9:55:18				444	7.17731	2.5051763	8.9539	1.41636	1.75824	23.85243
9:55:18				445	7.06724	2.7737351	9.1506	1.4652	1.66056	26.76287
9:55:19				446	6.68105	2.7205663	9.3474	1.41636	1.66056	26.49444
9:55:19				447	6.52633	2.8167373	9.5442	1.4652	1.17216	27.65214
9:55:20				448	6.36411	2.7640445	9.6426	1.4652	1.02564	27.21185
9:55:20				449	6.32014	2.836785	9.7409	1.4652	1.02564	28.03789
9:55:21				450	6.17996	2.8396961	9.8393	1.41636	0.9768	28.18543
9:55:21				451	6.08562	2.844061	10.1345	1.41636	0.9768	28.3116
9:55:22				452	6.04966	2.8479394	10.4296	1.41636	0.9768	28.3841
9:55:22				453	5.99831	2.8422844	10.4296	1.41636	0.9768	28.36491
9:55:23				454	6.02296	2.8458396	10.4296	1.4652	0.9768	28.38337
9:55:23				455	5.99831	2.858934	10.6264	1.4652	0.9768	28.54805
9:55:24				456	5.96339	2.869118	10.8232	1.4652	0.9768	28.68967
9:55:24				457	5.94179	2.8634601	10.9215	1.41636	0.9768	28.64552
9:55:25				458	5.93872	2.8560257	11.0199	1.4652	0.9768	28.56608
9:55:25				459	5.96237	2.8600655	10.9215	1.4652	0.9768	28.5907
9:55:26				460	5.96134	2.8642693	10.9215	1.41636	0.9768	28.6379
9:55:26				461	5.95102	2.8600656	11.0199	1.4652	0.9768	28.60024
9:55:27				462	5.95102	2.8571561	10.9215	1.4652	0.9768	28.5682
9:55:27				463	5.96544	2.8548919	10.9215	1.4652	0.9768	28.53109
9:55:28				464	5.97262	2.8553781	10.9215	1.4652	0.9768	28.5304
9:55:28				465	5.96749	2.8671787	11.0199	1.4652	0.9768	28.66473
9:55:29				466	5.95929	2.8565087	11.1183	1.4652	1.07448	28.55401
9:55:29				467	5.96032	2.8558644	10.9215	1.41636	0.9768	28.54613
9:55:30				468	5.96647	2.8594209	11.0199	1.41636	0.92796	28.58009
9:55:30				469	5.97057	2.8569949	11.0199	1.4652	0.9768	28.5499
9:55:31				470	5.96954	2.8581257	11.0199	1.41636	0.9768	28.56322
9:55:31				471	5.96647	2.857156	11.0199	1.4652	1.02564	28.55513
9:55:32				472	5.96339	2.8579646	10.9215	1.4652	0.9768	28.56668

Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:55:32				473	5.95929	2.8594209	10.8232	1.4652	1.02564	28.58623
9:55:33				474	5.96237	2.8579646	10.8232	1.41636	0.9768	28.56759
9:55:33				475	5.95724	2.8597432	10.8232	1.4652	0.9768	28.59152
9:55:34				476	5.95929	2.8603909	10.7248	1.4652	0.9768	28.59697
9:55:34				477	5.96339	2.8608743	10.6264	1.41636	0.9768	28.59888
9:55:35				478	5.96237	2.8600654	10.528	1.4652	0.9768	28.59087
9:55:35				479	5.96339	2.8590954	10.528	1.4652	0.9768	28.57931
9:55:36				480	5.95519	2.8587732	10.4296	1.4652	0.9768	28.58273
9:55:36				481	5.94487	2.8566697	10.4296	1.4652	1.07448	28.56825
9:55:37				482	5.94077	2.8571561	10.4296	1.4652	1.02564	28.57708
9:55:37				483	5.94179	2.8537618	10.3312	1.4652	1.02564	28.53883
9:55:38				484	5.94384	2.8524676	10.0361	1.41636	1.12332	28.52296
9:55:39				487	5.96359	2.8487822	9.8393	1.4652	0.9768	28.46582
9:55:40				488	5.95436	2.8419947	9.6426	1.4652	0.9768	28.3989
9:55:40				489	5.98313	2.8400537	9.4458	1.4652	0.9768	28.35351
9:55:41				490	6.02418	2.8208169	9.249	1.4652	1.12332	28.10794
9:55:41				491	6.06732	2.8258276	9.0523	1.41636	1.07448	28.12725
9:55:42				492	6.1422	2.783318	8.9539	1.4652	1.02564	27.60054
9:55:42				493	6.19037	2.7498621	8.7571	1.4652	0.9768	27.19694
9:55:43				494	6.31931	2.6566141	8.5604	1.41636	1.02564	26.08503
9:55:43				495	6.50409	2.5407701	8.462	1.4652	1.61172	24.70384
9:55:44				496	6.72187	2.4522497	8.1668	1.4652	1.26984	23.61043
9:55:44				497	6.99258	2.4033112	8.0684	1.4652	1.31868	22.91327
9:55:45				498	7.16032	2.3813477	7.8717	1.4652	1.51404	22.574
9:55:45				499	7.3437	2.3773071	7.6749	1.4652	1.51404	22.41309
9:55:46				500	7.49953	2.1929302	7.5765	1.4652	1.66056	20.42558
9:55:46				501	7.69397	2.2369982	7.3798	1.41636	1.90476	20.75883
9:55:47				502	7.92281	2.1800158	7.183	1.41636	2.10012	20.04959
9:55:47				503	7.79902	2.1233638	7.183	1.4652	2.24664	19.54985
9:55:48				504	7.80998	1.9929867	6.9862	1.4652	2.83272	18.23735
9:55:48				505	7.99357	1.8407226	6.6911	1.4652	3.27228	16.63649
9:55:49				506	8.11602	1.4144587	6.6911	1.4652	4.10256	12.45287
9:55:49				507	8.26702	1.4587488	6.5927	1.4652	5.03053	12.821
9:55:50				508	8.38001	1.4469922	6.5927	1.41636	5.66545	12.66835
9:55:50				509	8.45029	1.2850048	6.2976	1.4652	5.37241	11.11762
9:55:51				510	8.62129	1.2119333	6.1992	1.4652	4.98168	10.38521
9:55:51				511	8.80064	1.1818416	6.1008	1.41636	4.00488	10.05587
9:55:52				512	8.83901	1.1255278	5.904	1.4652	3.80952	9.52906
9:55:52				513	8.90194	1.1269762	5.8056	1.4652	3.71184	9.52545
9:55:53				514	9.06587	1.0227499	5.7073	1.4652	4.20024	8.5392
9:55:53				515	9.28898	1.0835417	5.6089	1.41636	4.20024	9.03145
9:55:54				516	9.35246	1.0224279	5.4121	1.41636	4.1514	8.46827
9:55:54				517	9.4685	0.9799772	5.2153	1.4652	4.3956	8.06388
9:55:55				518	9.49378	0.947503	5.2153	1.41636	4.78632	7.77095
9:55:55				519	9.51815	0.9552195	5.0186	1.4652	4.44444	7.83384
9:55:56				520	9.51621	0.9198544	4.9202	1.4652	4.59096	7.52242

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:55:56				521	9.52398	0.8676224	4.9202	1.4652	5.03053	7.06231
9:55:57				522	9.47433	0.9116572	4.8218	1.41636	5.61661	7.45898
9:55:57				523	9.47044	0.890281	4.7234	1.4652	5.61661	7.27174
9:55:58				524	9.44314	0.848179	4.6251	1.4652	5.71429	6.90781
9:55:58				525	9.42368	0.8359677	4.5267	1.41636	6.05617	6.80464
9:55:59				526	9.41875	0.8525164	4.5267	1.41636	6.25153	6.95052
9:55:59				527	9.4168	0.792429	4.4283	1.4652	6.39805	6.42583
9:56:00				528	9.41096	0.755163	4.2315	1.4652	6.49573	6.10295
9:56:00				529	9.40512	0.7770076	4.0348	1.4652	6.69109	6.29371
9:56:01				530	9.39928	0.7739558	4.0348	1.4652	6.64225	6.2682
9:56:01				531	9.39733	0.7763651	3.838	1.4652	6.59341	6.28951
9:56:02				532	9.3983	0.7739558	3.7396	1.41636	6.88645	6.26839
9:56:02				533	9.39441	0.7533966	3.7396	1.4652	7.17949	6.09048
9:56:03				534	9.39441	0.7435998	3.6412	1.4652	7.03297	6.00553
9:56:03				535	9.39441	0.7378186	3.4445	1.4652	7.32601	5.95546
9:56:04				536	9.38954	0.6837039	3.4445	1.4652	7.61905	5.48906
9:56:04				537	9.39051	0.6862737	3.3461	1.4652	8.20513	5.51103
9:56:05				538	9.38954	0.688039	3.2477	1.4652	8.00977	5.52639
9:56:05				539	9.38558	0.6678107	3.1493	1.41636	7.86325	5.35305
9:56:06				540	9.38071	0.6660438	3.1493	1.41636	8.35165	5.3386
9:56:06				541	9.37487	0.6063329	3.0509	1.4652	7.91209	4.82861
9:56:07				542	9.35636	0.5649322	2.8542	1.41636	8.93773	4.47919
9:56:07				543	9.34948	0.5617234	2.7558	1.4652	9.03541	4.45286
9:56:08				544	9.33876	0.5310798	2.6574	1.4652	9.03541	4.19507
9:56:08				545	9.33389	0.5014041	2.559	1.4652	9.32845	3.94583
9:56:09				546	9.31829	0.4755831	2.559	1.4652	9.47497	3.73106
9:56:09				547	9.3036	0.5113496	2.559	1.4652	10.25641	4.03282
9:56:10				548	9.3075	0.4969136	2.4606	1.4652	9.27961	3.91101
9:56:10				549	9.30068	0.4685266	2.4606	1.41636	9.57265	3.67387
9:56:11				550	9.29093	0.4730177	2.559	1.41636	10.30525	3.71243
9:56:11				551	9.28995	0.4686879	2.559	1.4652	9.47497	3.67631
9:56:12				552	9.28507	0.4699702	2.3623	1.51404	9.81685	3.68754
9:56:12				553	9.28312	0.4672437	2.1655	1.51404	10.30525	3.66495
9:56:13				554	9.2802	0.4674048	2.2639	1.4652	9.86569	3.66659
9:56:13				555	9.28215	0.439504	2.2639	1.4652	9.47497	3.43362
9:56:14				556	9.25575	0.4260369	2.1655	1.41636	9.37729	3.32413
9:56:14				557	9.24403	0.4425508	2.0671	1.4652	9.76801	3.46267
9:56:15				558	9.24794	0.4417489	1.9687	1.4652	10.20757	3.45562
9:56:15				559	9.25672	0.4555381	1.9687	1.41636	9.96337	3.56979
9:56:16				560	9.26843	0.4367792	1.9687	1.4652	10.98901	3.41227
9:56:16				561	9.24202	0.4414282	1.8703	1.4652	10.40293	3.45352
9:56:17				562	9.23031	0.4508874	1.8703	1.4652	10.84249	3.53357
9:56:17				563	9.23519	0.4294031	1.9687	1.4652	10.89133	3.35404
9:56:18				564	9.22152	0.4281207	1.8703	1.4652	10.50061	3.34465
9:56:18				565	9.17947	0.4311677	1.772	1.4652	10.54945	3.37396
9:56:19				566	9.19314	0.4199439	1.772	1.41636	11.52625	3.27927

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:56:19				567	9.19607	0.4069597	1.772	1.41636	10.40293	3.17121
9:56:20				568	9.17654	0.41225	1.6736	1.4652	10.30525	3.21685
9:56:20				569	9.18338	0.4329308	1.5752	1.4652	10.30525	3.3883
9:56:21				570	9.19705	0.4050359	1.5752	1.4652	9.67033	3.15518
9:56:21				571	9.18533	0.4043947	1.4768	1.4652	10.30525	3.1509
9:56:22				572	9.16866	0.3986239	1.3784	1.4652	10.40293	3.10453
9:56:22				573	9.16866	0.4003883	1.3784	1.41636	11.03785	3.11915
9:56:23				574	9.15693	0.4138527	1.4768	1.4652	10.64713	3.23194
9:56:23				575	9.16768	0.3511857	1.3784	1.4652	11.03785	2.71344
9:56:24	09:55:09 continue tran	10.0	180	576	9.17061	0.3798711	1.3784	1.41636	12.01465	2.94929
9:56:24				577	9.15889	0.3840381	1.3784	1.41636	10.94017	2.98467
9:56:25				578	9.15987	0.3457368	1.3784	1.4652	11.28205	2.66934
9:56:25				579	9.11484	0.350704	1.3784	1.4652	12.16117	2.71348
9:56:26				580	9.08544	0.3614409	1.4768	1.4652	11.03785	2.8041
9:56:26				581	9.08152	0.3441346	1.4768	1.4652	10.79365	2.66201
9:56:27				582	9.07467	0.3484612	1.4768	1.4652	11.03785	2.69807
9:56:27				583	9.06587	0.3672099	1.4768	1.41636	10.94017	2.85323
9:56:28				584	9.08935	0.3614409	1.3784	1.4652	11.81929	2.8038
9:56:28				585	9.09717	0.3630433	1.3784	1.4652	13.18681	2.81639
9:56:29				586	9.08641	0.3616011	1.3784	1.41636	11.72161	2.80535
9:56:29				587	9.08348	0.3483009	1.4768	1.4652	11.28205	2.69609
9:56:30				588	9.06782	0.3553519	1.4768	1.4652	10.79365	2.7553
9:56:30				589	9.05602	0.3627228	1.4768	1.4652	11.33089	2.81698
9:56:31				590	9.06782	0.3968615	1.4768	1.41636	11.91697	3.09863
9:56:31				591	9.08054	0.3795501	1.3784	1.4652	11.72161	2.95405
9:56:32				592	9.10506	0.3731402	1.4768	1.4652	10.98901	2.89906
9:56:32				593	9.11288	0.3787494	1.4768	1.41636	11.37973	2.94476
9:56:33				594	9.10017	0.3734599	1.4768	1.4652	11.23321	2.90209
9:56:33				595	9.10115	0.3726592	1.3784	1.4652	11.72161	2.89541
9:56:34				596	9.09424	0.3680123	1.4768	1.41636	11.33089	2.8576
9:56:34				597	9.08348	0.3739412	1.3784	1.4652	11.42857	2.90743
9:56:35				598	9.10115	0.3646459	1.3784	1.4652	11.08669	2.82929
9:56:35				599	9.09717	0.3622419	1.4768	1.4652	10.89133	2.80978
9:56:36				600	9.08641	0.3237864	1.4768	1.4652	11.77045	2.49493
9:56:36				601	9.04525	0.3311567	1.4768	1.4652	11.42857	2.55816
9:56:37				602	9.00407	0.3116107	1.3784	1.4652	11.37973	2.40105
9:56:37				603	8.95691	0.2936687	1.3784	1.4652	12.01465	2.25775
9:56:38				604	8.91764	0.2891851	1.3784	1.4652	12.35653	2.22369
9:56:39				607	8.88827	0.2833667	1.3784	1.41636	12.74725	2.17812
9:56:40				608	8.87748	0.2836862	1.3784	1.4652	13.18681	2.18138
9:56:40				609	8.87453	0.2841663	1.3784	1.4652	13.13797	2.18547
9:56:41				610	8.87551	0.2883305	1.3784	1.4652	12.84493	2.21934
9:56:41				611	8.8814	0.2857682	1.3784	1.4652	12.55189	2.19809
9:56:42				612	8.88729	0.2811238	1.3784	1.4652	12.74725	2.15993
9:56:42				613	8.87551	0.2816045	1.3784	1.41636	12.64957	2.16455
9:56:43				614	8.87551	0.2811238	1.3784	1.4652	12.99145	2.16064

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:56:43				615	8.87061	0.2833667	1.3784	1.4652	12.94261	2.17919
9:56:44				616	8.8657	0.2788818	1.3784	1.4652	12.79609	2.14298
9:56:44				617	8.86374	0.2801631	1.3784	1.4652	13.62637	2.15353
9:56:45				618	8.8657	0.281925	1.3784	1.4652	13.08913	2.16775
9:56:45				619	8.87061	0.2803232	1.3784	1.41636	12.74725	2.15442
9:56:46				620	8.87649	0.2782422	1.3784	1.4652	12.99145	2.13714
9:56:46				621	8.8657	0.2752	1.3784	1.4652	13.08913	2.11304
9:56:47				622	8.84895	0.2742392	1.3784	1.4652	13.52869	2.10622
9:56:47				623	8.846	0.2737583	1.3784	1.4652	13.18681	2.10248
9:56:48				624	8.84993	0.2792031	1.3784	1.4652	13.18681	2.14654
9:56:48				625	8.85582	0.2846465	1.4768	1.4652	13.28449	2.19052
9:56:49				626	8.86177	0.281284	1.4768	1.4652	13.04029	2.16277
9:56:49				627	8.85189	0.2830459	1.3784	1.4652	13.28449	2.17772
9:56:50				628	8.8568	0.2822456	1.3784	1.4652	13.23565	2.1709
9:56:50				629	8.86472	0.277121	1.3784	1.41636	13.47985	2.12872
9:56:51				630	8.85484	0.2758396	1.3784	1.4652	12.74725	2.11889
9:56:51				631	8.84208	0.2732776	1.3784	1.41636	13.13797	2.09881
9:56:52				632	8.83029	0.272797	1.4768	1.41636	13.04029	2.09559
9:56:52				633	8.83324	0.2707161	1.3784	1.4652	12.84493	2.0785
9:56:53				634	8.83128	0.2711959	1.3784	1.4652	13.38217	2.08252
9:56:53				635	8.82833	0.2716773	1.3784	1.4652	12.94261	2.0866
9:56:54				636	8.82538	0.2700761	1.3784	1.4652	12.69841	2.07376
9:56:54				637	8.82538	0.269435	1.3784	1.51404	12.94261	2.06855
9:56:55				638	8.82637	0.2691146	1.3784	1.4652	13.08913	2.06589
9:56:55				639	8.82538	0.268474	1.3784	1.41636	13.18681	2.06074
9:56:56				640	8.82342	0.268474	1.3784	1.4652	12.94261	2.06086
9:56:56				641	8.82342	0.2687943	1.3784	1.4652	12.99145	2.06346
9:56:57				642	8.82735	0.2689544	1.3784	1.41636	13.28449	2.06453
9:56:57				643	8.82833	0.271997	1.4768	1.4652	13.28449	2.0892
9:56:58				644	8.83029	0.2710369	1.4768	1.41636	13.38217	2.08128
9:56:58				645	8.82735	0.2691146	1.4768	1.41636	13.23565	2.06583
9:56:59				646	8.82047	0.2671936	1.3784	1.4652	12.94261	2.05063
9:56:59				647	8.81255	0.2660729	1.3784	1.4652	13.13797	2.04198
9:57:00				648	8.80568	0.2687943	1.4768	1.4652	13.13797	2.06448
9:57:00				649	8.80371	0.2689544	1.3784	1.4652	13.43101	2.0659
9:57:01				650	8.79782	0.2694351	1.3784	1.4652	13.52869	2.07015
9:57:01				651	8.80273	0.2705557	1.3784	1.4652	13.13797	2.07898
9:57:02				652	8.80764	0.2740784	1.4768	1.41636	13.28449	2.10734
9:57:02				653	8.80961	0.2766405	1.4768	1.4652	13.18681	2.12809
9:57:03				654	8.81157	0.2780825	1.3784	1.4652	13.18681	2.13972
9:57:03				655	8.82342	0.2764809	1.4768	1.41636	13.38217	2.12597
9:57:04				656	8.83128	0.2761602	1.3784	1.4652	13.72405	2.12289
9:57:04				657	8.83717	0.2768002	1.3784	1.41636	13.38217	2.12775
9:57:05				658	8.8352	0.2779212	1.3784	1.41636	13.08913	2.13699
9:57:05				659	8.83619	0.2769613	1.3784	1.41636	12.69841	2.12912
9:57:06				660	8.84208	0.2788818	1.3784	1.4652	13.33333	2.1444

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:57:06				661	8.84895	0.2776016	1.3784	1.4652	13.38217	2.13357
9:57:07				662	8.84895	0.2776016	1.3784	1.4652	13.43101	2.13357
9:57:07				663	8.85288	0.2801631	1.4768	1.4652	13.47985	2.15418
9:57:08				664	8.86079	0.281925	1.3784	1.51404	13.87057	2.16805
9:57:08				665	8.86177	0.2841663	1.3784	1.4652	13.04029	2.18625
9:57:09				666	8.8657	0.2817647	1.3784	1.4652	13.33333	2.16645
9:57:09				667	8.86766	0.2833667	1.4768	1.4652	12.94261	2.17937
9:57:10				668	8.8657	0.2832063	1.4768	1.41636	12.79609	2.17818
9:57:10				669	8.86668	0.2828855	1.4768	1.4652	13.23565	2.17551
9:57:11				670	8.86472	0.2825648	1.3784	1.4652	13.43101	2.17302
9:57:11				671	8.8657	0.2830459	1.3784	1.41636	12.89377	2.17688
9:57:12				672	8.8657	0.2830459	1.4768	1.4652	12.99145	2.17688
9:57:12				673	8.86472	0.2808035	1.3784	1.4652	13.28449	2.15868
9:57:13				674	8.85981	0.279843	1.3784	1.41636	12.94261	2.15116
9:57:13				675	8.85386	0.2792031	1.3784	1.41636	13.18681	2.14631
9:57:14				676	8.84993	0.2782423	1.4768	1.4652	13.18681	2.13872
9:57:14				677	8.84797	0.2780824	1.3784	1.4652	12.89377	2.13754
9:57:15				678	8.84208	0.2764809	1.4768	1.4652	12.89377	2.12486
9:57:15				679	8.83422	0.2748797	1.3784	1.4652	13.18681	2.1123
9:57:16				680	8.82637	0.2753596	1.4768	1.4652	13.43101	2.11666
9:57:16				681	8.82342	0.278562	1.3784	1.4652	13.18681	2.14291
9:57:17				682	8.83422	0.2803232	1.3784	1.4652	13.23565	2.15661
9:57:17				683	8.83717	0.2825648	1.3784	1.4652	13.33333	2.1747
9:57:18				684	8.84993	0.2865691	1.4768	1.4652	12.99145	2.20656
9:57:18				685	8.8657	0.2900912	1.3784	1.4652	13.18681	2.23431
9:57:19				686	8.87257	0.2912129	1.3784	1.4652	12.89377	2.24303
9:57:19				687	8.87551	0.2952161	1.3784	1.41636	12.99145	2.27553
9:57:20				688	8.87453	0.2936149	1.4768	1.4652	12.84493	2.26251
9:57:20				689	8.8814	0.2971388	1.4768	1.41636	12.89377	2.29085
9:57:21				690	8.89416	0.3005019	1.3784	1.41636	13.08913	2.31752
9:57:21				691	8.89912	0.2980997	1.3784	1.4652	12.89377	2.29757
9:57:22				692	8.8971	0.2966572	1.4768	1.4652	12.89377	2.28592
9:57:22				693	8.8971	0.297298	1.3784	1.41636	12.64957	2.29115
9:57:23				694	8.89219	0.298259	1.3784	1.4652	13.08913	2.29932
9:57:23				695	8.89814	0.2966572	1.3784	1.4652	12.94261	2.28585
9:57:24				696	8.89612	0.2915327	1.4768	1.4652	12.74725	2.24416
9:57:24				697	8.87944	0.2916927	1.4768	1.4652	12.84493	2.24651
9:57:25				698	8.87846	0.2912129	1.4768	1.4652	12.64957	2.24266
9:57:25				699	8.87159	0.2897717	1.3784	1.4652	13.38217	2.23134
9:57:26				700	8.86864	0.2880099	1.3784	1.4652	12.94261	2.21715
9:57:26				701	8.86864	0.286249	1.4768	1.4652	13.08913	2.20279
9:57:27				702	8.86472	0.2849677	1.3784	1.4652	12.89377	2.1926
9:57:27				703	8.86079	0.279523	1.3784	1.41636	12.94261	2.1485
9:57:28				704	8.84699	0.2752001	1.4768	1.4652	12.89377	2.11415
9:57:28				705	8.8352	0.2750392	1.4768	1.4652	12.99145	2.11353
9:57:29				706	8.83619	0.2758396	1.4768	1.41636	13.08913	2.11999

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
9:57:29				707	8.83619	0.2739191	1.3784	1.4652	13.57753	2.10437
9:57:30				708	8.83128	0.2723166	1.3784	1.4652	13.62637	2.09163
9:57:30				709	8.82342	0.2729577	1.2801	1.4652	13.38217	2.0973
9:57:31				710	8.82342	0.2716774	1.4768	1.4652	13.91941	2.08689
9:57:31				711	8.82244	0.2687943	1.3784	1.4652	13.38217	2.06352
9:57:32				712	8.81452	0.2705557	1.2801	1.41636	13.08913	2.07829
9:57:32				713	8.81157	0.2700761	1.0833	1.4652	12.99145	2.07457
9:57:33				714	8.81059	0.2673536	1.0833	1.4652	12.74725	2.0525
9:57:33				715	8.80666	0.268474	0.9849	1.4652	13.18681	2.06184
9:57:34				716	8.80175	0.2652725	0.9849	1.4652	12.99145	2.03611
9:57:34				717	8.79192	0.2659131	0.8865	1.4652	13.52869	2.04188
9:57:35				718	8.78308	0.2659131	0.8865	1.4652	14.06593	2.04238
9:57:35				719	8.78111	0.2659131	0.8865	1.4652	13.33333	2.04249
9:57:36				720	8.78111	0.2657533	0.8865	1.4652	13.08913	2.04119
9:57:36				721	8.78007	0.2659131	0.7881	1.4652	13.38217	2.04256
9:57:37				722	8.78111	0.2659131	0.6898	1.4652	13.04029	2.0425
9:57:37				723	8.78406	0.2657532	0.5914	1.41636	19.3895	2.04104
9:57:38	09:56:13 end transect	10.0	270	724	8.79094	0.2475011	0.3946	1.66056	4.83516	1.89272
9:57:39				727	8.86778	0.2657432	0.493	1.4652	2.78388	2.03618
9:57:40				728	8.89238	0.2657432	0.493	1.4652	2.63736	2.03478
9:57:40				729	8.92186	0.2657431	0.5914	1.4652	2.49084	2.03311
9:57:41				730	8.96408	0.1695544	0.6898	1.4652	2.49084	1.26402
9:57:41				731	9.02879	0.0456297	0.6898	1.41636	2.39316	0.32061
9:57:42				732	9.10818	0.0798352	0.6898	1.41636	2.49084	0.57207
9:57:42				733	9.17672	0.0697642	0.6898	0	0	0.49617
9:57:43				734	9.24123	0.0331646	0.6898	0	0	0.22929
9:57:43				735	9.30281	0.1618754	0.6898	0	0	1.19263
9:57:44				736	9.34381	0.0240556	0.6898	0	0	0.16443
9:57:44				737	9.39064	0.0261328	0.6898	0	0	0.17877
9:57:45				738	9.43256	0.0234168	0.6898	0	0	0.1596
9:57:45	09:56:30 switch off	10.0	270	739	9.46959	0.0219788	0.6898	0	0	0.14945
	start dye 09:57:15									
10:03:36	10:02:10 switch on	10.0	270	7	8.90648	0.2741114	1.1817	0	0	2.10181
10:03:37				8	8.90942	0.2808367	1.2801	0	0	2.15626
10:03:37				9	8.90256	0.2749112	1.1817	0	0	2.10853
10:03:38				10	8.89759	0.2734698	1.2801	0	0	2.09712
10:03:38				11	8.89072	0.281157	1.2801	0	0	2.15999
10:03:39				12	8.88582	0.2741114	1.2801	0	0	2.10302
10:03:39				13	8.89857	0.2757116	1.2801	0	0	2.11526
10:03:40				14	8.89563	0.2800362	1.2801	0	0	2.15058
10:03:40				15	8.88778	0.2785951	1.2801	0	0	2.13933
10:03:41				16	8.88974	0.2753926	1.2801	0	0	2.11319
10:03:41				17	8.89661	0.2749113	1.2801	0	0	2.10888
10:03:42				18	8.89366	0.2749113	1.2801	0	0	2.10905
10:03:42				19	8.88876	0.2753926	1.2801	0	0	2.11325
10:03:43				20	8.88582	0.2761932	1.2801	0	0	2.11993

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:03:43				21	8.8868	0.2753926	1.1817	0	0	2.11337
10:03:44				22	8.88974	0.2760322	1.2801	0	0	2.11839
10:03:44				23	8.88974	0.2777945	1.2801	0	0	2.13271
10:03:45				24	8.8868	0.2766735	1.2801	0	0	2.12377
10:03:45				25	8.88582	0.2763528	1.2801	0	0	2.12122
10:03:46				26	8.88974	0.2765124	1.2801	0	0	2.12229
10:03:46				27	8.89563	0.2765124	1.2801	0	0	2.12194
10:03:47				28	8.89072	0.277154	1.2801	0	0	2.12744
10:03:47				29	8.89072	0.277154	1.2801	0	0	2.12744
10:03:48				30	8.89661	0.2768332	1.2801	0	0	2.12449
10:03:48				31	8.90452	0.2773137	1.2801	0	0	2.12792
10:03:49				32	8.90256	0.2776332	1.2801	0	0	2.13063
10:03:49				33	8.89661	0.2776332	1.2801	0	0	2.13099
10:03:50				34	8.89661	0.2776332	1.2801	0	0	2.13099
10:03:50				35	8.89465	0.2774735	1.2801	0	0	2.12981
10:03:51				36	8.89661	0.2777945	1.2801	0	0	2.1323
10:03:51				37	8.89366	0.2777945	1.2801	0	0	2.13247
10:03:52				38	8.89857	0.2777944	1.1817	0	0	2.13219
10:03:52				39	8.89955	0.2777945	1.2801	0	0	2.13212
10:03:53				40	8.90053	0.2777945	1.2801	0	0	2.13206
10:03:53				41	8.90053	0.2777945	1.2801	0	0	2.13206
10:03:54				42	8.89759	0.2776332	1.2801	0	0	2.13093
10:03:54				43	8.89759	0.2779543	1.2801	0	0	2.13354
10:03:55				44	8.89366	0.2777945	1.2801	0	0	2.13247
10:03:55				45	8.89366	0.2776332	1.2801	0	0	2.13116
10:03:56				46	8.89661	0.2779543	1.2801	0	0	2.1336
10:03:56				47	8.89661	0.2781141	1.2801	0	0	2.1349
10:03:57				48	8.89465	0.2777945	1.2801	0	0	2.13242
10:03:57				49	8.89661	0.2779543	1.2801	0	0	2.1336
10:03:58				50	8.89857	0.2781141	1.2801	0	0	2.13478
10:03:58				51	8.90053	0.2779542	1.2801	0	0	2.13336
10:03:59				52	8.89857	0.2781141	1.1817	0	0	2.13478
10:03:59				53	8.89563	0.2781141	1.2801	0	0	2.13495
10:04:00				54	8.89465	0.2782739	1.2801	0	0	2.13631
10:04:00				55	8.89759	0.2779543	1.2801	0	0	2.13354
10:04:01				56	8.89661	0.2781141	1.2801	0	0	2.1349
10:04:01				57	8.89759	0.2782739	1.2801	0	0	2.13614
10:04:02				58	8.89661	0.2782739	1.2801	0	0	2.1362
10:04:02				59	8.89661	0.2782739	1.2801	0	0	2.1362
10:04:03				60	8.89955	0.2782739	1.2801	0	0	2.13602
10:04:03				61	8.89661	0.2782739	1.2801	0	0	2.1362
10:04:04				62	8.89955	0.2785951	1.2801	0	0	2.13863
10:04:04				63	8.89857	0.2790748	1.2801	0	0	2.14259
10:04:05				64	8.90157	0.2785951	1.2801	0	0	2.13851
10:04:05				65	8.90354	0.2784352	1.2801	0	0	2.13709
10:04:06				66	8.90256	0.2789149	1.2801	0	0	2.14105

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:04:06				67	8.89955	0.2800362	1.2801	0	0	2.15034
10:04:07				68	8.90256	0.2797161	1.2801	0	0	2.14756
10:04:07				69	8.90256	0.278755	1.2801	0	0	2.13975
10:04:08				70	8.89857	0.2798762	1.2801	0	0	2.1491
10:04:08				71	8.90256	0.2817979	1.1817	0	0	2.16449
10:04:09				72	8.90452	0.2801963	1.2801	0	0	2.15135
10:04:09				73	8.90746	0.2793947	1.2801	0	0	2.14466
10:04:10				74	8.90746	0.2817979	1.2801	0	0	2.16419
10:04:10				75	8.90648	0.284039	1.2801	0	0	2.18248
10:04:11				76	8.90354	0.2809968	1.2801	0	0	2.15792
10:04:11				77	8.90053	0.2819581	1.2801	0	0	2.16592
10:04:12				78	8.90256	0.2832395	1.2801	0	0	2.17622
10:04:12				79	8.90157	0.284039	1.2801	0	0	2.18278
10:04:13				80	8.89955	0.2817979	1.2801	0	0	2.16467
10:04:13				81	8.90053	0.2827583	1.2801	0	0	2.17243
10:04:14				82	8.90053	0.2841995	1.2801	0	0	2.18415
10:04:14				83	8.90157	0.2824376	1.2801	0	0	2.16975
10:04:15				84	8.89955	0.2816376	1.2801	0	0	2.16337
10:04:15				85	8.89955	0.2835589	1.2801	0	0	2.179
10:04:16				86	8.90354	0.2841995	1.2801	0	0	2.18397
10:04:16				87	8.91138	0.2819581	1.2801	0	0	2.16526
10:04:17				88	8.91531	0.2837194	1.2801	0	0	2.17935
10:04:17				89	8.91727	0.2886844	1.2801	0	0	2.21964
10:04:18				90	8.91825	0.2841995	1.2801	0	0	2.18307
10:04:18				91	8.92021	0.2832395	1.2801	0	0	2.17514
10:04:19				92	8.92119	0.2886844	1.2801	0	0	2.21939
10:04:19				93	8.92609	0.2915662	1.2801	0	0	2.24256
10:04:20				94	8.92805	0.2856407	1.2801	0	0	2.1942
10:04:20				95	8.92805	0.2896453	1.2801	0	0	2.22679
10:04:21				96	8.92707	0.2968527	1.2801	0.58608	0.29304	2.2856
10:04:21				97	8.92707	0.2931679	1.2801	0.39072	0.09768	2.25556
10:04:22				98	8.92413	0.294129	1.2801	1.4652	0.9768	2.26358
10:04:22				99	8.91923	0.2970118	1.1817	1.41636	13.87057	2.28741
10:04:23				100	8.92315	0.297333	1.2801	1.41636	12.40537	2.28977
10:04:23				101	8.92707	0.2915662	1.2801	1.4652	12.25885	2.2425
10:04:24				102	8.92413	0.2965317	1.2801	1.4652	13.04029	2.28317
10:04:24				103	8.92511	0.2950907	1.2801	1.4652	12.69841	2.27136
10:04:25				104	8.92413	0.2960517	1.2801	1.4652	13.18681	2.27926
10:04:25				105	8.92511	0.2957308	1.2801	1.4652	13.08913	2.27658
10:04:26				106	8.92511	0.2957308	1.2801	1.4652	13.08913	2.27658
10:04:26				107	8.92413	0.2949304	1.2801	1.4652	12.16117	2.27011
10:04:27				108	8.92511	0.2949304	1.2801	1.4652	12.84493	2.27005
10:04:27				109	8.92217	0.2933281	1.2801	1.41636	12.69841	2.25717
10:04:28				110	8.92021	0.2936484	1.2801	1.4652	12.50305	2.25991
10:04:28				111	8.91923	0.2926876	1.2801	1.4652	11.96581	2.25213
10:04:29				112	8.91923	0.2928477	1.2801	1.41636	13.08913	2.25344

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:04:29				113	8.91923	0.2914062	1.2801	1.4652	12.94261	2.24169
10:04:30				114	8.91629	0.2920475	1.2801	1.4652	12.06349	2.2471
10:04:30				115	8.91923	0.2915662	1.2801	1.41636	13.28449	2.24299
10:04:31				116	8.9104	0.2907667	1.2801	1.4652	12.94261	2.23703
10:04:31				117	8.90942	0.2904456	1.2801	1.41636	13.28449	2.23447
10:04:32				118	8.91334	0.2878837	1.2801	1.4652	13.38217	2.21336
10:04:32				119	8.91236	0.2891648	1.2801	1.4652	12.94261	2.22386
10:04:33				120	8.90942	0.2896453	1.2801	1.4652	13.13797	2.22795
10:04:33				121	8.90844	0.2894842	1.2801	1.41636	13.23565	2.2267
10:04:34				122	8.90746	0.2878837	1.2801	1.41636	12.89377	2.21372
10:04:34				123	8.90648	0.2851601	1.2801	1.4652	12.89377	2.19161
10:04:35				124	8.9055	0.2848403	1.2801	1.4652	13.28449	2.18907
10:04:36				127	8.90605	0.2862359	1.2801	1.4652	13.67521	2.20039
10:04:37				128	8.90311	0.2860751	1.2801	1.41636	13.47985	2.19926
10:04:37				129	8.90115	0.286556	1.2801	1.4652	12.64957	2.2033
10:04:38				130	8.90115	0.2855944	1.2801	1.4652	12.50305	2.19547
10:04:38				131	8.90311	0.2843137	1.2801	1.41636	12.40537	2.18493
10:04:39	10:03:15 start transect	10.0	270	132	8.90016	0.2855944	1.2801	1.41636	12.89377	2.19553
10:04:39				133	8.90115	0.2836731	1.2801	1.4652	13.04029	2.17983
10:04:40				134	8.90016	0.2851153	1.2801	1.4652	12.69841	2.19163
10:04:40				135	8.89526	0.2859158	1.2801	1.41636	12.55189	2.19845
10:04:41				136	8.90016	0.275348	1.2801	1.4652	13.08913	2.11221
10:04:41				137	8.89526	0.2678221	1.2801	1.41636	13.23565	2.05144
10:04:42				138	8.87557	0.2737468	1.2801	1.4652	12.69841	2.10066
10:04:42				139	8.8825	0.2660614	1.2801	1.4652	14.50549	2.0379
10:04:43				140	8.87459	0.2726249	1.2801	1.4652	13.87057	2.0916
10:04:43				141	8.85693	0.2707046	1.2801	1.4652	13.13797	2.07704
10:04:44				142	8.85202	0.2575759	1.2801	1.41636	13.47985	1.97088
10:04:44				143	8.84711	0.2612579	1.2801	1.4652	13.72405	2.00097
10:04:45				144	8.83036	0.2655806	1.2801	1.4652	13.04029	2.03697
10:04:45				145	8.82446	0.2660614	1.2801	1.4652	12.94261	2.04121
10:04:46				146	8.83036	0.2753481	1.2801	1.41636	12.94261	2.11634
10:04:46				147	8.84318	0.2843138	1.2801	1.4652	13.96825	2.18859
10:04:47				148	8.87656	0.2841547	1.2801	1.4652	12.89377	2.18525
10:04:47				149	8.88349	0.281912	1.2801	1.4652	12.69841	2.16657
10:04:48				150	8.8825	0.2865561	1.2801	1.4652	12.84493	2.20445
10:04:48				151	8.87754	0.2822325	1.2801	1.4652	13.23565	2.16954
10:04:49				152	8.89035	0.2814312	1.2801	1.4652	12.60073	2.16224
10:04:49				153	8.89035	0.2831933	1.2801	1.41636	12.35653	2.17658
10:04:50				154	8.90016	0.2897586	1.2801	1.4652	12.89377	2.22945
10:04:50				155	8.90016	0.2852745	1.2801	1.4652	13.28449	2.19293
10:04:51				156	8.90801	0.2916796	1.2801	1.4652	12.99145	2.24462
10:04:51				157	8.90899	0.2769483	1.2801	1.4652	12.99145	2.12469
10:04:52				158	8.90507	0.2599773	1.2801	1.4652	13.08913	1.98738
10:04:52				159	8.88643	0.2731054	1.2801	1.4652	12.60073	2.09481
10:04:53				160	8.88048	0.2671821	1.1817	1.41636	13.18681	2.0471

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:04:53				161	8.8825	0.2711844	1.2801	1.41636	13.04029	2.07945
10:04:54				162	8.88349	0.2726249	1.2801	1.4652	12.74725	2.09108
10:04:54				163	8.88643	0.2764679	1.2801	1.4652	13.33333	2.12212
10:04:55				164	8.89133	0.2767886	1.2801	1.4652	12.99145	2.12444
10:04:55				165	8.89428	0.2742262	1.2801	1.4652	12.50305	2.10345
10:04:56				166	8.89428	0.2756671	1.2801	1.4652	12.99145	2.11515
10:04:56				167	8.89232	0.2780694	1.2801	1.41636	12.01465	2.13479
10:04:57				168	8.89526	0.2841547	1.2801	1.41636	12.89377	2.18411
10:04:57				169	8.90115	0.2759876	1.2801	1.41636	12.64957	2.11735
10:04:58				170	8.90311	0.2788702	1.2801	1.4652	12.89377	2.14065
10:04:58				171	8.90016	0.2779096	1.2801	1.4652	12.99145	2.13302
10:04:59				172	8.90409	0.2830328	1.2801	1.41636	12.84493	2.17444
10:04:59				173	8.90605	0.2843137	1.2801	1.4652	13.04029	2.18475
10:05:00				174	8.90997	0.2820722	1.2801	1.4652	12.64957	2.16627
10:05:00				175	8.90899	0.2803116	1.2801	1.41636	12.69841	2.15202
10:05:01				176	8.90997	0.2694235	1.2801	1.4652	12.89377	2.06358
10:05:01				177	8.90409	0.2747073	1.2801	1.4652	13.13797	2.10678
10:05:02				178	8.90507	0.2643001	1.2801	1.41636	13.28449	2.02235
10:05:02				179	8.89624	0.2707046	1.2801	1.41636	13.18681	2.07476
10:05:03				180	8.89624	0.2615778	1.2801	1.41636	13.13797	2.00081
10:05:03				181	8.88839	0.2615779	1.2801	1.4652	12.74725	2.00125
10:05:04				182	8.88839	0.262218	1.2801	1.4652	12.99145	2.00644
10:05:04				183	8.88643	0.2626991	1.2801	1.4652	12.45421	2.01044
10:05:05				184	8.88643	0.2628586	1.2801	1.41636	12.69841	2.01173
10:05:05				185	8.88741	0.2633398	1.2801	1.4652	12.84493	2.01557
10:05:06				186	8.88545	0.2620587	1.2801	1.4652	12.60073	2.00531
10:05:06				187	8.88349	0.2626991	1.2801	1.4652	13.23565	2.01061
10:05:07				188	8.88545	0.2622181	1.2801	1.4652	13.82173	2.0066
10:05:07				189	8.88545	0.2644597	1.2801	1.41636	13.43101	2.02475
10:05:08				190	8.88152	0.2630194	1.2801	1.4652	13.08913	2.01331
10:05:08				191	8.8795	0.2626991	1.2801	1.4652	12.69841	2.01083
10:05:09				192	8.88349	0.265261	1.2801	1.4652	13.13797	2.03136
10:05:09				193	8.88937	0.2641405	1.2801	1.4652	14.16361	2.02195
10:05:10				194	8.88545	0.2649402	1.2801	1.41636	12.99145	2.02865
10:05:10				195	8.88643	0.2646208	1.2801	1.41636	13.04029	2.026
10:05:11				196	8.88741	0.2643001	1.2801	1.41636	12.99145	2.02335
10:05:11				197	8.89133	0.2707046	1.2801	1.41636	13.23565	2.07504
10:05:12				198	8.90016	0.2684625	1.2801	1.4652	12.99145	2.05635
10:05:12				199	8.90997	0.2673421	1.2801	1.4652	12.89377	2.04671
10:05:13				200	8.90213	0.2663811	1.2801	1.4652	12.79609	2.03937
10:05:13				201	8.90311	0.2660614	1.2801	1.4652	13.57753	2.03673
10:05:14				202	8.90899	0.2702235	1.2801	1.4652	13.04029	2.07012
10:05:14				203	8.92076	0.2673421	1.2801	1.4652	12.60073	2.04609
10:05:15				204	8.92475	0.2673421	1.2801	1.4652	12.94261	2.04586
10:05:15				205	8.91782	0.2668622	1.2801	1.4652	13.23565	2.04237
10:05:16				206	8.91684	0.269744	1.2801	1.4652	13.23565	2.06578

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:05:16				207	8.92573	0.2659015	1.2801	1.4652	13.13797	2.03415
10:05:17				208	8.93259	0.2673421	1.2801	1.4652	12.69841	2.04542
10:05:17				209	8.92867	0.2647804	1.2801	1.4652	13.13797	2.02491
10:05:18				210	8.92965	0.2650998	1.2801	1.4652	12.74725	2.02744
10:05:18				211	8.92769	0.2655805	1.2801	1.41636	12.99145	2.03144
10:05:19				212	8.92475	0.2643001	1.2801	1.4652	12.45421	2.02124
10:05:19				213	8.92376	0.2654207	1.2801	1.4652	13.04029	2.03037
10:05:20				214	8.92278	0.2668622	1.2801	1.4652	12.74725	2.04209
10:05:20				215	8.92671	0.2667008	1.2801	1.41636	12.60073	2.04056
10:05:21				216	8.92475	0.2700632	1.2801	1.41636	12.94261	2.06791
10:05:21				217	8.92475	0.2686226	1.2801	1.41636	12.55189	2.05624
10:05:22				218	8.92671	0.2683023	1.2801	1.4652	12.84493	2.05353
10:05:22				219	8.92573	0.2684624	1.2801	1.41636	13.52869	2.05488
10:05:23				220	8.93063	0.2679822	1.2801	1.4652	12.94261	2.05071
10:05:23				221	8.93357	0.2691031	1.2801	1.4652	12.45421	2.05962
10:05:24				222	8.93847	0.2665409	1.2801	1.4652	12.64957	2.0386
10:05:24				223	8.93553	0.2670221	1.2801	1.4652	13.47985	2.04266
10:05:25				224	8.93651	0.2665409	1.2801	1.4652	13.38217	2.03871
10:05:25				225	8.93063	0.2660614	1.2801	1.41636	12.89377	2.03516
10:05:26				226	8.93259	0.2660613	1.2801	1.4652	12.84493	2.03505
10:05:26				227	8.93259	0.2663811	1.2801	1.4652	13.52869	2.03764
10:05:27				228	8.93259	0.2665409	1.2801	1.4652	13.13797	2.03893
10:05:27				229	8.93357	0.2662212	1.2801	1.4652	13.08913	2.03629
10:05:28				230	8.93161	0.2665409	1.2801	1.4652	13.23565	2.03899
10:05:28				231	8.93063	0.2667008	1.2801	1.4652	13.23565	2.04034
10:05:29				232	8.93357	0.2667008	1.2801	1.4652	12.50305	2.04017
10:05:29				233	8.93357	0.2667008	1.2801	1.41636	13.52869	2.04017
10:05:30				234	8.93259	0.2660613	1.2801	1.41636	13.04029	2.03505
10:05:30				235	8.93259	0.2662212	1.2801	1.41636	12.84493	2.03634
10:05:31				236	8.93161	0.2705442	1.2801	1.41636	13.04029	2.07141
10:05:31				237	8.93161	0.2670221	1.2801	1.4652	12.84493	2.04288
10:05:32				238	8.92867	0.2683023	1.2801	1.4652	12.74725	2.05342
10:05:32				239	8.93063	0.2687827	1.2801	1.4652	12.99145	2.05719
10:05:33				240	8.93063	0.2670221	1.2801	1.41636	12.60073	2.04294
10:05:33				241	8.92965	0.2670221	1.2801	1.4652	12.84493	2.04299
10:05:34				242	8.92769	0.2675021	1.2801	1.4652	13.23565	2.04699
10:05:34				243	8.92174	0.2681422	1.2801	1.4652	13.08913	2.05252
10:05:35				244	8.91978	0.2683023	1.2801	1.4652	13.04029	2.05393
10:05:36				247	8.91524	0.2690988	1.2801	1.4652	13.33333	2.06064
10:05:37				248	8.91524	0.2676578	1.2801	1.4652	12.84493	2.04896
10:05:37				249	8.91524	0.2666966	1.2801	1.4652	13.43101	2.04118
10:05:38				250	8.91623	0.2678178	1.2801	1.4652	13.13797	2.05021
10:05:38				251	8.91524	0.265736	1.2801	1.4652	12.45421	2.0334
10:05:39				252	8.9123	0.2695795	1.2801	1.41636	12.74725	2.06471
10:05:39				253	8.90544	0.2719797	1.2801	1.41636	12.50305	2.08457
10:05:40				254	8.89955	0.2705399	1.2801	1.4652	12.84493	2.07323

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:05:40				255	8.90446	0.2698986	1.2801	1.4652	13.13797	2.06775
10:05:41				256	8.90151	0.2684582	1.2801	1.41636	13.52869	2.05624
10:05:41				257	8.89366	0.2679779	1.2801	1.4652	12.69841	2.0528
10:05:42				258	8.89563	0.2679779	1.2801	1.4652	12.89377	2.05268
10:05:42				259	8.89955	0.2679779	1.2801	1.4652	12.99145	2.05246
10:05:43				260	8.89857	0.2682981	1.2801	1.4652	13.18681	2.05511
10:05:43				261	8.88281	0.2671778	1.2801	1.41636	12.89377	2.04693
10:05:44				262	8.87987	0.2673378	1.2801	1.4652	12.94261	2.0484
10:05:44				263	8.88968	0.2674978	1.2801	1.4652	12.89377	2.04913
10:05:45				264	8.89563	0.2668565	1.2801	1.41636	12.55189	2.04359
10:05:45				265	8.89955	0.2735817	1.2801	1.41636	13.08913	2.09791
10:05:46	10:05:22 end transect	10.0	120	266	8.88477	0.2772634	1.2801	1.4652	13.52869	2.12869
10:05:46				267	8.87398	0.2729404	1.2801	1.41636	12.55189	2.0942
10:05:47				268	8.873	0.2745421	1.2801	1.4652	12.64957	2.10727
10:05:47				269	8.87594	0.2748624	1.3784	1.4652	13.28449	2.1097
10:05:48				270	8.87496	0.2713406	1.2801	1.4652	14.06593	2.08115
10:05:48				271	8.87496	0.2647762	1.2801	1.41636	13.13797	2.02791
10:05:49				272	8.88379	0.2647762	1.2801	1.4652	13.18681	2.02741
10:05:49				273	8.8887	0.2678179	1.2801	1.4652	13.38217	2.05178
10:05:50				274	8.88968	0.2649359	1.2801	1.41636	13.52869	2.02837
10:05:50				275	8.89366	0.2668565	1.1817	1.4652	13.13797	2.04371
10:05:51				276	8.8917	0.2649359	1.2801	1.4652	13.87057	2.02826
10:05:51				277	8.89072	0.2655763	1.2801	1.4652	13.04029	2.0335
10:05:52				278	8.8917	0.2684582	1.2801	1.4652	12.74725	2.0568
10:05:52				279	8.89366	0.2711801	1.2801	1.4652	13.04029	2.07876
10:05:53				280	8.88968	0.2750219	1.2801	1.4652	13.18681	2.11018
10:05:53				281	8.88575	0.2716601	1.2801	1.4652	13.67521	2.08312
10:05:54				282	8.88772	0.2684582	1.2801	1.4652	12.79609	2.05703
10:05:54				283	8.88575	0.2745421	1.2801	1.41636	13.13797	2.10652
10:05:55				284	8.88772	0.2814269	1.2801	1.41636	13.47985	2.16237
10:05:55				285	8.89661	0.2796657	1.2801	1.4652	13.08913	2.14751
10:05:56				286	8.90053	0.2739018	1.2801	1.4652	12.79609	2.10045
10:05:56				287	8.89268	0.2745421	1.2801	1.4652	12.50305	2.10611
10:05:57				288	8.88281	0.2742219	1.2801	1.4652	13.08913	2.10409
10:05:57				289	8.87889	0.2759833	1.2801	1.4652	13.33333	2.11863
10:05:58				290	8.87202	0.2767829	1.2801	1.4652	14.55433	2.12554
10:05:58				291	8.87692	0.2751828	1.3784	1.4652	12.84493	2.11224
10:05:59				292	8.87692	0.2735817	1.2801	1.41636	13.28449	2.09924
10:05:59				293	8.87398	0.2729404	1.2801	1.4652	13.08913	2.0942
10:06:00				294	8.87103	0.2731011	1.1817	1.4652	13.47985	2.09568
10:06:00				295	8.86416	0.27246	1.2801	1.4652	13.23565	2.09087
10:06:01				296	8.85828	0.2721403	1.2801	1.4652	13.13797	2.08862
10:06:01				297	8.85926	0.2710197	1.2801	1.4652	13.33333	2.07946
10:06:02				298	8.85926	0.2711801	1.2801	1.4652	13.52869	2.08076
10:06:02				299	8.86024	0.2697383	1.2801	1.41636	12.89377	2.069
10:06:03				300	8.86318	0.2690988	1.1817	1.4652	13.47985	2.06364

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:03				301	8.86122	0.2735818	1.1817	1.4652	13.28449	2.10016
10:06:04				302	8.85926	0.2710197	1.2801	1.4652	13.82173	2.07946
10:06:04				303	8.86024	0.2703796	1.2801	1.4652	13.08913	2.07421
10:06:05				304	8.86024	0.2695795	1.1817	1.4652	13.28449	2.06772
10:06:05				305	8.8622	0.2682981	1.1817	1.4652	13.57753	2.0572
10:06:06				306	8.8622	0.268138	1.2801	1.41636	13.23565	2.0559
10:06:06				307	8.86318	0.2694193	1.2801	1.41636	13.43101	2.06624
10:06:07				308	8.86024	0.2678179	1.3784	1.4652	13.33333	2.05341
10:06:07				309	8.86122	0.268138	1.2801	1.4652	13.13797	2.05596
10:06:08				310	8.86416	0.2642958	1.1817	1.4652	13.57753	2.02463
10:06:08				311	8.85926	0.2679779	1.1817	1.4652	13.96825	2.05477
10:06:09				312	8.85828	0.2718206	1.2801	1.4652	13.67521	2.08602
10:06:09				313	8.85926	0.2673378	1.3784	1.41636	13.08913	2.04957
10:06:10				314	8.85828	0.2668565	1.2801	1.4652	13.82173	2.04573
10:06:10				315	8.85729	0.2631747	1.1817	1.4652	14.26129	2.01593
10:06:11				316	8.85631	0.2673378	1.1817	1.4652	13.38217	2.04975
10:06:11				317	8.85533	0.266217	1.2801	1.4652	12.74725	2.04071
10:06:12				318	8.85631	0.2644555	1.2801	1.4652	12.69841	2.02637
10:06:12				319	8.85337	0.2642958	1.2801	1.4652	13.57753	2.02524
10:06:13				320	8.8514	0.2657361	1.1817	1.41636	13.62637	2.03704
10:06:13				321	8.85729	0.2657361	1.2801	1.4652	13.47985	2.0367
10:06:14				322	8.85926	0.2647762	1.2801	1.4652	13.13797	2.0288
10:06:14				323	8.85533	0.2639752	1.2801	1.4652	13.28449	2.02253
10:06:15				324	8.84643	0.2622138	1.1817	1.4652	13.28449	2.00876
10:06:15				325	8.83465	0.2649359	1.1817	1.4652	13.62637	2.0315
10:06:16				326	8.8209	0.2633356	1.2801	1.41636	13.52869	2.01929
10:06:16				327	8.82287	0.2623746	1.3784	1.4652	13.38217	2.01138
10:06:17				328	8.82385	0.2626949	1.2801	1.4652	13.72405	2.01393
10:06:17				329	8.82483	0.2610944	1.2801	1.4652	13.08913	2.00089
10:06:18				330	8.82778	0.2612537	1.2801	1.4652	12.79609	2.00202
10:06:18				331	8.82974	0.2609338	1.2801	1.4652	13.43101	1.99932
10:06:19				332	8.82974	0.2610944	1.2801	1.41636	14.31013	2.00062
10:06:19				333	8.8268	0.2609338	1.2801	1.4652	13.23565	1.99948
10:06:20				334	8.82778	0.2609338	1.2801	1.4652	13.47985	1.99943
10:06:20				335	8.82778	0.2606139	1.3784	1.4652	13.47985	1.99683
10:06:21				336	8.82876	0.257091	1.2801	1.4652	13.43101	1.96824
10:06:21				337	8.81697	0.2516491	1.1817	1.41636	13.28449	1.92485
10:06:22				338	8.8101	0.2551703	1.1817	1.4652	13.67521	1.95371
10:06:22				339	8.79628	0.2546905	1.2801	1.41636	13.52869	1.95058
10:06:23				340	8.7953	0.2522887	1.3784	1.4652	13.18681	1.93118
10:06:23				341	8.79628	0.2530898	1.2801	1.4652	13.23565	1.93762
10:06:24				342	8.81305	0.2521291	1.2801	1.4652	13.87057	1.92894
10:06:24				343	8.80715	0.2534092	1.0833	1.41636	14.01709	1.93962
10:06:25				344	8.79432	0.2591721	1.1817	1.4652	13.18681	1.98701
10:06:25				345	8.79727	0.256612	1.2801	1.4652	13.28449	1.96609
10:06:26				346	8.79334	0.2530898	1.2801	1.4652	13.13797	1.93778

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:26				347	8.79039	0.2518086	1.2801	1.4652	13.23565	1.92757
10:06:27				348	8.78941	0.2513287	1.2801	1.41636	13.33333	1.92373
10:06:27				349	8.78744	0.2510084	1.2801	1.41636	13.77289	1.92125
10:06:28				350	8.7953	0.2529301	1.1817	1.4652	14.26129	1.93638
10:06:28				351	8.80021	0.2524498	1.1817	1.4652	13.04029	1.93223
10:06:29				352	8.79923	0.2538899	1.3784	1.41636	13.28449	1.94393
10:06:29				353	8.80021	0.2548504	1.3784	1.4652	13.47985	1.95166
10:06:30				354	8.80414	0.2542095	1.1817	1.41636	13.43101	1.94626
10:06:30				355	8.80611	0.2551703	1.0833	1.4652	12.99145	1.95393
10:06:31				356	8.81403	0.2578921	1.0833	1.4652	13.62637	1.97555
10:06:31				357	8.81206	0.2550103	1.2801	1.41636	13.87057	1.95231
10:06:32				358	8.80611	0.2534092	1.2801	1.4652	13.62637	1.93967
10:06:32				359	8.8101	0.2558102	1.2801	1.41636	13.33333	1.95889
10:06:33				360	8.81305	0.2554902	1.3784	1.4652	13.04029	1.95614
10:06:33				361	8.81697	0.2559716	1.1817	1.4652	13.77289	1.95983
10:06:34				362	8.8209	0.2569308	1.0833	1.4652	13.38217	1.96738
10:06:34				363	8.82483	0.2588527	1.1817	1.4652	13.67521	1.98273
10:06:35				364	8.82778	0.2574114	1.2801	1.41636	13.13797	1.97089
10:06:36				367	8.83766	0.2596535	1.1817	1.41636	13.43101	1.9885
10:06:37				368	8.82784	0.2602942	1.2801	1.4652	13.62637	1.99424
10:06:37				369	8.83275	0.2602942	1.2801	1.41636	13.57753	1.99396
10:06:38				370	8.83766	0.258373	1.1817	1.4652	13.62637	1.97813
10:06:38				371	8.82391	0.2609338	1.2801	1.4652	13.77289	1.99964
10:06:39				372	8.81605	0.259814	1.2801	1.4652	13.57753	1.991
10:06:39				373	8.82293	0.2631761	1.2801	1.4652	13.47985	2.01788
10:06:40				374	8.84159	0.2748625	1.1817	1.41636	13.18681	2.11173
10:06:40				375	8.88483	0.266217	1.2801	1.4652	13.82173	2.03903
10:06:41				376	8.88091	0.271501	1.4768	1.4652	13.28449	2.0821
10:06:41				377	8.89275	0.2732617	1.4768	1.41636	13.08913	2.0957
10:06:42				378	8.89471	0.2723008	1.3784	1.4652	12.94261	2.08779
10:06:42				379	8.88876	0.2790258	1.5752	1.41636	13.43101	2.14277
10:06:43				380	8.87797	0.2758238	1.772	1.4652	13.13797	2.11737
10:06:43				381	8.87011	0.2753437	1.8703	1.4652	13.23565	2.11393
10:06:44				382	8.87895	0.2809464	1.8703	1.4652	13.08913	2.15897
10:06:44				383	8.90648	0.3530158	2.0671	1.41636	14.01709	2.7484
10:06:45				384	8.93296	0.4554125	2.2639	1.4652	12.94261	3.60114
10:06:45				385	9.04483	0.379129	2.4606	1.4652	12.01465	2.95346
10:06:46				386	9.02427	0.4820251	2.559	1.4652	11.62393	3.81615
10:06:46				387	9.1496	0.4863532	2.6574	1.4652	10.40293	3.83924
10:06:47				388	9.29531	0.4877964	2.8542	1.41636	9.37729	3.83578
10:06:47				389	9.3334	0.489559	2.9526	1.4652	8.64469	3.84648
10:06:48				390	9.36263	0.4903602	3.1493	1.51404	9.18193	3.85005
10:06:48				391	9.36945	0.4858725	3.2477	1.4652	8.84005	3.81175
10:06:49				392	9.36555	0.4853906	3.1493	1.4652	8.93773	3.80813
10:06:49				393	9.36555	0.4844289	3.0509	1.4652	8.74237	3.80009
10:06:50				394	9.36945	0.4926058	3.0509	1.4652	8.74237	3.86814

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:50				395	9.38023	0.4970956	3.1493	1.4652	8.98657	3.90459
10:06:51				396	9.38607	0.4918036	3.2477	1.4652	9.08425	3.85962
10:06:51				397	9.38315	0.4897189	3.2477	1.41636	8.84005	3.84248
10:06:52				398	9.38023	0.4902002	3.0509	1.4652	9.27961	3.84684
10:06:52				399	9.37633	0.4985378	3.1493	1.4652	8.93773	3.9171
10:06:53				400	9.38607	0.5044711	3.1493	1.4652	8.98657	3.9658
10:06:53				401	9.39581	0.4998203	3.2477	1.4652	8.79121	3.92573
10:06:54				402	9.39776	0.4990182	3.2477	1.4652	8.74237	3.91879
10:06:54				403	9.39386	0.5036685	3.1493	1.4652	9.18193	3.95821
10:06:55				404	9.40263	0.4975756	3.2477	1.4652	8.69353	3.90618
10:06:55				405	9.3997	0.4990182	3.1493	1.4652	8.88889	3.91859
10:06:56				406	9.39873	0.5047918	3.0509	1.41636	8.88889	3.9671
10:06:56				407	9.40263	0.5017442	3.1493	1.41636	8.84005	3.94111
10:06:57				408	9.40263	0.5020662	3.2477	1.51404	8.88889	3.94381
10:06:57				409	9.40652	0.5017442	3.2477	1.41636	8.79121	3.94068
10:06:58				410	9.40749	0.5015849	3.1493	1.41636	8.79121	3.93925
10:06:58				411	9.40652	0.5017442	3.1493	1.4652	8.54701	3.94069
10:06:59				412	9.40749	0.5020662	3.1493	1.4652	8.35165	3.94328
10:06:59				413	9.40749	0.5046306	3.1493	1.41636	8.98657	3.96478
10:07:00				414	9.41236	0.5023865	3.2477	1.4652	9.32845	3.94542
10:07:00				415	9.41041	0.5023865	3.1493	1.41636	8.49817	3.94564
10:07:01				416	9.40847	0.5039891	3.1493	1.41636	8.74237	3.95929
10:07:01				417	9.41041	0.5025459	3.2477	1.4652	9.23077	3.94697
10:07:02				418	9.40944	0.501424	3.2477	1.4652	8.69353	3.93768
10:07:02				419	9.40652	0.5038296	3.1493	1.41636	8.74237	3.95817
10:07:03				420	9.41528	0.5025459	3.1493	1.41636	8.69353	3.94645
10:07:03				421	9.42118	0.5025459	3.1493	1.4652	8.44933	3.9458
10:07:04	10:05:40 start transect	10.0	90	422	9.42313	0.5023865	3.1493	1.4652	8.64469	3.94425
10:07:04				423	9.4241	0.5039891	3.1493	1.41636	8.74237	3.95757
10:07:05				424	9.42216	0.5036685	3.1493	1.4652	8.88889	3.9551
10:07:05				425	9.41723	0.5031885	3.1493	1.4652	8.54701	3.95162
10:07:06				426	9.41431	0.503509	3.1493	1.4652	8.79121	3.95463
10:07:06				427	9.41236	0.5023865	3.2477	1.41636	8.88889	3.94542
10:07:07				428	9.41431	0.5020662	3.2477	1.4652	8.84005	3.94253
10:07:07				429	9.41528	0.501263	3.1493	1.4652	8.74237	3.9357
10:07:08				430	9.41528	0.5025459	3.1493	1.4652	8.69353	3.94645
10:07:08				431	9.41139	0.5030274	3.1493	1.41636	8.93773	3.95091
10:07:09				432	9.41041	0.5019052	3.0509	1.4652	8.69353	3.94162
10:07:09				433	9.41236	0.5006228	3.1493	1.4652	9.08425	3.93065
10:07:10				434	9.41626	0.4970955	3.1493	1.4652	9.13309	3.90068
10:07:10				435	9.41236	0.4927659	3.0509	1.41636	8.64469	3.86487
10:07:11				436	9.40068	0.4929261	3.0509	1.4652	8.88889	3.86746
10:07:11				437	9.39776	0.4998203	3.0509	1.4652	8.93773	3.92553
10:07:12				438	9.40457	0.5023865	3.1493	1.4652	8.88889	3.94628
10:07:12				439	9.4036	0.5022255	3.1493	1.41636	8.84005	3.94504
10:07:13				440	9.40847	0.5027069	3.1493	1.4652	8.69353	3.94854

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:07:13				441	9.41528	0.5030274	3.1493	1.4652	8.54701	3.95048
10:07:14				442	9.40944	0.5047918	3.1493	1.4652	8.79121	3.96591
10:07:14				443	9.41139	0.5046306	3.2477	1.41636	8.59585	3.96434
10:07:15				444	9.41236	0.501424	3.1493	1.4652	8.98657	3.93736
10:07:15				445	9.40068	0.5020662	3.1493	1.4652	8.79121	3.94403
10:07:16				446	9.39776	0.5057528	3.1493	1.4652	9.27961	3.97526
10:07:16				447	9.40068	0.5028663	3.2477	1.41636	8.69353	3.95073
10:07:17				448	9.40457	0.501424	3.2477	1.4652	8.64469	3.93821
10:07:17				449	9.39873	0.5001419	3.1493	1.4652	8.98657	3.92811
10:07:18				450	9.39873	0.5033479	3.2477	1.4652	8.88889	3.95498
10:07:18				451	9.40068	0.5025459	3.1493	1.41636	8.88889	3.94805
10:07:19				452	9.39776	0.5003011	3.1493	1.4652	8.49817	3.92955
10:07:19				453	9.39484	0.4998203	3.1493	1.4652	8.54701	3.92584
10:07:20				454	9.3851	0.500782	3.1493	1.4652	8.88889	3.93496
10:07:20				455	9.3851	0.5052723	3.2477	1.41636	9.18193	3.97262
10:07:21				456	9.39386	0.5017442	3.2477	1.4652	8.88889	3.94207
10:07:21				457	9.39484	0.5001419	3.2477	1.4652	8.79121	3.92853
10:07:22				458	9.38997	0.4998203	3.1493	1.4652	8.88889	3.92637
10:07:22				459	9.38412	0.4991789	3.1493	1.41636	9.13309	3.92163
10:07:23				460	9.36945	0.4999812	3.1493	1.41636	9.18193	3.92996
10:07:23				461	9.36166	0.4998204	3.2477	1.4652	8.74237	3.92946
10:07:24				462	9.36555	0.4985378	3.2477	1.4652	8.93773	3.91827
10:07:24				463	9.36361	0.4967745	3.1493	1.4652	9.18193	3.9037
10:07:25				464	9.35289	0.4938875	3.2477	1.4652	9.23077	3.88065
10:07:25				465	9.32554	0.4929262	3.2477	1.4652	9.18193	3.87554
10:07:26				466	9.32164	0.4922856	3.2477	1.4652	8.84005	3.87059
10:07:26				467	9.32456	0.4922856	3.1493	1.4652	9.32845	3.87028
10:07:27				468	9.31872	0.4932466	3.1493	1.4652	8.98657	3.87897
10:07:27				469	9.30994	0.4929262	3.2477	1.4652	9.42613	3.87722
10:07:28				470	9.31287	0.4922856	3.1493	1.4652	9.13309	3.87154
10:07:28				471	9.31579	0.4921239	3.2477	1.4652	8.88889	3.86986
10:07:29				472	9.31384	0.4924458	3.1493	1.4652	9.08425	3.87278
10:07:29				473	9.31677	0.4929262	3.1493	1.4652	9.42613	3.87649
10:07:30				474	9.31092	0.4932466	3.1493	1.41636	9.52381	3.87981
10:07:30				475	9.30507	0.4940495	3.1493	1.4652	9.47497	3.88718
10:07:31				476	9.30214	0.4943701	3.2477	1.4652	8.93773	3.89019
10:07:31				477	9.30507	0.4940495	3.1493	1.4652	8.93773	3.88718
10:07:32				478	9.31189	0.4935671	3.1493	1.41636	8.88889	3.8824
10:07:32				479	9.31482	0.4940495	3.1493	1.41636	9.08425	3.88613
10:07:33				480	9.31482	0.4946907	3.2477	1.4652	9.27961	3.8915
10:07:33				481	9.31774	0.4938875	3.2477	1.4652	9.08425	3.88445
10:07:34				482	9.33145	0.4938875	3.1493	1.4652	9.37729	3.88297
10:07:34				483	9.33632	0.4934068	3.1493	1.4652	9.27961	3.87841
10:07:35				484	9.33047	0.4930864	3.2477	1.4652	9.42613	3.87635
10:07:36				487	9.33754	0.4929278	3.1493	1.4652	9.47497	3.87427
10:07:37				488	9.32389	0.4937289	3.2477	1.4652	9.57265	3.88245

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:07:37				489	9.32	0.4929279	3.1493	1.41636	9.13309	3.87616
10:07:38				490	9.32974	0.4929279	3.1493	1.41636	9.18193	3.87511
10:07:38				491	9.32877	0.4927677	3.1493	1.4652	9.18193	3.87387
10:07:39				492	9.32292	0.4921255	3.1493	1.4652	9.27961	3.86911
10:07:39				493	9.33462	0.4908435	3.1493	1.4652	9.13309	3.8571
10:07:40				494	9.34442	0.4921255	3.1493	1.4652	9.27961	3.8668
10:07:40				495	9.34144	0.4922856	3.2477	1.4652	9.32845	3.86846
10:07:41				496	9.36586	0.4929278	3.2477	1.41636	8.93773	3.87121
10:07:41				497	9.37463	0.493088	3.1493	1.4652	9.03541	3.87162
10:07:42				498	9.37463	0.4926058	3.1493	1.4652	9.08425	3.86758
10:07:42				499	9.38144	0.4927676	3.1493	1.4652	8.93773	3.8682
10:07:43				500	9.40196	0.4934083	3.2477	1.4652	8.79121	3.87135
10:07:43				501	9.40682	0.4876365	3.1493	1.4652	8.84005	3.82255
10:07:44				502	9.4039	0.481063	3.1493	1.4652	9.42613	3.76791
10:07:44				503	9.39806	0.4809023	3.2477	1.41636	8.98657	3.76718
10:07:45				504	9.38242	0.4815437	3.2477	1.4652	8.54701	3.77418
10:07:45				505	9.3717	0.4818654	3.2477	1.4652	9.03541	3.77799
10:07:46				506	9.36489	0.4818654	3.1493	1.4652	9.32845	3.77871
10:07:46				507	9.35417	0.4818654	3.1493	1.41636	8.98657	3.77984
10:07:47				508	9.35612	0.4794596	3.2477	1.4652	9.13309	3.7595
10:07:47				509	9.34832	0.4780164	3.2477	1.4652	9.37729	3.74825
10:07:48				510	9.34637	0.4776971	3.1493	1.41636	9.08425	3.74579
10:07:48				511	9.33949	0.4757728	3.1493	1.4652	9.32845	3.73041
10:07:49				512	9.33852	0.476414	3.2477	1.4652	8.98657	3.73587
10:07:49				513	9.33462	0.4759331	3.1493	1.4652	9.18193	3.73226
10:07:50				514	9.33559	0.4754523	3.1493	1.41636	9.32845	3.72814
10:07:50				515	9.33754	0.4789795	3.1493	1.4652	9.18193	3.75744
10:07:51				516	9.34442	0.4789795	3.1493	1.41636	9.81685	3.75672
10:07:51				517	9.34637	0.4770554	3.2477	1.41636	9.52381	3.74042
10:07:52				518	9.34345	0.476895	3.2477	1.4652	9.13309	3.73938
10:07:52				519	9.34637	0.476414	3.1493	1.4652	9.42613	3.73506
10:07:53				520	9.34345	0.476895	3.1493	1.51404	9.13309	3.73939
10:07:53				521	9.34144	0.4765743	3.2477	1.4652	8.88889	3.73691
10:07:54				522	9.33949	0.476895	3.2477	1.4652	9.13309	3.73979
10:07:54				523	9.33949	0.4749716	3.2477	1.4652	9.23077	3.72371
10:07:55				524	9.32974	0.4748114	3.1493	1.41636	9.13309	3.72339
10:07:55				525	9.33267	0.4770554	3.2477	1.4652	9.52381	3.74184
10:07:56				526	9.32974	0.4743293	3.2477	1.4652	9.71917	3.71935
10:07:56				527	9.32097	0.4725671	3.2477	1.4652	9.08425	3.70552
10:07:57				528	9.31415	0.4703223	3.2477	1.4652	9.13309	3.68745
10:07:57				529	9.3083	0.4735288	3.1493	1.4652	9.42613	3.71488
10:07:58				530	9.3083	0.463589	3.2477	1.4652	10.06105	3.63179
10:07:58				531	9.29166	0.4643915	3.1493	1.41636	9.57265	3.64018
10:07:59				532	9.29653	0.4700012	3.1493	1.41636	9.71917	3.68658
10:07:59				533	9.3083	0.4724055	3.2477	1.4652	9.67033	3.70547
10:08:00				534	9.30732	0.4679176	3.2477	1.41636	9.32845	3.66805

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:08:00				535	9.3083	0.468398	3.1493	1.4652	9.47497	3.67197
10:08:01				536	9.31415	0.4695204	3.2477	1.51404	9.47497	3.68075
10:08:01				537	9.32	0.4714443	3.1493	1.51404	9.52381	3.69624
10:08:02				538	9.32195	0.4687188	3.2477	1.41636	9.42613	3.67325
10:08:02				539	9.32292	0.4687188	3.2477	1.4652	9.23077	3.67315
10:08:03				540	9.32389	0.4709631	3.2477	1.4652	9.32845	3.69181
10:08:03				541	9.32877	0.4700011	3.2477	1.41636	9.71917	3.68327
10:08:04				542	9.33169	0.4675969	3.2477	1.4652	9.23077	3.66289
10:08:04				543	9.33462	0.4663146	3.1493	1.4652	9.57265	3.65189
10:08:05				544	9.33462	0.4695203	3.1493	1.4652	9.67033	3.67866
10:08:05				545	9.33852	0.4682383	3.2477	1.4652	9.96337	3.66755
10:08:06				546	9.33949	0.4674357	3.1493	1.4652	9.37729	3.66075
10:08:06				547	9.33949	0.4712844	3.1493	1.4652	9.32845	3.6929
10:08:07				548	9.33949	0.473047	3.2477	1.4652	9.62149	3.70762
10:08:07				549	9.33462	0.4834678	3.1493	1.4652	9.37729	3.79531
10:08:08				550	9.32779	0.4893992	3.2477	1.4652	9.47497	3.84572
10:08:08				551	9.32974	0.4841086	3.1493	1.4652	9.81685	3.80119
10:08:09				552	9.32487	0.486835	3.2477	1.4652	9.32845	3.82454
10:08:09				553	9.31707	0.4876367	3.2477	1.4652	8.59585	3.83209
10:08:10				554	9.3161	0.4884387	3.2477	1.4652	8.98657	3.83892
10:08:10				555	9.31902	0.4849106	3.2477	1.4652	9.08425	3.80904
10:08:11				556	9.31707	0.4991807	3.2477	1.51404	9.27961	3.92896
10:08:11				557	9.31512	0.4940495	3.2477	1.4652	9.96337	3.88609
10:08:12				558	9.31317	0.4908435	3.2477	1.41636	9.13309	3.8594
10:08:12				559	9.31415	0.4946907	3.2477	1.4652	9.32845	3.89158
10:08:13				560	9.31025	0.4985395	3.1493	1.4652	9.32845	3.92432
10:08:13				561	9.31902	0.4945304	3.2477	1.41636	9.37729	3.8897
10:08:14				562	9.31317	0.4945304	3.2477	1.4652	9.03541	3.89034
10:08:14				563	9.3083	0.490202	3.1493	1.4652	9.08425	3.85455
10:08:15				564	9.3044	0.4942098	3.2477	1.41636	9.23077	3.8886
10:08:15				565	9.3005	0.4940495	3.2477	1.4652	9.03541	3.88767
10:08:16				566	9.30245	0.4929279	3.2477	1.4652	9.13309	3.87805
10:08:16				567	9.3005	0.4913235	3.2477	1.4652	9.42613	3.86479
10:08:17				568	9.29757	0.4926059	3.2477	1.4652	9.23077	3.87587
10:08:17				569	9.29361	0.4924458	3.1493	1.51404	8.98657	3.87496
10:08:18				570	9.29166	0.4924458	3.1493	1.4652	9.52381	3.87517
10:08:18				571	9.29068	0.4919655	3.2477	1.4652	9.67033	3.87124
10:08:19				572	9.29166	0.4922857	3.2477	1.4652	9.13309	3.87382
10:08:19				573	9.28873	0.4919655	3.1493	1.4652	9.81685	3.87145
10:08:20				574	9.28776	0.4908435	3.2477	1.41636	9.03541	3.86213
10:08:20				575	9.28483	0.490362	3.2477	1.4652	8.88889	3.8584
10:08:21				576	9.28288	0.4828274	3.1493	1.4652	9.47497	3.79541
10:08:21				577	9.28678	0.4828274	3.2477	1.4652	9.42613	3.79499
10:08:22				578	9.28678	0.4831476	3.2477	1.4652	9.18193	3.79767
10:08:22				579	9.29263	0.4813831	3.1493	1.4652	9.42613	3.78227
10:08:23				580	9.29458	0.4842697	3.2477	1.4652	9.13309	3.80626

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:08:23				581	9.29458	0.4857131	3.2477	1.4652	9.27961	3.81836
10:08:24				582	9.29952	0.4784979	3.1493	1.51404	9.27961	3.75738
10:08:24				583	9.31025	0.4783374	3.1493	1.51404	9.27961	3.75491
10:08:25				584	9.31122	0.4829867	3.1493	1.4652	9.67033	3.79375
10:08:25				585	9.31122	0.4781769	3.2477	1.4652	9.67033	3.75346
10:08:26				586	9.31415	0.4781769	3.1493	1.4652	9.13309	3.75316
10:08:26				587	9.31512	0.4789795	3.1493	1.41636	9.32845	3.75978
10:08:27				588	9.31415	0.4802612	3.1493	1.4652	9.23077	3.77061
10:08:27				589	9.31025	0.4804219	3.2477	1.4652	9.37729	3.77236
10:08:28				590	9.31122	0.4809024	3.2477	1.41636	9.57265	3.77628
10:08:28				591	9.3122	0.4825056	3.1493	1.4652	9.42613	3.78962
10:08:29				592	9.3083	0.4821855	3.2477	1.4652	9.52381	3.78734
10:08:29				593	9.31122	0.4794596	3.2477	1.41636	9.13309	3.7642
10:08:30				594	9.31317	0.4799415	3.1493	1.4652	9.76801	3.76804
10:08:30				595	9.31025	0.487156	3.2477	1.4652	9.96337	3.82879
10:08:31				596	9.3083	0.4801006	3.2477	1.4652	9.47497	3.76988
10:08:31				597	9.31025	0.4804219	3.1493	1.4652	8.93773	3.77237
10:08:32				598	9.31707	0.4786584	3.1493	1.4652	9.47497	3.75689
10:08:32				599	9.31902	0.481383	3.1493	1.4652	9.47497	3.7795
10:08:33				600	9.31317	0.4828274	3.2477	1.4652	9.08425	3.7922
10:08:33				601	9.3122	0.4804219	3.2477	1.51404	9.27961	3.77216
10:08:34				602	9.31415	0.4796203	3.1493	1.4652	9.18193	3.76525
10:08:34				603	9.31025	0.4833069	3.2477	1.4652	9.32845	3.79653
10:08:35				604	9.3044	0.4797809	3.2477	1.4652	9.91453	3.76761
10:08:36				607	9.30689	0.4807532	3.2477	1.4652	9.62149	3.77549
10:08:37				608	9.30689	0.4804334	3.1493	1.4652	9.13309	3.77282
10:08:37				609	9.30592	0.4825171	3.1493	1.4652	9.32845	3.79037
10:08:38				610	9.30982	0.4823562	3.2477	1.41636	9.91453	3.78861
10:08:38				611	9.31469	0.4817161	3.2477	1.4652	9.18193	3.78273
10:08:39				612	9.31664	0.4817161	3.2477	1.41636	9.27961	3.78253
10:08:39				613	9.32054	0.4818753	3.1493	1.4652	9.62149	3.78346
10:08:40				614	9.32347	0.4818753	3.2477	1.4652	9.42613	3.78314
10:08:40				615	9.32737	0.4809139	3.2477	1.4652	9.13309	3.77468
10:08:41				616	9.33029	0.4809139	3.1493	1.4652	9.13309	3.77438
10:08:41				617	9.32737	0.4813945	3.2477	1.4652	9.32845	3.77871
10:08:42				618	9.32249	0.4809139	3.1493	1.4652	9.32845	3.7752
10:08:42				619	9.32932	0.4809139	3.1493	1.4652	9.27961	3.77449
10:08:43				620	9.33718	0.480594	3.1493	1.4652	9.27961	3.77098
10:08:43				621	9.33912	0.4810746	3.1493	1.4652	9.32845	3.7748
10:08:44				622	9.34302	0.480594	3.2477	1.4652	9.42613	3.77037
10:08:44				623	9.34692	0.4804333	3.2477	1.51404	9.03541	3.76861
10:08:45				624	9.34887	0.4802726	3.1493	1.4652	9.18193	3.76707
10:08:45				625	9.35082	0.4804333	3.2477	1.4652	9.23077	3.7682
10:08:46				626	9.35179	0.480594	3.2477	1.51404	9.03541	3.76945
10:08:46				627	9.35179	0.4797923	3.2477	1.4652	9.13309	3.76274
10:08:47				628	9.35179	0.4797923	3.1493	1.4652	9.23077	3.76275

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:08:47				629	9.34984	0.4794711	3.1493	1.51404	9.62149	3.76026
10:08:48				630	9.34984	0.4794711	3.2477	1.4652	9.52381	3.76026
10:08:48				631	9.35179	0.4791499	3.1493	1.4652	9.18193	3.75737
10:08:49				632	9.35179	0.4793105	3.1493	1.4652	8.88889	3.75872
10:08:49				633	9.35179	0.4788304	3.1493	1.4652	9.76801	3.7547
10:08:50				634	9.34887	0.4781883	3.2477	1.41636	9.18193	3.74963
10:08:50				635	9.35082	0.4773877	3.1493	1.4652	9.27961	3.74274
10:08:51				636	9.34984	0.4778673	3.1493	1.4652	8.98657	3.74685
10:08:51				637	9.34984	0.4778674	3.2477	1.41636	9.03541	3.74684
10:08:52				638	9.34887	0.4777069	3.2477	1.4652	9.32845	3.7456
10:08:52				639	9.34692	0.4778674	3.1493	1.4652	9.13309	3.74716
10:08:53				640	9.34887	0.4778674	3.2477	1.41636	9.27961	3.74695
10:08:53				641	9.34497	0.4778674	3.2477	1.4652	8.88889	3.74735
10:08:54				642	9.34887	0.4778674	3.2477	1.4652	9.57265	3.74695
10:08:54				643	9.3479	0.4778673	3.1493	1.41636	8.98657	3.74705
10:08:55				644	9.34497	0.4778674	3.1493	1.4652	8.69353	3.74736
10:08:55				645	9.34692	0.4780278	3.1493	1.4652	9.23077	3.7485
10:08:56				646	9.34692	0.4777069	3.2477	1.41636	9.03541	3.74581
10:08:56				647	9.34887	0.4773877	3.2477	1.41636	9.03541	3.74294
10:08:57				648	9.3479	0.4773877	3.1493	1.4652	9.13309	3.74304
10:08:57				649	9.34692	0.4772273	3.2477	1.41636	9.23077	3.7418
10:08:58				650	9.3479	0.4770669	3.2477	1.4652	8.74237	3.74035
10:08:58				651	9.34692	0.4769065	3.2477	1.4652	9.18193	3.73911
10:08:59				652	9.34595	0.4770669	3.2477	1.41636	9.32845	3.74056
10:08:59				653	9.34692	0.4765858	3.2477	1.4652	10.15873	3.73643
10:09:00				654	9.34497	0.4767461	3.2477	1.4652	8.93773	3.73798
10:09:00				655	9.34692	0.4748212	3.1493	1.41636	9.32845	3.72169
10:09:01				656	9.34302	0.475624	3.2477	1.4652	9.52381	3.7288
10:09:01				657	9.34497	0.475624	3.2477	1.4652	9.27961	3.72859
10:09:02				658	9.344	0.4754637	3.1493	1.41636	8.98657	3.72736
10:09:02				659	9.33912	0.4753035	3.1493	1.4652	9.37729	3.72653
10:09:03				660	9.34205	0.4773877	3.1493	1.4652	9.62149	3.74365
10:09:03				661	9.3401	0.4748212	3.2477	1.4652	9.67033	3.72239
10:09:04				662	9.34107	0.4753035	3.2477	1.4652	9.27961	3.72632
10:09:04				663	9.34107	0.4751433	3.1493	1.4652	9.03541	3.72499
10:09:05				664	9.34107	0.4775481	3.1493	1.41636	9.71917	3.74509
10:09:05				665	9.34205	0.4765858	3.2477	1.4652	9.37729	3.73694
10:09:06				666	9.34205	0.4769065	3.2477	1.4652	9.08425	3.73962
10:09:06				667	9.344	0.4757842	3.1493	1.4652	9.03541	3.73004
10:09:07				668	9.34302	0.4772273	3.2477	1.4652	9.57265	3.7422
10:09:07				669	9.34205	0.4762651	3.2477	1.4652	9.71917	3.73426
10:09:08				670	9.34302	0.4762651	3.2477	1.41636	9.37729	3.73416
10:09:08				671	9.344	0.4764254	3.2477	1.4652	9.37729	3.7354
10:09:09				672	9.34302	0.4785093	3.1493	1.4652	9.13309	3.75293
10:09:09				673	9.34497	0.4778674	3.3461	1.4652	9.03541	3.74735
10:09:10				674	9.3479	0.4778674	3.3461	1.4652	9.67033	3.74704

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:09:10				675	9.34984	0.4797923	3.2477	1.4652	9.18193	3.76294
10:09:11				676	9.3479	0.4842811	3.3461	1.4652	9.37729	3.8007
10:09:11				677	9.35764	0.4852427	3.4445	1.4652	9.27961	3.80772
10:09:12				678	9.36738	0.489091	3.4445	1.4652	9.08425	3.8389
10:09:12				679	9.36836	0.4897321	3.5428	1.4652	9.57265	3.84416
10:09:13	10:07:49 end transect	10.0	270	680	9.36933	0.492137	3.838	1.4652	9.03541	3.86418
10:09:13				681	9.3703	0.4950229	3.9364	1.4652	9.27961	3.88825
10:09:14				682	9.37615	0.5043232	4.1331	1.4652	8.98657	3.96559
10:09:14				683	9.3742	0.6900959	4.3299	1.4652	9.23077	5.54637
10:09:15				684	9.42489	0.7369689	4.5267	1.4652	8.93773	5.94296
10:09:15				685	9.43663	0.6385796	4.7234	1.4652	7.61905	5.09511
10:09:16				686	9.43274	0.5776152	4.7234	1.4652	6.69109	4.57691
10:09:16				687	9.42587	0.6308783	4.6251	1.4652	6.98413	5.03086
10:09:17				688	9.42003	0.6835147	4.5267	1.41636	7.08181	5.48268
10:09:17				689	9.44637	0.7128891	4.5267	1.4652	7.08181	5.73149
10:09:18				690	9.45318	0.6570337	4.5267	1.4652	7.08181	5.25056
10:09:18				691	9.45901	0.6969968	4.5267	1.41636	6.88645	5.59263
10:09:19				692	9.47166	0.7366483	4.5267	1.4652	6.78877	5.93247
10:09:19				693	9.48145	0.725892	4.6251	1.4652	6.69109	5.83799
10:09:20				694	9.48242	0.6976392	4.6251	1.41636	6.93529	5.59451
10:09:20				695	9.47555	0.7188285	4.5267	1.4652	6.78877	5.77803
10:09:21				696	9.48145	0.763299	4.5267	1.4652	6.69109	6.16144
10:09:21				697	9.55732	0.7287803	4.6251	1.41636	6.83761	5.85057
10:09:22				698	9.55538	0.7284592	4.5267	1.4652	6.78877	5.84813
10:09:22				699	9.54858	0.7702045	4.5267	1.4652	6.73993	6.20971
10:09:23				700	9.6225	0.7507761	4.6251	1.41636	7.13065	6.02934
10:09:23				701	9.67204	0.7515784	4.6251	1.4652	6.78877	6.02798
10:09:24				702	9.66913	0.7774297	4.6251	1.4652	7.08181	6.25134
10:09:24				703	9.75351	0.7999114	4.6251	1.41636	7.27717	6.43066
10:09:25				704	9.91429	0.8028008	4.7234	1.4652	7.17949	6.427
10:09:25				705	10.01097	0.7958948	4.8218	1.4652	7.13065	6.35067
10:09:26				706	9.88336	0.8389384	4.9202	1.41636	7.03297	6.74414
10:09:26				707	9.90076	0.8654426	5.0186	1.4652	6.98413	6.97013
10:09:27				708	10.24631	0.8699388	5.2153	1.51404	6.69109	6.94274
10:09:27				709	10.32805	0.8594968	5.2153	1.41636	6.64225	6.83782
10:09:28				710	10.33669	0.8848798	5.3137	12.35653	6.05617	7.05356
10:09:28				711	9.89303	0.8921104	5.4121	9.81685	6.15385	7.20293
10:09:29				712	9.73026	0.8844003	5.6089	5.27473	6.25153	7.16813
10:09:29				713	9.7322	0.8880941	5.6089	1.4652	5.07937	7.19996
10:09:30				714	9.71669	0.8638359	5.6089	1.4652	5.27473	6.99164
10:09:30				715	9.75738	0.8699402	5.5105	1.41636	5.22589	7.03687
10:09:31				716	9.73413	0.8951634	5.4121	1.4652	5.71429	7.26127
10:09:31				717	9.705	0.8943603	5.5105	1.4652	5.95849	7.2601
10:09:32				718	9.66713	0.8853631	5.5105	1.41636	6.25153	7.18909
10:09:32				719	9.65549	0.8829534	5.5105	1.4652	5.86081	7.17036
10:09:33				720	9.63317	0.8966097	5.5105	1.4652	6.34921	7.29426

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:09:33				721	9.62153	0.8937185	5.5105	1.4652	6.49573	7.2713
10:09:34				722	9.6225	0.887452	5.5105	1.4652	6.25153	7.21627
10:09:34				723	9.61079	0.8852028	5.5105	1.4652	5.90965	7.19893
10:09:35				724	9.60982	0.8970913	5.4121	1.4652	5.95849	7.30321
10:09:36				727	9.62699	0.8964168	5.5105	1.4652	5.32357	7.29382
10:09:37				728	9.6513	0.8952929	5.5105	1.4652	5.61661	7.27907
10:09:37				729	9.64063	0.8920794	5.5105	1.4652	5.22589	7.25311
10:09:38				730	9.60175	0.903487	5.5105	1.4652	4.83516	7.36089
10:09:38				731	9.64257	0.9058978	5.5105	1.4652	5.22589	7.37368
10:09:39				732	9.69016	0.8985064	5.5105	1.4652	4.68864	7.29933
10:09:39				733	9.66779	0.8991496	5.5105	1.4652	4.44444	7.30948
10:09:40				734	9.66585	0.9050932	5.5105	1.4652	4.78632	7.36188
10:09:40				735	9.67458	0.9094323	5.5105	1.4652	4.78632	7.39808
10:09:41				736	9.69113	0.912323	5.5105	1.4652	4.6398	7.41999
10:09:41				737	9.72311	0.9094322	5.5105	1.4652	4.73748	7.38814
10:09:42				738	9.69016	0.9680826	5.5105	1.4652	4.93284	7.90964
10:09:42				739	9.73964	0.9721014	5.5105	1.4652	4.83516	7.93413
10:09:43				740	9.85882	0.9815837	5.5105	1.4652	4.98168	7.99117
10:09:43				741	9.83271	0.9634223	5.5105	1.41636	4.93284	7.83765
10:09:44				742	9.82104	0.9910661	5.5105	1.4652	5.07937	8.08282
10:09:44				743	9.96138	0.9608503	5.5105	1.4652	5.22589	7.78741
10:09:45				744	9.92848	0.9762794	5.5105	14.84737	4.73748	7.92939
10:09:45				745	9.88983	0.9954054	5.4121	10.45177	4.83516	8.10555
10:09:46				746	10.02225	0.9894585	5.4121	11.42857	4.78632	8.02402
10:09:46				747	10.07535	0.9727431	5.4121	8.98657	4.93284	7.86656
10:09:47	10:08:23 start transect	10.0	270	748	10.0155	0.9304792	5.5105	2.97924	4.884	7.51146
10:09:47				749	9.944	0.9532966	5.5105	1.4652	4.98168	7.72519
10:09:48				750	9.90432	0.9229284	5.4121	1.4652	4.98168	7.46873
10:09:48				751	9.84432	0.9050927	5.4121	1.4652	4.73748	7.32562
10:09:49				752	9.75902	0.9060572	5.4121	1.4652	4.44444	7.35134
10:09:49				753	9.72117	0.9015584	5.5105	1.4652	4.44444	7.31972
10:09:50				754	9.67846	0.8962575	5.4121	1.4652	4.44444	7.28204
10:09:50				755	9.61243	0.8954541	5.4121	1.4652	4.6398	7.28834
10:09:51				756	9.60758	0.9022026	5.4121	1.4652	4.884	7.34846
10:09:51				757	9.68337	0.8940085	5.4121	1.51404	4.884	7.26139
10:09:52				758	9.68725	0.8951317	5.4121	1.4652	5.12821	7.27043
10:09:52				759	9.69694	0.8938475	5.4121	1.4652	5.03053	7.25726
10:09:53				760	9.69016	0.8883837	5.4121	1.4652	4.49328	7.21089
10:09:53				761	9.60855	0.8816378	5.4121	1.41636	4.78632	7.1682
10:09:54				762	9.5074	0.8766582	5.4121	1.4652	5.66545	7.14469
10:09:54				763	9.45093	0.8756932	5.5105	1.4652	5.76313	7.14743
10:09:55				764	9.42362	0.8736062	5.5105	1.41636	5.90965	7.13453
10:09:55				765	9.39928	0.8713573	5.4121	1.4652	5.81197	7.11961
10:09:56				766	9.38071	0.8713574	5.4121	1.4652	5.76313	7.12329
10:09:56				767	9.37974	0.8707152	5.5105	1.41636	5.71429	7.11782
10:09:57				768	9.37877	0.8728019	5.5105	1.4652	5.86081	7.13637

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:09:57				769	9.47525	0.8670187	5.5105	1.4652	6.00733	7.06653
10:09:58				770	9.55799	0.8615568	5.5105	1.41636	6.25153	7.00255
10:09:58				771	9.56285	0.8573801	5.5105	1.4652	6.15385	6.96511
10:09:59				772	9.53662	0.8461378	5.5105	1.4652	6.20269	6.87197
10:09:59				773	9.5405	0.8482257	5.5105	1.4652	5.95849	6.88946
10:10:00				774	9.58816	0.8485457	5.5105	1.51404	6.05617	6.88314
10:10:00				775	9.65324	0.8382662	5.5105	1.4652	6.05617	6.78129
10:10:01				776	9.68628	0.8389098	5.5105	1.4652	6.10501	6.78068
10:10:01				777	9.70373	0.8307182	5.5105	1.4652	6.44689	6.7063
10:10:02				778	9.67555	0.8217234	5.5105	1.4652	6.44689	6.63346
10:10:02				779	9.6231	0.8194747	5.5105	1.4652	6.44689	6.62358
10:10:03				780	9.5609	0.8122481	5.5105	1.4652	6.78877	6.57216
10:10:03				781	9.54439	0.8116057	5.4121	1.41636	6.64225	6.5696
10:10:04				782	9.5473	0.8090357	5.5105	1.4652	6.83761	6.54671
10:10:04				783	9.53564	0.8077508	5.5105	1.4652	6.73993	6.53766
10:10:05				784	9.51906	0.808715	5.5105	1.41636	6.49573	6.54906
10:10:05				785	9.5142	0.8091972	5.5105	1.4652	6.49573	6.55414
10:10:06				786	9.51323	0.8053423	5.5105	1.4652	6.54457	6.52077
10:10:06				787	9.50351	0.7843072	5.4121	1.41636	6.69109	6.33973
10:10:07				788	9.49767	0.7859126	5.5105	1.4652	6.88645	6.35469
10:10:07				789	9.47427	0.7855911	5.5105	1.4652	6.73993	6.35603
10:10:08				790	9.45871	0.7844671	5.4121	1.4652	6.69109	6.34901
10:10:08				791	9.45287	0.781738	5.4121	1.4652	6.83761	6.32632
10:10:09				792	9.44314	0.7815766	5.5105	1.4652	6.73993	6.32662
10:10:09				793	9.44022	0.7793289	5.5105	1.4652	6.83761	6.3076
10:10:10				794	9.4412	0.7732271	5.4121	1.4652	6.64225	6.25443
10:10:10				795	9.44022	0.7902473	5.5105	1.4652	6.83761	6.40255
10:10:11				796	9.4373	0.7855912	5.5105	1.4652	6.83761	6.36256
10:10:11				797	9.43335	0.7830224	5.5105	1.4652	6.69109	6.34092
10:10:12				798	9.43238	0.8175484	5.4121	1.41636	6.54457	6.64194
10:10:12				799	9.43335	0.8265415	5.5105	1.4652	7.17949	6.7203
10:10:13				800	9.46357	0.8177084	5.5105	1.4652	6.54457	6.63757
10:10:13				801	9.46747	0.8278266	5.4121	1.41636	6.49573	6.72516
10:10:14				802	9.484	0.8496708	5.5105	1.4652	6.78877	6.91292
10:10:14				803	9.51614	0.8515993	5.5105	1.4652	6.54457	6.9236
10:10:15				804	9.59301	0.8442094	5.5105	1.4652	6.59341	6.84441
10:10:15				805	9.54828	0.8593088	5.5105	1.51404	6.44689	6.98479
10:10:16				806	9.55799	0.8644492	5.5105	1.4652	6.59341	7.02784
10:10:16				807	9.63093	0.8384277	5.5105	1.4652	6.49573	6.78689
10:10:17				808	9.56965	0.8622006	5.4121	1.51404	6.44689	7.00592
10:10:17				809	9.61243	0.8716779	5.5105	1.4652	6.64225	7.08036
10:10:18				810	9.67167	0.8528835	5.5105	1.4652	6.64225	6.90497
10:10:18				811	9.64839	0.8437279	5.5105	1.4652	6.44689	6.82972
10:10:19				812	9.61243	0.8758545	5.5105	1.4652	6.64225	7.11686
10:10:19				813	9.64742	0.8684642	5.4121	1.4652	6.54457	7.04546
10:10:20				814	9.67749	0.85963	5.5105	1.41636	6.54457	6.9626

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:10:20				815	9.67555	0.8578618	5.5105	1.41636	6.54457	6.94758
10:10:21				816	9.66585	0.8552922	5.5105	1.4652	6.25153	6.92706
10:10:21				817	9.64548	0.858987	5.5105	1.4652	6.30037	6.96317
10:10:22				818	9.63093	0.8593086	5.5105	1.4652	6.39805	6.96879
10:10:22				819	9.62796	0.8527232	5.6089	1.4652	6.25153	6.91194
10:10:23				820	9.6134	0.8499928	5.5105	1.4652	6.25153	6.89094
10:10:23				821	9.59398	0.8530441	5.5105	1.4652	6.10501	6.92126
10:10:24				822	9.58233	0.8519197	5.4121	1.4652	6.15385	6.9137
10:10:24				823	9.58033	0.8601108	5.5105	1.4652	6.05617	6.98558
10:10:25				824	9.57159	0.8666979	5.5105	1.4652	6.39805	7.04484
10:10:25				825	9.59204	0.8581835	5.5105	1.4652	6.44689	6.96649
10:10:26				826	9.55799	0.8711953	5.4121	1.41636	6.49573	7.08685
10:10:26				827	9.5901	0.8665366	5.5105	1.4652	6.49573	7.03981
10:10:27				828	9.55993	0.8649306	5.5105	1.4652	6.20269	7.03167
10:10:27				829	9.57839	0.8630035	5.5105	1.41636	6.15385	7.01123
10:10:28				830	9.55993	0.8671797	5.4121	1.4652	6.39805	7.05134
10:10:28				831	9.49573	0.8665368	5.5105	1.4652	6.54457	7.05829
10:10:29				832	9.44022	0.8652533	5.5105	1.41636	6.39805	7.05792
10:10:29				833	9.46747	0.8663776	5.5105	1.4652	6.20269	7.06244
10:10:30				834	9.44801	0.8678233	5.5105	1.4652	6.54457	7.07894
10:10:30				835	9.42459	0.8668595	5.5105	1.4652	6.39805	7.07509
10:10:31				836	9.46357	0.8665369	5.5105	1.4652	6.30037	7.0646
10:10:31				837	9.45968	0.8683053	5.5105	1.4652	6.34921	7.08087
10:10:32				838	9.43238	0.8668595	5.5105	1.41636	6.30037	7.07356
10:10:32				839	9.4412	0.866537	5.5105	1.41636	6.00733	7.069
10:10:33				840	9.45482	0.8711956	5.4121	1.41636	6.10501	7.1072
10:10:33				841	9.42264	0.8715169	5.5105	1.41636	6.49573	7.11637
10:10:34				842	9.40415	0.8687857	5.5105	1.4652	6.00733	7.09604
10:10:34				843	9.41778	0.8683054	5.5105	1.4652	6.44689	7.08913
10:10:35				844	9.41194	0.871838	5.4121	1.4652	6.30037	7.12132
10:10:36				847	9.41857	0.8801948	5.5105	1.51404	6.10501	7.19343
10:10:37				848	9.4342	0.8732867	5.5105	1.4652	5.90965	7.12962
10:10:37				849	9.42934	0.885336	5.4121	1.4652	6.05617	7.23649
10:10:38				850	9.45658	0.8838903	5.5105	1.4652	5.66545	7.21829
10:10:38				851	9.4702	0.8768202	5.5105	1.41636	5.76313	7.15349
10:10:39				852	9.44491	0.8912797	5.5105	1.4652	6.25153	7.2856
10:10:39				853	9.51207	0.8911187	5.5105	1.4652	5.95849	7.2706
10:10:40				854	9.56169	0.8818001	5.4121	1.41636	5.71429	7.17895
10:10:40				855	9.49263	0.8854963	5.5105	1.4652	5.81197	7.22516
10:10:41				856	9.5306	0.8927253	5.5105	1.4652	6.30037	7.28095
10:10:41				857	9.57827	0.8896735	5.5105	1.4652	5.51893	7.24459
10:10:42				858	9.60448	0.886459	5.5105	1.51404	5.22589	7.21118
10:10:42				859	9.59671	0.8872637	5.4121	1.4652	5.22589	7.21979
10:10:43				860	9.59866	0.892886	5.5105	1.4652	5.47009	7.26862
10:10:43				861	9.60933	0.8917617	5.5105	1.4652	5.76313	7.25662
10:10:44				862	9.61516	0.8869425	5.5105	1.4652	4.93284	7.21328

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:10:44				863	9.57827	0.8935279	5.5105	1.4652	5.07937	7.27836
10:10:45				864	9.59963	0.8930469	5.5105	1.4652	4.884	7.26984
10:10:45				865	9.61031	0.8891913	5.5105	1.4652	4.6398	7.23393
10:10:46				866	9.56072	0.8888701	5.5105	1.41636	5.17705	7.24107
10:10:46				867	9.51985	0.8948141	5.5105	1.4652	5.32357	7.30147
10:10:47				868	9.56849	0.8944919	5.5105	1.4652	5.12821	7.28879
10:10:47				869	9.6006	0.8917617	5.5105	1.51404	4.93284	7.25838
10:10:48				870	9.60351	0.8907968	5.5105	1.4652	5.17705	7.24935
10:10:48				871	9.59089	0.8924033	5.4121	1.4652	5.03053	7.26597
10:10:49				872	9.59477	0.892886	5.5105	1.4652	4.98168	7.2694
10:10:49				873	9.60448	0.8941717	5.5105	1.41636	4.83516	7.27871
10:10:50				874	9.60642	0.8933688	5.5105	1.41636	4.884	7.27128
10:10:50				875	9.6006	0.8935278	5.5105	1.4652	4.68864	7.27385
10:10:51				876	9.59089	0.8969024	5.5105	1.41636	4.73748	7.30538
10:10:51				877	9.59283	0.8940108	5.5105	1.4652	4.83516	7.27965
10:10:52				878	9.58992	0.9015627	5.5105	1.4652	4.78632	7.34643
10:10:52				879	9.59283	0.9005981	5.5105	1.4652	5.17705	7.33738
10:10:53				880	9.60933	0.8991518	5.5105	1.51404	4.73748	7.32135
10:10:53				881	9.61322	0.903489	5.5105	1.51404	4.73748	7.35857
10:10:54				882	9.6191	0.9018836	5.4121	1.4652	4.83516	7.34331
10:10:54				883	9.62687	0.8997951	5.5105	1.4652	4.6398	7.32343
10:10:55				884	9.62881	0.9515338	5.5105	1.41636	4.83516	7.77731
10:10:55				885	9.66373	0.9189147	5.5105	1.4652	5.17705	7.48339
10:10:56				886	9.68997	0.9089525	5.5105	1.4652	4.59096	7.39073
10:10:56				887	9.67446	0.9783719	5.5105	1.4652	4.73748	8.00372
10:10:57				888	9.7259	0.9586037	5.5105	1.4652	4.93284	7.8185
10:10:57				889	9.77439	0.9431772	5.5105	1.4652	4.68864	7.67278
10:10:58				890	9.76271	0.9780516	5.5105	1.4652	4.73748	7.98137
10:10:58				891	9.76562	0.9626228	5.5105	1.4652	4.68864	7.84519
10:10:59				892	9.76077	0.9729079	5.5105	1.4652	4.59096	7.93658
10:10:59				893	9.76465	0.9875342	5.5105	1.4652	5.03053	8.06435
10:11:00				894	9.76665	0.9619784	5.5105	1.4652	4.83516	7.83931
10:11:00				895	9.7414	0.9918723	5.5105	1.41636	4.83516	8.10774
10:11:01				896	9.7569	0.9856042	5.5105	1.4652	4.884	8.04909
10:11:01				897	9.77052	0.9751568	5.5105	1.4652	4.73748	7.9542
10:11:02				898	9.7773	0.9873715	5.4121	1.41636	4.93284	8.06011
10:11:02				899	9.77923	0.9864085	5.5105	1.51404	5.07937	8.05119
10:11:03				900	9.78407	0.9799783	5.4121	1.4652	4.93284	7.9936
10:11:03				901	9.79182	0.98914	5.4121	1.4652	4.884	8.07242
10:11:04				902	9.79763	0.9843188	5.4121	1.4652	5.12821	8.02874
10:11:04				903	9.79763	0.9854436	5.5105	1.4652	5.22589	8.03862
10:11:05				904	9.80537	0.9867294	5.5105	1.4652	4.68864	8.04819
10:11:05				905	9.80731	0.9854436	5.4121	1.4652	5.22589	8.03648
10:11:06				906	9.80537	0.9783714	5.4121	1.41636	4.78632	7.97478
10:11:06				907	9.79472	0.9814257	5.4121	1.4652	5.12821	8.00396
10:11:07				908	9.77827	0.973389	5.5105	1.4652	5.07937	7.93697

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:11:07				909	9.76858	0.9629431	5.5105	1.4652	4.98168	7.84735
10:11:08				910	9.75303	0.9651941	5.4121	1.4652	5.27473	7.87052
10:11:08				911	9.74043	0.9595692	5.5105	1.4652	4.93284	7.82384
10:11:09				912	9.73946	0.9621396	5.5105	1.4652	4.78632	7.84662
10:11:09				913	9.72881	0.952015	5.5105	1.4652	5.12821	7.76001
10:11:10				914	9.73365	0.9483198	5.5105	1.41636	5.17705	7.72655
10:11:10				915	9.74721	0.9528196	5.4121	1.4652	5.27473	7.76313
10:11:11				916	9.74721	0.9529802	5.5105	1.4652	5.27473	7.76453
10:11:11				917	9.75593	0.9303228	5.5105	1.4652	4.78632	7.56411
10:11:12				918	9.75206	0.9181099	5.4121	1.4652	5.03053	7.45808
10:11:12				919	9.70064	0.9063809	5.4121	1.51404	4.83516	7.36606
10:11:13				920	9.65209	0.9018835	5.5105	1.4652	5.03053	7.33659
10:11:13				921	9.6356	0.8978655	5.5105	1.4652	5.17705	7.30476
10:11:14				922	9.64239	0.8969022	5.5105	1.4652	4.93284	7.29495
10:11:14				923	9.62104	0.892725	5.4121	1.4652	5.12821	7.26271
10:11:15				924	9.60157	0.8919226	5.4121	1.4652	4.98168	7.25961
10:11:15				925	9.6191	0.89144	5.4121	1.41636	5.03053	7.25185
10:11:16				926	9.63657	0.8901556	5.4121	1.4652	4.884	7.23711
10:11:16				927	9.62492	0.8724839	5.5105	1.4652	4.83516	7.08494
10:11:17				928	9.52769	0.8689487	5.5105	1.4652	5.03053	7.07313
10:11:17				929	9.44393	0.8678253	5.4121	1.4652	5.22589	7.07977
10:11:18				930	9.38059	0.8668616	5.4121	1.4652	5.27473	7.08379
10:11:18				931	9.3591	0.8658982	5.5105	1.4652	5.51893	7.07955
10:11:19				932	9.36982	0.8655758	5.4121	1.4652	5.47009	7.07461
10:11:19				933	9.36689	0.865737	5.4121	1.41636	5.51893	7.07661
10:11:20				934	9.34741	0.8654167	5.4121	1.4652	5.66545	7.07763
10:11:20				935	9.35325	0.8652555	5.4121	1.4652	5.86081	7.07506
10:11:21				936	9.35228	0.8650943	5.4121	1.41636	5.76313	7.07384
10:11:21				937	9.34643	0.8649332	5.5105	1.4652	5.71429	7.07356
10:11:22				938	9.35131	0.8646129	5.4121	1.4652	5.61661	7.06979
10:11:22				939	9.34936	0.8646129	5.4121	1.4652	5.86081	7.07018
10:11:23				940	9.35325	0.8654166	5.4121	1.4652	5.81197	7.07648
10:11:23				941	9.37274	0.8646128	5.4121	1.41636	5.76313	7.06557
10:11:24				942	9.37566	0.8641315	5.4121	1.4652	5.66545	7.06077
10:11:24				943	9.38351	0.865737	5.5105	1.4652	5.86081	7.07332
10:11:25				944	9.40786	0.8647739	5.5105	1.4652	6.15385	7.06007
10:11:25				945	9.48291	0.8671819	5.4121	1.4652	6.05617	7.06647
10:11:26				946	9.46242	0.87907	5.4121	1.51404	6.20269	7.1748
10:11:26				947	9.50819	0.8739293	5.5105	1.4652	5.95849	7.1206
10:11:27				948	9.58409	0.8708761	5.4121	1.4652	6.00733	7.07893
10:11:27				949	9.57535	0.8875849	5.4121	1.41636	6.00733	7.22688
10:11:28				950	9.59574	0.8853355	5.4121	1.4652	6.05617	7.20311
10:11:28				951	9.57827	0.872484	5.4121	1.4652	5.90965	7.09413
10:11:29				952	9.48971	0.8731269	5.4121	1.41636	6.20269	7.11724
10:11:29				953	9.43712	0.8769822	5.4121	1.4652	6.00733	7.16151
10:11:30				954	9.43907	0.8724844	5.4121	1.4652	6.00733	7.12162

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:11:30				955	9.42538	0.8726441	5.4121	1.4652	5.90965	7.12574
10:11:31				956	9.42739	0.8715208	5.4121	1.4652	5.71429	7.11548
10:11:31				957	9.41662	0.8728057	5.4121	1.4652	6.05617	7.1289
10:11:32				958	9.41565	0.8729654	5.4121	1.41636	5.90965	7.13049
10:11:32				959	9.42441	0.8721632	5.4121	1.4652	5.90965	7.12171
10:11:33				960	9.44296	0.8728057	5.5105	1.4652	6.10501	7.12366
10:11:33				961	9.43809	0.8732867	5.4121	1.4652	6.00733	7.12886
10:11:34				962	9.42343	0.8774641	5.5105	1.4652	6.05617	7.16846
10:11:34				963	9.43712	0.8803549	5.4121	1.4652	5.71429	7.19114
10:11:35				964	9.45074	0.8760188	5.5105	1.51404	5.90965	7.15033
10:11:36				967	9.57098	0.8835534	5.6089	1.4652	6.00733	7.19243
10:11:37				968	9.60211	0.882912	5.5105	1.41636	6.25153	7.18062
10:11:37				969	9.55738	0.8813057	5.5105	1.4652	5.76313	7.17546
10:11:38				970	9.55641	0.8829121	5.3137	1.51404	5.81197	7.18975
10:11:38				971	9.57687	0.884678	5.5105	1.4652	6.00733	7.20111
10:11:39				972	9.56515	0.8821088	5.5105	1.51404	5.56777	7.18095
10:11:39				973	9.57396	0.8819485	5.5105	1.4652	5.81197	7.17779
10:11:40				974	9.59046	0.8821087	5.5105	1.4652	5.81197	7.17591
10:11:40				975	9.58561	0.8835534	5.5105	1.4652	5.81197	7.18952
10:11:41				976	9.60114	0.8821087	5.5105	1.41636	5.95849	7.17378
10:11:41				977	9.63323	0.8832326	5.4121	1.4652	6.20269	7.17723
10:11:42				978	9.63809	0.8830722	5.5105	1.4652	5.95849	7.17486
10:11:42				979	9.65458	0.8821085	5.5105	1.4652	5.90965	7.16316
10:11:43				980	9.65555	0.8803404	5.5105	1.51404	5.71429	7.14752
10:11:43				981	9.64391	0.87986	5.5105	1.4652	6.05617	7.14563
10:11:44				982	9.63614	0.8788956	5.5105	1.4652	5.86081	7.13874
10:11:44				983	9.63129	0.8795379	5.5105	1.4652	5.76313	7.14532
10:11:45				984	9.63226	0.8819483	5.5105	1.41636	5.95849	7.16619
10:11:45				985	9.63032	0.8805026	5.5105	1.4652	5.86081	7.15394
10:11:46				986	9.63906	0.8811452	5.5105	1.4652	5.95849	7.15782
10:11:46				987	9.65652	0.8796979	5.5105	1.4652	5.95849	7.14172
10:11:47				988	9.66622	0.8806626	5.5105	1.51404	5.86081	7.14822
10:11:47				989	9.67204	0.8806626	5.5105	1.51404	6.10501	7.14707
10:11:48				990	9.67404	0.8795378	5.5105	1.4652	6.05617	7.13686
10:11:48				991	9.68858	0.8816257	5.5105	1.4652	6.05617	7.1522
10:11:49	10:10:25 end transect	10.0	120	992	9.69925	0.8838757	5.6089	1.41636	6.20269	7.16971
10:11:49				993	9.66622	0.8858029	5.6089	1.4652	6.25153	7.19311
10:11:50				994	9.63809	0.8941577	5.7073	1.4652	6.39805	7.27178
10:11:50				995	9.61959	0.9839803	5.904	1.4652	6.20269	8.06538
10:11:51				996	9.81559	1.0564746	6.1008	1.51404	5.81197	8.66063
10:11:51				997	10.03997	1.0442577	6.3959	1.4652	5.51893	8.49983
10:11:52				998	9.88535	1.0429713	6.3959	16.60562	5.27473	8.52481
10:11:52				999	9.76132	1.3086851	6.5927	10.06105	5.12821	10.93092
10:11:53				1000	9.22781	1.7499473	6.7895	6.59341	5.17705	15.20636
10:11:53				1001	8.82195	1.8493975	7.0846	6.69109	5.17705	16.33413
10:11:54				1002	8.65256	1.8160323	7.183	1.51404	3.56532	16.09001

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:11:54				1003	8.54497	1.8626174	7.3798	1.4652	3.27228	16.59031
10:11:55				1004	8.41448	1.8365056	7.4781	1.51404	3.36996	16.39751
10:11:55				1005	8.35807	1.7096643	7.4781	1.4652	3.27228	15.19309
10:11:56				1006	8.46195	1.7001569	7.4781	1.4652	2.9304	15.05688
10:11:56				1007	8.53511	1.7452779	7.4781	1.4652	3.27228	15.46001
10:11:57				1008	8.49163	1.7671957	7.3798	1.41636	3.36996	15.69067
10:11:57				1009	8.44023	1.797014	7.3798	1.4652	3.1746	16.0023
10:11:58				1010	8.40361	1.8938964	7.4781	1.4652	3.27228	16.96176
10:11:58				1011	8.3907	1.8721312	7.2814	1.51404	3.32112	16.75563
10:11:59				1012	8.36301	1.8242537	7.4781	1.4652	2.9304	16.30216
10:11:59				1013	8.42732	1.8548815	7.3798	1.4652	2.9304	16.5703
10:12:00				1014	8.4214	1.9032466	7.3798	1.4652	3.1746	17.04448
10:12:00				1015	8.36994	1.8600417	7.4781	1.4652	3.1746	16.64753
10:12:01				1016	8.33625	1.8371494	7.4781	1.41636	3.12576	16.44017
10:12:01				1017	8.36005	1.8880925	7.4781	1.4652	3.1746	16.92599
10:12:02				1018	8.33922	1.9076014	7.3798	1.4652	3.32112	17.12682
10:12:02				1019	8.29957	1.8751956	7.4781	1.4652	3.32112	16.82888
10:12:03				1020	8.29957	1.863587	7.4781	1.51404	2.97924	16.71541
10:12:03				1021	8.31844	1.8908338	7.3798	1.51404	3.56532	16.97281
10:12:04				1022	8.29066	1.8903496	7.4781	1.4652	3.12576	16.98142
10:12:04				1023	8.26684	1.879225	7.4781	1.4652	3.22344	16.88396
10:12:05				1024	8.28274	1.8756783	7.3798	1.41636	3.02808	16.84167
10:12:05				1025	8.28274	1.8964747	7.3798	1.4652	3.12576	17.04525
10:12:06				1026	8.25694	1.8885772	7.4781	1.51404	3.07692	16.98032
10:12:06				1027	8.24505	1.8855124	7.4781	1.4652	2.88156	16.95601
10:12:07				1028	8.25	1.8977656	7.3798	1.4652	2.97924	17.07375
10:12:07				1029	8.24802	1.8971215	7.4781	1.4652	3.12576	17.06837
10:12:08				1030	8.24703	1.8895429	7.4781	1.4652	3.22344	16.99456
10:12:08				1031	8.24703	1.8888999	7.3798	1.4652	2.97924	16.98828
10:12:09				1032	8.24307	1.8976039	7.3798	1.41636	3.27228	17.07553
10:12:09				1033	8.2401	1.8916389	7.4781	1.4652	3.32112	17.01845
10:12:10				1034	8.23811	1.8895429	7.3798	1.4652	3.12576	16.99888
10:12:10				1035	8.23217	1.8909957	7.3798	1.4652	3.12576	17.016
10:12:11				1036	8.23316	1.8947026	7.3798	1.4652	3.07692	17.05187
10:12:11				1037	8.23613	1.8897043	7.3798	1.4652	2.9304	17.00142
10:12:12				1038	8.24208	1.9066325	7.3798	1.4652	2.88156	17.16458
10:12:12				1039	8.2401	1.9205005	7.3798	1.4652	2.97924	17.30168
10:12:13				1040	8.22821	1.9155007	7.3798	1.4652	3.02808	17.25842
10:12:13				1041	8.23613	1.9096957	7.3798	1.51404	2.97924	17.19754
10:12:14	10:10:50 start transect	10.0	120	1042	8.2391	1.9316243	7.2814	1.51404	3.07692	17.41148
10:12:14				1043	8.22721	1.9496856	7.3798	1.4652	3.27228	17.59498
10:12:15				1044	8.21823	1.9264659	7.4781	1.4652	3.07692	17.37104
10:12:15				1045	8.23019	1.9232397	7.3798	1.41636	2.97924	17.33346
10:12:16				1046	8.23019	1.9359788	7.3798	1.4652	2.88156	17.45867
10:12:16				1047	8.22517	1.9353347	7.3798	1.4652	2.88156	17.45483
10:12:17				1048	8.2292	1.9132449	7.3798	1.4652	2.88156	17.23578

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:12:17				1049	8.2292	1.9124391	7.3798	1.51404	2.83272	17.22786
10:12:18				1050	8.22821	1.9035716	7.4781	1.4652	2.88156	17.14127
10:12:18				1051	8.23019	1.9006691	7.4781	1.4652	2.88156	17.11182
10:12:19				1052	8.2292	1.9011518	7.4781	1.4652	2.97924	17.11704
10:12:19				1053	8.23217	1.8979274	7.3798	1.4652	3.02808	17.08399
10:12:20				1054	8.2401	1.8987332	7.3798	1.4652	3.07692	17.08805
10:12:20				1055	8.2401	1.8972833	7.4781	1.4652	2.97924	17.0738
10:12:21				1056	8.2391	1.8934128	7.4781	1.4652	2.9304	17.03632
10:12:21				1057	8.23514	1.8918004	7.4781	1.4652	2.97924	17.02243
10:12:22				1058	8.22821	1.8914775	7.3798	1.4652	2.73504	17.02264
10:12:22				1059	8.22319	1.8909958	7.4781	1.4652	2.88156	17.02032
10:12:23				1060	8.22121	1.8901886	7.4781	1.4652	3.22344	17.01336
10:12:23				1061	8.22121	1.8914775	7.3798	1.41636	3.27228	17.02603
10:12:24				1062	8.22121	1.8950258	7.3798	1.4652	3.07692	17.06084
10:12:24				1063	8.23514	1.9000219	7.3798	1.4652	3.02808	17.10309
10:12:25				1064	8.24109	1.9014753	7.3798	1.4652	3.07692	17.11446
10:12:25				1065	8.23712	1.905666	7.3798	1.51404	3.1746	17.15751
10:12:26				1066	8.24604	1.9027647	7.3798	1.4652	3.02808	17.1247
10:12:26				1067	8.25	1.8967982	7.3798	1.4652	2.88156	17.06427
10:12:27				1068	8.24604	1.8969599	7.3798	1.4652	3.02808	17.06777
10:12:27				1069	8.25099	1.8987331	7.3798	1.41636	3.02808	17.08276
10:12:28				1070	8.25594	1.8997009	7.3798	1.4652	2.9304	17.08985
10:12:28				1071	8.25495	1.895831	7.3798	1.4652	2.9304	17.05239
10:12:29				1072	8.24703	1.9342044	7.3798	1.4652	2.9304	17.43289
10:12:29				1073	8.25495	1.9342043	7.3798	1.4652	2.97924	17.42897
10:12:30				1074	8.25198	1.9109873	7.3798	1.4652	2.88156	17.20248
10:12:30				1075	8.25	1.9063112	7.3798	1.4652	2.78388	17.15756
10:12:31				1076	8.25396	1.927434	7.3798	1.4652	2.9304	17.36295
10:12:31				1077	8.25297	1.9076019	7.4781	1.41636	3.02808	17.16875
10:12:32				1078	8.25594	1.9082448	7.3798	1.4652	3.12576	17.17364
10:12:32				1079	8.25297	1.902441	7.3798	1.4652	2.78388	17.11816
10:12:33				1080	8.25099	1.8992157	7.4781	1.4652	2.97924	17.08747
10:12:33				1081	8.24802	1.8955078	7.3798	1.4652	2.97924	17.05258
10:12:34				1082	8.23217	1.8930897	7.3798	1.4652	2.88156	17.03654
10:12:34				1083	8.20634	1.8901887	7.3798	1.4652	2.88156	17.02057
10:12:35				1084	8.1885	1.8897046	7.3798	1.4652	2.9304	17.02445
10:12:36				1087	8.17424	1.8892575	7.3798	1.4652	2.88156	17.02696
10:12:37				1088	8.17623	1.8915149	7.3798	1.4652	3.02808	17.04817
10:12:37				1089	8.18521	1.8902259	7.3798	1.51404	3.12576	17.03116
10:12:38				1090	8.19017	1.8900644	7.3798	1.4652	3.02808	17.02717
10:12:38				1091	8.18918	1.8907102	7.3798	1.4652	2.78388	17.03399
10:12:39				1092	8.19414	1.8910304	7.3798	1.4652	3.02808	17.03474
10:12:39				1093	8.19711	1.8900644	7.3798	1.41636	3.12576	17.02382
10:12:40				1094	8.18819	1.8918377	7.3798	1.4652	3.07692	17.04554
10:12:40				1095	8.18521	1.8903873	7.3798	1.4652	3.22344	17.03274
10:12:41				1096	8.17523	1.8907102	7.3798	1.4652	2.97924	17.04075

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:12:41				1097	8.16532	1.8916764	7.3798	1.4652	2.97924	17.05504
10:12:42				1098	8.1673	1.8931272	7.3798	1.4652	3.27228	17.06834
10:12:42				1099	8.17424	1.8915149	7.3798	1.4652	3.02808	17.04913
10:12:43				1100	8.16829	1.8921608	7.3798	1.4652	2.97924	17.05836
10:12:43				1101	8.16036	1.8924839	7.3798	1.41636	3.02808	17.06538
10:12:44				1102	8.14845	1.8928043	7.3798	1.4652	3.02808	17.07431
10:12:44				1103	8.14449	1.893612	7.4781	1.4652	3.1746	17.08415
10:12:45				1104	8.14052	1.8932889	7.3798	1.4652	3.02808	17.08293
10:12:45				1105	8.13953	1.8934504	7.3798	1.4652	3.22344	17.085
10:12:46				1106	8.13649	1.8894192	7.3798	1.4652	2.97924	17.04684
10:12:46				1107	8.13853	1.8899033	7.3798	1.4652	3.27228	17.05061
10:12:47				1108	8.13649	1.8905491	7.4781	1.4652	3.4188	17.05792
10:12:47				1109	8.13252	1.8903876	7.3798	1.41636	3.02808	17.05829
10:12:48				1110	8.13153	1.8895806	7.3798	1.4652	3.07692	17.05083
10:12:48				1111	8.14052	1.8894192	7.4781	1.4652	3.27228	17.04486
10:12:49				1112	8.14548	1.8882921	7.3798	1.4652	3.27228	17.0314
10:12:49				1113	8.14349	1.8887736	7.3798	1.51404	2.97924	17.03709
10:12:50				1114	8.14945	1.8886122	7.3798	1.4652	3.02808	17.03262
10:12:50				1115	8.16433	1.890226	7.3798	1.4652	3.1746	17.04127
10:12:51				1116	8.15837	1.8892576	7.3798	1.4652	3.02808	17.03464
10:12:51				1117	8.16135	1.8915149	7.3798	1.41636	3.12576	17.05538
10:12:52				1118	8.1673	1.8932887	7.3798	1.4652	3.07692	17.06992
10:12:52				1119	8.17127	1.8965125	7.3798	1.4652	3.12576	17.09967
10:12:53				1120	8.17827	1.8969974	7.3798	1.4652	3.1746	17.10103
10:12:53				1121	8.17623	1.8919993	7.3798	1.51404	3.12576	17.05293
10:12:54				1122	8.17722	1.8916763	7.3798	1.4652	2.88156	17.04927
10:12:54				1123	8.18125	1.8928041	7.3798	1.4652	2.88156	17.0584
10:12:55				1124	8.18125	1.890869	7.3798	1.4652	2.97924	17.03939
10:12:55				1125	8.17722	1.8910305	7.3798	1.41636	2.88156	17.04293
10:12:56				1126	8.17523	1.8923223	7.3798	1.4652	3.07692	17.05658
10:12:56				1127	8.17523	1.8936118	7.3798	1.4652	3.07692	17.06925
10:12:57				1128	8.17827	1.8987707	7.3798	1.4652	3.12576	17.11846
10:12:57				1129	8.18323	1.8952221	7.3798	1.4652	3.12576	17.08118
10:12:58				1130	8.18422	1.8966741	7.3798	1.4652	2.97924	17.09496
10:12:58				1131	8.1872	1.8994149	7.3798	1.4652	2.9304	17.12044
10:12:59				1132	8.19612	1.8969973	7.3798	1.4652	3.1746	17.09236
10:12:59				1133	8.19314	1.8958685	7.3798	1.41636	2.9304	17.08272
10:13:00				1134	8.19414	1.8961917	7.3798	1.41636	2.88156	17.08541
10:13:00				1135	8.19017	1.8968357	7.3798	1.4652	2.97924	17.09366
10:13:01				1136	8.18918	1.8950631	7.4781	1.41636	3.12576	17.07671
10:13:01				1137	8.18819	1.8934501	7.3798	1.4652	3.07692	17.06138
10:13:02				1138	8.17623	1.8911919	7.3798	1.4652	3.07692	17.045
10:13:02				1139	8.17623	1.89474	7.4781	1.4652	3.1746	17.07982
10:13:03				1140	8.17226	1.8905488	7.4781	1.4652	2.9304	17.04058
10:13:03				1141	8.1673	1.891192	7.3798	1.4652	2.97924	17.04932
10:13:04				1142	8.16928	1.8955454	7.3798	1.4652	2.97924	17.09113

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:13:04				1143	8.17623	1.8958686	7.3798	1.4652	3.1746	17.09094
10:13:05				1144	8.17926	1.8936117	7.3798	1.41636	3.07692	17.06729
10:13:05				1145	8.17325	1.8949016	7.3798	1.4652	3.1746	17.08288
10:13:06				1146	8.17623	1.8966741	7.3798	1.4652	3.02808	17.09885
10:13:06				1147	8.1862	1.8984472	7.3798	1.4652	3.1746	17.11142
10:13:07				1148	8.18521	1.8913533	7.3798	1.51404	2.9304	17.04223
10:13:07				1149	8.17325	1.8924838	7.3798	1.4652	2.97924	17.05913
10:13:08				1150	8.16829	1.8944169	7.3798	1.4652	3.07692	17.08053
10:13:08				1151	8.17028	1.8949016	7.3798	1.4652	3.27228	17.08433
10:13:09				1152	8.16532	1.8921608	7.3798	1.4652	3.07692	17.0598
10:13:09				1153	8.15341	1.8923224	7.3798	1.4652	3.1746	17.06717
10:13:10				1154	8.14548	1.8945786	7.3798	1.4652	3.27228	17.0932
10:13:10				1155	8.13953	1.8950634	7.3798	1.4652	3.07692	17.10086
10:13:11				1156	8.14548	1.8973209	7.3798	1.4652	3.27228	17.12017
10:13:11				1157	8.14349	1.8960304	7.3798	1.4652	3.22344	17.10844
10:13:12				1158	8.13549	1.895384	7.3798	1.4652	3.02808	17.10598
10:13:12				1159	8.13748	1.9003832	7.3798	1.4652	3.46764	17.15419
10:13:13				1160	8.14746	1.9007067	7.4781	1.4652	3.1746	17.15247
10:13:13				1161	8.14945	1.8973209	7.3798	1.4652	2.97924	17.11823
10:13:14				1162	8.12855	1.8981268	7.2814	1.4652	3.22344	17.13637
10:13:14				1163	8.12855	1.9044136	7.3798	1.41636	3.22344	17.19821
10:13:15				1164	8.13252	1.8990945	7.4781	1.4652	3.22344	17.1439
10:13:15				1165	8.12954	1.8992536	7.3798	1.4652	3.07692	17.14694
10:13:16				1166	8.12557	1.9081234	7.3798	1.4652	3.1746	17.23619
10:13:16				1167	8.13153	1.9036067	7.4781	1.51404	3.12576	17.18879
10:13:17				1168	8.12954	1.8979651	7.3798	1.51404	3.07692	17.13427
10:13:17				1169	8.10969	1.8936122	7.3798	1.4652	3.07692	17.1011
10:13:18				1170	8.10671	1.9090906	7.3798	1.4652	3.12576	17.25497
10:13:18				1171	8.10473	1.9028028	7.3798	1.4652	3.12576	17.19401
10:13:19				1172	8.10076	1.8994155	7.3798	1.4652	3.02808	17.16259
10:13:19				1173	8.09772	1.9192469	7.3798	1.4652	3.12576	17.3595
10:13:20				1174	8.11366	1.917636	7.3798	1.41636	3.07692	17.33575
10:13:20				1175	8.1216	1.9090905	7.3798	1.4652	3.12576	17.24766
10:13:21				1176	8.10671	1.9094121	7.3798	1.4652	3.32112	17.25814
10:13:21				1177	8.10771	1.9108633	7.3798	1.4652	3.07692	17.27195
10:13:22				1178	8.10473	1.9124744	7.3798	1.51404	3.07692	17.28929
10:13:22				1179	8.10572	1.9131207	7.4781	1.4652	2.97924	17.29514
10:13:23				1180	8.10373	1.9147326	7.3798	1.4652	2.97924	17.31203
10:13:23				1181	8.1087	1.9194093	7.3798	1.4652	3.07692	17.35568
10:13:24				1182	8.11763	1.9169891	7.3798	1.41636	3.02808	17.32742
10:13:24				1183	8.11962	1.919894	7.4781	1.41636	3.12576	17.35503
10:13:25				1184	8.11664	1.9187648	7.3798	1.4652	3.1746	17.3454
10:13:25				1185	8.10969	1.9169891	7.3798	1.41636	3.1746	17.33133
10:13:26				1186	8.11267	1.9206984	7.4781	1.4652	2.9304	17.36639
10:13:26				1187	8.1087	1.905704	7.3798	1.4652	3.07692	17.22064
10:13:27				1188	8.11366	1.894902	7.3798	1.4652	3.12576	17.11186

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:13:27				1189	8.11366	1.9226328	7.3798	1.51404	3.36996	17.385
10:13:28				1190	8.10969	1.8887738	7.4781	1.4652	3.1746	17.05346
10:13:28				1191	8.11267	1.8734589	7.3798	1.4652	3.1746	16.90144
10:13:29				1192	8.11565	1.9032857	7.3798	1.4652	3.22344	17.19342
10:13:29				1193	8.11962	1.9024789	7.3798	1.4652	3.71184	17.18354
10:13:30				1194	8.12458	1.8591101	7.4781	1.4652	3.1746	16.75476
10:13:30				1195	8.11962	1.8533057	7.3798	1.4652	3.07692	16.70016
10:13:31				1196	8.12061	1.8737805	7.3798	1.4652	3.46764	16.90078
10:13:31				1197	8.12259	1.8386364	7.3798	1.4652	3.61416	16.55484
10:13:32				1198	8.12359	1.8350903	7.3798	1.4652	3.4188	16.5196
10:13:32				1199	8.12954	1.8899034	7.3798	1.4652	3.46764	17.05497
10:13:33				1200	8.13549	1.852017	7.3798	1.4652	3.51648	16.67998
10:13:33				1201	8.14647	1.8346066	7.3798	1.4652	3.56532	16.50411
10:13:34				1202	8.16333	1.9008657	7.3798	1.4652	3.51648	17.14632
10:13:34				1203	8.15738	1.8805511	7.3798	1.4652	3.51648	16.94959
10:13:35				1204	8.15639	1.8391202	7.3798	1.4652	3.56532	16.54367
10:13:36				1207	8.1616	1.8416143	7.3798	1.41636	3.51648	16.56565
10:13:37				1208	8.15862	1.8703117	7.3798	1.4652	3.46764	16.84847
10:13:37				1209	8.16457	1.8549934	7.4781	1.51404	3.32112	16.69534
10:13:38				1210	8.16656	1.8432272	7.4781	1.4652	3.32112	16.57909
10:13:38				1211	8.16854	1.8406458	7.3798	1.4652	3.22344	16.5529
10:13:39				1212	8.16953	1.8509647	7.3798	1.51404	3.61416	16.65353
10:13:39				1213	8.1735	1.8343607	7.4781	1.4652	3.27228	16.489
10:13:40				1214	8.17548	1.831296	7.3798	1.4652	3.22344	16.4581
10:13:40				1215	8.18242	1.847739	7.3798	1.4652	3.27228	16.61583
10:13:41				1216	8.18744	1.8222681	7.3798	1.4652	3.4188	16.3642
10:13:41				1217	8.19835	1.8250083	7.3798	1.4652	3.27228	16.38592
10:13:42				1218	8.20628	1.8351656	7.3798	1.41636	3.36996	16.48154
10:13:42				1219	8.20727	1.8245258	7.3798	1.4652	3.46764	16.37705
10:13:43				1220	8.21718	1.8240433	7.3798	1.4652	3.51648	16.36772
10:13:43				1221	8.22313	1.8154987	7.3798	1.41636	3.51648	16.2815
10:13:44				1222	8.2331	1.8151759	7.3798	1.4652	3.32112	16.27374
10:13:44				1223	8.24499	1.832748	7.3798	1.4652	3.27228	16.43981
10:13:45				1224	8.24697	1.8364543	7.4781	1.4652	3.32112	16.47507
10:13:45				1225	8.25093	1.8295224	7.4781	1.4652	3.12576	16.40551
10:13:46				1226	8.24598	1.832424	7.3798	1.4652	3.1746	16.43619
10:13:46				1227	8.24598	1.8308124	7.3798	1.4652	3.36996	16.42044
10:13:47				1228	8.25489	1.8274264	7.4781	1.4652	3.12576	16.3832
10:13:47				1229	8.25489	1.8259757	7.4781	1.41636	3.07692	16.36904
10:13:48				1230	8.25291	1.8254932	7.3798	1.4652	3.1746	16.36528
10:13:48				1231	8.25687	1.8248489	7.3798	1.4652	3.22344	16.35715
10:13:49				1232	8.26183	1.8237197	7.4781	1.41636	3.56532	16.3438
10:13:49				1233	8.26486	1.8187216	7.4781	1.4652	3.22344	16.29363
10:13:50				1234	8.27179	1.8125975	7.3798	1.4652	3.1746	16.23073
10:13:50				1235	8.27377	1.8117913	7.4781	1.4652	3.56532	16.22194
10:13:51				1236	8.27773	1.8011531	7.4781	1.4652	3.36996	16.11645

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:13:51				1237	8.28763	1.7942194	7.3798	1.51404	3.22344	16.04444
10:13:52				1238	8.28763	1.7864849	7.3798	1.4652	3.46764	15.96917
10:13:52				1239	8.2906	1.8055029	7.4781	1.51404	3.51648	16.15293
10:13:53				1240	8.30149	1.7818103	7.4781	1.4652	3.80952	15.91741
10:13:53				1241	8.30452	1.7806819	7.4781	1.4652	3.32112	15.90507
10:13:54				1242	8.30551	1.774072	7.4781	1.4652	3.32112	15.84038
10:13:54				1243	8.30749	1.7732677	7.4781	1.4652	3.4188	15.83167
10:13:55				1244	8.31046	1.7766507	7.4781	1.4652	3.32112	15.86321
10:13:55				1245	8.30947	1.7695602	7.4781	1.4652	3.51648	15.79477
10:13:56				1246	8.30947	1.7695602	7.4781	1.41636	3.4188	15.79477
10:13:56				1247	8.31145	1.7684324	7.3798	1.4652	3.36996	15.78295
10:13:57				1248	8.31343	1.7737497	7.4781	1.4652	3.4188	15.83369
10:13:57				1249	8.31145	1.7674644	7.4781	1.4652	3.61416	15.77353
10:13:58				1250	8.31343	1.7689139	7.4781	1.4652	3.32112	15.78672
10:13:58				1251	8.31442	1.7818103	7.4781	1.4652	3.27228	15.91157
10:13:59				1252	8.31244	1.7676266	7.4781	1.4652	3.56532	15.77466
10:13:59				1253	8.31442	1.7785858	7.4781	1.4652	3.61416	15.88024
10:14:00				1254	8.31343	1.7829364	7.4781	1.4652	3.71184	15.92297
10:14:00				1255	8.31442	1.768592	7.4781	1.4652	3.32112	15.78315
10:14:01				1256	8.32036	1.7803591	7.4781	1.4652	3.27228	15.89479
10:14:01				1257	8.31739	1.7801964	7.4781	1.41636	3.51648	15.89455
10:14:02				1258	8.31541	1.7718168	7.4781	1.4652	3.46764	15.81403
10:14:02				1259	8.31838	1.7855153	7.4781	1.4652	3.56532	15.9458
10:14:03				1260	8.30947	1.7829365	7.4781	1.41636	3.76068	15.92475
10:14:03				1261	8.30551	1.76134	7.5765	1.4652	3.76068	15.71668
10:14:04				1262	8.32135	1.7523143	7.3798	1.51404	3.80952	15.6221
10:14:04				1263	8.33223	1.7526375	7.4781	1.4652	3.71184	15.62039
10:14:05				1264	8.34218	1.7044492	7.4781	1.51404	3.71184	15.14951
10:14:05				1265	8.37976	1.6644876	7.2814	1.4652	3.663	14.74808
10:14:06				1266	8.4965	1.5923126	7.183	1.4652	3.76068	14.00824
10:14:06				1267	8.48367	1.550914	7.183	1.51404	4.34676	13.61818
10:14:07				1268	8.49552	1.5264336	7.0846	1.51404	4.78632	13.38057
10:14:07				1269	8.51729	1.419994	7.0846	1.4652	4.59096	12.3641
10:14:08				1270	8.64068	1.3198706	6.8878	1.4652	4.54212	11.38294
10:14:08				1271	8.97027	1.1782802	6.6911	1.41636	4.73748	9.9754
10:14:09	10:12:45 end transect	10.0	270	1272	9.28745	1.1052602	6.3959	1.41636	4.59096	9.22726
10:14:09				1273	9.52143	1.0330674	6.1992	1.4652	4.59096	8.52306
10:14:10				1274	9.57687	1.0240636	5.8056	1.4652	4.6398	8.43005
10:14:10				1275	9.52823	0.9448248	5.6089	1.4652	4.49328	7.73984
10:14:11				1276	9.52435	0.9509309	5.5105	1.4652	4.73748	7.79457
10:14:11				1277	9.69246	0.8898716	5.3137	1.4652	5.12821	7.22344
10:14:12				1278	9.87569	0.8458541	5.0186	1.51404	5.07937	6.80535
10:14:12				1279	9.62838	0.6474122	4.7234	1.4652	6.10501	5.14317
10:14:13				1280	9.48053	0.6610542	4.4283	1.4652	6.30037	5.28098
10:14:13				1281	9.38893	0.6283182	4.1331	1.4652	7.27717	5.01419
10:14:14				1282	9.35478	0.5117049	3.9364	1.4652	7.86325	4.02998

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

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10:14:14				1283	9.32554	0.477874	3.7396	1.4652	8.20513	3.7494
10:14:15				1284	9.29135	0.4932648	3.3461	1.4652	9.18193	3.88207
10:14:15				1285	9.25812	0.4600799	3.1493	1.41636	9.27961	3.60753
10:14:16				1286	9.26495	0.4236957	2.9526	1.4652	9.67033	3.3038
10:14:16				1287	9.21316	0.359281	2.7558	1.4652	9.86569	2.77635
10:14:17				1288	9.10359	0.3357334	2.559	1.41636	9.76801	2.59143
10:14:17				1289	9.05266	0.332371	2.2639	1.4652	10.45177	2.56755
10:14:18				1290	9.03302	0.3209989	1.9687	1.4652	11.33089	2.47582
10:14:18				1291	9.01637	0.3129918	1.772	1.4652	11.86813	2.4115
10:14:19				1292	9.00456	0.2984181	1.5752	1.51404	11.81929	2.2934
10:14:19				1293	9.00162	0.2990582	1.4768	1.51404	12.35653	2.29881
10:14:20				1294	8.98986	0.2894507	1.2801	1.4652	12.50305	2.22137
10:14:20				1295	8.98594	0.2934547	1.1817	1.51404	12.11233	2.25419
10:14:21				1296	8.98105	0.2891313	1.0833	1.51404	12.55189	2.21933
10:14:21				1297	8.98007	0.2875299	0.9849	1.4652	12.11233	2.20637
10:14:22				1298	8.97419	0.2884899	0.9849	1.4652	13.28449	2.21454
10:14:22				1299	8.97125	0.2889702	0.9849	1.4652	12.45421	2.21863
10:14:23				1300	8.97419	0.2883304	0.8865	1.4652	11.72161	2.21325
10:14:23				1301	8.97321	0.2849676	0.8865	1.4652	13.04029	2.18598
10:14:24				1302	8.96341	0.2859288	0.8865	1.41636	14.11477	2.19439
10:14:24				1303	8.96341	0.2875299	0.8865	1.41636	12.30769	2.2074
10:14:25				1304	8.96537	0.2876894	0.8865	1.4652	12.60073	2.20858
10:14:25				1305	8.96341	0.2875299	0.8865	1.4652	14.16361	2.2074
10:14:26				1306	8.96635	0.2872095	0.8865	1.4652	12.89377	2.20462
10:14:26				1307	8.96537	0.287369	0.8865	1.4652	12.40537	2.20597
10:14:27				1308	8.96237	0.287369	0.8865	1.4652	12.79609	2.20616
10:14:27				1309	8.96341	0.2870486	0.8865	1.4652	12.50305	2.20349
10:14:28				1310	8.96341	0.287369	0.8865	1.4652	12.01465	2.2061
10:14:28				1311	8.96341	0.2870486	0.8865	1.4652	11.96581	2.20349
10:14:29				1312	8.96341	0.287369	0.8865	1.51404	12.25885	2.2061
10:14:29				1313	8.96439	0.2876894	0.8865	1.4652	12.94261	2.20864
10:14:30				1314	8.96439	0.2870486	0.8865	1.4652	12.25885	2.20343
10:14:30				1315	8.96237	0.286569	0.7881	1.4652	12.30769	2.19966
10:14:31				1316	8.96537	0.2864082	0.7881	1.41636	12.60073	2.19817
10:14:31				1317	8.96237	0.2868892	0.6898	1.4652	12.79609	2.20227
10:14:32				1318	8.96635	0.286569	0.6898	1.4652	12.69841	2.19942
10:14:32				1319	8.96537	0.2870486	0.5914	1.4652	20.07326	2.20338
10:14:33				1320	9.01245	0.2880098	0.5914	1.4652	20.02442	2.20829
10:14:33				1321	9.06049	0.2888105	0.5914	1.4652	4.05372	2.21183
10:14:34				1322	9.10653	0.2884898	0.5914	1.4652	4.05372	2.2064
10:14:34	10:13:19 switch off	10.0	270	1323	9.16426	0.1630132	0.6898	1.4652	2.58852	1.20606
10:17:03	10:15:35 switch on	7.5	270	7	9.25349	0.4272255	1.1817	0	0	3.33427
10:17:04				8	9.24666	0.4262625	1.1817	0	0	3.3269
10:17:04				9	9.24861	0.4257828	1.1817	0	0	3.32273
10:17:05				10	9.2408	0.4248206	1.2801	0	0	3.31546

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

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10:17:05				11	9.21145	0.4105575	1.2801	0	0	3.19971
10:17:06				12	9.2095	0.3967771	1.3784	0	0	3.08572
10:17:06				13	9.22512	0.4006228	1.3784	0	0	3.11619
10:17:07				14	9.22512	0.4075124	1.2801	0	0	3.17325
10:17:07				15	9.22122	0.414403	1.2801	0	0	3.23074
10:17:08				16	9.21536	0.4087945	1.2801	0	0	3.18474
10:17:08				17	9.21731	0.4063914	1.3784	0	0	3.16464
10:17:09				18	9.20559	0.4084739	1.3784	0	0	3.18294
10:17:09				19	9.21341	0.4006228	1.2801	0	0	3.11721
10:17:10				20	9.21243	0.4078328	1.2801	0	0	3.17703
10:17:10				21	9.19876	0.4084739	1.3784	0	0	3.18355
10:17:11				22	9.19681	0.4012641	1.3784	0	0	3.12396
10:17:11				23	9.20657	0.3946941	1.2801	0	0	3.06875
10:17:12				24	9.18899	0.4019042	1.3784	0	0	3.12995
10:17:12				25	9.17819	0.3980585	1.3784	0	0	3.09903
10:17:13				26	9.19485	0.3918095	1.2801	0	0	3.04589
10:17:13				27	9.1929	0.3954952	1.2801	0	0	3.07655
10:17:14				28	9.19192	0.3996613	1.3784	0	0	3.11111
10:17:14				29	9.18997	0.3953346	1.3784	0	0	3.07546
10:17:15				30	9.1929	0.3932519	1.2801	0	0	3.05799
10:17:15				31	9.18704	0.3953346	1.2801	0	0	3.07572
10:17:16				32	9.18014	0.397097	1.3784	0	0	3.0909
10:17:16				33	9.18508	0.3903668	1.3784	0	0	3.03479
10:17:17				34	9.18802	0.3935726	1.2801	0	0	3.06106
10:17:17				35	9.18209	0.3954952	1.3784	0	0	3.07747
10:17:18				36	9.18112	0.3911689	1.3784	0	0	3.04176
10:17:18				37	9.18508	0.3916493	1.3784	0	0	3.04539
10:17:19				38	9.18014	0.3935726	1.2801	0	0	3.06173
10:17:19				39	9.17916	0.3918095	1.3784	0	0	3.04722
10:17:20				40	9.17525	0.394853	1.3784	0	0	3.07274
10:17:20				41	9.17428	0.3929313	1.3784	0	0	3.05692
10:17:21				42	9.17916	0.3900468	1.2801	0	0	3.03265
10:17:21				43	9.18307	0.3940523	1.3784	0	0	3.06544
10:17:22				44	9.17916	0.3921299	1.3784	0	0	3.04987
10:17:22				45	9.18307	0.3914892	1.3784	0	0	3.04424
10:17:23				46	9.18606	0.3930916	1.2801	0	0	3.05724
10:17:23				47	9.18899	0.3924504	1.2801	0	0	3.05169
10:17:24				48	9.19192	0.3926107	1.2801	0	0	3.05277
10:17:24				49	9.19192	0.3937315	1.2801	0	0	3.06204
10:17:25				50	9.19583	0.3945336	1.2801	0	0	3.06834
10:17:25				51	9.20169	0.3962966	1.2801	0	0	3.08242
10:17:26				52	9.19681	0.3951741	1.3784	0	0	3.07355
10:17:26				53	9.19583	0.3958148	1.1817	0.04884	0	3.07894
10:17:27				54	9.18899	0.3962966	1.2801	0	0	3.08351
10:17:27				55	9.18899	0.3962966	1.2801	0	0	3.08351
10:17:28				56	9.17916	0.396136	1.3784	0	0	3.08302

Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:17:28				57	9.18508	0.3943732	1.2801	0	0	3.06793
10:17:29				58	9.19192	0.3951741	1.2801	0	0	3.07397
10:17:29				59	9.18899	0.3954952	1.2801	0	0	3.07688
10:17:30				60	9.19192	0.3954952	1.2801	0	0	3.07663
10:17:30				61	9.19095	0.3956557	1.2801	0	0	3.07804
10:17:31				62	9.18997	0.3954952	1.2801	0	0	3.0768
10:17:31				63	9.19095	0.3954952	1.2801	0	0	3.07671
10:17:32				64	9.18704	0.3956557	1.2801	0	0	3.07838
10:17:32				65	9.18606	0.3951741	1.2801	0	0	3.07447
10:17:33				66	9.18899	0.3935726	1.2801	0	0	3.06097
10:17:33				67	9.18606	0.3954952	1.2801	0	0	3.07713
10:17:34				68	9.18606	0.3937315	1.2801	0	0	3.06254
10:17:34				69	9.18606	0.3932519	1.2801	0	0	3.05857
10:17:35				70	9.18014	0.3945336	1.2801	0	0	3.06968
10:17:35				71	9.17916	0.3937315	1.2801	0	0	3.06313
10:17:36				72	9.17819	0.3911689	1.1817	0	0	3.04201
10:17:36				73	9.17916	0.3938919	1.2801	0	0	3.06445
10:17:37				74	9.17721	0.3924504	1.2801	0	0	3.05269
10:17:37				75	9.17721	0.390687	1.2801	0	0	3.03811
10:17:38				76	9.17623	0.3932519	1.3784	0	0	3.0594
10:17:38				77	9.17525	0.3914892	1.2801	0	0	3.04491
10:17:39				78	9.1733	0.3894053	1.2801	0	0	3.02784
10:17:39				79	9.17525	0.3922902	1.2801	0	0	3.05153
10:17:40				80	9.16939	0.3916493	1.3784	0	0	3.04673
10:17:40				81	9.17037	0.3876437	1.2801	0	0	3.01352
10:17:41				82	9.17037	0.3879633	1.2801	0	0	3.01616
10:17:41				83	9.16939	0.390687	1.2801	0	0	3.03877
10:17:42				84	9.17232	0.3900468	1.2801	0	0	3.03323
10:17:42				85	9.17037	0.3871629	1.2801	0	0	3.00954
10:17:43				86	9.1733	0.3881246	1.2801	0	0	3.01725
10:17:43				87	9.16842	0.3900468	1.2801	0	0	3.03356
10:17:44				88	9.17135	0.3884443	1.2801	0	0	3.02006
10:17:44				89	9.17037	0.3865225	1.2801	0	0	3.00425
10:17:45				90	9.16939	0.3884443	1.2801	0	0	3.02022
10:17:45				91	9.17135	0.3889255	1.2801	0	0	3.02404
10:17:46				92	9.1733	0.3863613	1.2801	0	0	3.00267
10:17:46				93	9.17135	0.3873226	1.3784	0	0	3.01078
10:17:47				94	9.17037	0.3890854	1.2801	0	0	3.02544
10:17:47				95	9.1733	0.3858809	1.2801	0	0	2.9987
10:17:48				96	9.17135	0.3821959	1.2801	0.58608	0.29304	2.96843
10:17:48				97	9.16646	0.3834779	1.3784	0.39072	0.09768	2.97942
10:17:49				98	9.1733	0.3834779	1.2801	1.4652	3.85836	2.97885
10:17:49				99	9.16939	0.3829968	1.2801	1.4652	10.30525	2.9752
10:17:50				100	9.16939	0.3820351	1.2801	1.4652	11.37973	2.96726
10:17:50				101	9.16939	0.3818759	1.2801	1.4652	11.52625	2.96595
10:17:51				102	9.17037	0.3823567	1.2801	1.4652	11.13553	2.96984

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:17:51				103	9.16939	0.3818759	1.2801	1.4652	10.94017	2.96595
10:17:52				104	9.16939	0.3825159	1.3784	1.41636	10.98901	2.97123
10:17:52				105	9.16939	0.3820351	1.2801	1.41636	12.01465	2.96726
10:17:53				106	9.17037	0.3809133	1.2801	1.4652	11.13553	2.95792
10:17:53				107	9.16744	0.3821959	1.2801	1.4652	11.28205	2.96875
10:17:54				108	9.16744	0.3926107	1.2801	1.51404	10.98901	3.05485
10:17:54				109	9.17135	0.3878035	1.2801	1.4652	10.84249	3.01476
10:17:55				110	9.17232	0.384919	1.2801	1.4652	10.45177	2.99084
10:17:55				111	9.1733	0.3862017	1.2801	1.51404	10.64713	3.00136
10:17:56				112	9.17721	0.3834779	1.2801	1.4652	10.69597	2.97853
10:17:56				113	9.17428	0.4046283	1.2801	1.51404	11.67277	3.15382
10:17:57				114	9.17623	0.3932519	1.2801	1.4652	11.37973	3.05941
10:17:57				115	9.18112	0.3924504	1.2801	1.4652	11.18437	3.05236
10:17:58				116	9.18112	0.3945336	1.2801	1.41636	10.06105	3.0696
10:17:58				117	9.18411	0.3978977	1.2801	1.51404	10.79365	3.09719
10:17:59				118	9.18606	0.394853	1.2801	1.4652	10.94017	3.07182
10:17:59				119	9.19485	0.3918095	1.2801	1.4652	11.91697	3.04589
10:18:00				120	9.19192	0.3894053	1.2801	1.4652	10.40293	3.02627
10:18:00				121	9.18209	0.4054296	1.2801	1.4652	11.03785	3.15978
10:18:01				122	9.18606	0.391329	1.2801	1.41636	10.98901	3.04267
10:18:01				123	9.18307	0.391329	1.2801	1.4652	10.35409	3.04292
10:18:02				124	9.16842	0.4200135	1.2801	1.4652	10.74481	3.28214
10:18:03				127	9.18118	0.3920879	1.3784	1.4652	10.74481	3.04935
10:18:04	10:16:40 start transect	7.5	270	128	9.18606	0.3943311	1.2801	1.4652	11.08669	3.0675
10:18:04				129	9.19095	0.3892034	1.2801	1.41636	10.74481	3.02468
10:18:05				130	9.18606	0.3989769	1.2801	1.4652	10.84249	3.10596
10:18:05				131	9.18508	0.3954515	1.2801	1.4652	11.18437	3.07685
10:18:06				132	9.18704	0.3835955	1.3784	1.4652	10.89133	2.97868
10:18:06				133	9.18215	0.3932083	1.2801	1.4652	10.94017	3.05854
10:18:07				134	9.18508	0.4012203	1.2801	1.4652	10.59829	3.12463
10:18:07				135	9.18899	0.3895233	1.3784	1.4652	10.59829	3.02749
10:18:08				136	9.17336	0.403304	1.2801	1.4652	11.08669	3.14292
10:18:08				137	9.18508	0.3835955	1.2801	1.41636	11.42857	2.97885
10:18:09				138	9.18802	0.3901648	1.3784	1.4652	10.79365	3.03287
10:18:09				139	9.18802	0.3892034	1.3784	1.4652	10.89133	3.02492
10:18:10				140	9.17629	0.3909652	1.2801	1.4652	10.79365	3.04049
10:18:10				141	9.17043	0.4055473	1.2801	1.4652	10.50061	3.16178
10:18:11				142	9.18704	0.392729	1.3784	1.4652	10.50061	3.05416
10:18:11				143	9.19192	0.39449	1.3784	1.4652	10.84249	3.06831
10:18:12				144	9.1802	0.3965743	1.2801	1.4652	11.03785	3.08657
10:18:12				145	9.18997	0.3938498	1.3784	1.4652	11.96581	3.06318
10:18:13				146	9.18997	0.3866403	1.3784	1.4652	10.64713	3.00358
10:18:13				147	9.17825	0.3874405	1.2801	1.41636	10.59829	3.01118
10:18:14				148	9.17825	0.3898448	1.3784	1.4652	11.08669	3.03105
10:18:14				149	9.18215	0.3853588	1.3784	1.4652	11.13553	2.99365
10:18:15				150	9.17532	0.3866403	1.2801	1.4652	10.98901	3.00481

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:15				151	9.17727	0.3922482	1.2801	1.4652	10.79365	3.05101
10:18:16				152	9.17922	0.3863195	1.3784	1.4652	10.98901	3.00183
10:18:16				153	9.18118	0.3855184	1.3784	1.4652	10.84249	2.99505
10:18:17				154	9.17727	0.3882426	1.3784	1.4652	11.08669	3.01789
10:18:17				155	9.1802	0.3874405	1.3784	1.4652	10.98901	3.01101
10:18:18				156	9.18118	0.3877616	1.3784	1.4652	10.06105	3.01358
10:18:18				157	9.1802	0.3866403	1.2801	1.4652	10.69597	3.0044
10:18:19				158	9.18118	0.3864791	1.3784	1.4652	11.57509	3.00298
10:18:19				159	9.17922	0.3868	1.2801	1.41636	10.98901	3.0058
10:18:20				160	9.17922	0.3876018	1.3784	1.41636	10.35409	3.01243
10:18:20				161	9.18118	0.3892034	1.3784	1.4652	10.45177	3.0255
10:18:21				162	9.1802	0.3882425	1.2801	1.4652	10.35409	3.01764
10:18:21				163	9.17922	0.3922482	1.3784	1.4652	10.45177	3.05084
10:18:22				164	9.17922	0.3916073	1.3784	1.4652	10.89133	3.04554
10:18:22				165	9.17727	0.3924084	1.2801	1.4652	10.15873	3.05234
10:18:23				166	9.17922	0.3903249	1.3784	1.4652	11.08669	3.03494
10:18:23				167	9.18118	0.3887221	1.3784	1.4652	10.94017	3.02152
10:18:24				168	9.18118	0.3885622	1.2801	1.4652	10.64713	3.0202
10:18:24				169	9.18118	0.3842362	1.2801	1.51404	10.84249	2.98446
10:18:25				170	9.17727	0.3815127	1.3784	1.51404	10.69597	2.96229
10:18:25				171	9.17238	0.3858391	1.3784	1.51404	10.35409	2.99843
10:18:26				172	9.17141	0.3710989	1.3784	1.4652	10.79365	2.87688
10:18:26				173	9.17141	0.3815128	1.3784	1.4652	10.84249	2.96278
10:18:27				174	9.17043	0.3736628	1.2801	1.4652	10.59829	2.8981
10:18:27				175	9.16164	0.3662944	1.3784	1.4652	10.54945	2.83809
10:18:28				176	9.1518	0.3733431	1.3784	1.4652	10.98901	2.89696
10:18:28				177	9.15376	0.371581	1.3784	1.4652	10.79365	2.88227
10:18:29				178	9.15376	0.3733431	1.3784	1.4652	11.52625	2.8968
10:18:29				179	9.15376	0.3706186	1.3784	1.4652	10.50061	2.87434
10:18:30				180	9.15376	0.3531581	1.2801	1.4652	11.23321	2.73069
10:18:30				181	9.14594	0.3651717	1.3784	1.4652	10.40293	2.83009
10:18:31				182	9.14496	0.367735	1.3784	1.4652	11.28205	2.85128
10:18:31				183	9.14692	0.3441888	1.2801	1.4652	11.77045	2.65761
10:18:32				184	9.13616	0.3529988	1.2801	1.4652	11.03785	2.73072
10:18:32				185	9.12639	0.3419466	1.3784	1.4652	11.62393	2.64074
10:18:33				186	9.13421	0.3409848	1.3784	1.4652	11.72161	2.63228
10:18:33				187	9.11563	0.3437079	1.2801	1.4652	11.08669	2.65598
10:18:34				188	9.10482	0.3443487	1.3784	1.4652	11.42857	2.66204
10:18:34				189	9.10482	0.3547595	1.3784	1.4652	11.57509	2.74759
10:18:35				190	9.1097	0.3321764	1.3784	1.4652	11.77045	2.56192
10:18:35				191	9.10677	0.3387428	1.2801	1.4652	12.11233	2.61592
10:18:36				192	9.10286	0.3392237	1.3784	1.4652	11.33089	2.62014
10:18:36				193	9.10482	0.3353795	1.3784	1.4652	11.81929	2.5885
10:18:37				194	9.10775	0.3332973	1.2801	1.4652	11.81929	2.57124
10:18:37				195	9.10384	0.3348984	1.3784	1.4652	11.72161	2.58463
10:18:38				196	9.09992	0.3361803	1.2801	1.4652	11.67277	2.59541

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:38				197	9.1009	0.3441889	1.3784	1.4652	12.06349	2.66102
10:18:39				198	9.10677	0.3477127	1.2801	1.4652	11.57509	2.68952
10:18:39				199	9.10677	0.3493143	1.2801	1.4652	11.77045	2.70268
10:18:40				200	9.11068	0.3401845	1.2801	1.4652	11.08669	2.62745
10:18:40				201	9.1097	0.3488332	1.2801	1.4652	11.72161	2.6985
10:18:41				202	9.1097	0.3421063	1.2801	1.51404	11.18437	2.64328
10:18:41				203	9.10579	0.3366603	1.2801	1.4652	11.91697	2.59892
10:18:42				204	9.10286	0.3339381	1.2801	1.4652	11.81929	2.57683
10:18:42				205	9.09406	0.3363408	1.3784	1.51404	11.81929	2.59715
10:18:43				206	9.09601	0.3379422	1.3784	1.4652	11.37973	2.61013
10:18:43				207	9.09406	0.3358593	1.2801	1.4652	11.91697	2.59321
10:18:44				208	9.09112	0.3356989	1.3784	1.4652	11.77045	2.5921
10:18:44				209	9.0921	0.3331371	1.3784	1.4652	11.72161	2.57104
10:18:45				210	9.09014	0.3332973	1.2801	1.4652	11.67277	2.5725
10:18:45				211	9.08819	0.3332973	1.2801	1.4652	11.47741	2.57264
10:18:46				212	9.08623	0.3315349	1.3784	1.51404	11.86813	2.55834
10:18:46				213	9.08525	0.3296133	1.2801	1.4652	11.86813	2.54268
10:18:47				214	9.08232	0.3324966	1.3784	1.4652	11.62393	2.5665
10:18:47				215	9.08036	0.3350588	1.3784	1.41636	12.11233	2.58763
10:18:48				216	9.08721	0.331055	1.3784	1.4652	12.16117	2.55434
10:18:48				217	9.08525	0.3328168	1.2801	1.4652	12.40537	2.56891
10:18:49				218	9.0833	0.3347381	1.2801	1.4652	12.06349	2.5848
10:18:49				219	9.0833	0.3342587	1.3784	1.4652	12.01465	2.58086
10:18:50				220	9.08427	0.3373012	1.2801	1.4652	11.77045	2.60574
10:18:50				221	9.08721	0.3368209	1.3784	1.4652	11.81929	2.60158
10:18:51				222	9.08623	0.3364998	1.3784	1.51404	12.30769	2.59902
10:18:51				223	9.08721	0.3366604	1.2801	1.4652	11.67277	2.60027
10:18:52				224	9.08721	0.3363408	1.2801	1.4652	11.67277	2.59765
10:18:52				225	9.08623	0.3350588	1.3784	1.4652	12.74725	2.58721
10:18:53				226	9.08427	0.3348984	1.3784	1.4652	11.62393	2.58604
10:18:53				227	9.08623	0.3336177	1.3784	1.4652	11.47741	2.5754
10:18:54				228	9.08721	0.3332973	1.3784	1.4652	11.52625	2.57271
10:18:54				229	9.08525	0.3342587	1.3784	1.4652	10.98901	2.58072
10:18:55				230	9.08721	0.3331371	1.3784	1.41636	11.13553	2.57139
10:18:55				231	9.0833	0.3291326	1.2801	1.4652	11.62393	2.53889
10:18:56				232	9.08427	0.3288132	1.3784	1.4652	11.72161	2.5362
10:18:56				233	9.0833	0.3296133	1.3784	1.4652	12.11233	2.54282
10:18:57				234	9.08036	0.3257703	1.3784	1.4652	11.77045	2.51158
10:18:57				235	9.0784	0.3252893	1.3784	1.51404	11.86813	2.50778
10:18:58				236	9.07253	0.3272112	1.2801	1.4652	12.01465	2.52392
10:18:58				237	9.07156	0.3272112	1.3784	1.4652	12.06349	2.52398
10:18:59				238	9.07449	0.3262499	1.3784	1.4652	12.40537	2.51591
10:18:59				239	9.07645	0.3270517	1.2801	1.4652	12.30769	2.52234
10:19:00				240	9.07351	0.3264108	1.3784	1.4652	11.67277	2.5173
10:19:00				241	9.07449	0.3252893	1.3784	1.4652	12.30769	2.50805
10:19:01				242	9.07156	0.3225673	1.3784	1.4652	12.16117	2.486

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:01				243	9.07449	0.3248085	1.3784	1.4652	12.35653	2.50412
10:19:02				244	9.07253	0.3248085	1.3784	1.4652	12.21001	2.50426
10:19:03				247	9.07596	0.3184212	1.3784	1.4652	12.21001	2.45182
10:19:04				248	9.07107	0.3233863	1.3784	1.4652	12.74725	2.49273
10:19:04				249	9.07107	0.3213032	1.3784	1.51404	11.28205	2.4757
10:19:05				250	9.06911	0.321624	1.3784	1.41636	11.67277	2.47846
10:19:05				251	9.06422	0.3256273	1.2801	1.4652	11.72161	2.51154
10:19:06				252	9.06715	0.3174598	1.2801	1.4652	11.96581	2.44457
10:19:06				253	9.06911	0.321624	1.3784	1.4652	12.06349	2.47846
10:19:07				254	9.06519	0.3221052	1.2801	1.4652	11.57509	2.48267
10:19:07				255	9.0622	0.3238667	1.2801	1.4652	11.57509	2.49728
10:19:08				256	9.06519	0.3193817	1.2801	1.4652	12.16117	2.46041
10:19:08				257	9.06617	0.3189014	1.2801	1.4652	11.91697	2.45641
10:19:09				258	9.06422	0.3179412	1.3784	1.4652	12.01465	2.4487
10:19:09				259	9.06519	0.3177812	1.3784	1.41636	11.77045	2.44733
10:19:10				260	9.06318	0.3169801	1.3784	1.4652	11.42857	2.44092
10:19:10				261	9.0622	0.3192216	1.3784	1.4652	11.52625	2.4593
10:19:11				262	9.06122	0.3192216	1.3784	1.4652	11.62393	2.45937
10:19:11				263	9.0573	0.3221052	1.3784	1.4652	12.01465	2.48321
10:19:12				264	9.0573	0.3200225	1.3784	1.4652	12.45421	2.46618
10:19:12				265	9.05535	0.3182612	1.3784	1.51404	11.52625	2.45192
10:19:13				266	9.05633	0.3172999	1.3784	1.41636	11.67277	2.444
10:19:13				267	9.05535	0.3245064	1.3784	1.4652	11.47741	2.50299
10:19:14				268	9.06024	0.3262693	1.2801	1.4652	11.18437	2.51708
10:19:14				269	9.05926	0.3272291	1.2801	1.4652	11.86813	2.525
10:19:15				270	9.06024	0.3213032	1.2801	1.51404	11.96581	2.47645
10:19:15				271	9.0622	0.3168203	1.3784	1.4652	11.96581	2.43968
10:19:16				272	9.06715	0.3190615	1.3784	1.4652	11.91697	2.45765
10:19:16				273	9.06715	0.3124958	1.3784	1.41636	11.86813	2.40405
10:19:17				274	9.06715	0.3148973	1.2801	1.4652	11.96581	2.42365
10:19:17				275	9.06715	0.3131364	1.3784	1.4652	11.72161	2.40928
10:19:18				276	9.06617	0.3160182	1.2801	1.4652	11.86813	2.43287
10:19:18				277	9.06813	0.312335	1.3784	1.51404	12.01465	2.40267
10:19:19				278	9.06715	0.3192216	1.3784	1.4652	11.96581	2.45896
10:19:19				279	9.07204	0.3169801	1.2801	1.51404	12.50305	2.44032
10:19:20				280	9.06715	0.3174598	1.3784	1.4652	12.01465	2.44457
10:19:20				281	9.06813	0.3174598	1.3784	1.4652	11.72161	2.4445
10:19:21				282	9.06813	0.314417	1.3784	1.4652	12.50305	2.41966
10:19:21				283	9.06911	0.3078519	1.3784	1.4652	12.16117	2.36606
10:19:22				284	9.06813	0.3148973	1.2801	1.51404	11.96581	2.42358
10:19:22				285	9.06422	0.3166589	1.3784	1.4652	11.72161	2.43823
10:19:23				286	9.06318	0.3256273	1.2801	1.4652	11.52625	2.51162
10:19:23				287	9.06715	0.3147377	1.3784	1.41636	11.72161	2.42234
10:19:24				288	9.07204	0.3190615	1.3784	1.4652	12.06349	2.45732
10:19:24				289	9.07009	0.3033683	1.3784	1.4652	11.37973	2.32949
10:19:25				290	9.07302	0.3080123	1.3784	1.51404	11.81929	2.36711

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:25				291	9.07204	0.3145781	1.3784	1.4652	11.47741	2.42071
10:19:26				292	9.07204	0.2987234	1.3784	1.4652	11.91697	2.29158
10:19:26				293	9.06813	0.2972832	1.3784	1.4652	12.16117	2.28012
10:19:27				294	9.07204	0.2998448	1.3784	1.4652	12.11233	2.3007
10:19:27				295	9.06715	0.3081726	1.3784	1.4652	12.06349	2.3688
10:19:28				296	9.07009	0.2963229	1.3784	1.51404	11.62393	2.27219
10:19:28				297	9.06911	0.2952014	1.3784	1.4652	12.11233	2.26314
10:19:29				298	9.06519	0.304489	1.3784	1.51404	12.25885	2.33893
10:19:29				299	9.06715	0.3040077	1.3784	1.41636	12.55189	2.33488
10:19:30				300	9.06715	0.3072108	1.2801	1.51404	12.55189	2.36097
10:19:30				301	9.05633	0.3040078	1.3784	1.4652	11.72161	2.33559
10:19:31				302	9.05535	0.305449	1.3784	1.4652	12.21001	2.34739
10:19:31				303	9.05437	0.2996854	1.3784	1.4652	12.40537	2.30053
10:19:32				304	9.05633	0.2998448	1.3784	1.4652	12.55189	2.3017
10:19:32				305	9.05241	0.3003261	1.3784	1.4652	12.45421	2.30587
10:19:33				306	9.05339	0.3014459	1.2801	1.4652	12.25885	2.31492
10:19:33				307	9.05926	0.3011267	1.3784	1.4652	12.84493	2.31194
10:19:34				308	9.05437	0.302568	1.2801	1.4652	11.77045	2.32399
10:19:34				309	9.05143	0.3072108	1.2801	1.51404	12.11233	2.36201
10:19:35				310	9.04752	0.3107349	1.2801	1.4652	12.06349	2.391
10:19:35				311	9.05045	0.321624	1.2801	1.4652	12.16117	2.47975
10:19:36				312	9.05241	0.3209841	1.2801	1.4652	12.25885	2.47438
10:19:36				313	9.06318	0.3221052	1.2801	1.4652	11.86813	2.48281
10:19:37				314	9.0573	0.3229047	1.3784	1.4652	12.06349	2.48975
10:19:37				315	9.05633	0.3219448	1.2801	1.4652	12.01465	2.48197
10:19:38				316	9.05828	0.3297925	1.2801	1.4652	11.91697	2.54606
10:19:38				317	9.06617	0.3273901	1.2801	1.4652	12.06349	2.52583
10:19:39				318	9.07009	0.3288311	1.3784	1.4652	11.91697	2.53735
10:19:39				319	9.06911	0.3283506	1.2801	1.4652	12.11233	2.53349
10:19:40				320	9.07107	0.320984	1.2801	1.4652	12.01465	2.47309
10:19:40				321	9.07302	0.3261084	1.2801	1.41636	12.06349	2.51486
10:19:41				322	9.07302	0.3243472	1.2801	1.4652	12.01465	2.50045
10:19:41				323	9.074	0.3225851	1.2801	1.4652	11.86813	2.48598
10:19:42				324	9.07107	0.3104136	1.2801	1.4652	12.06349	2.38681
10:19:42				325	9.06617	0.3025679	1.2801	1.51404	12.30769	2.32323
10:19:43				326	9.06318	0.2952014	1.2801	1.4652	12.40537	2.26352
10:19:43				327	9.06422	0.296803	1.3784	1.4652	11.86813	2.27647
10:19:44				328	9.06519	0.2995246	1.2801	1.51404	12.16117	2.29853
10:19:44				329	9.06422	0.2972832	1.3784	1.4652	12.45421	2.28037
10:19:45				330	9.06024	0.3003261	1.2801	1.4652	11.47741	2.30537
10:19:45				331	9.05926	0.3027277	1.2801	1.41636	11.86813	2.32498
10:19:46				332	9.06024	0.3027277	1.3784	1.4652	12.16117	2.32491
10:19:46				333	9.05926	0.3051289	1.3784	1.4652	12.45421	2.34453
10:19:47				334	9.06122	0.3229047	1.3784	1.4652	12.50305	2.48947
10:19:47				335	9.06617	0.3227456	1.3784	1.4652	11.72161	2.48783
10:19:48				336	9.06911	0.3164991	1.3784	1.41636	12.25885	2.43659

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:48				337	9.06617	0.312335	1.3784	1.4652	12.01465	2.4028
10:19:49	10:18:25 end transect	7.5	90	338	9.06318	0.3107349	1.3784	1.4652	12.06349	2.38995
10:19:49				339	9.06122	0.3153778	1.3784	1.4652	12.01465	2.42797
10:19:50				340	9.06519	0.3224247	1.4768	1.41636	12.01465	2.48527
10:19:50				341	9.06715	0.3297925	1.4768	1.4652	12.11233	2.54543
10:19:51				342	9.07889	0.3296327	1.6736	1.4652	11.86813	2.54328
10:19:51				343	9.08183	0.328191	1.6736	1.51404	11.77045	2.53127
10:19:52				344	9.08085	0.325949	1.9687	1.4652	11.91697	2.51298
10:19:52				345	9.07791	0.3227457	2.1655	1.41636	12.50305	2.48698
10:19:53				346	9.07694	0.3249871	2.2639	1.4652	11.81929	2.50538
10:19:53				347	9.07596	0.328191	2.3623	1.51404	11.57509	2.53165
10:19:54				348	9.07694	0.3265897	2.4606	1.4652	11.67277	2.51848
10:19:54				349	9.07791	0.3304334	2.559	1.4652	11.18437	2.54986
10:19:55				350	9.08281	0.3542994	2.6574	1.4652	12.25885	2.74543
10:19:55				351	9.09357	0.3554203	2.9526	1.4652	12.35653	2.75382
10:19:56				352	9.1053	0.3533372	3.0509	1.51404	11.42857	2.73578
10:19:56				353	9.11808	0.3445283	3.1493	1.4652	11.47741	2.66245
10:19:57				354	9.10628	0.3440472	3.1493	1.41636	11.33089	2.65938
10:19:57				355	9.10041	0.3474105	3.0509	1.4652	11.37973	2.68744
10:19:58				356	9.10139	0.3438874	3.0509	1.4652	11.23321	2.65844
10:19:58				357	9.09748	0.340523	3.1493	1.4652	10.89133	2.63112
10:19:59				358	9.10041	0.3408434	3.1493	1.51404	11.57509	2.63353
10:19:59				359	9.09748	0.3400432	3.0509	1.4652	11.91697	2.62718
10:20:00				360	9.09748	0.3414845	3.0509	1.4652	12.50305	2.63901
10:20:00				361	9.10041	0.3358789	3.1493	1.4652	10.54945	2.59283
10:20:01				362	9.09748	0.3398823	3.1493	1.4652	11.28205	2.62586
10:20:01				363	9.10139	0.3478912	3.1493	1.41636	11.86813	2.69131
10:20:02				364	9.10824	0.3408434	3.0509	1.4652	11.96581	2.63296
10:20:03				367	9.10653	0.3446867	3.1493	1.4652	11.96581	2.66461
10:20:04				368	9.10848	0.344207	3.1493	1.4652	11.96581	2.66053
10:20:04				369	9.1075	0.3467699	3.1493	1.4652	10.89133	2.68164
10:20:05				370	9.1075	0.3483705	3.1493	1.4652	10.94017	2.69479
10:20:05				371	9.10848	0.3490118	3.1493	1.4652	10.74481	2.69998
10:20:06				372	9.10848	0.3866591	3.0509	1.4652	11.52625	3.01048
10:20:06				373	9.11728	0.4148591	3.0509	1.4652	11.67277	3.24381
10:20:07				374	9.1584	0.3882613	3.1493	1.4652	10.98901	3.01954
10:20:07				375	9.19168	0.3784871	3.1493	1.51404	11.28205	2.93606
10:20:08				376	9.19558	0.3602242	3.1493	1.4652	12.06349	2.78543
10:20:08				377	9.19558	0.3720785	3.1493	1.4652	12.11233	2.88293
10:20:09	10:36:25 start transect	7.5	90	378	9.18972	0.3751226	3.1493	1.4652	11.28205	2.90848
10:20:09				379	9.18289	0.3967522	3.0509	1.4652	11.62393	3.08772
10:20:10				380	9.20926	0.421429	3.0509	1.41636	11.72161	3.29008
10:20:10				381	9.24056	0.4135768	3.0509	1.4652	11.33089	3.22205
10:20:11				382	9.23275	0.3727206	3.1493	1.51404	11.33089	2.88523
10:20:11				383	9.18582	0.4049247	3.1493	1.4652	10.94017	3.15517
10:20:12				384	9.21609	0.4228727	3.0509	1.4652	11.57509	3.30145

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:12				385	9.24056	0.3848957	3.0509	1.4652	11.08669	2.98488
10:20:13				386	9.19363	0.4015599	3.0509	1.51404	10.54945	3.12661
10:20:13				387	9.21121	0.4185455	3.0509	1.4652	11.42857	3.26594
10:20:14				388	9.30013	0.4448286	3.0509	1.41636	11.03785	3.47618
10:20:14				389	9.34016	0.4408207	3.0509	1.4652	9.71917	3.43899
10:20:15				390	9.34796	0.459093	3.0509	1.51404	9.47497	3.59031
10:20:15				391	9.33919	0.4587723	3.0509	1.4652	9.62149	3.58851
10:20:16				392	9.33236	0.4663065	3.0509	1.41636	9.47497	3.65206
10:20:16				393	9.33139	0.4690315	3.1493	1.4652	9.47497	3.67491
10:20:17				394	9.33334	0.4703141	3.0509	1.51404	9.47497	3.68543
10:20:17				395	9.33724	0.4691928	3.0509	1.4652	9.52381	3.67566
10:20:18				396	9.33431	0.4704755	3.1493	1.41636	9.76801	3.68667
10:20:18				397	9.32944	0.4699946	3.0509	1.51404	9.91453	3.68316
10:20:19				398	9.32749	0.4693525	3.1493	1.4652	9.62149	3.67799
10:20:19				399	9.32749	0.4719175	3.0509	1.4652	9.67033	3.69943
10:20:20				400	9.33626	0.4756043	3.0509	1.4652	9.27961	3.72935
10:20:20				401	9.34503	0.4768868	3.1493	1.4652	9.52381	3.73915
10:20:21				402	9.34113	0.477368	3.0509	1.51404	9.67033	3.74359
10:20:21				403	9.34796	0.4794514	3.0509	1.4652	10.25641	3.7603
10:20:22				404	9.36257	0.4797726	3.1493	1.41636	10.06105	3.76145
10:20:22				405	9.37237	0.4786501	3.0509	1.4652	9.37729	3.75105
10:20:23				406	9.37335	0.479612	3.1493	1.51404	9.57265	3.75898
10:20:23				407	9.3714	0.4802529	3.0509	1.4652	9.52381	3.76455
10:20:24				408	9.38309	0.4818571	3.1493	1.4652	9.32845	3.77673
10:20:24				409	9.38698	0.4852229	3.0509	1.4652	9.18193	3.80447
10:20:25				410	9.39088	0.4857047	3.2477	1.4652	9.42613	3.80808
10:20:25				411	9.39575	0.487467	3.0509	1.4652	9.32845	3.82231
10:20:26				412	9.41133	0.489231	3.0509	1.41636	9.62149	3.83541
10:20:26				413	9.42794	0.48859	3.0509	1.4652	8.74237	3.82828
10:20:27				414	9.42307	0.487788	3.0509	1.4652	8.84005	3.82209
10:20:27				415	9.43378	0.4863461	3.0509	1.4652	9.03541	3.80891
10:20:28				416	9.43475	0.4762453	3.0509	1.4652	8.93773	3.7245
10:20:28				417	9.40549	0.4687121	3.1493	1.4652	9.18193	3.66469
10:20:29				418	9.35673	0.4608563	3.1493	1.4652	8.84005	3.60412
10:20:29				419	9.31378	0.4542857	3.0509	1.4652	9.18193	3.55363
10:20:30				420	9.28745	0.4449893	3.1493	1.4652	8.69353	3.47873
10:20:30				421	9.26886	0.4486754	3.0509	1.4652	8.35165	3.51127
10:20:31				422	9.26203	0.4472319	3.1493	1.4652	8.40049	3.49989
10:20:31				423	9.2552	0.4360136	3.1493	1.41636	9.47497	3.40709
10:20:32				424	9.24739	0.4350519	3.1493	1.4652	9.32845	3.39983
10:20:32				425	9.24153	0.4283212	3.0509	1.4652	9.96337	3.34439
10:20:33	10:19:19 @ 6:00	7.5	180	426	9.24056	0.4288016	3.1493	1.4652	10.25641	3.34847
10:20:33				427	9.24251	0.4339296	3.0509	1.41636	9.86569	3.39095
10:20:34				428	9.24544	0.4215906	3.1493	1.4652	10.06105	3.2881
10:20:34				429	9.23958	0.412135	3.1493	1.51404	9.42613	3.21018
10:20:35				430	9.23177	0.4267186	3.1493	1.4652	9.96337	3.33197

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:35				431	9.23763	0.4265581	3.0509	1.41636	9.96337	3.3301
10:20:36				432	9.23665	0.431045	3.0509	1.4652	10.10989	3.3675
10:20:36				433	9.23861	0.4344101	3.1493	1.4652	9.91453	3.39532
10:20:37				434	9.2347	0.4371358	3.0509	1.4652	9.67033	3.41839
10:20:37				435	9.23568	0.4417826	3.0509	1.4652	10.25641	3.45702
10:20:38				436	9.24739	0.4390589	3.1493	1.4652	10.15873	3.43319
10:20:38				437	9.25032	0.4401799	3.1493	1.4652	9.96337	3.44225
10:20:39				438	9.24056	0.4409827	3.1493	1.4652	9.86569	3.44988
10:20:39				439	9.2347	0.441943	3.0509	1.4652	9.91453	3.45845
10:20:40				440	9.24349	0.4445075	3.0509	1.51404	10.59829	3.47898
10:20:40				441	9.25129	0.4430659	3.1493	1.51404	10.06105	3.4662
10:20:41				442	9.24446	0.4421033	3.1493	1.4652	10.06105	3.45884
10:20:41				443	9.24739	0.4445075	3.0509	1.4652	9.81685	3.4786
10:20:42				444	9.24641	0.4453091	3.1493	1.51404	10.20757	3.48538
10:20:42				445	9.25129	0.446431	3.0509	1.4652	9.96337	3.49426
10:20:43				446	9.25032	0.4432263	3.1493	1.51404	9.67033	3.46764
10:20:43				447	9.24837	0.4445075	3.0509	1.4652	10.20757	3.47851
10:20:44				448	9.24934	0.442745	3.1493	1.4652	9.81685	3.46372
10:20:44				449	9.24934	0.4424241	3.1493	1.41636	9.76801	3.46104
10:20:45				450	9.25227	0.4467526	3.0509	1.4652	9.42613	3.49685
10:20:45				451	9.25617	0.4526826	3.0509	1.4652	9.86569	3.54595
10:20:46				452	9.26691	0.4512405	3.0509	1.51404	9.91453	3.53285
10:20:46				453	9.26886	0.4514001	3.1493	1.4652	10.30525	3.53399
10:20:47				454	9.26495	0.4574903	3.1493	1.51404	9.91453	3.58521
10:20:47				455	9.27178	0.4597347	3.1493	1.4652	9.76801	3.60328
10:20:48				456	9.28062	0.4549255	3.0509	1.41636	9.71917	3.56225
10:20:48				457	9.28062	0.4512404	3.0509	1.4652	10.25641	3.5315
10:20:49				458	9.26983	0.4562091	3.1493	1.51404	9.71917	3.57403
10:20:49				459	9.27575	0.4547656	2.9526	1.51404	9.67033	3.5614
10:20:50				460	9.26593	0.473039	3.1493	1.4652	9.86569	3.71516
10:20:50				461	9.30793	0.4748033	3.1493	1.4652	9.76801	3.72558
10:20:51				462	9.34406	0.4690315	3.1493	1.4652	9.86569	3.67361
10:20:51				463	9.33236	0.470955	3.0509	1.4652	9.47497	3.69088
10:20:52				464	9.35478	0.4687122	3.1493	1.4652	9.23077	3.66985
10:20:52				465	9.33041	0.4698332	3.1493	1.4652	9.18193	3.68171
10:20:53				466	9.33529	0.4680706	3.1493	1.51404	9.52381	3.66648
10:20:53				467	9.3538	0.4687122	3.0509	1.4652	9.27961	3.66996
10:20:54				468	9.35478	0.4775284	3.1493	1.51404	9.08425	3.7435
10:20:54				469	9.3538	0.4738408	3.1493	1.4652	9.23077	3.71278
10:20:55				470	9.35088	0.4698332	3.1493	1.41636	9.27961	3.67961
10:20:55				471	9.3499	0.4712762	3.1493	1.4652	9.42613	3.69176
10:20:56				472	9.34503	0.4663065	3.0509	1.4652	9.47497	3.65077
10:20:56				473	9.34113	0.474161	3.1493	1.4652	9.86569	3.71677
10:20:57				474	9.33529	0.4748033	3.1493	1.4652	9.76801	3.72274
10:20:57				475	9.32944	0.4804137	3.0509	1.4652	9.32845	3.77029
10:20:58				476	9.34698	0.4882689	3.0509	1.4652	9.18193	3.83421

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:58				477	9.42502	0.4831392	3.1493	1.41636	8.74237	3.78304
10:20:59				478	9.44156	0.4813763	3.0509	1.4652	8.59585	3.7666
10:20:59				479	9.42307	0.4568493	3.1493	1.4652	9.08425	3.56416
10:21:00				480	9.37627	0.4547654	3.0509	1.4652	9.23077	3.55145
10:21:00				481	9.32651	0.4509195	3.1493	1.4652	9.81685	3.52432
10:21:01				482	9.30501	0.4352116	3.1493	1.4652	10.15873	3.39571
10:21:01				483	9.27672	0.4203078	3.1493	1.4652	9.96337	3.2746
10:21:02				484	9.25715	0.4161421	3.0509	1.4652	9.91453	3.24183
10:21:03				487	9.23208	0.3871272	3.0509	1.41636	10.20757	3.004
10:21:04				488	9.21451	0.3863257	3.1493	1.4652	10.50061	2.99885
10:21:04				489	9.19009	0.385204	3.0509	1.51404	10.40293	2.99163
10:21:05				490	9.1979	0.3695034	3.1493	1.51404	10.20757	2.86155
10:21:05				491	9.19595	0.3640575	3.0509	1.4652	10.40293	2.81691
10:21:06				492	9.17538	0.3570087	3.1493	1.4652	10.54945	2.76058
10:21:06				493	9.15486	0.3541248	3.0509	1.4652	11.42857	2.73847
10:21:07				494	9.14508	0.3461159	3.1493	1.4652	11.28205	2.67347
10:21:07				495	9.13623	0.3449944	3.0509	1.4652	11.03785	2.66493
10:21:08				496	9.13134	0.3429122	3.0509	1.4652	11.28205	2.64822
10:21:08				497	9.12547	0.3373072	3.1493	1.4652	11.47741	2.60272
10:21:09				498	9.12254	0.3667797	3.0509	1.4652	11.28205	2.84511
10:21:09				499	9.14215	0.3677412	3.1493	1.51404	11.33089	2.85147
10:21:10				500	9.1617	0.3706248	3.0509	1.51404	11.33089	2.87368
10:21:10				501	9.19302	0.3821604	3.1493	1.41636	10.94017	2.96625
10:21:11				502	9.20669	0.3901711	3.1493	1.4652	10.84249	3.03126
10:21:11				503	9.20767	0.3890497	2.9526	1.51404	10.98901	3.02192
10:21:12				504	9.21451	0.3927352	3.0509	1.4652	10.79365	3.05179
10:21:12				505	9.23507	0.3892096	3.0509	1.4652	10.84249	3.02093
10:21:13				506	9.22524	0.391934	3.1493	1.4652	10.59829	3.04425
10:21:13				507	9.21646	0.3957789	3.1493	1.4652	10.94017	3.07678
10:21:14				508	9.23507	0.3981819	3.0509	1.51404	11.03785	3.09506
10:21:14				509	9.23995	0.4106803	3.1493	1.51404	10.79365	3.19809
10:21:15				510	9.25947	0.4321542	3.1493	1.51404	10.54945	3.37458
10:21:15				511	9.27605	0.4291102	3.0509	1.4652	10.45177	3.34773
10:21:16				512	9.28392	0.4493034	3.0509	1.4652	10.25641	3.51503
10:21:16				513	9.29172	0.4587611	3.1493	1.4652	10.79365	3.59315
10:21:17				514	9.32195	0.4698219	3.2477	1.41636	10.54945	3.68247
10:21:17				515	9.33273	0.472066	3.2477	1.4652	9.62149	3.70012
10:21:18				516	9.33565	0.4860124	3.3461	1.4652	9.71917	3.8165
10:21:18				517	9.36976	0.4877765	3.5428	1.4652	9.62149	3.82763
10:21:19				518	9.39806	0.4888982	3.7396	1.4652	9.76801	3.834
10:21:19				519	9.41851	0.4986786	3.838	1.51404	8.74237	3.91365
10:21:20				520	9.44679	0.5042899	3.9364	1.51404	8.44933	3.95755
10:21:20				521	9.47312	0.4973951	4.2315	1.4652	8.35165	3.89697
10:21:21				522	9.47895	0.500442	4.2315	1.51404	8.30281	3.92181
10:21:21				523	9.47409	0.503808	4.2315	1.51404	8.25397	3.9505
10:21:22				524	9.48284	0.5033279	4.3299	1.4652	8.25397	3.94552

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:22				525	9.47993	0.5036485	4.3299	1.4652	8.30281	3.94852
10:21:23	10:19:59 end transect	7.5	270	526	9.48382	0.5063732	4.4283	1.4652	8.40049	3.97089
10:21:23				527	9.4809	0.5073367	4.6251	1.41636	8.35165	3.97926
10:21:24				528	9.47111	0.5070155	4.7234	1.4652	8.54701	3.97765
10:21:24				529	9.46819	0.5060538	4.8218	1.4652	8.49817	3.96991
10:21:25				530	9.46819	0.5087788	4.8218	1.4652	8.15629	3.99273
10:21:25				531	9.46722	0.5082975	4.9202	1.4652	8.54701	3.9888
10:21:26				532	9.4643	0.5091004	4.9202	1.4652	8.49817	3.99585
10:21:26				533	9.46625	0.5560852	5.117	1.4652	8.54701	4.39067
10:21:27				534	9.46041	0.6014799	5.3137	1.51404	8.79121	4.77574
10:21:27				535	9.44776	0.5588124	5.4121	1.4652	7.91209	4.41593
10:21:28				536	9.45847	0.6435143	5.3137	1.51404	7.91209	5.13412
10:21:28				537	9.44971	0.6598829	5.4121	1.4652	8.25397	5.27539
10:21:29				538	9.43025	0.598431	5.4121	1.4652	7.91209	4.75382
10:21:29				539	9.43706	0.6003559	5.4121	1.4652	7.86325	4.76927
10:21:30				540	9.44193	0.6574757	5.3137	1.4652	8.05861	5.25592
10:21:30				541	9.43803	0.6473662	5.5105	1.4652	8.10745	5.16995
10:21:31				542	9.4283	0.6064522	5.4121	1.4652	7.81441	4.82228
10:21:31				543	9.43609	0.5915341	5.3137	1.41636	7.66789	4.69448
10:21:32				544	9.44095	0.6533023	5.4121	1.4652	7.91209	5.22033
10:21:32				545	9.43901	0.6253843	5.4121	1.4652	8.15629	4.98209
10:21:33				546	9.43609	0.6064521	5.4121	1.4652	8.00977	4.82124
10:21:33				547	9.43901	0.6127093	5.3137	1.4652	8.00977	4.8741
10:21:34				548	9.43803	0.6155968	5.4121	1.4652	7.91209	4.89881
10:21:34				549	9.43511	0.6112662	5.4121	1.4652	7.61905	4.86233
10:21:35				550	9.43706	0.6354925	5.4121	1.4652	8.20513	5.06862
10:21:35				551	9.43511	0.6037247	5.4121	1.4652	7.91209	4.79817
10:21:36				552	9.43511	0.5865607	5.4121	1.51404	8.05861	4.6524
10:21:36				553	9.43706	0.658759	5.3137	1.4652	8.15629	5.26763
10:21:37				554	9.43414	0.6441571	5.5105	1.51404	8.10745	5.14307
10:21:37				555	9.43317	0.6051694	5.4121	1.51404	7.32601	4.81072
10:21:38				556	9.44582	0.6258656	5.4121	1.4652	7.76557	4.98525
10:21:38				557	9.4429	0.6630927	5.4121	1.51404	8.54701	5.30389
10:21:39				558	9.42733	0.6157571	5.4121	1.51404	8.00977	4.90163
10:21:39				559	9.43219	0.6340475	5.4121	1.41636	7.66789	5.05697
10:21:40				560	9.4429	0.6438357	5.3137	1.51404	7.86325	5.13908
10:21:40				561	9.43706	0.6735238	5.4121	1.51404	7.91209	5.39421
10:21:41				562	9.45166	0.6255436	5.5105	1.41636	7.37485	4.98169
10:21:41				563	9.44582	0.6398247	5.3137	1.4652	7.47253	5.10439
10:21:42				564	9.44776	0.6561914	5.3137	1.4652	7.47253	5.24408
10:21:42				565	9.45652	0.6496133	5.4121	1.41636	7.91209	5.18652
10:21:43				566	9.48868	0.6348506	5.3137	1.4652	7.76557	5.05589
10:21:43				567	9.57918	0.6362943	5.4121	1.4652	7.71673	5.05549
10:21:44				568	9.65591	0.6356521	5.4121	1.41636	7.71673	5.0393
10:21:44				569	9.69088	0.6436745	5.4121	25.59219	7.96093	5.10249
10:21:45				570	9.74909	0.6425519	5.4121	27.69231	7.66789	5.08477

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:45				571	9.82666	0.6258649	5.4121	28.47375	8.05861	4.93294
10:21:46				572	9.85665	0.6425517	5.4121	26.32479	7.32601	5.06968
10:21:46				573	9.87019	0.6356516	5.4121	23.58974	7.71673	5.00954
10:21:47	10:20:23 start transect	7.5	270	574	9.85278	0.6327642	5.4121	21.39194	7.61905	4.98758
10:21:47				575	9.87702	0.6419095	5.4121	18.1685	7.42369	5.06141
10:21:48				576	9.86825	0.6423911	5.4121	19.04762	7.47253	5.0667
10:21:48				577	9.80628	0.6452796	5.4121	22.27106	7.57021	5.09982
10:21:49				578	9.81209	0.6391826	5.4121	30.52503	7.71673	5.04743
10:21:49				579	9.82176	0.638059	5.3137	31.59951	7.61905	5.03659
10:21:50				580	9.91375	0.6491308	5.3137	26.47131	7.81441	5.11723
10:21:50				581	10.04329	0.6350095	5.4121	36.04396	7.32601	4.98032
10:21:51				582	10.00367	0.6576344	5.3137	31.50183	7.47253	5.17623
10:21:51				583	9.90988	0.6616473	5.3137	33.89499	7.52137	5.22355
10:21:52				584	9.79466	0.657475	5.4121	31.99023	7.32601	5.20479
10:21:52				585	9.73262	0.6621284	5.3137	28.37607	7.57021	5.25327
10:21:53				586	9.74618	0.6894111	5.3137	24.07814	7.66789	5.48351
10:21:53				587	9.64621	0.6910168	5.4121	18.46154	7.61905	5.51242
10:21:54				588	9.585	0.68588	5.3137	7.91209	7.47253	5.4778
10:21:54				589	9.58792	0.6980784	5.4121	3.80952	7.52137	5.58185
10:21:55				590	9.58597	0.6918183	5.4121	1.4652	7.37485	5.5285
10:21:55				591	9.60539	0.7242424	5.4121	1.51404	7.42369	5.80369
10:21:56				592	9.68216	0.7393319	5.4121	1.51404	7.47253	5.92091
10:21:56				593	9.84504	0.6913376	5.4121	1.4652	6.93529	5.48493
10:21:57				594	9.81983	0.6990411	5.4121	1.51404	7.08181	5.55434
10:21:57				595	9.78014	0.7480016	5.4121	1.4652	7.22833	5.97921
10:21:58				596	9.70639	0.7227976	5.4121	1.4652	7.17949	5.77509
10:21:58				597	9.67731	0.6982393	5.4121	1.51404	7.03297	5.56941
10:21:59				598	9.66464	0.7117222	5.4121	1.51404	7.13065	5.6868
10:21:59				599	9.63069	0.7330705	5.4121	1.4652	7.32601	5.87549
10:22:00				600	9.5694	0.7343562	5.4121	1.4652	7.22833	5.89656
10:22:00				601	9.53346	0.713809	5.4121	1.4652	6.88645	5.72547
10:22:01				602	9.54123	0.7114002	5.4121	1.4652	6.69109	5.70353
10:22:01				603	9.53249	0.7401343	5.3137	1.51404	7.13065	5.95246
10:22:02				604	9.51104	0.7186252	5.4121	1.51404	7.37485	5.77051
10:22:03				607	9.49451	0.7303311	5.4121	1.4652	7.27717	5.87409
10:22:04				608	9.48868	0.7367527	5.4121	1.4652	6.98413	5.93048
10:22:04				609	9.47798	0.7386779	5.4121	1.4652	7.08181	5.94888
10:22:05				610	9.47798	0.7221447	5.4121	1.51404	7.08181	5.80615
10:22:05				611	9.47701	0.7218226	5.3137	1.4652	7.27717	5.80354
10:22:06				612	9.4595	0.7462246	5.3137	1.4652	7.22833	6.01722
10:22:06				613	9.47798	0.7215025	5.4121	1.51404	7.71673	5.80062
10:22:07				614	9.49646	0.7080191	5.3137	1.4652	7.13065	5.68153
10:22:07				615	9.46826	0.6998334	5.4121	1.51404	7.27717	5.61551
10:22:08				616	9.44485	0.6959815	5.3137	1.51404	7.27717	5.58602
10:22:08				617	9.43706	0.7065741	5.4121	1.4652	7.32601	5.67845
10:22:09				618	9.43414	0.6959815	5.4121	1.4652	7.52137	5.58768

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:09				619	9.43122	0.7186124	5.4121	1.51404	7.27717	5.78321
10:22:10				620	9.42441	0.6847464	5.4121	1.4652	7.08181	5.49253
10:22:10				621	9.42149	0.675277	5.4121	1.4652	7.17949	5.4116
10:22:11				622	9.41954	0.6942153	5.4121	1.4652	7.47253	5.57474
10:22:11				623	9.42343	0.6866726	5.3137	1.4652	7.91209	5.50925
10:22:12				624	9.41857	0.683462	5.4121	1.51404	7.22833	5.48238
10:22:12				625	9.42441	0.6855491	5.4121	1.4652	7.42369	5.49943
10:22:13				626	9.42246	0.6892404	5.4121	1.4652	7.37485	5.53148
10:22:13				627	9.42343	0.6680563	5.3137	1.51404	7.42369	5.34934
10:22:14				628	9.42246	0.699031	5.3137	1.51404	7.37485	5.61576
10:22:14				629	9.41759	0.7206998	5.4121	1.4652	7.42369	5.80343
10:22:15				630	9.43122	0.6874741	5.4121	1.51404	7.32601	5.51494
10:22:15				631	9.42246	0.6792903	5.4121	1.4652	7.57021	5.44593
10:22:16				632	9.42733	0.7146004	5.3137	1.4652	7.71673	5.74922
10:22:16				633	9.41954	0.68619	5.4121	1.51404	7.52137	5.50569
10:22:17				634	9.41467	0.6842642	5.4121	1.4652	7.22833	5.48987
10:22:17				635	9.42051	0.6967829	5.4121	1.4652	7.71673	5.5967
10:22:18				636	9.41662	0.6958206	5.4121	1.51404	7.32601	5.58902
10:22:18				637	9.41467	0.6894009	5.4121	1.4652	6.98413	5.53406
10:22:19				638	9.4137	0.7007957	5.4121	1.4652	7.27717	5.63233
10:22:19				639	9.4137	0.6954987	5.4121	1.4652	7.27717	5.5867
10:22:20				640	9.41273	0.6844262	5.4121	1.4652	7.37485	5.49156
10:22:20				641	9.4137	0.7015988	5.4121	1.4652	7.32601	5.63925
10:22:21				642	9.41078	0.7163665	5.4121	1.4652	7.66789	5.7671
10:22:21				643	9.4137	0.6948569	5.4121	1.41636	7.32601	5.58117
10:22:22				644	9.41175	0.7113894	5.4121	1.4652	7.32601	5.72399
10:22:22				645	9.4137	0.7324184	5.4121	1.4652	7.32601	5.90536
10:22:23				646	9.41662	0.7076974	5.4121	1.41636	7.03297	5.69137
10:22:23				647	9.41662	0.7208607	5.4121	1.4652	6.83761	5.80497
10:22:24				648	9.41273	0.7479894	5.4121	1.4652	7.17949	6.04034
10:22:24				649	9.41954	0.7192556	5.3137	1.41636	7.42369	5.79065
10:22:25				650	9.41857	0.7187732	5.4121	1.4652	6.88645	5.78663
10:22:25				651	9.41273	0.7584254	5.4121	1.4652	7.37485	6.13084
10:22:26				652	9.42149	0.7385177	5.4121	1.41636	7.13065	5.95685
10:22:26				653	9.42051	0.7316152	5.4121	1.4652	7.03297	5.89729
10:22:27				654	9.42051	0.742692	5.4121	1.4652	7.32601	5.99314
10:22:27				655	9.41954	0.754412	5.4121	1.41636	6.88645	6.09487
10:22:28				656	9.42343	0.7385177	5.4121	1.4652	6.88645	5.95652
10:22:28				657	9.42246	0.7391609	5.4121	1.4652	6.64225	5.96225
10:22:29				658	9.41857	0.7555349	5.4121	1.41636	6.83761	6.10477
10:22:29				659	9.42051	0.7391609	5.4121	1.4652	6.93529	5.96257
10:22:30				660	9.42051	0.7627603	5.4121	1.4652	7.32601	6.16712
10:22:30				661	9.42149	0.7520028	5.4121	1.41636	6.98413	6.07365
10:22:31				662	9.42441	0.7531264	5.4121	1.4652	6.73993	6.08289
10:22:31				663	9.42441	0.7380367	5.4121	1.51404	6.59341	5.9522
10:22:32				664	9.42051	0.7592285	5.4121	1.4652	7.03297	6.13648

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:32				665	9.42149	0.7626002	5.4121	1.51404	7.32601	6.16557
10:22:33				666	9.42441	0.7651694	5.4121	1.51404	7.13065	6.18737
10:22:33				667	9.4283	0.7499165	5.4121	1.4652	6.54457	6.05442
10:22:34				668	9.42635	0.7666126	5.4121	1.51404	6.69109	6.19956
10:22:34				669	9.43122	0.7672562	5.4121	1.4652	7.27717	6.20431
10:22:35				670	9.43317	0.7577823	5.4121	1.4652	6.64225	6.12178
10:22:35				671	9.43219	0.7561773	5.4121	1.51404	6.54457	6.10802
10:22:36				672	9.43025	0.7621179	5.4121	1.51404	6.39805	6.15988
10:22:36				673	9.43025	0.7731968	5.4121	1.4652	6.78877	6.25607
10:22:37				674	9.43025	0.7638835	5.4121	1.4652	6.69109	6.1752
10:22:37				675	9.43122	0.7677377	5.4121	1.4652	6.59341	6.20849
10:22:38				676	9.43025	0.7669354	5.4121	1.4652	6.49573	6.20169
10:22:38				677	9.43317	0.7571413	5.4121	1.4652	6.88645	6.11622
10:22:39				678	9.4283	0.7467055	5.4121	1.4652	6.78877	6.0266
10:22:39				679	9.42441	0.7590667	5.4121	1.4652	6.98413	6.13441
10:22:40				680	9.42635	0.7582655	5.4121	1.4652	6.88645	6.12713
10:22:40				681	9.42733	0.7444576	5.4121	1.41636	6.98413	6.0073
10:22:41				682	9.42538	0.7481504	5.4121	1.4652	6.98413	6.03961
10:22:41				683	9.4283	0.7590667	5.4121	1.4652	7.03297	6.13374
10:22:42				684	9.4283	0.7406048	5.4121	1.4652	6.83761	5.97378
10:22:42				685	9.42733	0.7311339	5.4121	1.4652	6.78877	5.9201
10:22:43				686	9.42441	0.7449399	5.4121	1.4652	7.13065	6.01196
10:22:43				687	9.42733	0.7425313	5.4121	1.4652	7.13065	5.99062
10:22:44				688	9.42927	0.7385176	5.4121	1.4652	6.93529	5.95556
10:22:44				689	9.42733	0.7373937	5.4121	1.51404	7.03297	5.94615
10:22:45				690	9.42441	0.7354678	5.4121	1.4652	7.17949	5.92997
10:22:45				691	9.42635	0.7308124	5.4121	1.51404	6.78877	5.88939
10:22:46				692	9.42246	0.7325782	5.4121	1.51404	7.42369	5.9053
10:22:46				693	9.41857	0.7213417	5.4121	1.51404	7.27717	5.80882
10:22:47				694	9.41857	0.7296886	5.4121	1.51404	7.42369	5.88095
10:22:47				695	9.41273	0.7078593	5.4121	1.4652	7.22833	5.69338
10:22:48				696	9.4137	0.7248728	5.4121	1.4652	6.73993	5.84011
10:22:48				697	9.41175	0.7324183	5.3137	1.4652	7.32601	5.90568
10:22:49				698	9.41175	0.7203779	5.4121	1.41636	7.08181	5.80159
10:22:49				699	9.4137	0.7243911	5.4121	1.4652	7.03297	5.83595
10:22:50				700	9.41662	0.738197	5.4121	1.4652	7.52137	5.95488
10:22:50				701	9.41954	0.7343436	5.4121	1.4652	7.42369	5.92105
10:22:51				702	9.42441	0.7165252	5.4121	1.4652	7.08181	5.76629
10:22:51				703	9.42149	0.7253547	5.4121	1.4652	6.98413	5.84301
10:22:52				704	9.41759	0.7573011	5.4121	1.41636	7.47253	6.12025
10:22:52				705	9.42051	0.7605118	5.4121	1.4652	7.42369	6.14761
10:22:53				706	9.42441	0.7438166	5.4121	1.4652	6.88645	6.00223
10:22:53				707	9.42441	0.7593884	5.4121	1.4652	6.88645	6.1372
10:22:54				708	9.42343	0.7685403	5.4121	1.51404	7.03297	6.2168
10:22:54				709	9.42343	0.7603518	5.3137	1.51404	6.88645	6.14573
10:22:55				710	9.42149	0.7959977	5.4121	1.4652	6.93529	6.45598

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:55				711	9.43219	0.7696643	5.4121	1.51404	7.13065	6.22505
10:22:56				712	9.43317	0.7826689	5.3137	1.4652	6.73993	6.3379
10:22:56				713	9.43706	0.8294012	5.4121	1.4652	6.83761	6.74461
10:22:57				714	9.48673	0.7963185	5.4121	1.4652	6.54457	6.44707
10:22:57				715	9.51207	0.79969	5.4121	1.51404	6.49573	6.47184
10:22:58				716	9.50527	0.8488349	5.4121	1.4652	6.88645	6.90154
10:22:58				717	9.54026	0.8112519	5.4121	1.4652	6.98413	6.56727
10:22:59				718	9.54123	0.8676283	5.5105	1.41636	6.69109	7.05892
10:22:59				719	9.549	0.869234	5.4121	1.4652	6.83761	7.07146
10:23:00				720	9.59083	0.8464244	5.4121	1.4652	6.34921	6.86414
10:23:00				721	9.57141	0.8618453	5.4121	1.41636	5.66545	7.00248
10:23:01				722	9.54026	0.8738918	5.4121	1.4652	6.44689	7.11395
10:23:01				723	9.51791	0.8615236	5.4121	1.4652	5.90965	7.01007
10:23:02				724	9.51305	0.8838525	5.4121	1.4652	5.12821	7.20665
10:23:03				727	9.51785	0.8870736	5.4121	1.51404	5.42125	7.23395
10:23:04				728	9.54123	0.8792022	5.4121	1.51404	6.00733	7.16026
10:23:04				729	9.55483	0.8695647	5.4121	1.51404	5.42125	7.0732
10:23:05				730	9.54512	0.8743828	5.4121	1.4652	5.32357	7.11729
10:23:05				731	9.5354	0.8817725	5.3137	1.4652	5.71429	7.18396
10:23:06				732	9.54026	0.8819328	5.4121	1.41636	5.95849	7.18438
10:23:06				733	9.55386	0.8759889	5.4121	1.4652	5.56777	7.12962
10:23:07				734	9.55483	0.8703681	5.4121	1.4652	5.56777	7.08023
10:23:07				735	9.54803	0.8822552	5.2153	1.4652	5.95849	7.18568
10:23:08				736	9.53929	0.8840227	5.3137	1.4652	6.00733	7.2029
10:23:08				737	9.53346	0.8814521	5.4121	1.4652	5.51893	7.18153
10:23:09				738	9.52659	0.8840227	5.4121	1.4652	5.03053	7.20543
10:23:09				739	9.51785	0.8743829	5.6089	1.4652	5.27473	7.12266
10:23:10				740	9.52173	0.8703682	5.4121	1.51404	5.32357	7.08674
10:23:10				741	9.52757	0.8816123	5.4121	1.4652	5.66545	7.18411
10:23:11				742	9.52951	0.8846643	5.4121	1.51404	5.86081	7.21048
10:23:11				743	9.52951	0.8867525	5.4121	1.51404	5.51893	7.22879
10:23:12				744	9.52659	0.8763107	5.4121	1.51404	5.47009	7.13784
10:23:12				745	9.52465	0.8816123	5.4121	1.4652	5.71429	7.18469
10:23:13				746	9.52076	0.8885211	5.4121	1.4652	5.51893	7.24606
10:23:13				747	9.53048	0.8775961	5.4121	1.4652	5.17705	7.14833
10:23:14				748	9.52854	0.8747044	5.4121	1.4652	5.47009	7.12338
10:23:14				749	9.52173	0.8869131	5.4121	1.41636	5.51893	7.23176
10:23:15				750	9.51104	0.8771143	5.4121	1.4652	5.03053	7.14797
10:23:15				751	9.50618	0.8843435	5.4121	1.4652	4.98168	7.21234
10:23:16				752	9.50715	0.887718	5.4121	1.4652	4.83516	7.24175
10:23:16				753	9.50521	0.8764726	5.4121	1.51404	4.73748	7.1435
10:23:17				754	9.51007	0.8833794	5.4121	1.51404	5.03053	7.2031
10:23:17				755	9.5091	0.8846643	5.3137	1.4652	5.12821	7.21458
10:23:18				756	9.50132	0.8796845	5.4121	1.51404	4.98168	7.17244
10:23:18				757	9.50035	0.8798446	5.4121	1.51404	5.12821	7.17403
10:23:19				758	9.4984	0.8751859	5.4121	1.4652	5.37241	7.13357

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:23:19				759	9.50035	0.874383	5.4121	1.51404	5.42125	7.12614
10:23:20				760	9.51493	0.8755075	5.4121	1.4652	5.71429	7.13311
10:23:20				761	9.50424	0.8755075	5.3137	1.4652	5.51893	7.13524
10:23:21				762	9.48965	0.8763108	5.4121	1.4652	5.32357	7.14517
10:23:21				763	9.47987	0.8912518	5.4121	1.41636	5.42125	7.27829
10:23:22				764	9.47403	0.8779182	5.4121	1.41636	5.56777	7.16238
10:23:22				765	9.50035	0.9053891	5.3137	1.4652	5.76313	7.39839
10:23:23				766	9.50132	0.9142258	5.4121	1.4652	5.56777	7.47592
10:23:23				767	9.52076	0.906675	5.4121	1.4652	5.42125	7.40549
10:23:24				768	9.52076	0.9069966	5.3137	1.51404	5.42125	7.40833
10:23:24				769	9.51882	0.9212961	5.3137	1.4652	5.17705	7.53452
10:23:25				770	9.55483	0.9184034	5.3137	1.4652	5.51893	7.50155
10:23:25				771	9.60636	0.9094045	5.4121	1.4652	4.98168	7.41185
10:23:26				772	9.57135	0.9298115	5.4121	1.4652	4.98168	7.59842
10:23:26				773	9.58403	0.9367196	5.4121	1.4652	5.17705	7.65652
10:23:27				774	9.6336	0.9298113	5.4121	1.4652	4.59096	7.5853
10:23:27				775	9.64621	0.922258	5.4121	1.4652	4.3956	7.51636
10:23:28				776	9.60636	0.9455582	5.4121	1.4652	4.54212	7.72955
10:23:28				777	9.61704	0.9328637	5.4121	1.4652	4.59096	7.61561
10:23:29				778	9.64524	0.9267584	5.4121	1.4652	4.24908	7.55605
10:23:29				779	9.62189	0.9471659	5.4121	1.4652	4.34676	7.74037
10:23:30				780	9.63263	0.9478068	5.4121	1.4652	4.49328	7.7437
10:23:30				781	9.65882	0.9417017	5.3137	1.51404	4.49328	7.68443
10:23:31				782	9.66173	0.9339875	5.4121	1.4652	4.24908	7.61605
10:23:31				783	9.65203	0.9563238	5.4121	1.4652	4.00488	7.81446
10:23:32				784	9.66367	0.9529499	5.4121	1.4652	4.3956	7.78226
10:23:32				785	9.68798	0.9421833	5.4121	1.4652	4.20024	7.68244
10:23:33				786	9.69088	0.9709474	5.4121	1.4652	4.20024	7.93471
10:23:33				787	9.6967	0.9746448	5.4121	1.4652	4.3956	7.96598
10:23:34				788	9.71512	0.964841	5.4121	1.41636	4.54212	7.87567
10:23:34				789	9.71124	0.9768951	5.4121	1.4652	4.20024	7.98258
10:23:35				790	9.71996	0.9643593	5.4121	1.4652	4.34676	7.87038
10:23:35				791	9.71415	0.9558414	5.4121	1.4652	4.1514	7.79679
10:23:36				792	9.71415	0.9574492	5.4121	1.51404	4.24908	7.81091
10:23:36				793	9.71802	0.9503779	5.4121	1.51404	4.10256	7.74797
10:23:37				794	9.72093	0.9478066	5.4121	1.4652	4.24908	7.72477
10:23:37				795	9.72384	0.943791	5.4121	1.51404	4.24908	7.68892
10:23:38				796	9.72481	0.943147	5.4121	1.4652	4.24908	7.68306
10:23:38				797	9.72578	0.9418614	5.4121	1.4652	4.34676	7.67158
10:23:39				798	9.72093	0.9378446	5.4121	1.4652	4.20024	7.63738
10:23:39				799	9.7219	0.9370404	5.5105	1.41636	4.10256	7.63011
10:23:40				800	9.71899	0.9352731	5.4121	1.4652	4.00488	7.61525
10:23:40				801	9.71124	0.9312562	5.3137	1.4652	4.24908	7.58168
10:23:41				802	9.6967	0.928685	5.4121	1.4652	4.20024	7.56218
10:23:41				803	9.68016	0.9243483	5.4121	1.51404	4.34676	7.52761
10:23:42				804	9.67822	0.9142253	5.4121	1.4652	4.6398	7.43931

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:23:42				805	9.64136	0.9069963	5.4121	1.4652	4.78632	7.38356
10:23:43				806	9.61898	0.9196875	5.4121	1.4652	4.78632	7.49947
10:23:43				807	9.59665	0.9442735	5.3137	1.41636	5.03053	7.72033
10:23:44				808	9.58694	0.940417	5.3137	1.4652	4.78632	7.68845
10:23:44				809	9.5918	0.9270786	5.4121	1.4652	4.78632	7.57008
10:23:45				810	9.57814	0.9373621	5.4121	1.41636	4.83516	7.66342
10:23:45				811	9.58209	0.9148687	5.4121	1.51404	4.73748	7.46482
10:23:46				812	9.5626	0.9227405	5.4121	1.4652	4.83516	7.53806
10:23:46				813	9.57426	0.9235444	5.4121	1.4652	5.03053	7.54268
10:23:47				814	9.58597	0.923062	5.4121	1.51404	4.93284	7.53599
10:23:47				815	9.58986	0.9270786	5.4121	1.51404	5.03053	7.57048
10:23:48	10:22:24 end transect	7.5	90	816	9.59277	0.9508616	5.4121	1.4652	4.78632	7.77918
10:23:48				817	9.60345	0.9558418	5.6089	1.4652	4.98168	7.82073
10:23:49				818	9.6248	0.951022	5.8056	1.4652	4.73748	7.77363
10:23:49				819	9.6316	1.0312227	5.904	1.4652	4.73748	8.48071
10:23:50				820	9.59762	1.1349284	6.1992	1.4652	4.73748	9.41339
10:23:50				821	9.53346	1.1598554	6.2976	1.4652	4.59096	9.65406
10:23:51				822	9.42143	1.2119723	6.4943	1.4652	4.68864	10.15522
10:23:51				823	9.25556	1.4875137	6.6911	1.51404	4.6398	12.736
10:23:52				824	8.95097	1.5575683	6.9862	1.51404	5.03053	13.50274
10:23:52				825	8.8557	1.6733919	6.9862	1.51404	4.6398	14.63605
10:23:53				826	8.72188	1.6949824	7.183	1.4652	4.24908	14.89741
10:23:53				827	8.59765	1.7415532	7.2814	1.51404	3.76068	15.39694
10:23:54				828	8.53646	1.7704011	7.3798	1.4652	3.71184	15.70174
10:23:54				829	8.46627	1.7502569	7.3798	1.4652	3.61416	15.53823
10:23:55				830	8.4356	1.7634732	7.4781	1.4652	3.51648	15.67952
10:23:55				831	8.42473	1.7355918	7.5765	1.4652	3.36996	15.41471
10:23:56				832	8.40688	1.7489678	7.5765	1.41636	3.46764	15.55185
10:23:56				833	8.38514	1.7803948	7.4781	1.51404	3.51648	15.86598
10:23:57				834	8.34552	1.7920001	7.5765	1.51404	3.46764	15.99651
10:23:57				835	8.31281	1.7895831	7.5765	1.4652	3.32112	15.98784
10:23:58				836	8.30588	1.7870045	7.5765	1.51404	3.32112	15.96591
10:23:58				837	8.31677	1.7905508	7.5765	1.4652	3.27228	15.99546
10:23:59				838	8.3138	1.794095	7.5765	1.4652	3.32112	16.03128
10:23:59				839	8.30588	1.7950638	7.6749	1.4652	3.32112	16.04428
10:24:00				840	8.31677	1.7928054	7.5765	1.4652	3.27228	16.01738
10:24:00				841	8.34849	1.791516	7.5765	1.4652	3.46764	15.99046
10:24:01				842	8.34948	1.7666972	7.5765	1.4652	3.36996	15.74906
10:24:01				843	8.34058	1.779267	7.5765	1.4652	3.36996	15.87505
10:24:02				844	8.3287	1.7581537	7.5765	1.4652	3.32112	15.67543
10:24:03				847	8.35096	1.7312305	7.5765	1.4652	3.663	15.40473
10:24:04				848	8.37476	1.7049665	7.5765	1.41636	3.663	15.14051
10:24:04				849	8.40046	1.739127	7.5765	1.4652	3.51648	15.45949
10:24:05				850	8.41831	1.7276864	7.5765	1.4652	3.80952	15.34113
10:24:05				851	8.42226	1.732841	7.5765	1.4652	3.56532	15.38921
10:24:06				852	8.41732	1.7525036	7.5765	1.4652	3.4188	15.58146

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:06				853	8.41831	1.7568537	7.5765	1.51404	3.36996	15.62311
10:24:07				854	8.42028	1.7613676	7.5765	1.4652	3.32112	15.66592
10:24:07				855	8.42325	1.7534708	7.5765	1.51404	3.46764	15.5882
10:24:08				856	8.42226	1.7549206	7.5765	1.4652	3.46764	15.60266
10:24:08				857	8.42325	1.7645895	7.5765	1.4652	3.4188	15.69578
10:24:09	10:22:45 start transect	7.5	90	858	8.42424	1.7636224	7.5765	1.4652	4.00488	15.68598
10:24:09				859	8.42226	1.7636224	7.5765	1.4652	3.4188	15.68686
10:24:10				860	8.42127	1.7534708	7.5765	1.4652	3.27228	15.58907
10:24:10				861	8.42522	1.7384825	7.5765	1.51404	3.36996	15.44242
10:24:11				862	8.43016	1.7442825	7.5765	1.4652	3.46764	15.49631
10:24:11				863	8.42918	1.7579811	7.5765	1.51404	3.56532	15.62921
10:24:12				864	8.43411	1.7197904	7.5765	1.4652	3.61416	15.25806
10:24:12				865	8.46677	1.7265565	7.4781	1.4652	3.32112	15.30923
10:24:13				866	8.46282	1.7367083	7.4781	1.4652	3.46764	15.4089
10:24:13				867	8.44794	1.7041595	7.4781	1.41636	3.36996	15.10141
10:24:14				868	8.47072	1.7068992	7.4781	1.4652	3.51648	15.11807
10:24:14				869	8.47763	1.7009372	7.4781	1.4652	3.36996	15.05771
10:24:15				870	8.49644	1.7027089	7.4781	1.4652	3.46764	15.06675
10:24:15				871	8.50434	1.6949735	7.4781	1.51404	3.51648	14.98899
10:24:16				872	8.49743	1.6832133	7.4781	1.51404	3.71184	14.87886
10:24:16				873	8.50138	1.6838568	7.4781	1.4652	3.56532	14.88338
10:24:17				874	8.50236	1.6914298	7.5765	1.4652	3.4188	14.95573
10:24:17				875	8.48552	1.6798284	7.4781	1.4652	3.61416	14.85133
10:24:18				876	8.48454	1.690947	7.4781	1.4652	3.663	14.95865
10:24:18				877	8.45986	1.6738674	7.5765	1.4652	3.80952	14.80477
10:24:19				878	8.46479	1.6679074	7.5765	1.4652	3.56532	14.74541
10:24:19				879	8.48158	1.6695166	7.4781	1.51404	3.80952	14.7539
10:24:20				880	8.48256	1.6600107	7.5765	1.51404	3.71184	14.66218
10:24:20				881	8.49151	1.626179	7.5765	1.4652	3.61416	14.33411
10:24:21				882	8.52604	1.6152247	7.4781	1.51404	3.4188	14.21538
10:24:21				883	8.52111	1.6100711	7.4781	1.4652	3.80952	14.16809
10:24:22				884	8.47565	1.5981502	7.5765	1.4652	3.9072	14.07224
10:24:22				885	8.46677	1.5949292	7.5765	1.4652	3.9072	14.04496
10:24:23				886	8.44794	1.5925128	7.5765	1.41636	3.9072	14.02933
10:24:23				887	8.41534	1.5910647	7.5765	1.4652	4.10256	14.02841
10:24:24				888	8.40243	1.5900979	7.5765	1.51404	4.1514	14.02428
10:24:24				889	8.40145	1.595253	7.5765	1.4652	4.49328	14.07406
10:24:25				890	8.39749	1.5796284	7.5765	1.51404	4.1514	13.92598
10:24:25				891	8.4054	1.5778553	7.5765	1.51404	4.10256	13.90589
10:24:26				892	8.40744	1.5883251	7.4781	1.4652	4.05372	14.00534
10:24:26				893	8.39749	1.5986349	7.5765	1.4652	4.44444	14.10805
10:24:27				894	8.39749	1.5743118	7.5765	1.4652	4.1514	13.87509
10:24:27				895	8.40342	1.5701236	7.5765	1.4652	4.05372	13.83269
10:24:28				896	8.41436	1.5735062	7.5765	1.4652	4.29792	13.86076
10:24:28				897	8.40941	1.5749578	7.5765	1.4652	4.24908	13.87659
10:24:29				898	8.40941	1.5664203	7.5765	1.51404	4.24908	13.79493

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:29				899	8.41831	1.5611045	7.5765	1.51404	4.24908	13.74065
10:24:30				900	8.42621	1.5672243	7.4781	1.51404	4.20024	13.79608
10:24:30				901	8.42522	1.567548	7.4781	1.4652	4.24908	13.79956
10:24:31				902	8.42127	1.5651311	7.5765	1.41636	4.24908	13.77798
10:24:31				903	8.4193	1.5718955	7.5765	1.4652	4.29792	13.84342
10:24:32				904	8.4193	1.5646483	7.5765	1.4652	4.20024	13.77414
10:24:32				905	8.42424	1.5846219	7.5765	1.41636	4.34676	13.96321
10:24:33				906	8.41337	1.5746335	7.5765	1.4652	4.34676	13.87193
10:24:33				907	8.41238	1.5685143	7.4781	1.51404	4.20024	13.81382
10:24:34				908	8.41534	1.5756015	7.5765	1.4652	4.44444	13.88042
10:24:34				909	8.40744	1.5784995	7.5765	1.51404	4.29792	13.91125
10:24:35				910	8.4054	1.5722196	7.4781	1.4652	4.1514	13.85199
10:24:35				911	8.4104	1.5907416	7.4781	1.4652	4.34676	14.0273
10:24:36				912	8.39552	1.5962186	7.5765	1.4652	4.44444	14.08568
10:24:36				913	8.39255	1.5802729	7.5765	1.4652	4.10256	13.9341
10:24:37				914	8.39947	1.5989562	7.4781	1.4652	4.20024	14.11036
10:24:37				915	8.39057	1.6321413	7.4781	1.4652	4.49328	14.43241
10:24:38				916	8.38168	1.6163548	7.4781	1.4652	4.44444	14.28441
10:24:38				917	8.38365	1.6211859	7.4781	1.51404	4.29792	14.33
10:24:39				918	8.3797	1.6323034	7.5765	1.4652	4.24908	14.43839
10:24:39				919	8.37377	1.617482	7.4781	1.4652	4.29792	14.29844
10:24:40				920	8.37871	1.6321414	7.4781	1.51404	4.29792	14.43726
10:24:40				921	8.38662	1.6276306	7.4781	1.4652	4.20024	14.39069
10:24:41				922	8.37575	1.6445462	7.5765	1.4652	4.24908	14.55774
10:24:41				923	8.36382	1.6408408	7.5765	1.4652	4.1514	14.52701
10:24:42				924	8.36487	1.6132927	7.4781	1.4652	4.20024	14.26181
10:24:42				925	8.37278	1.6079781	7.5765	1.51404	4.24908	14.20757
10:24:43				926	8.38464	1.6107162	7.4781	1.51404	4.24908	14.22909
10:24:43				927	8.38563	1.6256969	7.5765	1.4652	4.34676	14.3725
10:24:44				928	8.37476	1.6197372	7.5765	1.51404	4.24908	14.31968
10:24:44				929	8.38069	1.6100718	7.5765	1.51404	4.34676	14.22448
10:24:45				930	8.38464	1.6153867	7.5765	1.4652	4.05372	14.2739
10:24:45				931	8.38168	1.6168364	7.5765	1.4652	4.29792	14.28902
10:24:46				932	8.37575	1.6340732	7.5765	1.41636	4.20024	14.45703
10:24:46				933	8.36685	1.6202193	7.5765	1.4652	4.20024	14.32752
10:24:47				934	8.38563	1.5994408	7.4781	1.4652	4.20024	14.12054
10:24:47				935	8.39749	1.6563067	7.4781	1.4652	4.20024	14.6619
10:24:48				936	8.37377	1.6595296	7.5765	1.51404	4.34676	14.70277
10:24:48				937	8.36283	1.6297248	7.5765	1.51404	4.05372	14.42051
10:24:49				938	8.3797	1.622476	7.4781	1.4652	4.20024	14.344
10:24:49				939	8.37575	1.6342353	7.4781	1.4652	4.1514	14.45861
10:24:50				940	8.35788	1.6248909	7.5765	1.41636	4.00488	14.37605
10:24:50				941	8.35887	1.6181252	7.5765	1.4652	4.1514	14.31063
10:24:51	10:23:27 @ 6:00	7.5	180	942	8.36981	1.6232817	7.5765	1.4652	4.24908	14.35573
10:24:51				943	8.37871	1.6047565	7.5765	1.4652	4.20024	14.17427
10:24:52				944	8.39947	1.6111996	7.4781	1.51404	4.20024	14.22776

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:52				945	8.38761	1.6192527	7.5765	1.51404	4.1514	14.30981
10:24:53				946	8.37377	1.6261797	7.5765	1.4652	4.3956	14.38197
10:24:53				947	8.3797	1.6107163	7.5765	1.51404	4.29792	14.23107
10:24:54				948	8.40243	1.584622	7.5765	1.4652	4.24908	13.97184
10:24:54				949	8.41732	1.5743117	7.4781	1.4652	4.10256	13.86732
10:24:55				950	8.42621	1.5773734	7.5765	1.4652	4.1514	13.89309
10:24:55				951	8.42819	1.5657756	7.5765	1.41636	4.20024	13.78144
10:24:56				952	8.43609	1.5549842	7.5765	1.4652	4.24908	13.6753
10:24:56				953	8.44498	1.5562725	7.4781	1.4652	4.10256	13.68417
10:24:57				954	8.443	1.6094271	7.5765	1.4652	4.44444	14.19323
10:24:57				955	8.4351	1.589935	7.5765	1.4652	4.29792	14.00975
10:24:58				956	8.44202	1.574152	7.5765	1.51404	4.1514	13.85608
10:24:58				957	8.44794	1.5730247	7.4781	1.51404	4.1514	13.84301
10:24:59				958	8.45294	1.5601374	7.4781	1.4652	4.34676	13.71798
10:24:59				959	8.45887	1.5651309	7.4781	1.4652	4.24908	13.76335
10:25:00				960	8.4638	1.5855872	7.5765	1.4652	4.49328	13.95681
10:25:00				961	8.47763	1.5453219	7.5765	1.4652	4.20024	13.56712
10:25:01				962	8.49546	1.5421	7.4781	1.41636	4.20024	13.52962
10:25:01				963	8.50434	1.5507968	7.4781	1.4652	4.44444	13.60905
10:25:02				964	8.50236	1.5609424	7.4781	1.4652	4.44444	13.70649
10:25:03				967	8.52438	1.5514853	7.4781	1.51404	4.44444	13.60789
10:25:04				968	8.5036	1.6056074	7.4781	1.51404	4.29792	14.13242
10:25:04				969	8.47102	1.6333148	7.5765	1.4652	4.34676	14.41081
10:25:05				970	8.46708	1.587403	7.5765	1.4652	4.3956	13.97288
10:25:05				971	8.47794	1.5949736	7.4781	1.4652	4.29792	14.04097
10:25:06				972	8.4651	1.6326693	7.4781	1.4652	4.34676	14.40706
10:25:06				973	8.4443	1.6460434	7.5765	1.4652	4.20024	14.54388
10:25:07				974	8.43837	1.6471689	7.5765	1.4652	4.00488	14.55713
10:25:07				975	8.44233	1.6022248	7.3798	1.51404	4.29792	14.12456
10:25:08				976	8.45813	1.6036745	7.4781	1.4652	4.24908	14.13211
10:25:08				977	8.45516	1.6489427	7.5765	1.51404	4.29792	14.56724
10:25:09				978	8.43047	1.6413699	7.5765	1.4652	4.29792	14.50469
10:25:09				979	8.43442	1.6083444	7.5765	1.4652	4.05372	14.1863
10:25:10				980	8.44825	1.6052834	7.4781	1.4652	4.3956	14.15146
10:25:10				981	8.45121	1.6109216	7.4781	1.41636	4.29792	14.20427
10:25:11				982	8.43344	1.6209098	7.5765	1.4652	4.05372	14.30714
10:25:11				983	8.42948	1.583861	7.5765	1.4652	4.05372	13.95386
10:25:12				984	8.45121	1.5864372	7.5765	1.4652	4.00488	13.96991
10:25:12				985	8.45813	1.6052833	7.4781	1.51404	4.24908	14.1475
10:25:13				986	8.44529	1.609955	7.5765	1.51404	4.20024	14.19737
10:25:13				987	8.43541	1.5856317	7.5765	1.4652	4.20024	13.96846
10:25:14				988	8.46214	1.57468	7.4781	1.51404	4.29792	13.85326
10:25:14				989	8.47892	1.5701698	7.4781	1.4652	4.20024	13.80363
10:25:15				990	8.48386	1.574196	7.5765	1.4652	4.10256	13.84011
10:25:15				991	8.48287	1.5816059	7.5765	1.4652	4.29792	13.91126
10:25:16				992	8.49077	1.5522914	7.5765	1.4652	4.1514	13.62849

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:25:16				993	8.52931	1.5977125	7.5765	1.4652	4.24908	14.04673
10:25:17				994	8.50261	1.607217	7.5765	1.4652	4.29792	14.14818
10:25:17				995	8.46905	1.5917527	7.5765	1.4652	4.1514	14.01368
10:25:18				996	8.48188	1.5875656	7.5765	1.51404	4.20024	13.96858
10:25:18				997	8.48485	1.5898213	7.4781	1.51404	4.05372	13.98899
10:25:19				998	8.48287	1.6031894	7.5765	1.4652	4.1514	14.11756
10:25:19				999	8.47695	1.6540983	7.5765	1.4652	4.29792	14.60775
10:25:20				1000	8.47497	1.60013	7.5765	1.4652	4.29792	14.09144
10:25:20				1001	8.49866	1.6296095	7.4781	1.4652	4.10256	14.36408
10:25:21				1002	8.48879	1.6718209	7.4781	1.4652	4.3956	14.77302
10:25:21				1003	8.46313	1.6784269	7.5765	1.41636	4.10256	14.84724
10:25:22				1004	8.4522	1.6317049	7.5765	1.51404	4.00488	14.40305
10:25:22				1005	8.46806	1.6168831	7.5765	1.51404	4.59096	14.25456
10:25:23				1006	8.47399	1.6739152	7.4781	1.4652	4.29792	14.79933
10:25:23				1007	8.46214	1.6537752	7.5765	1.51404	4.00488	14.61076
10:25:24				1008	8.45615	1.6191381	7.5765	1.51404	3.85836	14.28097
10:25:24				1009	8.46609	1.5965863	7.5765	1.4652	3.76068	14.06108
10:25:25				1010	8.473	1.6571588	7.5765	1.51404	4.00488	14.63876
10:25:25				1011	8.47399	1.6880939	7.5765	1.4652	4.34676	14.93564
10:25:26				1012	8.473	1.6313809	7.5765	1.4652	3.95604	14.39147
10:25:26				1013	8.48583	1.6236491	7.4781	1.4652	3.95604	14.3122
10:25:27				1014	8.48386	1.7423983	7.5765	1.4652	3.95604	15.45461
10:25:27				1015	8.47596	1.7040453	7.6749	1.4652	3.95604	15.0883
10:25:28				1016	8.47004	1.6724653	7.5765	1.51404	3.663	14.78703
10:25:28				1017	8.48386	1.6676307	7.5765	1.4652	3.85836	14.73481
10:25:29				1018	8.47497	1.746751	7.5765	1.51404	4.00488	15.50051
10:25:29				1019	8.46214	1.7246728	7.6749	1.4652	3.85836	15.29302
10:25:30				1020	8.45121	1.6956673	7.6749	1.4652	3.85836	15.01816
10:25:30				1021	8.45615	1.671499	7.4781	1.51404	3.76068	14.78357
10:25:31				1022	8.46411	1.7245122	7.5765	1.4652	3.61416	15.29064
10:25:31				1023	8.45319	1.7277346	7.5765	1.4652	3.9072	15.32646
10:25:32				1024	8.44529	1.6969557	7.6749	1.4652	3.9072	15.03309
10:25:32				1025	8.45023	1.702595	7.5765	1.41636	3.56532	15.08534
10:25:33				1026	8.45615	1.7449762	7.5765	1.4652	3.71184	15.49162
10:25:33				1027	8.44924	1.7077521	7.5765	1.51404	3.9072	15.13546
10:25:34				1028	8.44924	1.698085	7.5765	1.4652	3.663	15.04231
10:25:34				1029	8.45516	1.734018	7.5765	1.51404	3.71184	15.38624
10:25:35				1030	8.46109	1.7158085	7.5765	1.51404	3.80952	15.20803
10:25:35				1031	8.46411	1.688094	7.5765	1.4652	3.36996	14.93982
10:25:36				1032	8.4651	1.6967961	7.5765	1.4652	3.663	15.02315
10:25:36				1033	8.47497	1.6684378	7.5765	1.41636	3.71184	14.74626
10:25:37				1034	8.48188	1.6666655	7.5765	1.4652	3.663	14.72636
10:25:37				1035	8.48287	1.7725374	7.5765	1.4652	3.56532	15.74615
10:25:38				1036	8.47695	1.7354689	7.5765	1.4652	3.80952	15.39076
10:25:38				1037	8.473	1.7066251	7.5765	1.4652	3.4188	15.11443
10:25:39				1038	8.48287	1.6822924	7.5765	1.4652	3.663	14.87611

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:25:39				1039	8.47892	1.6531312	7.4781	1.4652	3.51648	14.59767
10:25:40				1040	8.50761	1.6259027	7.2814	1.51404	3.61416	14.32501
10:25:40				1041	8.54213	1.5431108	7.0846	1.4652	3.85836	13.52148
10:25:41				1042	8.58459	1.4218593	6.7895	1.4652	4.20024	12.35824
10:25:41				1043	8.77387	1.4128432	6.3959	1.4652	4.3956	12.2081
10:25:42				1044	9.18106	1.1024769	6.0024	1.41636	4.3956	9.22962
10:25:42				1045	9.75079	1.0553636	5.7073	1.4652	4.6398	8.66638
10:25:43	10:24:19 end transect	7.5	270	1046	10.19448	0.9616528	5.3137	1.4652	4.68864	7.74459
10:25:43				1047	10.35998	0.884046	5.0186	68.76679	4.59096	7.04195
10:25:44				1048	9.96482	0.770659	4.6251	82.78388	4.6398	6.14252
10:25:44				1049	9.65961	0.5426312	4.4283	125.66545	5.71429	4.25444
10:25:45				1050	9.43292	0.4332943	4.0348	125.61661	5.66545	3.36774
10:25:45				1051	9.23678	0.4491618	3.7396	17.38706	8.05861	3.51843
10:25:46				1052	9.19864	0.4137424	3.5428	6.78877	9.03541	3.22717
10:25:46				1053	9.24263	0.3432496	3.3461	1.4652	10.69597	2.64278
10:25:47				1054	9.16933	0.3405274	3.1493	1.4652	10.89133	2.62589
10:25:47				1055	9.14875	0.3315573	2.9526	1.4652	11.72161	2.55401
10:25:48				1056	9.14582	0.3232287	2.7558	1.4652	11.47741	2.4862
10:25:48				1057	9.12724	0.3227486	2.559	1.4652	11.28205	2.48358
10:25:49				1058	9.10567	0.314581	2.1655	1.4652	11.67277	2.41844
10:25:49				1059	9.09785	0.3092971	1.9687	1.51404	11.77045	2.37591
10:25:50				1060	9.09002	0.2982471	1.6736	1.51404	12.06349	2.28655
10:25:50				1061	9.0773	0.2939249	1.4768	1.4652	11.72161	2.25226
10:25:51				1062	9.06256	0.2905617	1.1817	1.51404	11.96581	2.22589
10:25:51				1063	9.06648	0.2886408	1.0833	1.4652	12.74725	2.21007
10:25:52				1064	9.06256	0.2886408	0.9849	1.4652	12.55189	2.21031
10:25:52				1065	9.06256	0.286879	0.9849	1.4652	12.50305	2.19603
10:25:53				1066	9.05963	0.2859186	0.8865	1.41636	12.84493	2.18842
10:25:53				1067	9.05767	0.286879	0.9849	1.4652	12.35653	2.19633
10:25:54				1068	9.05571	0.2886408	0.9849	1.4652	12.21001	2.21073
10:25:54				1069	9.05571	0.2884812	0.8865	1.4652	12.60073	2.20944
10:25:55				1070	9.05571	0.1291021	0.7881	1.51404	12.79609	0.94694
10:25:55				1071	9.05963	0.0280787	0.6898	1.4652	14.45665	0.19412
10:25:56				1072	9.09589	0.146215	0.5914	0	0	1.07786
10:25:56				1073	9.12627	0.2651054	0.6898	0	0	2.01642
10:25:57				1074	9.17226	0.0899284	0.6898	0	0	0.64658
10:25:57				1075	9.22213	0.0432575	0.5914	0	0	0.30179
10:25:58				1076	9.26806	0.0430977	0.6898	0	0	0.30027
10:25:58				1077	9.31299	0.0440568	0.6898	0	0	0.30681
10:25:59	10:24:43 switch off			1078	9.34321	0.0422992	0.6898	0	0	0.29392
10:30:28	10:29:03 switch on	5.0	270	7	9.18802	0.3489027	1.3784	0	0	2.69319
10:30:29				8	9.18704	0.3498636	1.4768	0	0	2.70113
10:30:29				9	9.18508	0.3503451	1.4768	0	0	2.70523
10:30:30				10	9.18313	0.353548	1.3784	0	0	2.73165
10:30:30				11	9.18899	0.352427	1.4768	0	0	2.72201

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:30:31				12	9.19095	0.352747	1.4768	0	0	2.72448
10:30:31				13	9.1929	0.3538682	1.4768	0	0	2.73353
10:30:32				14	9.18997	0.3554718	1.4768	0	0	2.74692
10:30:32				15	9.18704	0.353548	1.4768	0	0	2.73135
10:30:33				16	9.18704	0.3548307	1.4768	0	0	2.74188
10:30:33				17	9.18313	0.3570725	1.4768	0	0	2.76058
10:30:34				18	9.19095	0.3549902	1.4768	0	0	2.74289
10:30:34				19	9.18899	0.3554718	1.4768	0	0	2.74699
10:30:35				20	9.18899	0.3567531	1.4768	0	0	2.75751
10:30:35				21	9.18899	0.355952	1.4768	0	0	2.75093
10:30:36				22	9.18899	0.3551512	1.4768	0	0	2.74436
10:30:36				23	9.18606	0.3554718	1.4768	0	0	2.74722
10:30:37				24	9.18997	0.3554718	1.4768	0	0	2.74692
10:30:37				25	9.1929	0.3546698	1.4768	0	0	2.74011
10:30:38				26	9.19095	0.3578742	1.4768	0	0	2.76657
10:30:38				27	9.19388	0.3557909	1.4768	0	0	2.74924
10:30:39				28	9.19388	0.3551512	1.4768	0	0	2.74399
10:30:39				29	9.20364	0.3620404	1.4768	0	0	2.7998
10:30:40				30	9.20169	0.3662056	1.4768	0	0	2.83419
10:30:40				31	9.20071	0.3633211	1.4768	0	0	2.81056
10:30:41				32	9.21341	0.3634815	1.4768	0	0	2.81088
10:30:41				33	9.2095	0.3706922	1.4768	0	0	2.87048
10:30:42				34	9.20462	0.3657253	1.3784	0	0	2.83002
10:30:42				35	9.20852	0.3670061	1.4768	0	0	2.84024
10:30:43				36	9.20755	0.3703715	1.4768	0	0	2.868
10:30:43				37	9.19876	0.3609177	1.4768	0	0	2.79096
10:30:44				38	9.19778	0.3679678	1.4768	0	0	2.849
10:30:44				39	9.18802	0.3622006	1.4768	0	0	2.80234
10:30:45				40	9.1929	0.3545103	1.3784	0	0	2.73881
10:30:45				41	9.18802	0.3596359	1.4768	0	0	2.78126
10:30:46				42	9.18118	0.3602775	1.4768	0	0	2.78706
10:30:46				43	9.18411	0.3556313	1.4768	0	0	2.74867
10:30:47				44	9.18508	0.3546698	1.4768	0	0	2.74071
10:30:47				45	9.18411	0.3583552	1.4768	0	0	2.77104
10:30:48				46	9.18313	0.3561116	1.4768	0	0	2.75269
10:30:48				47	9.18802	0.3533887	1.4768	0	0	2.72997
10:30:49				48	9.18508	0.3556313	1.4768	0	0	2.7486
10:30:49				49	9.18411	0.3562727	1.4768	0	0	2.75394
10:30:50				50	9.18118	0.3540291	1.4768	0	0	2.73575
10:30:50				51	9.18215	0.3548307	1.4768	0	0	2.74225
10:30:51				52	9.18215	0.3557909	1.4768	0	0	2.75013
10:30:51				53	9.18606	0.35419	1.4768	0	0	2.73669
10:30:52				54	9.18606	0.3553107	1.4768	0	0	2.74589
10:30:52				55	9.19095	0.3546698	1.4768	0	0	2.74026
10:30:53				56	9.18997	0.3545103	1.4768	0	0	2.73903
10:30:53				57	9.19778	0.3557909	1.4768	0	0	2.74894

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:30:54				58	9.19876	0.3561115	1.5752	0	0	2.75149
10:30:54				59	9.19778	0.3572337	1.4768	0	0	2.76078
10:30:55				60	9.19583	0.3570725	1.4768	0	0	2.75961
10:30:55				61	9.19778	0.3601174	1.4768	0	0	2.78446
10:30:56				62	9.19974	0.358034	1.4768	0	0	2.7672
10:30:56				63	9.19778	0.3577144	1.4768	0	0	2.76473
10:30:57				64	9.19778	0.3594759	1.4768	0	0	2.77919
10:30:57				65	9.19876	0.358515	1.4768	0	0	2.77122
10:30:58				66	9.20267	0.3588347	1.4768	0	0	2.77355
10:30:58				67	9.19681	0.3615598	1.4768	0	0	2.79639
10:30:59				68	9.19778	0.3605975	1.4768	0	0	2.7884
10:30:59				69	9.19778	0.3597974	1.4768	0	0	2.78183
10:31:00				70	9.19876	0.36172	1.6736	0	0	2.79754
10:31:00				71	9.19583	0.3610778	1.4768	0	0	2.7925
10:31:01				72	9.19485	0.3615598	1.4768	0	0	2.79654
10:31:01				73	9.19485	0.3607576	1.4768	0	0	2.78995
10:31:02				74	9.19583	0.3613996	1.4768	0	0	2.79515
10:31:02				75	9.20169	0.3612379	1.4768	0	0	2.79336
10:31:03				76	9.19876	0.3610778	1.4768	0	0	2.79227
10:31:03				77	9.20267	0.36172	1.4768	0	0	2.79725
10:31:04				78	9.20559	0.3751779	1.4768	0	0	2.90773
10:31:04				79	9.22518	0.3638023	1.4768	0	0	2.81259
10:31:05				80	9.23006	0.3636419	1.5752	0	0	2.81089
10:31:05				81	9.21634	0.3734152	1.4768	0	0	2.89235
10:31:06				82	9.21243	0.3732554	1.4768	0	0	2.89135
10:31:06				83	9.21438	0.3682879	1.4768	0	0	2.85031
10:31:07				84	9.21048	0.3676476	1.4768	0	0	2.84536
10:31:07				85	9.20559	0.370531	1.4768	0	0	2.86947
10:31:08				86	9.20071	0.3694099	1.4768	0	0	2.86063
10:31:08				87	9.20169	0.3676476	1.4768	0	0	2.84605
10:31:09				88	9.20071	0.3682879	1.4768	0	0	2.8514
10:31:09				89	9.20071	0.3687691	1.4768	0	0	2.85536
10:31:10				90	9.19681	0.3658844	1.4768	0	0	2.83194
10:31:10				91	9.20071	0.3657253	1.4768	0	0	2.83032
10:31:11				92	9.19778	0.3641231	1.4768	0	0	2.81738
10:31:11				93	9.1929	0.3633212	1.4768	0	0	2.81117
10:31:12				94	9.18899	0.3641231	1.5752	0	0	2.81806
10:31:12				95	9.18606	0.3586749	1.4768	0	0	2.77352
10:31:13				96	9.18802	0.3601174	1.4768	0.58608	0.29304	2.78522
10:31:13				97	9.18411	0.3633212	1.4768	0.39072	0.09768	2.81186
10:31:14				98	9.18997	0.3671668	1.4768	1.4652	0.9768	2.84303
10:31:14				99	9.18899	0.3671668	1.4768	1.41636	10.45177	2.8431
10:31:15				100	9.19485	0.3597974	1.4768	1.4652	11.33089	2.78206
10:31:15				101	9.19192	0.359476	1.4768	1.4652	11.13553	2.77965
10:31:16				102	9.1929	0.3620404	1.4768	1.4652	11.86813	2.80064
10:31:16				103	9.1929	0.3583552	1.4768	1.51404	11.08669	2.77036

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:31:17				104	9.19192	0.3578742	1.4768	1.4652	11.13553	2.76649
10:31:17				105	9.19192	0.3748578	1.4768	1.41636	11.33089	2.9062
10:31:18				106	9.20071	0.3679677	1.4768	1.4652	11.52625	2.84877
10:31:18				107	9.20071	0.3666862	1.4768	1.4652	10.64713	2.83822
10:31:19				108	9.19681	0.3625211	1.4768	1.4652	11.08669	2.80429
10:31:19				109	9.19485	0.358515	1.4768	1.4652	11.08669	2.77153
10:31:20				110	9.19388	0.3601174	1.4768	1.4652	11.03785	2.78476
10:31:20				111	9.19388	0.3625211	1.4768	1.4652	11.18437	2.80451
10:31:21				112	9.19485	0.3622006	1.4768	1.4652	11.33089	2.8018
10:31:21				113	9.19583	0.3618802	1.4768	1.4652	11.23321	2.79909
10:31:22				114	9.19485	0.3631608	1.4768	1.51404	11.08669	2.8097
10:31:22				115	9.19681	0.3605975	1.4768	1.4652	11.13553	2.78848
10:31:23				116	9.19485	0.3620404	1.4768	1.4652	11.33089	2.80049
10:31:23				117	9.19388	0.3626814	1.4768	1.4652	10.98901	2.80583
10:31:24				118	9.1929	0.3779027	1.4768	1.4652	11.08669	2.93122
10:31:24				119	9.20364	0.3799853	1.4768	1.4652	10.79365	2.94751
10:31:25				120	9.21634	0.3803048	1.4768	1.4652	10.64713	2.94911
10:31:25				121	9.2203	0.3833495	1.4768	1.4652	11.08669	2.97389
10:31:26				122	9.22225	0.3790238	1.4768	1.41636	11.47741	2.93806
10:31:26				123	9.2203	0.3819083	1.4768	1.4652	11.57509	2.962
10:31:27				124	9.22421	0.3742163	1.5752	1.51404	11.18437	2.8983
10:31:28				127	9.21457	0.3679049	1.4768	1.4652	11.23321	2.84715
10:31:29				128	9.21164	0.3690266	1.4768	1.4652	11.67277	2.85661
10:31:29				129	9.20968	0.3690266	1.5752	1.51404	11.33089	2.85676
10:31:30				130	9.21066	0.367104	1.4768	1.4652	11.13553	2.84087
10:31:30				131	9.20968	0.3613371	1.4768	1.4652	11.28205	2.79355
10:31:31				132	9.20187	0.3651824	1.4768	1.4652	11.08669	2.82577
10:31:31				133	9.20382	0.3647008	1.4768	1.4652	11.13553	2.82165
10:31:32				134	9.2009	0.3771968	1.4768	1.4652	10.89133	2.92475
10:31:32				135	9.21359	0.3696674	1.5752	1.4652	11.03785	2.86172
10:31:33				136	9.21847	0.3725516	1.5752	1.4652	10.94017	2.88506
10:31:33				137	9.20675	0.3664642	1.4768	1.4652	11.47741	2.83592
10:31:34				138	9.20968	0.3698269	1.4768	1.4652	11.37973	2.86335
10:31:34				139	9.21066	0.369988	1.4768	1.4652	11.13553	2.8646
10:31:35				140	9.20968	0.3727114	1.5752	1.4652	11.47741	2.88708
10:31:35				141	9.21261	0.3709484	1.4768	1.4652	12.45421	2.87234
10:31:36				142	9.21261	0.359415	1.4768	1.4652	11.33089	2.77754
10:31:36				143	9.21066	0.3651824	1.4768	1.41636	10.89133	2.82507
10:31:37				144	9.20871	0.3666234	1.5752	1.51404	10.98901	2.83707
10:31:37				145	9.2048	0.3664642	1.4768	1.4652	11.03785	2.83607
10:31:38				146	9.20578	0.3614972	1.4768	1.4652	11.08669	2.79517
10:31:38				147	9.20578	0.3637396	1.4768	1.4652	10.74481	2.8136
10:31:39				148	9.2048	0.3648613	1.4768	1.4652	10.98901	2.8229
10:31:39				149	9.20578	0.3639	1.4768	1.4652	11.37973	2.81492
10:31:40				150	9.20285	0.3629394	1.5752	1.4652	11.52625	2.80725
10:31:40				151	9.2009	0.3648613	1.4768	1.51404	11.28205	2.8232

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:31:41				152	9.20578	0.3642209	1.4768	1.4652	12.01465	2.81755
10:31:41				153	9.2048	0.3658232	1.4768	1.51404	11.57509	2.8308
10:31:42				154	9.20187	0.3659823	1.4768	1.4652	11.23321	2.83234
10:31:42				155	9.20285	0.3635793	1.5752	1.4652	11.91697	2.81251
10:31:43				156	9.20187	0.3637396	1.4768	1.4652	11.37973	2.8139
10:31:43				157	9.19699	0.3554095	1.4768	1.41636	11.52625	2.74587
10:31:44				158	9.19211	0.3642209	1.4768	1.4652	11.47741	2.81863
10:31:44				159	9.19797	0.3639001	1.4768	1.4652	11.42857	2.81553
10:31:45	10:30:21 start transect	5.0	270	160	9.20187	0.3630997	1.4768	1.4652	11.18437	2.80865
10:31:45				161	9.19894	0.361177	1.5752	1.4652	10.94017	2.79307
10:31:46				162	9.19992	0.3606966	1.4768	1.51404	10.94017	2.78905
10:31:46				163	9.19699	0.3576536	1.4768	1.4652	11.18437	2.76429
10:31:47				164	9.19406	0.3576536	1.4768	1.4652	10.98901	2.76451
10:31:47				165	9.19504	0.359415	1.4768	1.51404	11.08669	2.7789
10:31:48				166	9.19113	0.3619778	1.4768	1.41636	11.03785	2.80026
10:31:48				167	9.19113	0.3605366	1.4768	1.41636	10.89133	2.78842
10:31:49				168	9.19308	0.3605366	1.4768	1.4652	11.08669	2.78827
10:31:49				169	9.19504	0.3610168	1.4768	1.51404	11.28205	2.79206
10:31:50				170	9.19504	0.3592551	1.4768	1.4652	11.08669	2.77759
10:31:50				171	9.19797	0.359415	1.5752	1.4652	10.98901	2.77867
10:31:51				172	9.19699	0.3592551	1.5752	1.4652	11.13553	2.77743
10:31:51				173	9.19308	0.3560507	1.4768	1.51404	11.28205	2.75143
10:31:52				174	9.19308	0.3520465	1.4768	1.51404	10.84249	2.71858
10:31:52				175	9.19308	0.3485231	1.5752	1.4652	10.89133	2.68969
10:31:53				176	9.19113	0.3430763	1.5752	1.4652	10.98901	2.64522
10:31:53				177	9.18429	0.3509251	1.5752	1.4652	11.42857	2.71004
10:31:54				178	9.17941	0.3517267	1.4768	1.51404	11.67277	2.71699
10:31:54				179	9.17745	0.3517267	1.4768	1.4652	11.33089	2.71714
10:31:55				180	9.17941	0.3525271	1.4768	1.4652	11.52625	2.72356
10:31:55				181	9.17843	0.3536481	1.5752	1.41636	11.81929	2.73282
10:31:56				182	9.17843	0.354609	1.4768	1.4652	11.18437	2.74072
10:31:56				183	9.17941	0.3530079	1.5752	1.4652	11.52625	2.7275
10:31:57				184	9.17941	0.3746332	1.5752	1.51404	11.03785	2.90536
10:31:57				185	9.18527	0.3712693	1.5752	1.51404	11.28205	2.87717
10:31:58				186	9.19699	0.3579731	1.5752	1.51404	11.52625	2.76691
10:31:58				187	9.19601	0.3493233	1.5752	1.4652	11.37973	2.69603
10:31:59				188	9.19406	0.3417945	1.5752	1.4652	11.62393	2.63452
10:31:59				189	9.1882	0.3390719	1.4768	1.4652	11.37973	2.61267
10:32:00				190	9.17941	0.334747	1.5752	1.4652	12.01465	2.57794
10:32:00				191	9.17348	0.3283415	1.5752	1.4652	11.13553	2.52605
10:32:01				192	9.1686	0.3104047	1.5752	1.4652	11.77045	2.38025
10:32:01				193	9.15296	0.3184122	1.5752	1.4652	12.01465	2.44648
10:32:02				194	9.15003	0.3222552	1.5752	1.51404	11.37973	2.47801
10:32:02				195	9.15296	0.3088024	1.5752	1.51404	11.81929	2.36826
10:32:03				196	9.14319	0.3168098	1.4768	1.51404	11.81929	2.43409
10:32:03				197	9.13928	0.3232168	1.4768	1.51404	12.06349	2.48661

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:04				198	9.1383	0.3264197	1.5752	1.51404	11.91697	2.51282
10:32:04				199	9.1383	0.3289818	1.5752	1.51404	11.28205	2.53375
10:32:05				200	9.14612	0.3286609	1.5752	1.51404	11.47741	2.53058
10:32:05				201	9.14515	0.3277002	1.5752	1.51404	11.96581	2.5228
10:32:06				202	9.14417	0.3264197	1.5752	1.51404	11.47741	2.51241
10:32:06				203	9.14221	0.3241775	1.4768	1.51404	11.77045	2.49425
10:32:07				204	9.14124	0.3243367	1.5752	1.4652	11.67277	2.49561
10:32:07				205	9.13733	0.3236971	1.5752	1.51404	11.57509	2.49066
10:32:08				206	9.13146	0.3240169	1.4768	1.51404	11.47741	2.49368
10:32:08				207	9.13048	0.3184123	1.5752	1.51404	11.42857	2.44801
10:32:09				208	9.13146	0.3129666	1.5752	1.51404	12.50305	2.40357
10:32:09				209	9.12944	0.31665	1.5752	1.51404	11.67277	2.43372
10:32:10				210	9.12358	0.3148884	1.4768	1.51404	11.77045	2.41976
10:32:10				211	9.11282	0.3148884	1.5752	1.4652	11.96581	2.42048
10:32:11				212	9.10891	0.3153689	1.4768	1.51404	12.50305	2.42467
10:32:11				213	9.10891	0.3150481	1.5752	1.4652	11.91697	2.42205
10:32:12				214	9.10793	0.3126463	1.4768	1.4652	12.21001	2.40254
10:32:12				215	9.11184	0.3171311	1.4768	1.4652	11.86813	2.43884
10:32:13				216	9.10989	0.3153689	1.4768	1.4652	11.18437	2.4246
10:32:13				217	9.11282	0.3163304	1.5752	1.4652	11.96581	2.43224
10:32:14				218	9.11478	0.3160093	1.5752	1.4652	12.01465	2.42949
10:32:14				219	9.11673	0.3160093	1.5752	1.4652	11.91697	2.42936
10:32:15				220	9.11576	0.3139279	1.4768	1.51404	11.86813	2.41246
10:32:15				221	9.11967	0.3081623	1.4768	1.51404	11.47741	2.36525
10:32:16				222	9.11673	0.3086435	1.5752	1.4652	12.06349	2.36936
10:32:16				223	9.11673	0.3070417	1.5752	1.4652	12.06349	2.35632
10:32:17				224	9.11673	0.3041588	1.4768	1.4652	11.72161	2.33288
10:32:17				225	9.10793	0.3096034	1.5752	1.41636	12.35653	2.37775
10:32:18				226	9.10598	0.2955119	1.4768	1.4652	11.62393	2.26334
10:32:18				227	9.105	0.3035193	1.5752	1.4652	11.96581	2.32844
10:32:19				228	9.10598	0.297914	1.4768	1.4652	12.30769	2.28284
10:32:19				229	9.10402	0.289108	1.4768	1.4652	12.11233	2.21153
10:32:20				230	9.09326	0.2916692	1.4768	1.4652	12.21001	2.23296
10:32:20				231	9.09228	0.2918292	1.5752	1.4652	12.35653	2.23431
10:32:21				232	9.09228	0.2894274	1.5752	1.4652	12.50305	2.21484
10:32:21				233	9.09326	0.2908697	1.4768	1.4652	12.40537	2.22647
10:32:22				234	9.08739	0.2876661	1.5752	1.51404	12.45421	2.20086
10:32:22				235	9.08342	0.2868659	1.4768	1.4652	11.81929	2.19463
10:32:23				236	9.08048	0.2883071	1.5752	1.4652	11.86813	2.20648
10:32:23				237	9.07461	0.2857448	1.5752	1.4652	12.06349	2.18608
10:32:24				238	9.07168	0.2863864	1.5752	1.4652	12.55189	2.19145
10:32:24				239	9.07461	0.2838234	1.5752	1.51404	12.45421	2.17051
10:32:25				240	9.06776	0.2843049	1.4768	1.4652	12.25885	2.17483
10:32:25				241	9.06483	0.2827033	1.5752	1.4652	12.50305	2.16203
10:32:26				242	9.06678	0.2849444	1.4768	1.4652	12.01465	2.18007
10:32:26				243	9.06581	0.283183	1.5752	1.4652	12.64957	2.16586

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:27				244	9.06581	0.2835039	1.4768	1.4652	12.16117	2.16846
10:32:28				247	9.06844	0.2854147	1.4768	1.51404	12.50305	2.18378
10:32:29				248	9.07039	0.2854147	1.5752	1.4652	13.18681	2.18366
10:32:29				249	9.06648	0.2849357	1.4768	1.4652	12.60073	2.18002
10:32:30				250	9.06648	0.2847751	1.5752	1.4652	12.01465	2.17871
10:32:30				251	9.0625	0.2839737	1.5752	1.4652	12.45421	2.17246
10:32:31				252	9.06452	0.2850949	1.4768	1.4652	12.84493	2.18143
10:32:31				253	9.0625	0.2866964	1.5752	1.41636	12.25885	2.19453
10:32:32				254	9.06452	0.2855754	1.4768	1.4652	12.40537	2.18532
10:32:32				255	9.0625	0.2858954	1.4768	1.4652	11.81929	2.18804
10:32:33				256	9.0625	0.2846145	1.5752	1.4652	11.96581	2.17765
10:32:33				257	9.0625	0.2839737	1.4768	1.4652	12.21001	2.17247
10:32:34				258	9.06152	0.2815725	1.4768	1.51404	12.74725	2.15308
10:32:34				259	9.05663	0.2807716	1.4768	1.4652	12.84493	2.14689
10:32:35				260	9.05467	0.2798111	1.5752	1.4652	13.38217	2.13922
10:32:35				261	9.05272	0.281893	1.5752	1.51404	12.11233	2.1562
10:32:36				262	9.0537	0.2817328	1.5752	1.41636	12.30769	2.15484
10:32:36				263	9.05565	0.2831743	1.5752	1.4652	12.21001	2.1664
10:32:37				264	9.05272	0.2823739	1.4768	1.4652	12.64957	2.1601
10:32:37				265	9.05565	0.2838147	1.5752	1.4652	12.84493	2.17159
10:32:38				266	9.05663	0.281893	1.5752	1.51404	12.45421	2.15596
10:32:38				267	9.05663	0.2825328	1.4768	1.4652	12.40537	2.16115
10:32:39				268	9.05761	0.2814123	1.4768	1.4652	12.11233	2.15201
10:32:39				269	9.05859	0.2817328	1.5752	1.4652	12.45421	2.15455
10:32:40				270	9.05859	0.2830139	1.4768	1.4652	12.55189	2.16493
10:32:40				271	9.0625	0.2804514	1.5752	1.4652	13.47985	2.14394
10:32:41				272	9.05859	0.2802913	1.5752	1.4652	12.89377	2.14288
10:32:41				273	9.05467	0.2807716	1.5752	1.4652	12.21001	2.147
10:32:42				274	9.05467	0.2857362	1.5752	1.51404	12.35653	2.18722
10:32:42				275	9.05663	0.2990246	1.5752	1.51404	12.45421	2.295
10:32:43				276	9.05663	0.3222449	1.5752	1.4652	12.11233	2.48439
10:32:43				277	9.06844	0.3292923	1.5752	1.51404	12.35653	2.54123
10:32:44				278	9.09779	0.3121564	1.5752	1.41636	12.25885	2.39923
10:32:44				279	9.09094	0.3174406	1.5752	1.4652	12.55189	2.44278
10:32:45				280	9.08311	0.3291311	1.5752	1.4652	12.11233	2.53887
10:32:45				281	9.09192	0.3316934	1.4768	1.4652	12.40537	2.55923
10:32:46				282	9.11349	0.325127	1.4768	1.51404	12.50305	2.504
10:32:46				283	9.12327	0.3240065	1.5752	1.4652	12.16117	2.49416
10:32:47				284	9.12132	0.3270501	1.5752	1.4652	11.62393	2.51916
10:32:47				285	9.12425	0.3315334	1.5752	1.4652	12.25885	2.55561
10:32:48				286	9.12718	0.3276898	1.5752	1.4652	11.33089	2.52398
10:32:48				287	9.13012	0.3272096	1.4768	1.4652	11.77045	2.51985
10:32:49				288	9.13403	0.3172806	1.4768	1.4652	12.06349	2.43855
10:32:49				289	9.13794	0.3241671	1.5752	1.4652	11.23321	2.49445
10:32:50				290	9.14185	0.3259281	1.5752	1.4652	11.77045	2.50856
10:32:50				291	9.14185	0.3241671	1.4768	1.51404	11.72161	2.49419

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:51				292	9.14282	0.3220843	1.5752	1.41636	11.91697	2.47712
10:32:51				293	9.13989	0.3204838	1.4768	1.4652	12.21001	2.46427
10:32:52				294	9.13598	0.3296118	1.4768	1.4652	12.25885	2.53907
10:32:52				295	9.135	0.3284908	1.5752	1.51404	11.81929	2.52997
10:32:53				296	9.13598	0.3278508	1.4768	1.4652	11.13553	2.52468
10:32:53				297	9.13989	0.329131	1.4768	1.4652	12.16117	2.53486
10:32:54				298	9.14282	0.3305722	1.4768	1.4652	11.91697	2.54644
10:32:54				299	9.14576	0.3308935	1.4768	1.4652	11.91697	2.54885
10:32:55				300	9.14771	0.3296118	1.4768	1.4652	12.01465	2.53824
10:32:55				301	9.14673	0.3316933	1.4768	1.4652	11.72161	2.55532
10:32:56				302	9.14673	0.3348969	1.4768	1.51404	11.57509	2.58152
10:32:56				303	9.15461	0.3398626	1.5752	1.4652	11.91697	2.62159
10:32:57				304	9.16341	0.3384213	1.4768	1.4652	11.52625	2.60915
10:32:57				305	9.16829	0.341784	1.4768	1.4652	11.47741	2.63632
10:32:58				306	9.16634	0.3376193	1.5752	1.4652	12.21001	2.60238
10:32:58				307	9.1595	0.3307336	1.4768	1.51404	12.25885	2.54657
10:32:59				308	9.14967	0.3312134	1.5752	1.4652	12.25885	2.55119
10:32:59				309	9.13598	0.3220844	1.5752	1.4652	12.11233	2.47759
10:33:00				310	9.13794	0.3438662	1.5752	1.4652	13.67521	2.65562
10:33:00				311	9.14478	0.3347365	1.772	1.4652	13.18681	2.58034
10:33:01				312	9.15162	0.3496336	1.8703	1.4652	11.81929	2.70189
10:33:01				313	9.16048	0.3494732	2.1655	1.4652	11.57509	2.6999
10:33:02				314	9.17513	0.348511	2.3623	1.4652	11.52625	2.6909
10:33:02				315	9.18002	0.3504344	2.4606	1.51404	10.94017	2.7063
10:33:03	10:31:39 end transect	5.0	90	316	9.18197	0.3552394	2.6574	1.41636	11.33089	2.74557
10:33:03				317	9.18392	0.3515554	2.8542	1.51404	11.18437	2.71518
10:33:04				318	9.18197	0.348511	3.0509	1.4652	11.47741	2.69036
10:33:04				319	9.18392	0.3486713	3.0509	1.51404	11.08669	2.69153
10:33:05				320	9.18197	0.3473908	3.0509	1.4652	11.03785	2.68118
10:33:05				321	9.18099	0.3454682	3.0509	1.4652	11.86813	2.6655
10:33:06				322	9.18099	0.3472306	3.1493	1.4652	12.16117	2.67993
10:33:06				323	9.17806	0.3462699	3.0509	1.4652	11.57509	2.67228
10:33:07				324	9.18295	0.3437064	3.0509	1.4652	11.47741	2.65092
10:33:07				325	9.17904	0.3414634	3.0509	1.4652	11.03785	2.63285
10:33:08				326	9.17709	0.3419451	3.1493	1.4652	12.35653	2.63693
10:33:08				327	9.17513	0.3437064	3.0509	1.4652	11.37973	2.6515
10:33:09				328	9.17513	0.3515555	3.0509	1.4652	11.47741	2.71584
10:33:09				329	9.17904	0.3560402	3.0509	1.4652	11.96581	2.75235
10:33:10				330	9.18197	0.3550784	3.0509	1.4652	12.21001	2.74423
10:33:10				331	9.18686	0.3536376	3.0509	1.4652	11.42857	2.73203
10:33:11				332	9.18588	0.3549189	3.0509	1.4652	11.52625	2.74262
10:33:11				333	9.18783	0.3547594	3.0509	1.4652	11.47741	2.74116
10:33:12				334	9.19174	0.3529973	3.0509	1.4652	11.33089	2.72641
10:33:12				335	9.18783	0.3541187	3.0509	1.4652	11.18437	2.73591
10:33:13				336	9.18686	0.3526758	3.0509	1.51404	11.08669	2.72414
10:33:13				337	9.1849	0.3491524	3.0509	1.41636	12.35653	2.6954

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:14				338	9.1849	0.3467501	3.0509	1.4652	11.77045	2.67571
10:33:14				339	9.18197	0.350754	3.0509	1.51404	12.45421	2.70875
10:33:15				340	9.17513	0.3432256	3.0509	1.4652	12.06349	2.64756
10:33:15				341	9.16048	0.3363393	3.0509	1.4652	11.23321	2.59227
10:33:16				342	9.15754	0.3389006	3.0509	1.4652	12.16117	2.61344
10:33:16				343	9.16439	0.3376194	3.0509	1.4652	11.62393	2.60246
10:33:17				344	9.16341	0.3315334	3.0509	1.51404	11.62393	2.55276
10:33:17				345	9.15852	0.3356974	3.0509	1.4652	12.89377	2.58716
10:33:18				346	9.15754	0.3368194	3.0509	1.4652	12.01465	2.59641
10:33:18				347	9.15852	0.3211235	3.0509	1.4652	11.37973	2.46814
10:33:19				348	9.1526	0.3284908	3.0509	1.4652	12.01465	2.52867
10:33:19				349	9.15064	0.3256079	3.0509	1.51404	12.16117	2.50527
10:33:20				350	9.1438	0.3270502	3.0509	1.51404	11.91697	2.51753
10:33:20				351	9.14771	0.325127	3.0509	1.41636	12.06349	2.50155
10:33:21				352	9.14478	0.3283312	3.0509	1.4652	11.67277	2.52792
10:33:21				353	9.14185	0.3289714	3.0509	1.4652	11.81929	2.53336
10:33:22	10:31:58 start transect	5.0	90	354	9.14478	0.3272097	3.0509	1.4652	11.72161	2.51876
10:33:22				355	9.1438	0.3243263	3.0509	1.51404	11.86813	2.49529
10:33:23				356	9.14185	0.3196828	3.0509	1.4652	12.11233	2.45754
10:33:23				357	9.13794	0.3135971	3.0509	1.4652	11.18437	2.40822
10:33:24				358	9.12914	0.3076725	3.0509	1.51404	12.30769	2.36058
10:33:24				359	9.11838	0.3308936	3.0509	1.4652	12.01465	2.55073
10:33:25				360	9.11741	0.3366589	3.0509	1.4652	11.72161	2.598
10:33:25				361	9.12718	0.3762249	3.0509	1.4652	12.11233	2.92266
10:33:26				362	9.17318	0.381672	3.0509	1.4652	11.81929	2.96387
10:33:26				363	9.20053	0.39497	3.0509	1.51404	11.81929	3.07146
10:33:27				364	9.21426	0.3876002	3.0509	1.51404	11.42857	3.00939
10:33:28				367	9.23287	0.4125918	3.0509	1.51404	11.13553	3.21457
10:33:29				368	9.24263	0.429419	3.0509	1.4652	10.30525	3.35342
10:33:29				369	9.24556	0.4345473	3.0509	1.41636	10.30525	3.39581
10:33:30				370	9.25239	0.4492922	3.0509	1.51404	10.50061	3.51802
10:33:30				371	9.26508	0.4571456	3.0509	1.51404	10.69597	3.58233
10:33:31				372	9.27587	0.4544215	3.0509	1.4652	10.30525	3.55851
10:33:31				373	9.27392	0.4577864	3.0509	1.4652	9.91453	3.5868
10:33:32				374	9.28367	0.4678851	3.0509	1.4652	10.01221	3.67021
10:33:32				375	9.31098	0.4707707	3.0509	1.4652	9.96337	3.69154
10:33:33				376	9.32956	0.4641981	3.1493	1.4652	10.06105	3.63473
10:33:33				377	9.31195	0.4650009	3.0509	1.4652	10.01221	3.64322
10:33:34				378	9.31591	0.4725344	3.0509	1.4652	10.25641	3.70578
10:33:34				379	9.32664	0.4694878	3.1493	1.4652	10.15873	3.67921
10:33:35				380	9.32274	0.4606715	3.0509	1.51404	10.01221	3.60599
10:33:35				381	9.2983	0.4513759	3.0509	1.4652	10.10989	3.5309
10:33:36				382	9.29147	0.4500928	3.0509	1.41636	10.30525	3.52087
10:33:36				383	9.27684	0.4210853	3.0509	1.4652	9.91453	3.28104
10:33:37				384	9.26806	0.4324635	3.0509	1.51404	9.81685	3.37635
10:33:37				385	9.2602	0.4093872	3.0509	1.4652	10.01221	3.18559

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:38				386	9.25337	0.419322	3.0509	1.41636	10.79365	3.26855
10:33:38				387	9.24556	0.4055425	3.0509	1.4652	10.89133	3.15504
10:33:39				388	9.24361	0.401696	3.0509	1.51404	10.20757	3.12338
10:33:39				389	9.24751	0.3994534	3.0509	1.4652	10.64713	3.1045
10:33:40				390	9.25239	0.4021765	3.0509	1.41636	10.30525	3.12659
10:33:40				391	9.25434	0.4057025	3.0509	1.4652	10.45177	3.1556
10:33:41				392	9.2602	0.398491	3.0509	1.4652	10.59829	3.09545
10:33:41				393	9.26215	0.4060226	3.0509	1.4652	10.69597	3.15756
10:33:42				394	9.26215	0.4127525	3.0509	1.4652	10.40293	3.21329
10:33:42				395	9.27684	0.4154775	3.0509	1.4652	10.69597	3.23455
10:33:43				396	9.28562	0.4092268	3.0509	1.4652	10.35409	3.18201
10:33:43				397	9.27977	0.4081062	3.0509	1.4652	10.30525	3.17325
10:33:44				398	9.27684	0.414034	3.0509	1.4652	10.50061	3.22259
10:33:44				399	9.2827	0.4274958	3.0509	1.4652	10.15873	3.33371
10:33:45				400	9.28465	0.4199644	3.0509	1.51404	10.50061	3.27104
10:33:45				401	9.29245	0.4175606	3.0509	1.4652	10.35409	3.2504
10:33:46				402	9.29635	0.4210852	3.0509	1.4652	10.10989	3.27926
10:33:46				403	9.28855	0.4342264	3.1493	1.4652	10.45177	3.38907
10:33:47				404	9.28952	0.4467268	3.0509	1.51404	10.06105	3.49301
10:33:47				405	9.29928	0.4433611	3.0509	1.4652	10.10989	3.46404
10:33:48				406	9.30708	0.4481699	3.0509	1.41636	11.13553	3.50333
10:33:48				407	9.31786	0.4651602	3.0509	1.4652	10.40293	3.64396
10:33:49				408	9.32274	0.4641981	3.0509	1.51404	10.06105	3.63543
10:33:49				409	9.32761	0.4674048	3.0509	1.4652	10.64713	3.66171
10:33:50				410	9.32956	0.471893	3.0509	1.4652	10.01221	3.69901
10:33:50				411	9.32566	0.4579466	3.0509	1.4652	9.67033	3.58297
10:33:51				412	9.31591	0.4481699	3.0509	1.51404	10.20757	3.50246
10:33:51				413	9.31293	0.4441637	3.0509	1.51404	10.79365	3.4694
10:33:52				414	9.30513	0.4480106	3.0509	1.4652	10.64713	3.50219
10:33:52				415	9.31098	0.446246	3.0509	1.4652	10.30525	3.48693
10:33:53				416	9.31098	0.4603521	3.0509	1.4652	9.52381	3.60451
10:33:53				417	9.31	0.4706109	3.0509	1.51404	9.81685	3.6903
10:33:54				418	9.32859	0.4739764	3.0509	1.4652	10.94017	3.71653
10:33:54				419	9.34223	0.4698088	3.0509	1.4652	10.15873	3.6803
10:33:55				420	9.33151	0.4632366	3.0509	1.4652	9.57265	3.62652
10:33:55				421	9.33248	0.4730144	3.0509	1.4652	9.96337	3.70808
10:33:56				422	9.33443	0.4733361	3.1493	1.4652	9.32845	3.71057
10:33:56				423	9.34126	0.4614742	3.0509	1.51404	9.71917	3.61083
10:33:57				424	9.34613	0.453299	3.0509	1.4652	9.57265	3.54222
10:33:57				425	9.33151	0.4488106	3.0509	1.41636	9.91453	3.50628
10:33:58				426	9.32371	0.4388747	3.0509	1.4652	9.57265	3.42438
10:33:58				427	9.30415	0.438393	3.0509	1.51404	9.62149	3.42224
10:33:59				428	9.28075	0.4422396	3.0509	1.4652	9.96337	3.45649
10:33:59				429	9.27879	0.4662822	3.0509	1.41636	9.86569	3.6573
10:34:00				430	9.28757	0.4723745	3.1493	1.4652	9.47497	3.70736
10:34:00				431	9.31195	0.4726944	3.0509	1.51404	9.52381	3.70753

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:01				432	9.31195	0.4741365	3.0509	1.51404	10.10989	3.71959
10:34:01				433	9.30708	0.4733361	3.0509	1.4652	10.01221	3.7134
10:34:02				434	9.31981	0.476221	3.0509	1.51404	9.67033	3.73621
10:34:02				435	9.34613	0.4747787	3.0509	1.4652	9.86569	3.72142
10:34:03				436	9.33736	0.4730144	3.0509	1.41636	10.25641	3.70758
10:34:03				437	9.33736	0.4723744	3.0509	1.51404	9.47497	3.70223
10:34:04				438	9.3549	0.4736562	3.1493	1.51404	9.91453	3.71113
10:34:04				439	9.3647	0.4726943	3.0509	1.4652	10.06105	3.70209
10:34:05				440	9.35977	0.4730143	3.0509	1.4652	9.47497	3.70527
10:34:05				441	9.35392	0.4638781	3.0509	1.4652	9.32845	3.62961
10:34:06				442	9.33248	0.4552228	3.0509	1.4652	9.47497	3.55959
10:34:06				443	9.33541	0.4518564	3.0509	1.51404	9.32845	3.53126
10:34:07				444	9.31689	0.4359896	3.0509	1.4652	9.71917	3.40106
10:34:07				445	9.30123	0.4324634	3.0509	1.4652	10.25641	3.37324
10:34:08				446	9.27782	0.4249318	3.0509	1.4652	10.06105	3.31287
10:34:08				447	9.27099	0.4233293	3.1493	1.41636	9.23077	3.30019
10:34:09				448	9.25922	0.4246112	3.0509	1.4652	9.76801	3.31192
10:34:09				449	9.25434	0.4443228	3.0509	1.4652	9.91453	3.47639
10:34:10				450	9.25142	0.4420793	3.0509	1.51404	9.86569	3.45798
10:34:10				451	9.25142	0.4569855	3.0509	1.4652	10.01221	3.58235
10:34:11				452	9.27879	0.4645199	3.1493	1.4652	11.18437	3.64256
10:34:11				453	9.31098	0.4585878	3.1493	1.4652	10.50061	3.58978
10:34:12				454	9.30708	0.464039	3.0509	1.4652	9.62149	3.63568
10:34:12				455	9.31591	0.4653211	3.0509	1.4652	10.10989	3.6455
10:34:13				456	9.33443	0.4667636	3.0509	1.51404	9.37729	3.65566
10:34:13				457	9.34905	0.471733	3.0509	1.51404	9.52381	3.69567
10:34:14				458	9.35003	0.4683669	3.0509	1.4652	9.86569	3.66746
10:34:14				459	9.33541	0.4667636	3.0509	1.4652	9.67033	3.65556
10:34:15				460	9.33541	0.461153	3.0509	1.4652	9.96337	3.60874
10:34:15				461	9.34321	0.4619544	3.0509	1.4652	9.57265	3.61464
10:34:16				462	9.34613	0.4523371	3.0509	1.4652	9.86569	3.53421
10:34:16				463	9.34321	0.4351876	3.0509	1.51404	10.01221	3.39191
10:34:17				464	9.33443	0.4210852	3.0509	1.51404	9.96337	3.27579
10:34:17				465	9.30123	0.4100288	3.0509	1.4652	10.01221	3.18726
10:34:18				466	9.28952	0.4028184	3.0509	1.4652	10.40293	3.12867
10:34:18				467	9.29245	0.3975308	3.0509	1.4652	10.25641	3.08475
10:34:19				468	9.2866	0.411631	3.0509	1.4652	10.40293	3.20182
10:34:19				469	9.27294	0.429419	3.0509	1.4652	10.20757	3.35059
10:34:20				470	9.28562	0.4236496	3.0509	1.51404	10.45177	3.30151
10:34:20				471	9.28075	0.4674049	3.0509	1.51404	10.20757	3.66649
10:34:21				472	9.30318	0.4688475	3.0509	1.4652	10.79365	3.67626
10:34:21				473	9.34905	0.462756	3.0509	1.4652	10.20757	3.62074
10:34:22				474	9.31591	0.4552228	3.0509	1.4652	9.76801	3.56123
10:34:22				475	9.32274	0.4851983	3.1493	1.4652	10.25641	3.81106
10:34:23				476	9.36275	0.4767019	3.0509	1.4652	9.96337	3.73577
10:34:23				477	9.37542	0.4685265	3.0509	1.51404	9.47497	3.6662

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:24				478	9.38418	0.461153	3.0509	1.51404	10.10989	3.60385
10:34:24				479	9.38321	0.4457653	3.0509	1.4652	9.96337	3.47594
10:34:25				480	9.37152	0.4526582	3.0509	1.4652	9.52381	3.53439
10:34:25				481	9.36957	0.4504133	3.0509	1.4652	9.37729	3.5159
10:34:26				482	9.36568	0.4577863	3.0509	1.4652	8.74237	3.57765
10:34:26				483	9.36957	0.4736562	3.0509	1.4652	8.88889	3.70962
10:34:27				484	9.37737	0.4643589	3.0509	1.51404	9.52381	3.63125
10:34:28				487	9.38534	0.4645246	3.0509	1.51404	8.74237	3.63183
10:34:29				488	9.38339	0.4664479	3.0509	1.51404	8.20513	3.64806
10:34:29				489	9.38729	0.4832789	3.0509	1.4652	8.98657	3.78818
10:34:30				490	9.39703	0.4906537	3.1493	1.51404	9.13309	3.84883
10:34:30				491	9.40975	0.4912953	3.1493	1.4652	9.18193	3.85284
10:34:31				492	9.41753	0.4935405	3.2477	1.41636	8.74237	3.87078
10:34:31				493	9.43116	0.5023583	3.2477	1.4652	9.18193	3.94313
10:34:32	10:33:08 end transect	5.0	270	494	9.44673	0.5137415	3.4445	1.4652	8.93773	4.03681
10:34:32				495	9.47209	0.5262484	3.5428	1.4652	8.98657	4.1389
10:34:33				496	9.51882	0.5264081	3.838	1.4652	8.69353	4.13486
10:34:33				497	9.52951	0.5272105	4.0348	1.51404	8.10745	4.14035
10:34:34				498	9.5402	0.5260885	4.2315	1.51404	7.86325	4.1297
10:34:34				499	9.53923	0.5257674	4.3299	1.4652	7.91209	4.12712
10:34:35				500	9.53631	0.5268892	4.3299	1.51404	7.81441	4.13685
10:34:35				501	9.53631	0.5278517	4.4283	1.4652	8.05861	4.14492
10:34:36				502	9.53826	0.5252866	4.4283	1.4652	7.81441	4.12319
10:34:36				503	9.53437	0.5313797	4.4283	1.4652	7.76557	4.17474
10:34:37				504	9.5402	0.5334636	4.5267	1.4652	7.86325	4.19154
10:34:37				505	9.54894	0.5623315	4.5267	1.4652	7.81441	4.43326
10:34:38				506	9.55089	0.5435664	4.6251	1.4652	7.22833	4.27512
10:34:38				507	9.54894	0.6772035	4.6251	1.51404	7.27717	5.40904
10:34:39				508	9.53145	0.8462646	4.8218	1.4652	8.15629	6.87413
10:34:39				509	9.61219	0.715242	5.0186	1.4652	7.27717	5.72532
10:34:40				510	9.66949	0.7780138	5.117	1.51404	6.88645	6.25627
10:34:40				511	9.68888	0.9400849	5.2153	20.75702	6.15385	7.66385
10:34:41				512	9.88952	0.8808004	5.3137	20.70818	6.10501	7.10543
10:34:41				513	9.9679	0.8735711	5.3137	28.81563	5.42125	7.02751
10:34:42				514	9.97659	0.9556717	5.4121	20.90354	5.71429	7.73898
10:34:42				515	10.18113	0.8896341	5.4121	17.09402	6.00733	7.12467
10:34:43				516	10.24186	0.88369	5.4121	19.19414	5.76313	7.06169
10:34:43				517	10.21198	0.9384778	5.4121	16.89866	5.95849	7.54015
10:34:44				518	10.29377	0.9392802	5.4121	12.16117	6.44689	7.53018
10:34:44				519	10.37072	0.9267462	5.4121	12.01465	5.81197	7.40642
10:34:45				520	10.37072	0.9204803	5.4121	16.60562	5.76313	7.35253
10:34:45				521	10.30728	0.9527772	5.4121	15.9707	5.95849	7.64393
10:34:46				522	10.25051	0.9452259	5.4121	20.02442	5.47009	7.59052
10:34:46				523	10.23218	0.9436193	5.5105	21.19658	4.93284	7.58043
10:34:47				524	10.24186	0.9449037	5.4121	15.77534	4.73748	7.58953
10:34:47				525	10.20813	0.9479572	5.5105	6.25153	4.1514	7.62299

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:48				526	10.18209	0.9468336	5.5105	3.27228	3.85836	7.61871
10:34:48				527	10.15899	0.9484402	5.5105	2.39316	3.663	7.63748
10:34:49				528	10.12715	0.9476369	5.5105	1.4652	3.85836	7.63719
10:34:49				529	10.13395	0.9511707	5.5105	1.4652	3.61416	7.66643
10:34:50				530	10.11848	0.956475	5.5105	1.4652	3.56532	7.71577
10:34:50				531	10.08379	0.9519753	5.5105	1.4652	3.4188	7.68401
10:34:51				532	10.07511	0.9453865	5.5105	1.4652	3.1746	7.62858
10:34:51				533	10.09631	0.9559928	5.5105	1.4652	3.36996	7.71628
10:34:52				534	10.07318	0.9542253	5.5105	1.4652	3.56532	7.70582
10:34:52				535	10.05769	0.9482802	5.5105	1.4652	3.27228	7.65739
10:34:53				536	10.05962	0.9510105	5.5105	1.4652	3.1746	7.68073
10:34:53				537	10.06444	0.9567967	5.5105	1.4652	3.12576	7.73005
10:34:54				538	10.05673	0.9588858	5.5105	1.4652	3.4188	7.74987
10:34:54				539	10.06541	0.9490818	5.5105	1.4652	3.32112	7.66274
10:34:55				540	10.06444	0.9513314	5.5105	1.51404	3.22344	7.6825
10:34:55				541	10.05962	1.0037252	5.5105	1.4652	3.56532	8.14038
10:34:56				542	10.11173	0.9833127	5.6089	1.51404	3.80952	7.9507
10:34:56				543	10.14358	0.9715803	5.6089	1.51404	3.71184	7.84167
10:34:57				544	10.11655	0.983473	5.5105	1.4652	3.61416	7.95106
10:34:57				545	10.12618	1.0000279	5.5105	1.51404	3.56532	8.09323
10:34:58				546	10.33033	0.9897397	5.5105	1.4652	3.61416	7.95881
10:34:58				547	10.41683	0.9826686	5.6089	1.4652	3.61416	7.87886
10:34:59				548	10.31689	0.9857217	5.4121	3.12576	3.51648	7.92693
10:34:59				549	10.3409	0.9955257	5.5105	1.4652	3.46764	8.00664
10:35:00				550	10.34858	0.9850799	5.5105	1.4652	3.27228	7.91448
10:35:00				551	10.23603	0.9719013	5.5105	1.4652	3.32112	7.82458
10:35:01				552	10.12817	0.9630623	5.5105	1.51404	3.27228	7.77095
10:35:01				553	10.12426	0.9680445	5.5105	1.4652	3.4188	7.8151
10:35:02	10:33:38 start transect	5.0	270	554	10.15128	0.9698128	5.5105	1.4652	3.4188	7.82466
10:35:02				555	10.15225	0.9710974	5.5105	1.51404	3.36996	7.83562
10:35:03				556	10.12618	0.9757581	5.5105	1.41636	3.22344	7.88179
10:35:03				557	10.1561	0.9775273	5.5105	1.4652	3.27228	7.89069
10:35:04				558	10.11366	0.9775275	5.5105	1.4652	3.32112	7.89991
10:35:04				559	10.10017	0.9815439	5.5105	1.41636	3.51648	7.93783
10:35:05				560	10.10884	0.9765617	5.5105	1.4652	3.36996	7.89254
10:35:05				561	10.11366	0.9815438	5.5105	1.4652	3.4188	7.93488
10:35:06				562	10.13973	0.9805807	5.5105	1.4652	3.27228	7.92081
10:35:06				563	10.22833	0.9792934	5.5105	1.4652	3.22344	7.89038
10:35:07				564	10.28896	0.9789731	5.5105	1.4652	3.32112	7.87449
10:35:07				565	10.32073	0.9780088	5.5105	1.4652	3.32112	7.85929
10:35:08				566	10.3505	0.97142	5.5105	7.17949	3.51648	7.7959
10:35:08				567	10.32265	0.9725438	5.6089	6.83761	3.32112	7.81156
10:35:09				568	10.30055	0.9694913	5.5105	6.15385	3.32112	7.78988
10:35:09				569	10.26878	0.9755978	5.5105	1.90476	3.1746	7.84959
10:35:10				570	10.22833	0.9717417	5.5105	1.90476	3.1746	7.82485
10:35:10				571	10.22737	0.9672411	5.5105	1.4652	3.1746	7.78602

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:11				572	10.18408	0.9735085	5.5105	1.4652	3.02808	7.84971
10:35:11				573	10.15225	0.9781693	5.5105	1.4652	3.12576	7.89711
10:35:12				574	10.17343	0.9698127	5.5105	1.4652	3.02808	7.8199
10:35:12				575	10.15802	0.964509	5.5105	1.4652	3.02808	7.77713
10:35:13				576	10.14551	0.9643478	5.5105	1.51404	3.12576	7.77841
10:35:13				577	10.14358	0.9633846	5.4121	1.4652	2.97924	7.77047
10:35:14				578	10.13973	0.9665978	5.5105	1.51404	2.97924	7.7992
10:35:14				579	10.14358	0.9762418	5.5105	1.51404	2.97924	7.88223
10:35:15				580	10.15802	0.9694917	5.5105	1.4652	3.1746	7.82042
10:35:15				581	10.15225	0.9649907	5.4121	1.4652	2.97924	7.78257
10:35:16				582	10.1484	0.9641886	5.5105	1.4652	2.97924	7.77641
10:35:16				583	10.14069	0.9638662	5.5105	1.4652	3.07692	7.77526
10:35:17				584	10.15321	0.9635458	5.5105	1.4652	3.07692	7.7698
10:35:17				585	10.16091	0.9614552	5.5105	1.4652	3.12576	7.75
10:35:18				586	10.14454	0.9608131	5.5105	1.4652	3.02808	7.74791
10:35:18				587	10.1378	0.9593663	5.6089	1.4652	2.78388	7.73677
10:35:19				588	10.13299	0.9580811	5.5105	1.4652	3.12576	7.72664
10:35:19				589	10.11655	0.9584029	5.5105	1.4652	2.83272	7.73293
10:35:20				590	10.12137	0.9608131	5.5105	1.4652	3.22344	7.75285
10:35:20				591	10.11559	0.9561535	5.5105	1.4652	3.07692	7.71359
10:35:21				592	10.09535	0.958403	5.5105	1.41636	3.22344	7.73744
10:35:21				593	10.11751	0.9567966	5.5105	1.4652	3.36996	7.71877
10:35:22				594	10.12137	0.9551892	5.5105	1.4652	3.27228	7.70398
10:35:22				595	10.1021	0.9556713	5.5105	1.41636	3.12576	7.71226
10:35:23				596	10.10595	0.9545465	5.5105	1.4652	2.9304	7.70167
10:35:23				597	10.10113	0.9543859	5.5105	1.4652	3.12576	7.70129
10:35:24				598	10.09342	0.9532616	5.5105	1.41636	3.1746	7.69315
10:35:24				599	10.09728	0.9527779	5.5105	1.4652	3.07692	7.68813
10:35:25				600	10.0915	0.9526173	5.5105	1.4652	3.1746	7.68796
10:35:25				601	10.08379	0.9510104	5.6089	1.41636	3.02808	7.67561
10:35:26				602	10.05962	0.9522964	5.5105	1.4652	3.1746	7.69192
10:35:26				603	10.07023	0.95085	5.5105	1.4652	3.07692	7.67709
10:35:27				604	10.06155	0.9518149	5.5105	1.41636	2.9304	7.68732
10:35:28				607	10.02014	0.9498898	5.5105	1.41636	3.46764	7.67933
10:35:29				608	10.03847	0.9511751	5.5105	1.4652	3.51648	7.68664
10:35:29				609	10.05968	0.9498896	5.5105	1.4652	3.07692	7.67097
10:35:30				610	10.05968	0.9482823	5.5105	1.4652	3.1746	7.65699
10:35:30				611	10.04715	0.9498897	5.6089	1.4652	3.02808	7.67361
10:35:31				612	10.04908	0.9494086	5.5105	1.51404	3.07692	7.66903
10:35:31				613	10.02496	0.9494086	5.5105	1.4652	3.32112	7.67412
10:35:32				614	10.02593	0.9502105	5.5105	1.51404	3.07692	7.6809
10:35:32				615	10.04233	0.9505333	5.5105	1.51404	3.32112	7.68024
10:35:33				616	10.051	0.9486049	5.5105	1.4652	3.1746	7.66163
10:35:33				617	10.0404	0.9487652	5.5105	1.51404	3.27228	7.66526
10:35:34				618	10.03654	0.9498897	5.5105	1.51404	3.32112	7.67586
10:35:34				619	10.05486	0.9494086	5.5105	1.4652	3.32112	7.6678

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:35				620	10.05968	0.9495689	5.6089	1.51404	3.27228	7.66817
10:35:35				621	10.05968	0.95005	5.5105	1.51404	3.02808	7.67236
10:35:36				622	10.06746	0.9497292	5.5105	1.4652	3.07692	7.66793
10:35:36				623	10.06842	0.9495689	5.5105	1.51404	3.12576	7.66634
10:35:37				624	10.06547	0.9497292	5.5105	1.51404	3.07692	7.66835
10:35:37				625	10.06643	0.9503708	5.5105	1.4652	3.02808	7.67373
10:35:38				626	10.06746	0.955997	5.5105	1.4652	3.12576	7.72245
10:35:38				627	10.07228	0.9603343	5.5105	1.4652	2.97924	7.75916
10:35:39				628	10.11757	0.9609783	5.5105	1.4652	3.22344	7.75509
10:35:39				629	10.12823	0.9629052	5.5105	1.4652	3.12576	7.76957
10:35:40				630	10.13594	0.9661199	5.5105	1.4652	3.02808	7.79586
10:35:40				631	10.14075	0.9667633	5.5105	1.4652	2.83272	7.80042
10:35:41				632	10.15905	0.9719057	5.5105	1.4652	2.88156	7.84118
10:35:41				633	10.17541	0.9688517	5.5105	1.4652	2.88156	7.81113
10:35:42				634	10.15808	0.9682099	5.5105	1.51404	2.83272	7.80927
10:35:42				635	10.14942	0.9686903	5.5105	1.4652	2.88156	7.81531
10:35:43				636	10.16097	0.9712631	5.5105	1.4652	2.88156	7.83518
10:35:43				637	10.16097	0.9723866	5.5105	1.4652	2.73504	7.84495
10:35:44				638	10.13979	0.9730295	5.5105	1.4652	2.78388	7.85511
10:35:44				639	10.11179	0.9731914	5.5105	1.4652	2.78388	7.86256
10:35:45				640	10.13497	0.9730295	5.5105	1.51404	2.73504	7.85615
10:35:45				641	10.1446	0.9746372	5.5105	1.51404	2.83272	7.86805
10:35:46				642	10.09927	0.9810654	5.5105	1.51404	2.88156	7.93386
10:35:46				643	10.04425	0.9752809	5.5105	1.51404	3.02808	7.89541
10:35:47				644	10.10119	0.9747992	5.5105	1.4652	2.97924	7.87886
10:35:47				645	10.11179	0.9765658	5.6089	1.4652	2.97924	7.89193
10:35:48				646	10.06065	0.9759223	5.5105	1.4652	2.97924	7.89744
10:35:48				647	10.04522	0.9756026	5.5105	1.4652	3.12576	7.89801
10:35:49				648	10.05872	0.9747994	5.6089	1.4652	3.1746	7.88806
10:35:49				649	10.06842	0.9743159	5.5105	1.4652	2.9304	7.88175
10:35:50				650	10.0539	0.9733513	5.6089	1.41636	2.73504	7.87648
10:35:50				651	10.08192	0.9733512	5.5105	1.4652	3.27228	7.87042
10:35:51				652	10.07228	0.9725486	5.5105	1.4652	3.12576	7.86552
10:35:51				653	10.05776	0.9672457	5.5105	1.4652	3.02808	7.82245
10:35:52				654	10.06746	0.9672457	5.5105	1.51404	2.88156	7.82036
10:35:52				655	10.0645	0.969173	5.5105	1.51404	2.97924	7.83779
10:35:53				656	10.06643	0.9659588	5.5105	1.4652	3.22344	7.80938
10:35:53				657	10.06643	0.9627463	5.5105	1.51404	3.46764	7.7814
10:35:54				658	10.03847	0.9632278	5.5105	1.51404	3.36996	7.79159
10:35:54				659	10.01236	0.9646748	5.6089	1.4652	3.12576	7.8098
10:35:55				660	10.03557	0.9592097	5.5105	1.51404	3.27228	7.75721
10:35:55				661	10.01435	0.9603345	5.5105	1.4652	3.4188	7.77155
10:35:56				662	9.98244	0.9609787	5.5105	1.4652	3.46764	7.78401
10:35:56				663	9.95824	0.9595319	5.5105	1.4652	3.85836	7.77657
10:35:57				664	9.95728	0.9555151	5.5105	1.4652	3.56532	7.74172
10:35:57				665	9.96313	0.9551937	5.5105	1.4652	3.56532	7.73767

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:58				666	9.96023	0.9553544	5.5105	1.4652	3.4188	7.73969
10:35:58				667	9.95245	0.95921	5.5105	1.4652	3.1746	7.775
10:35:59				668	9.94858	0.9604957	5.5105	1.4652	3.1746	7.78706
10:35:59				669	9.94858	0.9587273	5.5105	1.51404	3.4188	7.77162
10:36:00				670	9.94955	0.9624244	5.5105	1.51404	3.4188	7.80369
10:36:00				671	9.9283	0.9645138	5.5105	1.51404	3.4188	7.82653
10:36:01				672	9.92057	0.9643525	5.5105	1.51404	3.46764	7.82679
10:36:01				673	9.91767	0.9669233	5.5105	1.51404	3.46764	7.8499
10:36:02				674	9.92057	0.9637097	5.5105	1.4652	3.46764	7.82117
10:36:02				675	9.94086	0.9666026	5.5105	1.4652	3.46764	7.84207
10:36:03				676	9.93313	0.9714234	5.5105	1.4652	3.85836	7.88589
10:36:03				677	9.91381	0.970781	5.5105	1.4652	3.61416	7.88448
10:36:04				678	9.92057	0.969014	5.5105	1.41636	3.46764	7.86755
10:36:04				679	9.93023	0.970781	5.5105	1.4652	3.61416	7.88091
10:36:05				680	9.92154	0.9723874	5.5105	1.4652	3.663	7.89685
10:36:05				681	9.90118	0.9709427	5.5105	1.4652	3.663	7.88864
10:36:06				682	9.90312	0.9649956	5.5105	1.51404	3.56532	7.83619
10:36:06				683	9.91381	0.9675669	5.5105	1.51404	3.46764	7.85636
10:36:07				684	9.91574	0.970781	5.5105	1.4652	3.56532	7.88406
10:36:07				685	9.92927	0.9706194	5.5105	1.51404	3.61416	7.8797
10:36:08				686	9.9312	0.9677283	5.5105	1.4652	3.46764	7.854
10:36:08				687	9.92733	0.9685315	5.5105	1.4652	3.51648	7.86186
10:36:09				688	9.92347	0.9702982	5.4121	1.4652	3.663	7.87817
10:36:09				689	9.91381	0.9694945	5.5105	1.4652	3.61416	7.87322
10:36:10				690	9.90408	0.9670848	5.5105	1.51404	3.61416	7.85425
10:36:10				691	9.90215	0.9680493	5.5105	1.4652	3.61416	7.86311
10:36:11				692	9.90897	0.9648343	5.5105	1.4652	3.61416	7.83351
10:36:11				693	9.9196	0.9641913	5.5105	1.51404	3.61416	7.82559
10:36:12				694	9.9225	0.9611379	5.5105	1.51404	3.46764	7.79828
10:36:12				695	9.9254	0.9616211	5.5105	1.51404	3.4188	7.80187
10:36:13				696	9.9341	0.9588882	5.5105	1.4652	3.56532	7.77613
10:36:13				697	9.92733	0.9627468	5.5105	1.4652	3.76068	7.8113
10:36:14				698	9.92444	0.9611379	5.5105	1.4652	3.51648	7.79786
10:36:14				699	9.93893	0.963067	5.5105	1.4652	3.663	7.8116
10:36:15				700	9.95245	0.9686909	5.5105	1.41636	3.85836	7.85781
10:36:15				701	9.93216	0.9677283	5.5105	1.51404	3.46764	7.85379
10:36:16	10:34:52 end transect	5.0	90	702	9.91767	0.9669233	5.5105	1.51404	3.56532	7.8499
10:36:16				703	9.91381	0.9629059	5.5105	1.4652	3.46764	7.8156
10:36:17				704	9.92057	0.9701387	5.5105	1.51404	3.76068	7.87739
10:36:17				705	9.92637	0.973192	5.5105	1.51404	3.71184	7.90284
10:36:18				706	9.92154	0.9699771	5.5105	1.4652	3.4188	7.87577
10:36:18				707	9.9312	0.9709426	5.4121	1.4652	3.51648	7.88212
10:36:19				708	9.93506	0.9746379	5.5105	1.4652	3.56532	7.91359
10:36:19				709	9.9254	0.9727088	5.5105	1.4652	3.51648	7.89882
10:36:20				710	9.9283	0.968691	5.5105	1.4652	3.46764	7.86305
10:36:20				711	9.93699	0.9691734	5.5105	1.4652	3.76068	7.86538

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:36:21				712	9.92637	0.9712638	5.6089	1.51404	3.80952	7.88596
10:36:21				713	9.91671	0.9723874	5.5105	1.51404	3.71184	7.8979
10:36:22				714	9.91477	0.973835	5.5105	1.4652	3.71184	7.91099
10:36:22				715	9.91284	0.9768883	5.5105	1.51404	3.56532	7.93814
10:36:23				716	9.90312	0.9767264	5.5105	1.4652	3.56532	7.93885
10:36:23				717	9.89925	0.9765665	5.5105	1.4652	3.4188	7.9383
10:36:24				718	9.89442	0.9762446	5.5105	1.4652	3.51648	7.93654
10:36:24				719	9.89055	0.9754412	5.5105	1.41636	3.9072	7.93035
10:36:25				720	9.89248	0.9741566	5.5105	1.51404	3.56532	7.91868
10:36:25				721	9.90118	0.9701388	5.5105	1.51404	3.46764	7.88161
10:36:26				722	9.90118	0.9672462	5.5105	1.4652	3.4188	7.85629
10:36:26				723	9.90608	0.9629059	5.5105	1.51404	3.51648	7.81727
10:36:27				724	9.91187	0.9640322	5.5105	1.51404	3.663	7.82587
10:36:28				727	9.91429	0.9693555	5.5105	1.4652	3.51648	7.8719
10:36:29				728	9.91042	0.9659797	5.5105	1.4652	3.4188	7.84321
10:36:29				729	9.90849	0.963569	5.5105	1.4652	3.4188	7.82255
10:36:30				730	9.91236	0.9646955	5.6089	1.4652	3.61416	7.83155
10:36:30				731	9.92105	0.9645342	5.7073	1.4652	3.36996	7.82825
10:36:31				732	9.92202	0.9650159	5.5105	1.51404	3.27228	7.83228
10:36:31				733	9.92202	0.9654978	5.5105	1.51404	3.36996	7.83649
10:36:32				734	9.92588	0.966623	5.5105	1.4652	3.61416	7.84549
10:36:32				735	9.92492	0.9672666	5.5105	1.41636	3.61416	7.85133
10:36:33				736	9.92009	0.9724079	5.6089	1.4652	3.80952	7.89733
10:36:33				737	9.90366	0.9817294	5.7073	1.4652	3.61416	7.98253
10:36:34				738	9.88916	1.021751	5.8056	1.4652	3.61416	8.33714
10:36:34				739	9.85913	1.2029771	6.0024	1.51404	3.76068	9.9523
10:36:35				740	9.51256	1.4646647	6.2976	1.51404	3.85836	12.4347
10:36:35				741	9.17104	1.5566158	6.4943	1.4652	4.6398	13.41096
10:36:36				742	9.05064	1.6176645	6.6911	1.51404	4.20024	14.03025
10:36:36				743	8.84447	1.705636	6.9862	1.4652	3.95604	14.94765
10:36:37				744	8.6781	1.7209448	7.0846	1.4652	3.85836	15.16445
10:36:37				745	8.62683	1.7958857	7.2814	1.4652	3.51648	15.90729
10:36:38				746	8.53998	1.7415715	7.3798	1.4652	3.46764	15.42219
10:36:38				747	8.52518	1.7427	7.3798	1.4652	3.27228	15.43952
10:36:39				748	8.51827	1.7580113	7.3798	1.51404	3.36996	15.59021
10:36:39				749	8.53209	1.8171602	7.4781	1.51404	3.32112	16.15567
10:36:40				750	8.49552	1.794757	7.5765	1.51404	3.1746	15.9554
10:36:40				751	8.4817	1.7955627	7.5765	1.4652	3.02808	15.96944
10:36:41				752	8.48367	1.72852	7.5765	1.4652	2.9304	15.32082
10:36:41				753	8.53209	1.6848511	7.5765	1.4652	3.12576	14.87999
10:36:42				754	8.61009	1.7053152	7.4781	1.41636	2.88156	15.04346
10:36:42				755	8.59032	1.7373823	7.5765	1.51404	2.9304	15.35994
10:36:43				756	8.54589	1.7586559	7.5765	1.51404	3.36996	15.58422
10:36:43				757	8.52222	1.7897604	7.5765	1.4652	3.12576	15.89505
10:36:44				758	8.50736	1.7807349	7.5765	1.51404	3.22344	15.81447
10:36:44				759	8.50933	1.7233628	7.5765	1.4652	3.02808	15.26003

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:36:45				760	8.55477	1.6767935	7.4781	1.4652	2.97924	14.79318
10:36:45				761	8.57258	1.7800891	7.4781	1.4652	3.12576	15.77915
10:36:46				762	8.56075	1.7813802	7.4781	1.4652	3.1746	15.79688
10:36:46				763	8.53998	1.7633286	7.5765	1.4652	3.4188	15.63189
10:36:47				764	8.53406	1.7718696	7.5765	1.51404	3.02808	15.71693
10:36:47				765	8.55378	1.7572048	7.5765	1.4652	3.07692	15.56675
10:36:48				766	8.56469	1.7428611	7.5765	1.51404	3.12576	15.4238
10:36:48				767	8.57258	1.7475344	7.4781	1.4652	3.07692	15.46538
10:36:49				768	8.57258	1.7357698	7.5765	1.4652	3.12576	15.35212
10:36:49				769	8.57159	1.734965	7.5765	1.4652	3.12576	15.3448
10:36:50				770	8.56962	1.7206221	7.5765	1.41636	3.61416	15.20771
10:36:50				771	8.57159	1.7178835	7.5765	1.51404	3.4188	15.18054
10:36:51				772	8.55871	1.7462459	7.5765	1.51404	3.51648	15.459
10:36:51				773	8.5637	1.7277136	7.5765	1.4652	3.07692	15.27845
10:36:52				774	8.54589	1.7264235	7.5765	1.4652	3.07692	15.27373
10:36:52				775	8.54787	1.7349652	7.5765	1.4652	3.56532	15.35509
10:36:53	10:35:29 start transect	5.0	90	776	8.54293	1.7220737	7.5765	1.4652	3.61416	15.23315
10:36:53				777	8.54589	1.6970969	7.5765	1.4652	3.46764	14.99177
10:36:54				778	8.5637	1.6224999	7.4781	1.4652	3.27228	14.26976
10:36:54				779	8.60615	1.6183127	7.4781	1.4652	3.4188	14.21272
10:36:55				780	8.66431	1.5812629	7.4781	1.51404	3.51648	13.83693
10:36:55				781	8.70276	1.5674117	7.3798	1.51404	3.71184	13.69054
10:36:56				782	8.71161	1.5179671	7.3798	1.51404	3.663	13.21912
10:36:56				783	8.74413	1.4989647	7.3798	1.41636	3.663	13.02773
10:36:57				784	8.7746	1.5012199	7.4781	1.4652	3.85836	13.03779
10:36:57				785	8.76772	1.4743287	7.4781	1.4652	4.54212	12.78713
10:36:58				786	8.78744	1.4856001	7.4781	1.4652	4.49328	12.88604
10:36:58				787	8.78449	1.5113636	7.4781	1.51404	4.49328	13.12974
10:36:59				788	8.76772	1.480448	7.4781	1.51404	4.3956	12.8447
10:36:59				789	8.77663	1.4851154	7.4781	1.4652	4.29792	12.8854
10:37:00				790	8.7746	1.5023456	7.4781	1.4652	4.54212	13.0484
10:37:00				791	8.74905	1.4896253	7.4781	1.4652	4.29792	12.93789
10:37:01				792	8.73626	1.4839902	7.5765	1.4652	4.1514	12.88943
10:37:01				793	8.75101	1.4864045	7.5765	1.4652	4.20024	12.90682
10:37:02				794	8.76969	1.481251	7.4781	1.4652	4.00488	12.85155
10:37:02				795	8.78351	1.4920408	7.4781	1.51404	4.20024	12.94808
10:37:03				796	8.76183	1.4947781	7.5765	1.51404	4.29792	12.98175
10:37:03				797	8.75691	1.4912355	7.4781	1.4652	4.1514	12.95019
10:37:04				798	8.76281	1.4976762	7.4781	1.4652	4.20024	13.00872
10:37:04				799	8.73725	1.498642	7.4781	1.41636	4.20024	13.02719
10:37:05				800	8.72243	1.4933301	7.4781	1.4652	4.20024	12.98253
10:37:05				801	8.73233	1.479964	7.4781	1.4652	4.44444	12.85295
10:37:06				802	8.752	1.4765813	7.4781	1.4652	4.34676	12.81399
10:37:06				803	8.75396	1.4930076	7.4781	1.51404	4.24908	12.96797
10:37:07				804	8.74118	1.4777093	7.4781	1.51404	4.24908	12.82851
10:37:07				805	8.74413	1.4488891	7.4781	1.4652	4.1514	12.55638

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:08				806	8.75396	1.4429307	7.4781	1.4652	4.20024	12.49694
10:37:08				807	8.75986	1.4614476	7.4781	1.4652	4.44444	12.66882
10:37:09				808	8.75691	1.493491	7.4781	1.4652	4.54212	12.97144
10:37:09				809	8.7244	1.4282816	7.4781	1.51404	4.29792	12.36976
10:37:10				810	8.7402	1.427797	7.4781	1.4652	4.29792	12.35971
10:37:10				811	8.73233	1.4487276	7.4781	1.51404	4.29792	12.55903
10:37:11				812	8.71948	1.453879	7.4781	1.4652	4.54212	12.61202
10:37:11				813	8.71653	1.4120224	7.4781	1.4652	4.73748	12.21992
10:37:12				814	8.72637	1.3981767	7.4781	1.4652	4.6398	12.08678
10:37:12				815	8.71555	1.4276365	7.4781	1.4652	4.59096	12.36679
10:37:13				816	8.70571	1.3936701	7.4781	1.4652	4.49328	12.05158
10:37:13				817	8.70965	1.4231283	7.4781	1.51404	4.884	12.32651
10:37:14				818	8.69981	1.4401937	7.4781	1.51404	4.49328	12.49028
10:37:14				819	8.68794	1.4332719	7.4781	1.51404	4.54212	12.42938
10:37:15				820	8.67711	1.4521089	7.4781	1.4652	4.34676	12.61042
10:37:15				821	8.67317	1.4516261	7.4781	1.4652	4.3956	12.60728
10:37:16				822	8.66825	1.4751333	7.4781	1.4652	4.49328	12.8306
10:37:16				823	8.66333	1.4496929	7.4781	1.4652	4.20024	12.59257
10:37:17				824	8.65742	1.4511434	7.4781	1.51404	4.24908	12.60833
10:37:17				825	8.64856	1.462896	7.4781	1.51404	4.54212	12.72227
10:37:18				826	8.63865	1.4443814	7.5765	1.4652	4.54212	12.55127
10:37:18				827	8.64259	1.4113781	7.4781	1.4652	4.54212	12.23936
10:37:19				828	8.66727	1.4324674	7.4781	1.4652	4.6398	12.42906
10:37:19				829	8.68203	1.4479222	7.4781	1.4652	4.44444	12.56926
10:37:20				830	8.68302	1.402363	7.4781	1.4652	4.54212	12.14082
10:37:20				831	8.71751	1.3534304	7.4781	1.4652	4.59096	11.67123
10:37:21				832	8.75986	1.3611548	7.4781	1.51404	4.6398	11.72939
10:37:21				833	8.752	1.4704636	7.4781	1.51404	4.6398	12.75642
10:37:22				834	8.73528	1.3753182	7.5765	1.4652	4.83516	11.86984
10:37:22				835	8.7786	1.3671092	7.4781	1.4652	4.49328	11.77876
10:37:23				836	8.82189	1.352141	7.4781	1.4652	4.884	11.62499
10:37:23				837	8.83171	1.4025219	7.5765	1.4652	4.6398	12.09157
10:37:24				838	8.80021	1.3395875	7.5765	1.4652	4.93284	11.51516
10:37:24				839	8.82483	1.3980145	7.4781	1.4652	4.98168	12.05182
10:37:25				840	8.82189	1.4337541	7.4781	1.51404	4.73748	12.38711
10:37:25				841	8.80513	1.2723209	7.5765	1.4652	4.6398	10.88915
10:37:26				842	8.87398	1.2990321	7.4781	1.4652	4.3956	11.11521
10:37:26				843	8.92603	1.2721599	7.4781	1.4652	4.83516	10.85075
10:37:27				844	8.93486	1.3640523	7.5765	1.4652	5.07937	11.69873
10:37:28				847	8.94374	1.3087047	7.4781	1.4652	4.93284	11.18288
10:37:29				848	8.94668	1.2927729	7.5765	1.51404	4.98168	11.03469
10:37:29				849	8.95256	1.206534	7.5765	1.4652	5.22589	10.23909
10:37:30				850	8.98986	1.2213356	7.4781	1.4652	4.884	10.36412
10:37:30				851	9.0477	1.1693769	7.4781	1.4652	4.68864	9.87241
10:37:31				852	9.0663	1.2403187	7.4781	1.4652	5.03053	10.51586
10:37:31				853	9.05847	1.1833709	7.5765	1.4652	4.93284	9.99709

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:32				854	9.07217	1.1759712	7.4781	1.51404	4.83516	9.92577
10:37:32				855	9.09375	1.1660006	7.4781	1.4652	4.78632	9.82894
10:37:33				856	9.12413	1.1563495	7.4781	1.4652	4.78632	9.7328
10:37:33				857	9.14172	1.1550635	7.5765	1.41636	4.93284	9.71631
10:37:34				858	9.15443	1.147826	7.4781	1.4652	4.93284	9.64716
10:37:34				859	9.1838	1.1413929	7.4781	1.51404	4.884	9.5809
10:37:35				860	9.2092	1.1412301	7.4781	1.41636	4.68864	9.57263
10:37:35				861	9.21512	1.1372106	7.5765	1.51404	4.54212	9.53464
10:37:36				862	9.23269	1.1343151	7.5765	1.51404	4.59096	9.50376
10:37:36				863	9.25221	1.1396228	7.4781	1.4652	4.98168	9.5466
10:37:37				864	9.24635	1.1376936	7.5765	1.4652	4.884	9.53069
10:37:37				865	9.23464	1.1328673	7.5765	1.41636	4.78632	9.49014
10:37:38				866	9.25221	1.1315824	7.4781	1.4652	4.884	9.47389
10:37:38				867	9.27276	1.1301337	7.4781	1.4652	4.68864	9.45537
10:37:39				868	9.27764	1.1294917	7.4781	1.4652	4.6398	9.44828
10:37:39				869	9.27081	1.1267569	7.5765	1.51404	4.49328	9.42536
10:37:40				870	9.27666	1.1272385	7.5765	1.4652	4.49328	9.42817
10:37:40				871	9.27471	1.1261135	7.4781	1.4652	4.6398	9.41854
10:37:41				872	9.27764	1.1256321	7.4781	1.51404	4.44444	9.41342
10:37:41				873	9.28349	1.1203249	7.4781	1.41636	4.44444	9.36398
10:37:42				874	9.30397	1.1237009	7.5765	1.4652	4.49328	9.38907
10:37:42				875	9.29909	1.1237009	7.4781	1.51404	4.54212	9.39036
10:37:43				876	9.29032	1.1228964	7.4781	1.4652	4.49328	9.3854
10:37:43				877	9.30007	1.1228964	7.5765	1.51404	4.54212	9.38284
10:37:44				878	9.28837	1.1230582	7.5765	1.51404	4.68864	9.38736
10:37:44				879	9.29324	1.1188772	7.5765	1.4652	4.49328	9.34836
10:37:45				880	9.30299	1.1198422	7.5765	1.4652	4.49328	9.35452
10:37:45				881	9.30598	1.1198422	7.4781	1.4652	4.3956	9.35376
10:37:46				882	9.31378	1.1190387	7.4781	1.4652	4.54212	9.34448
10:37:46				883	9.31281	1.1169481	7.5765	1.51404	4.20024	9.32587
10:37:47				884	9.34302	1.1109964	7.5765	1.51404	4.20024	9.26443
10:37:47				885	9.39277	1.1023135	7.5765	1.4652	4.3956	9.17357
10:37:48				886	9.42204	1.0981333	7.4781	1.4652	4.34676	9.1286
10:37:48				887	9.43469	1.08125	7.4781	1.4652	4.29792	8.97407
10:37:49				888	9.534	1.0634031	7.5765	1.51404	4.24908	8.79004
10:37:49				889	9.66428	1.0518268	7.4781	1.4652	4.00488	8.65554
10:37:50				890	9.72638	1.0420212	7.4781	1.51404	3.663	8.55381
10:37:50				891	9.76326	1.039609	7.5765	1.51404	3.85836	8.52374
10:37:51				892	9.80495	1.0375193	7.5765	1.4652	3.76068	8.49547
10:37:51				893	9.83011	1.0381625	7.5765	1.4652	3.76068	8.49524
10:37:52				894	9.84752	1.0280338	7.5765	4.6398	3.95604	8.40185
10:37:52				895	9.86499	1.0246593	7.4781	3.22344	4.10256	8.3681
10:37:53				896	9.88723	1.0248198	7.5765	2.24664	3.9072	8.36436
10:37:53				897	9.87369	1.0299638	7.5765	2.1978	3.9072	8.41278
10:37:54				898	9.86596	1.0238543	7.5765	2.24664	3.85836	8.36077
10:37:54				899	9.89979	1.0261049	7.5765	5.90965	3.85836	8.37276

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:55				900	9.90855	1.068867	7.5765	2.6862	3.663	8.74758
10:37:55				901	9.83688	1.0537555	7.5765	3.32112	3.9072	8.63131
10:37:56				902	9.78456	1.038804	7.5765	2.88156	3.76068	8.51161
10:37:56				903	9.89399	1.0711191	7.4781	3.85836	3.9072	8.771
10:37:57				904	9.85435	1.1005432	7.5765	5.66545	3.9072	9.04117
10:37:57				905	9.73898	1.0923436	7.5765	1.4652	4.24908	8.99715
10:37:58				906	9.6507	1.1002229	7.5765	1.51404	4.49328	9.08942
10:37:58				907	9.5603	1.0815708	7.5765	2.29548	4.24908	8.94564
10:37:59				908	9.62153	1.0852695	7.5765	2.63736	4.10256	8.96341
10:37:59				909	9.61668	1.1024734	7.5765	2.442	4.00488	9.11809
10:38:00				910	9.52429	1.0762646	7.5765	1.9536	4.20024	8.9072
10:38:00				911	9.59332	1.0802841	7.4781	1.9536	4.20024	8.92599
10:38:01				912	9.58458	1.1105144	7.5765	1.9536	4.20024	9.19808
10:38:01				913	9.49312	1.0888073	7.5765	2.63736	4.29792	9.02708
10:38:02				914	9.45713	1.0902534	7.5765	2.63736	4.29792	9.04907
10:38:02				915	9.46588	1.0923446	7.5765	1.4652	4.34676	9.0656
10:38:03				916	9.47756	1.1074602	7.5765	1.4652	4.20024	9.19809
10:38:03				917	9.50873	1.0775516	7.5765	1.4652	4.05372	8.92255
10:38:04				918	9.49701	1.0802844	7.5765	1.4652	3.95604	8.94989
10:38:04				919	9.50873	1.1077798	7.4781	1.51404	4.10256	9.193
10:38:05				920	9.47172	1.1119627	7.5765	1.51404	4.20024	9.23996
10:38:05				921	9.44442	1.0928272	7.5765	1.4652	4.20024	9.07534
10:38:06				922	9.46491	1.1042437	7.5765	1.51404	4.49328	9.17248
10:38:06				923	9.4581	1.1227363	7.5765	1.4652	4.3956	9.34019
10:38:07				924	9.42398	1.1052084	7.5765	1.4652	4.49328	9.19159
10:38:07				925	9.42398	1.1245051	7.4781	1.4652	4.10256	9.36498
10:38:08				926	9.39569	1.127238	7.5765	1.4652	4.29792	9.39694
10:38:08				927	9.34107	1.1220942	7.5765	1.51404	4.3956	9.36489
10:38:09				928	9.33523	1.1187156	7.5765	1.4652	4.05372	9.33597
10:38:09				929	9.33328	1.116948	7.5765	1.4652	4.44444	9.32055
10:38:10				930	9.33523	1.1204841	7.5765	1.4652	4.44444	9.3519
10:38:10				931	9.3362	1.1262752	7.5765	1.4652	4.3956	9.40385
10:38:11				932	9.32353	1.124184	7.5765	1.51404	4.73748	9.38831
10:38:11				933	9.31476	1.1264351	7.5765	1.51404	4.49328	9.41091
10:38:12				934	9.32548	1.1783843	7.5765	1.4652	4.3956	9.87761
10:38:12				935	9.26203	1.3751739	7.8717	1.4652	4.73748	11.69445
10:38:13				936	9.19845	1.2449838	8.0684	1.4652	4.73748	10.51959
10:38:13				937	9.16524	1.3478114	8.0684	1.4652	4.24908	11.47359
10:38:14	10:36:50 end transect	5.0	270	938	9.09473	1.4386013	8.1668	1.4652	4.44444	12.33758
10:38:14				939	8.89164	1.436349	8.2652	1.4652	4.44444	12.38696
10:38:15				940	8.80715	1.5819268	8.3636	1.51404	4.34676	13.78747
10:38:15				941	8.76975	1.5972296	8.3636	1.4652	4.20024	13.94705
10:38:16				942	8.71161	1.7056573	8.462	1.51404	4.24908	15.00351
10:38:16				943	8.62782	1.6025456	8.5604	1.4652	4.00488	14.05353
10:38:17				944	8.60713	1.6365363	8.462	1.41636	3.76068	14.38607
10:38:17				945	8.61501	1.7027565	8.5604	1.4652	3.76068	15.01658

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:18				946	8.61107	1.637986	8.5604	1.51404	3.71184	14.3983
10:38:18				947	8.68997	1.6992109	8.5604	1.4652	3.663	14.95095
10:38:19				948	8.71856	1.7382074	8.5604	1.51404	3.663	15.31217
10:38:19				949	8.61895	1.6913156	8.5604	1.4652	3.76068	14.90524
10:38:20				950	8.5775	1.6563536	8.5604	1.4652	3.32112	14.58766
10:38:20				951	8.63281	1.6711761	8.462	1.4652	3.61416	14.70666
10:38:21				952	8.58243	1.7182271	8.462	1.4652	3.61416	15.17899
10:38:21				953	8.55483	1.7599663	8.462	1.51404	3.51648	15.5927
10:38:22				954	8.53307	1.7789847	8.5604	1.51404	3.46764	15.78584
10:38:22				955	8.5044	1.7654459	8.5604	1.51404	3.4188	15.66783
10:38:23				956	8.48466	1.8500685	8.462	1.4652	3.71184	16.49641
10:38:23				957	8.4372	1.7688309	8.5604	1.4652	3.76068	15.73039
10:38:24				958	8.41442	1.7544871	8.5604	1.4652	3.51648	15.60169
10:38:24				959	8.4293	1.8302422	8.462	1.51404	3.71184	16.32952
10:38:25				960	8.41145	1.7955866	8.462	1.4652	4.00488	16.00123
10:38:25				961	8.41046	1.7794681	8.5604	1.51404	3.61416	15.84536
10:38:26				962	8.41343	1.8461993	8.5604	1.4652	3.51648	16.49202
10:38:26				963	8.39959	1.8458771	8.5604	1.4652	3.76068	16.49534
10:38:27				964	8.37383	1.7947812	8.5604	1.4652	3.9072	16.01044
10:38:28				967	8.37142	1.8424537	8.5604	1.51404	3.85836	16.47517
10:38:29				968	8.35554	1.8592193	8.5604	1.4652	3.61416	16.64603
10:38:29				969	8.35158	1.9290292	8.5604	1.51404	3.56532	17.33025
10:38:30				970	8.31392	1.9606345	8.5604	1.4652	3.56532	17.65894
10:38:30				971	8.26337	1.9395107	8.5604	1.4652	3.22344	17.47662
10:38:31				972	8.22765	1.9419295	8.5604	1.51404	3.07692	17.51814
10:38:31				973	8.22864	2.0498174	8.5604	1.4652	3.56532	18.58213
10:38:32				974	8.15614	2.0085298	8.5604	1.51404	3.46764	18.21148
10:38:32				975	8.13531	1.9864347	8.5604	1.51404	3.32112	18.00367
10:38:33				976	8.14721	1.9949844	8.5604	1.4652	2.97924	18.0821
10:38:33				977	8.181	2.0657856	8.5604	1.4652	2.88156	18.76562
10:38:34				978	8.15515	2.0204645	8.5604	1.4652	3.27228	18.33012
10:38:34				979	8.13729	1.9835342	8.5604	1.4652	2.97924	17.97398
10:38:35				980	8.2108	2.0328813	8.5604	1.51404	2.9304	18.42393
10:38:35				981	8.15515	2.0838533	8.5604	1.51404	3.12576	18.95885
10:38:36				982	8.11441	1.9883722	8.5604	1.51404	2.58852	18.03355
10:38:36				983	8.1234	1.9941781	8.5604	1.4652	2.442	18.08637
10:38:37				984	8.15813	2.0338501	8.5604	1.4652	2.88156	18.46114
10:38:37				985	8.13035	2.0003054	8.5604	1.51404	3.07692	18.14343
10:38:38				986	8.1154	2.0012729	8.5604	1.4652	2.83272	18.16073
10:38:38				987	8.1154	2.0488519	8.5604	1.51404	3.1746	18.63246
10:38:39				988	8.08661	2.0335287	8.5604	1.4652	3.36996	18.49555
10:38:39				989	8.07661	1.9754716	8.5604	1.4652	2.78388	17.92522
10:38:40				990	8.14325	1.9928874	8.462	1.4652	2.83272	18.06343
10:38:40				991	8.15912	2.0588509	8.462	1.4652	3.12576	18.70851
10:38:41				992	8.12042	1.9878884	8.5604	1.4652	2.9304	18.02567
10:38:41				993	8.12042	1.9835343	8.5604	1.51404	2.53968	17.98261

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:42				994	8.12935	1.9736954	8.5604	1.51404	2.73504	17.88078
10:38:42				995	8.13332	1.9683746	8.5604	1.51404	3.1746	17.8262
10:38:43				996	8.13828	1.9712766	8.5604	1.4652	3.07692	17.85234
10:38:43				997	8.17703	1.9672468	8.462	1.4652	2.83272	17.79295
10:38:44				998	8.1929	1.920485	8.462	1.51404	3.02808	17.32446
10:38:44				999	8.18496	1.9146791	8.5604	1.4652	3.36996	17.27124
10:38:45				1000	8.2217	1.9183889	8.5604	1.51404	3.36996	17.28967
10:38:45				1001	8.25248	1.9006532	8.5604	1.51404	3.12576	17.10056
10:38:46				1002	8.29116	1.8874319	8.5604	1.4652	3.9072	16.95234
10:38:46				1003	8.32388	1.8582524	8.5604	1.4652	3.27228	16.65153
10:38:47				1004	8.33872	1.8643788	8.5604	1.4652	3.36996	16.70432
10:38:47				1005	8.34466	1.8667949	8.462	1.51404	3.51648	16.72511
10:38:48				1006	8.34663	1.8545435	8.5604	1.51404	3.46764	16.60462
10:38:48				1007	8.35257	1.9382185	8.5604	1.51404	3.12576	17.41979
10:38:49				1008	8.35059	1.896138	8.5604	1.51404	3.07692	17.00889
10:38:49				1009	8.35356	1.8150505	8.5604	1.4652	2.9304	16.21671
10:38:50				1010	8.3902	1.8521259	8.462	1.51404	3.27228	16.56061
10:38:50				1011	8.36246	2.1303105	8.462	1.4652	3.4188	19.30712
10:38:51				1012	8.26337	2.0199796	8.5604	1.4652	2.83272	18.26906
10:38:51				1013	8.18794	1.9601518	8.5604	1.51404	2.58852	17.71746
10:38:52				1014	8.23359	1.9285469	8.5604	1.51404	2.78388	17.38362
10:38:52				1015	8.21675	2.0288514	8.5604	1.4652	2.83272	18.38097
10:38:53				1016	8.16811	2.0715946	8.462	1.4652	3.02808	18.83018
10:38:53				1017	8.06072	2.0980472	8.5604	1.4652	2.63736	19.15134
10:38:54				1018	7.99699	2.077563	8.462	1.4652	2.49084	18.98168
10:38:54				1019	7.96616	2.1227295	8.5604	1.51404	2.442	19.44996
10:38:55				1020	7.93923	2.1014381	8.5604	1.4652	2.53968	19.25172
10:38:55				1021	7.98407	2.0782073	8.5604	1.51404	2.29548	18.99508
10:38:56	10:37:32 start transect	5.0	270	1022	7.98407	2.1120819	8.462	1.51404	2.1978	19.33355
10:38:56				1023	7.9462	2.1130525	8.5604	1.4652	2.29548	19.36413
10:38:57				1024	7.93028	2.1177293	8.5604	1.4652	2.05128	19.41979
10:38:57				1025	7.9263	2.1290229	8.5604	1.4652	2.29548	19.53519
10:38:58				1026	7.94023	2.1122458	8.5604	1.4652	2.39316	19.35936
10:38:58				1027	7.98605	2.0569164	8.5604	1.51404	2.1978	18.78162
10:38:59				1028	8.07364	2.1264414	8.462	1.4652	2.29548	19.42756
10:38:59				1029	8.02986	2.1172458	8.5604	1.51404	2.24664	19.35988
10:39:00				1030	7.98605	2.1093412	8.5604	1.4652	2.14896	19.30502
10:39:00				1031	7.97213	2.1128888	8.5604	1.4652	2.05128	19.34818
10:39:01				1032	7.96417	2.1291839	8.3636	1.51404	2.05128	19.51576
10:39:01				1033	7.96517	2.1083718	8.462	1.4652	2.05128	19.30686
10:39:02				1034	7.96616	2.130636	8.462	1.51404	2.00244	19.52917
10:39:02				1035	7.95615	2.1406371	8.462	1.51404	2.05128	19.63497
10:39:03				1036	7.93227	2.1212799	8.462	1.51404	1.9536	19.45429
10:39:03				1037	7.91927	2.1790358	8.5604	1.51404	2.05128	20.04134
10:39:04				1038	7.90632	2.1758095	8.5604	1.4652	2.05128	20.0163
10:39:04				1039	7.89836	2.1328934	8.5604	1.4652	2.1978	19.58962

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:05				1040	7.90632	2.1919447	8.5604	1.51404	2.24664	20.17865
10:39:05				1041	7.89836	2.1988821	8.462	1.4652	2.24664	20.25314
10:39:06				1042	7.8874	2.1575792	8.5604	1.51404	2.00244	19.84376
10:39:06				1043	7.92325	2.1769379	8.5604	1.51404	2.05128	20.01797
10:39:07				1044	7.91927	2.1930739	8.5604	1.4652	2.1978	20.18256
10:39:07				1045	7.90732	2.1759723	8.5604	1.4652	2.34432	20.01737
10:39:08				1046	7.90533	2.1782298	8.5604	1.41636	2.14896	20.04121
10:39:08				1047	7.90433	2.158547	8.5604	1.51404	2.29548	19.84389
10:39:09				1048	7.92829	2.180165	8.462	1.4652	2.24664	20.04756
10:39:09				1049	7.93625	2.2067886	8.5604	1.51404	2.34432	20.31078
10:39:10				1050	7.91827	2.1917841	8.5604	1.51404	2.29548	20.17015
10:39:10				1051	7.91628	2.1985606	8.5604	1.4652	2.10012	20.23951
10:39:11				1052	7.91329	2.1800049	8.5604	1.4652	2.05128	20.05451
10:39:11				1053	7.92325	2.199852	8.462	1.4652	1.85592	20.24851
10:39:12				1054	7.93127	2.2416428	8.5604	1.4652	1.85592	20.66488
10:39:12				1055	7.9253	2.2182441	8.5604	1.51404	2.05128	20.43251
10:39:13				1056	7.92026	2.189363	8.5604	1.51404	1.9536	20.14465
10:39:13				1057	7.93525	2.2463242	8.5604	1.4652	1.85592	20.70975
10:39:14				1058	7.93028	2.2150186	8.5604	1.51404	2.00244	20.39712
10:39:14				1059	7.92928	2.2227631	8.462	1.4652	1.90476	20.47575
10:39:15				1060	7.93227	2.2450326	8.5604	1.4652	1.90476	20.69849
10:39:15				1061	7.93426	2.2305105	8.5604	1.4652	1.85592	20.55088
10:39:16				1062	7.93227	2.2376103	8.462	1.4652	1.90476	20.62366
10:39:16				1063	7.93227	2.2493897	8.5604	1.4652	1.90476	20.74244
10:39:17				1064	7.93227	2.230831	8.5604	1.51404	1.85592	20.55528
10:39:17				1065	7.93625	2.2255058	8.5604	1.51404	1.75824	20.49928
10:39:18				1066	7.94123	2.251326	8.5604	1.51404	1.9536	20.75668
10:39:18				1067	7.94521	2.2508418	8.462	1.4652	2.05128	20.74946
10:39:19				1068	7.9472	2.2221171	8.5604	1.4652	1.66056	20.45874
10:39:19				1069	7.95317	2.2250239	8.5604	1.4652	1.66056	20.48453
10:39:20				1070	7.96113	2.2443867	8.5604	1.4652	2.00244	20.67494
10:39:20				1071	7.95615	2.2487433	8.5604	1.51404	1.90476	20.72179
10:39:21				1072	7.95615	2.2450324	8.5604	1.51404	1.80708	20.68438
10:39:21				1073	7.95416	2.1958176	8.5604	1.4652	1.9536	20.19005
10:39:22				1074	7.96417	2.2182438	8.5604	1.4652	1.90476	20.40985
10:39:22				1075	7.96113	2.2395449	8.5604	1.4652	1.9536	20.62614
10:39:23				1076	7.94222	2.2175988	8.5604	1.4652	1.66056	20.41614
10:39:23				1077	7.93824	2.2080793	8.5604	1.4652	1.80708	20.32262
10:39:24				1078	7.94819	2.2401902	8.5604	1.4652	1.90476	20.64026
10:39:24				1079	7.94322	2.2271214	8.5604	1.51404	1.80708	20.51148
10:39:25				1080	7.94322	2.2406762	8.5604	1.51404	2.05128	20.64809
10:39:25				1081	7.93426	2.2343814	8.5604	1.51404	2.24664	20.5899
10:39:26				1082	7.92729	2.2287349	8.5604	1.51404	1.66056	20.53707
10:39:26				1083	7.93127	2.2293787	8.5604	1.41636	1.75824	20.54122
10:39:27				1084	7.93625	2.226016	8.5604	1.4652	1.75824	20.47002
10:39:28				1087	7.93457	2.1975032	8.5604	1.51404	1.85592	20.2183

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:29				1088	7.93656	2.1950823	8.5604	1.51404	1.80708	20.1928
10:39:29				1089	7.93961	2.1994401	8.462	1.4652	1.9536	20.23491
10:39:30				1090	7.93557	2.2031498	8.5604	1.51404	1.9536	20.27455
10:39:30				1091	7.93158	2.1895965	8.5604	1.4652	1.90476	20.14049
10:39:31				1092	7.93258	2.184918	8.5604	1.4652	1.9536	20.09286
10:39:31				1093	7.9406	2.1816906	8.462	1.4652	1.90476	20.05585
10:39:32				1094	7.93457	2.1797548	8.5604	1.4652	1.9536	20.03982
10:39:32				1095	7.92959	2.167168	8.5604	1.4652	2.05128	19.91617
10:39:33				1096	7.9286	2.1252222	8.5604	1.51404	2.29548	19.49581
10:39:33				1097	7.92561	2.1068294	8.5604	1.51404	2.34432	19.31319
10:39:34				1098	7.92661	2.0666634	8.5604	1.51404	2.49084	18.91087
10:39:34				1099	7.93059	2.0482758	8.5604	1.4652	2.73504	18.72511
10:39:35				1100	7.94259	2.0079531	8.5604	1.4652	2.73504	18.31686
10:39:35				1101	7.97244	2.0358544	8.5604	1.51404	2.88156	18.57898
10:39:36				1102	8.0093	2.0194045	8.462	1.4652	3.12576	18.39588
10:39:36				1103	7.99935	1.9871488	8.5604	1.51404	3.36996	18.0806
10:39:37				1104	8.01228	1.9610234	8.5604	1.51404	3.32112	17.8149
10:39:37				1105	8.01228	1.9521539	8.5604	1.4652	3.22344	17.72704
10:39:38				1106	8.01831	2.040693	8.462	1.51404	3.32112	18.60287
10:39:38				1107	8.00631	1.9234519	8.462	1.4652	3.4188	17.44604
10:39:39				1108	8.04414	1.8820151	8.5604	1.4652	3.1746	17.01843
10:39:39				1109	8.11379	1.94006	8.5604	1.4652	3.32112	17.55649
10:39:40				1110	8.11974	1.9099066	8.5604	1.4652	3.4188	17.2563
10:39:40				1111	8.11577	1.8958797	8.462	1.4652	3.56532	17.12017
10:39:41				1112	8.15255	1.8188214	8.462	1.51404	3.46764	16.34644
10:39:41				1113	8.19228	1.8446128	8.5604	1.4652	3.51648	16.58027
10:39:42				1114	8.2191	1.7683713	8.5604	1.51404	3.85836	15.82349
10:39:42				1115	8.22604	1.8515443	8.462	1.51404	3.80952	16.63221
10:39:43				1116	8.22703	1.7983503	8.462	1.4652	3.71184	16.11209
10:39:43				1117	8.22604	1.7337207	8.462	1.51404	3.80952	15.48341
10:39:44				1118	8.2687	1.7369421	8.5604	1.4652	3.46764	15.49591
10:39:44				1119	8.28751	1.7909342	8.5604	1.4652	3.61416	16.01223
10:39:45				1120	8.26771	1.7482256	8.462	1.4652	3.80952	15.60591
10:39:45				1121	8.27167	1.7382329	8.462	1.4652	3.36996	15.50715
10:39:46				1122	8.2945	1.7316241	8.462	1.51404	3.663	15.43302
10:39:46				1123	8.32518	1.7445163	8.5604	1.51404	3.56532	15.5445
10:39:47				1124	8.34107	1.7709486	8.5604	1.4652	3.32112	15.79384
10:39:47				1125	8.33612	1.7682084	8.5604	1.4652	3.4188	15.76945
10:39:48				1126	8.31924	1.7385548	8.462	1.4652	3.56532	15.48935
10:39:48				1127	8.34701	1.7010066	8.5604	1.4652	3.71184	15.11393
10:39:49				1128	8.38563	1.7101926	8.5604	1.4652	3.663	15.18608
10:39:49				1129	8.37772	1.7077755	8.462	1.4652	3.51648	15.16616
10:39:50				1130	8.34997	1.6840874	8.462	1.51404	3.71184	14.9493
10:39:50				1131	8.35492	1.6726473	8.462	1.51404	3.61416	14.83686
10:39:51				1132	8.40243	1.6711975	8.462	1.4652	3.85836	14.80294
10:39:51				1133	8.44794	1.6649145	8.462	1.51404	3.80952	14.72347

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:52				1134	8.45189	1.7022961	8.462	1.4652	4.00488	15.08154
10:39:52				1135	8.44103	1.6766758	8.462	1.51404	3.80952	14.83947
10:39:53				1136	8.44893	1.6823155	8.462	1.51404	3.9072	14.89042
10:39:53				1137	8.46084	1.6879552	8.5604	1.41636	3.71184	14.93964
10:39:54				1138	8.45591	1.6803809	8.462	1.4652	3.51648	14.86887
10:39:54				1139	8.47269	1.6671684	8.5604	1.51404	3.46764	14.7348
10:39:55				1140	8.48552	1.6662032	8.462	1.4652	3.61416	14.7202
10:39:55				1141	8.49644	1.653958	8.462	1.51404	3.9072	14.59815
10:39:56				1142	8.4994	1.6779631	8.5604	1.51404	3.51648	14.82734
10:39:56				1143	8.50927	1.680542	8.5604	1.51404	3.51648	14.84797
10:39:57				1144	8.51519	1.6616897	8.5604	1.51404	3.85836	14.66454
10:39:57				1145	8.51716	1.6671682	8.462	1.4652	3.663	14.7163
10:39:58				1146	8.51322	1.7122851	8.462	1.4652	3.4188	15.15151
10:39:58				1147	8.49342	1.7148651	8.5604	1.4652	4.00488	15.18481
10:39:59				1148	8.47269	1.661208	8.5604	1.41636	3.51648	14.67755
10:39:59				1149	8.4875	1.6779632	8.462	1.4652	3.4188	14.83235
10:40:00				1150	8.50631	1.7084195	8.462	1.51404	3.56532	15.11726
10:40:00				1151	8.4875	1.717444	8.462	1.4652	3.4188	15.21222
10:40:01				1152	8.46973	1.7203428	8.462	1.51404	3.61416	15.24781
10:40:01				1153	8.46479	1.7127707	8.462	1.4652	3.4188	15.17695
10:40:02				1154	8.45189	1.7372657	8.5604	1.4652	3.32112	15.41879
10:40:02				1155	8.43313	1.7636945	8.462	1.4652	3.51648	15.68252
10:40:03				1156	8.40046	1.7677241	8.462	1.41636	3.61416	15.73607
10:40:03				1157	8.3797	1.7791689	8.462	1.4652	3.46764	15.85629
10:40:04				1158	8.34107	1.7785239	8.462	1.4652	3.4188	15.8674
10:40:04				1159	8.31528	1.7538641	8.462	1.4652	3.51648	15.63956
10:40:05				1160	8.32914	1.767081	8.462	1.51404	3.22344	15.76166
10:40:05				1161	8.33013	1.7701424	8.5604	1.51404	3.12576	15.79091
10:40:06				1162	8.33514	1.7469339	8.5604	1.51404	3.36996	15.56355
10:40:06				1163	8.34602	1.7543489	8.5604	1.51404	3.1746	15.63062
10:40:07				1164	8.35986	1.764019	8.5604	1.51404	3.32112	15.71822
10:40:07				1165	8.36382	1.7574089	8.5604	1.4652	3.1746	15.65238
10:40:08				1166	8.37377	1.7583771	8.5604	1.4652	3.46764	15.65735
10:40:08				1167	8.39057	1.7604709	8.5604	1.4652	3.36996	15.67018
10:40:09				1168	8.40243	1.7572494	8.5604	1.4652	3.36996	15.63373
10:40:09				1169	8.40935	1.7538636	8.5604	1.51404	3.22344	15.5979
10:40:10				1170	8.40836	1.7559605	8.5604	1.4652	3.32112	15.61863
10:40:10				1171	8.41034	1.7599877	8.5604	1.51404	3.46764	15.65673
10:40:11				1172	8.40836	1.7601496	8.5604	1.51404	3.36996	15.65918
10:40:11				1173	8.4054	1.7541869	8.5604	1.4652	3.27228	15.60277
10:40:12				1174	8.4054	1.7480634	8.5604	1.51404	3.36996	15.54352
10:40:12				1175	8.40738	1.7512856	8.462	1.4652	3.22344	15.57385
10:40:13				1176	8.40441	1.7425832	8.462	1.4652	3.27228	15.49097
10:40:13				1177	8.40145	1.7319477	8.5604	1.51404	3.27228	15.38941
10:40:14				1178	8.40342	1.7161548	8.462	1.41636	3.61416	15.23601
10:40:14				1179	8.41034	1.7119655	8.5604	1.4652	3.56532	15.19256

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:15	10:38:51 end transect	5.0	90	1180	8.41034	1.7093849	8.462	1.51404	3.51648	15.16768
10:40:15				1181	8.42325	1.7158317	8.5604	1.4652	3.46764	15.22432
10:40:16				1182	8.44103	1.7111574	8.5604	1.51404	3.36996	15.17158
10:40:16				1183	8.45288	1.7138967	8.5604	1.51404	3.51648	15.1929
10:40:17				1184	8.45689	1.7161545	8.5604	1.4652	3.27228	15.21294
10:40:17				1185	8.45591	1.7216338	8.5604	1.4652	3.51648	15.2662
10:40:18				1186	8.45591	1.7116426	8.462	1.4652	3.36996	15.16989
10:40:18				1187	8.50335	1.635751	8.2652	1.4652	3.46764	14.42083
10:40:19				1188	8.66124	1.5315337	7.7733	1.4652	3.4188	13.36626
10:40:19				1189	8.82864	1.5421616	7.3798	1.4652	3.51648	13.40371
10:40:20				1190	8.9446	1.3895164	6.9862	1.4652	3.56532	11.93234
10:40:20				1191	9.05841	1.3016384	6.6911	1.51404	3.56532	11.082
10:40:21				1192	9.26386	1.2445149	6.3959	1.4652	3.71184	10.49638
10:40:21				1193	9.35368	1.1803277	6.1008	1.51404	3.85836	9.88766
10:40:22				1194	9.49208	1.1502497	5.7073	7.61905	4.1514	9.57882
10:40:22				1195	9.59423	1.0737047	5.4121	2.78388	4.3956	8.8674
10:40:23				1196	9.67973	1.0249913	5.0186	1.4652	4.05372	8.41435
10:40:23				1197	9.80676	1.0249908	4.7234	1.4652	3.85836	8.38485
10:40:24				1198	9.77869	0.941256	4.4283	1.4652	3.76068	7.65517
10:40:24				1199	9.73214	0.8712046	4.0348	1.4652	3.663	7.05295
10:40:25				1200	9.6564	0.7099819	3.838	1.4652	4.10256	5.67333
10:40:25				1201	9.64573	0.6685722	3.5428	1.51404	5.22589	5.32099
10:40:26				1202	9.60879	0.5668534	3.2477	1.4652	6.64225	4.46405
10:40:26				1203	9.51639	0.5493701	2.8542	1.4652	7.03297	4.32816
10:40:27				1204	9.44241	0.4961324	2.559	1.51404	7.91209	3.88983
10:40:28				1207	9.23043	0.3595963	1.6736	1.4652	10.35409	2.77765
10:40:29				1208	9.17464	0.3187501	1.3784	1.4652	11.08669	2.44777
10:40:29				1209	9.15119	0.3117035	1.1817	1.4652	11.23321	2.39199
10:40:30				1210	9.14142	0.3128249	0.9849	1.4652	12.06349	2.40178
10:40:30				1211	9.13647	0.3197124	0.8865	1.4652	12.01465	2.45823
10:40:31				1212	9.13946	0.3160285	0.8865	1.4652	12.06349	2.428
10:40:31				1213	9.13158	0.3168291	0.8865	1.51404	11.67277	2.43506
10:40:32				1214	9.13849	0.3192319	0.9849	1.4652	11.91697	2.45417
10:40:32				1215	9.14924	0.1324556	0.7881	1.4652	11.52625	0.97023
10:40:33				1216	9.16683	0.0712178	0.5914	1.41636	29.89011	0.50708
10:40:33				1217	9.18252	0.2228494	0.5914	0	0	1.67575
10:40:34				1218	9.18545	0.3275599	0.5914	0	0	2.51887
10:40:34				1219	9.19522	0.0685011	0.5914	0	0	0.48658
10:40:35				1220	9.20401	0.0547553	0.5914	0	0	0.38546
10:40:35				1221	9.21475	0.0518787	0.5914	0	0	0.36437
10:40:36				1222	9.22061	0.0459653	0.493	0	0	0.32138
10:40:36				1223	9.22848	0.046924	0.5914	0	0	0.32825
10:40:37				1224	9.24605	0.0378152	0.5914	0	0	0.26248
10:40:37				1225	9.25093	0.0341397	0.5914	0	0	0.23617
10:40:38				1226	9.27044	0.0322229	0.5914	0	0	0.22241
10:40:38				1227	9.28318	0.0274288	0.6898	0	0	0.1884

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:39	10:39:24 switch off			1228	9.30756	0.027909	0.5914	0	0	0.19167
10:44:50	10:43:25 switch on	2.5	90	7	9.22	0.3604192	1.3784	0	0	2.78522
10:44:51				8	9.21512	0.3591378	1.3784	0	0	2.77508
10:44:51				9	9.21609	0.3599376	1.3784	0	0	2.78157
10:44:52				10	9.21316	0.3562529	1.3784	0	0	2.75156
10:44:52				11	9.21609	0.3544905	1.3784	0	0	2.73688
10:44:53				12	9.21512	0.3559337	1.3784	0	0	2.74879
10:44:53				13	9.21512	0.3549719	1.3784	0	0	2.7409
10:44:54				14	9.21609	0.3567333	1.3784	0	0	2.75527
10:44:54				15	9.21804	0.354811	1.3784	0	0	2.73936
10:44:55				16	9.22976	0.3552924	1.5752	0	0	2.7424
10:44:55				17	9.23074	0.3673076	1.2801	0	0	2.84097
10:44:56				18	9.23757	0.3740363	1.2801	0	0	2.89576
10:44:56				19	9.22976	0.3645846	1.2801	0	0	2.81867
10:44:57				20	9.22878	0.3695509	1.2801	0	0	2.85957
10:44:57				21	9.22585	0.3698714	1.2801	0	0	2.86243
10:44:58				22	9.22878	0.3682695	1.3784	0	0	2.84903
10:44:58				23	9.23074	0.3729157	1.3784	0	0	2.88708
10:44:59				24	9.23074	0.37612	1.3784	0	0	2.91346
10:44:59				25	9.23269	0.3714734	1.3784	0	0	2.87506
10:45:00				26	9.23854	0.3724348	1.3784	0	0	2.8825
10:45:00				27	9.23757	0.3788433	1.3784	0	0	2.93533
10:45:01				28	9.24153	0.3772414	1.3784	0	0	2.92181
10:45:01				29	9.24446	0.3801257	1.3784	0	0	2.94533
10:45:02				30	9.24641	0.3860544	1.3784	0	0	2.99403
10:45:02				31	9.24739	0.3783636	1.4768	0	0	2.93057
10:45:03				32	9.24837	0.3850923	1.3784	0	0	2.98594
10:45:03				33	9.24837	0.3850923	1.3784	0	0	2.98594
10:45:04				34	9.24349	0.3769209	1.3784	0	0	2.91902
10:45:04				35	9.23854	0.3833309	1.2801	0	0	2.97223
10:45:05				36	9.24349	0.3828498	1.3784	0	0	2.96786
10:45:05				37	9.24251	0.3782033	1.3784	0	0	2.92966
10:45:06				38	9.24349	0.3796456	1.3784	0	0	2.94145
10:45:06				39	9.24251	0.3815683	1.3784	0	0	2.95737
10:45:07				40	9.24349	0.3796456	1.3784	0	0	2.94145
10:45:07				41	9.24251	0.3783636	1.4768	0	0	2.93097
10:45:08				42	9.24446	0.3798046	1.4768	0	0	2.94268
10:45:08				43	9.23952	0.3807665	1.3784	0	0	2.95101
10:45:09				44	9.2405	0.3794851	1.2801	0	0	2.94038
10:45:09				45	9.2405	0.3783636	1.4768	0	0	2.93114
10:45:10				46	9.2405	0.3799651	1.3784	0	0	2.94433
10:45:10				47	9.24251	0.3809272	1.4768	0	0	2.95209
10:45:11				48	9.24349	0.3782033	1.3784	0	0	2.92958
10:45:11				49	9.24251	0.3782033	1.4768	0	0	2.92965
10:45:12				50	9.24544	0.3806059	1.3784	0	0	2.9492

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:12				51	9.24641	0.3793246	1.4768	0	0	2.93857
10:45:13				52	9.24641	0.3777222	1.4768	0	0	2.92537
10:45:13				53	9.24641	0.3801257	1.4768	0	0	2.94516
10:45:14				54	9.24641	0.3801257	1.3784	0	0	2.94517
10:45:14				55	9.24349	0.3782033	1.3784	0	0	2.92958
10:45:15				56	9.24349	0.3788433	1.4768	0	0	2.93484
10:45:15				57	9.24544	0.3798046	1.3784	0	0	2.9426
10:45:16				58	9.24251	0.3799651	1.4768	0	0	2.94416
10:45:16				59	9.24446	0.3794851	1.4768	0	0	2.94005
10:45:17				60	9.24153	0.3788433	1.3784	0	0	2.93501
10:45:17				61	9.2405	0.3799651	1.4768	0	0	2.94433
10:45:18				62	9.24251	0.378524	1.4768	0	0	2.93229
10:45:18				63	9.24153	0.3788433	1.3784	0	0	2.93501
10:45:19				64	9.24251	0.3802863	1.4768	0	0	2.94681
10:45:19				65	9.24251	0.378524	1.4768	0	0	2.93229
10:45:20				66	9.24446	0.3790037	1.3784	0	0	2.93609
10:45:20				67	9.24446	0.3799651	1.4768	0	0	2.944
10:45:21				68	9.24446	0.3780429	1.4768	0	0	2.92817
10:45:21				69	9.24446	0.3790037	1.4768	0	0	2.93608
10:45:22				70	9.24446	0.3793246	1.4768	0	0	2.93873
10:45:22				71	9.24544	0.3775619	1.4768	0	0	2.92413
10:45:23				72	9.24349	0.3790037	1.4768	0	0	2.93616
10:45:23				73	9.24153	0.3799651	1.3784	0	0	2.94425
10:45:24				74	9.24251	0.3780429	1.3784	0	0	2.92833
10:45:24				75	9.24544	0.3778826	1.4768	0	0	2.92677
10:45:25				76	9.24641	0.3790037	1.4768	0	0	2.93592
10:45:25				77	9.24446	0.3794851	1.4768	0	0	2.94005
10:45:26				78	9.24349	0.3788433	1.3784	0	0	2.93485
10:45:26				79	9.24544	0.3775619	1.4768	0	0	2.92413
10:45:27				80	9.24837	0.3788433	1.4768	0	0	2.93444
10:45:27				81	9.24446	0.3804468	1.4768	0	0	2.94797
10:45:28				82	9.24641	0.378524	1.3784	0	0	2.93198
10:45:28				83	9.24837	0.3774017	1.4768	0	0	2.92257
10:45:29				84	9.24544	0.3793246	1.4768	0	0	2.93865
10:45:29				85	9.24446	0.3810862	1.3784	0	0	2.95324
10:45:30				86	9.24446	0.3799651	1.4768	0	0	2.944
10:45:30				87	9.24739	0.3777222	1.3784	0	0	2.9253
10:45:31				88	9.24934	0.3798046	1.4768	0	0	2.94228
10:45:31				89	9.24641	0.3807665	1.4768	0	0	2.95044
10:45:32				90	9.24837	0.3782033	1.3784	0	0	2.92918
10:45:32				91	9.24934	0.3786829	1.3784	0	0	2.93305
10:45:33				92	9.24446	0.3799651	1.4768	0	0	2.944
10:45:33				93	9.24446	0.3790037	1.4768	0	0	2.93608
10:45:34				94	9.24349	0.3799651	1.3784	0	0	2.94409
10:45:34				95	9.24446	0.3794851	1.5752	0	0	2.94004
10:45:35				96	9.24349	0.3751578	1.4768	0.58608	0.29304	2.9045

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:35				97	9.23562	0.3766005	1.4768	0.39072	0.09768	2.91701
10:45:36				98	9.24349	0.3756396	1.4768	1.4652	0.9768	2.90847
10:45:36				99	9.24153	0.3741978	1.4768	1.4652	0.9768	2.89676
10:45:37				100	9.2405	0.3748378	1.3784	1.41636	10.64713	2.90211
10:45:37				101	9.24349	0.3749978	1.4768	1.51404	10.59829	2.90318
10:45:38				102	9.23757	0.3753194	1.4768	1.4652	10.35409	2.90631
10:45:38				103	9.2405	0.3751578	1.4768	1.4652	10.45177	2.90474
10:45:39				104	9.23854	0.3738764	1.4768	1.51404	11.72161	2.89436
10:45:39				105	9.23659	0.3741978	1.4768	1.51404	11.08669	2.89716
10:45:40				106	9.23562	0.3746778	1.4768	1.41636	11.03785	2.90119
10:45:40				107	9.23659	0.3738764	1.4768	1.41636	10.45177	2.89451
10:45:41				108	9.23952	0.3738764	1.4768	1.4652	10.59829	2.89428
10:45:41				109	9.23562	0.3740364	1.3784	1.51404	10.25641	2.89591
10:45:42				110	9.23757	0.3729157	1.4768	1.4652	10.84249	2.88653
10:45:42				111	9.23757	0.3725945	1.4768	1.4652	11.18437	2.88389
10:45:43				112	9.23366	0.3724348	1.4768	1.4652	11.42857	2.88289
10:45:43				113	9.23269	0.3645846	1.4768	1.51404	10.94017	2.81843
10:45:44				114	9.22195	0.3663464	1.3784	1.4652	10.89133	2.83376
10:45:44				115	9.22097	0.3689101	1.4768	1.51404	10.89133	2.85491
10:45:45				116	9.22195	0.3746778	1.4768	1.4652	10.74481	2.90229
10:45:45				117	9.22293	0.3791642	1.3784	1.4652	11.03785	2.93917
10:45:46				118	9.22878	0.3778826	1.4768	1.4652	11.28205	2.92813
10:45:46				119	9.22878	0.3754795	1.3784	1.4652	10.84249	2.90834
10:45:47				120	9.2239	0.3751578	1.4768	1.4652	11.42857	2.90608
10:45:47				121	9.22195	0.3717943	1.4768	1.4652	11.28205	2.87856
10:45:48				122	9.21707	0.3703515	1.4768	1.4652	10.98901	2.86708
10:45:48				123	9.21316	0.3748378	1.4768	1.4652	10.98901	2.90432
10:45:49				124	9.21512	0.350966	1.3784	1.51404	11.72161	2.70806
10:45:50				127	9.17715	0.3433958	1.3784	1.4652	11.23321	2.64888
10:45:51				128	9.18496	0.3408327	1.4768	1.4652	10.98901	2.62732
10:45:51				129	9.18887	0.3328242	1.3784	1.4652	11.42857	2.56157
10:45:52				130	9.18203	0.3406717	1.3784	1.51404	10.64713	2.62622
10:45:52				131	9.18203	0.3409922	1.4768	1.4652	10.89133	2.62884
10:45:53				132	9.18203	0.3461188	1.3784	1.4652	11.81929	2.67082
10:45:53				133	9.18203	0.3373086	1.4768	1.4652	11.86813	2.5987
10:45:54				134	9.1791	0.3440365	1.3784	1.4652	11.57509	2.65398
10:45:54				135	9.18203	0.3424345	1.4768	1.51404	11.13553	2.64064
10:45:55				136	9.18301	0.3440365	1.4768	1.4652	11.37973	2.65369
10:45:55				137	9.18887	0.3514039	1.4768	1.4652	11.42857	2.71363
10:45:56				138	9.19278	0.3462788	1.4768	1.4652	11.47741	2.67133
10:45:56				139	9.1918	0.3520449	1.3784	1.51404	11.81929	2.71867
10:45:57				140	9.19278	0.355569	1.3784	1.4652	11.18437	2.7475
10:45:57				141	9.19375	0.3518843	1.4768	1.51404	11.33089	2.7172
10:45:58				142	9.18985	0.3539668	1.3784	1.4652	11.33089	2.73458
10:45:58				143	9.18692	0.3541277	1.4768	1.51404	11.18437	2.73612
10:45:59				144	9.18887	0.3611754	1.3784	1.41636	11.18437	2.79385

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:59				145	9.19571	0.362457	1.4768	1.51404	11.18437	2.80384
10:46:00				146	9.19571	0.3618161	1.3784	1.4652	11.33089	2.79858
10:46:00				147	9.19278	0.3611754	1.3784	1.51404	11.08669	2.79355
10:46:01				148	9.19278	0.3584526	1.3784	1.4652	11.37973	2.77118
10:46:01				149	9.19278	0.3557301	1.4768	1.4652	11.52625	2.74882
10:46:02				150	9.1918	0.3554095	1.3784	1.4652	11.13553	2.74627
10:46:02				151	9.19082	0.3594135	1.3784	1.4652	11.37973	2.77922
10:46:03				152	9.18887	0.3589337	1.3784	1.51404	11.52625	2.77543
10:46:03				153	9.19766	0.3571713	1.4768	1.4652	11.33089	2.76028
10:46:04				154	9.19766	0.3520449	1.4768	1.51404	11.08669	2.71822
10:46:04				155	9.18789	0.3496426	1.4768	1.4652	11.33089	2.69926
10:46:05				156	9.18301	0.3462789	1.3784	1.4652	11.37973	2.67206
10:46:05				157	9.17422	0.3421137	1.3784	1.51404	11.77045	2.63859
10:46:06				158	9.17129	0.3465991	1.4768	1.4652	11.33089	2.67555
10:46:06				159	9.17422	0.355089	1.4768	1.4652	11.28205	2.74498
10:46:07				160	9.17519	0.359735	1.3784	1.51404	11.47741	2.78307
10:46:07				161	9.18203	0.3550889	1.4768	1.4652	11.91697	2.74438
10:46:08				162	9.18692	0.3445161	1.3784	1.51404	11.42857	2.65733
10:46:08				163	9.18399	0.3496426	1.3784	1.51404	11.33089	2.69956
10:46:09				164	9.17715	0.3541277	1.3784	1.4652	11.28205	2.73687
10:46:09				165	9.18203	0.350763	1.3784	1.4652	11.23321	2.70889
10:46:10				166	9.18789	0.3619763	1.3784	1.51404	11.18437	2.80051
10:46:10				167	9.19473	0.3558896	1.4768	1.4652	11.23321	2.74998
10:46:11	10:44:47 start transect	2.5	90	168	9.18594	0.3456372	1.3784	1.4652	11.37973	2.66658
10:46:11				169	9.17519	0.3416334	1.4768	1.4652	11.57509	2.63459
10:46:12				170	9.16542	0.3488422	1.4768	1.51404	11.67277	2.69438
10:46:12				171	9.16445	0.3425942	1.4768	1.4652	11.52625	2.64324
10:46:13				172	9.16835	0.3432346	1.3784	1.51404	11.28205	2.6482
10:46:13				173	9.17129	0.3427554	1.4768	1.4652	12.01465	2.64406
10:46:14				174	9.17226	0.3441964	1.4768	1.51404	11.57509	2.65579
10:46:14				175	9.17226	0.3387503	1.4768	1.4652	11.72161	2.6112
10:46:15				176	9.16933	0.3365087	1.3784	1.4652	11.62393	2.59308
10:46:15				177	9.16054	0.3403529	1.4768	1.4652	11.62393	2.62517
10:46:16				178	9.16249	0.3438767	1.3784	1.51404	11.52625	2.6539
10:46:16				179	9.1664	0.3472396	1.4768	1.4652	11.47741	2.68117
10:46:17				180	9.17422	0.3478804	1.4768	1.4652	11.57509	2.68584
10:46:17				181	9.18106	0.3499635	1.5752	1.41636	11.42857	2.7024
10:46:18				182	9.18301	0.34756	1.4768	1.4652	11.37973	2.68255
10:46:18				183	9.1791	0.3422749	1.4768	1.4652	11.33089	2.63955
10:46:19				184	9.17422	0.3414738	1.4768	1.51404	11.72161	2.63335
10:46:19				185	9.16835	0.3435556	1.4768	1.4652	11.57509	2.65083
10:46:20				186	9.17226	0.3393905	1.4768	1.4652	11.42857	2.61644
10:46:20				187	9.16738	0.3368283	1.3784	1.4652	12.11233	2.59584
10:46:21				188	9.16151	0.3339455	1.4768	1.4652	12.64957	2.57268
10:46:21				189	9.16249	0.3344264	1.4768	1.4652	11.77045	2.57654
10:46:22				190	9.16054	0.3345867	1.4768	1.4652	11.67277	2.57799

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:22				191	9.15852	0.332504	1.4768	1.51404	11.57509	2.56111
10:46:23				192	9.15956	0.3355474	1.4768	1.51404	11.37973	2.58592
10:46:23				193	9.15852	0.3347455	1.4768	1.51404	11.37973	2.57944
10:46:24				194	9.15754	0.3368283	1.3784	1.51404	11.96581	2.59655
10:46:24				195	9.16054	0.3345867	1.4768	1.51404	12.30769	2.57799
10:46:25				196	9.15754	0.3301016	1.4768	1.4652	11.03785	2.54155
10:46:25				197	9.15754	0.3342661	1.3784	1.4652	11.42857	2.57559
10:46:26				198	9.15956	0.3397107	1.4768	1.4652	11.23321	2.61999
10:46:26				199	9.16347	0.3413128	1.4768	1.4652	11.03785	2.63282
10:46:27				200	9.16933	0.3403528	1.4768	1.4652	11.52625	2.62453
10:46:27				201	9.1664	0.3408327	1.4768	1.4652	11.37973	2.62867
10:46:28				202	9.16835	0.3433958	1.3784	1.4652	11.72161	2.64953
10:46:28				203	9.16933	0.3433958	1.4768	1.4652	11.67277	2.64945
10:46:29				204	9.17031	0.3413128	1.4768	1.4652	11.91697	2.63232
10:46:29				205	9.16738	0.3414739	1.4768	1.4652	11.33089	2.63385
10:46:30				206	9.1664	0.335387	1.3784	1.4652	11.77045	2.58412
10:46:30				207	9.1664	0.3344264	1.4768	1.4652	12.50305	2.57626
10:46:31				208	9.16151	0.337148	1.4768	1.4652	12.40537	2.59887
10:46:31				209	9.16054	0.3256168	1.3784	1.4652	11.72161	2.50472
10:46:32				210	9.15266	0.3156868	1.4768	1.4652	11.57509	2.4243
10:46:32				211	9.14875	0.3182493	1.4768	1.4652	12.69841	2.44545
10:46:33				212	9.14288	0.3228942	1.4768	1.4652	12.50305	2.48373
10:46:33				213	9.14484	0.3257777	1.4768	1.4652	12.35653	2.50713
10:46:34				214	9.14679	0.3238547	1.4768	1.51404	11.91697	2.49129
10:46:34				215	9.14679	0.3212928	1.4768	1.4652	11.72161	2.47039
10:46:35				216	9.14777	0.320012	1.4768	1.51404	11.37973	2.45988
10:46:35				217	9.14288	0.3115236	1.3784	1.51404	11.42857	2.39107
10:46:36				218	9.1292	0.3092823	1.4768	1.51404	12.01465	2.37374
10:46:36				219	9.12822	0.3152077	1.4768	1.4652	12.11233	2.42205
10:46:37				220	9.12822	0.312484	1.2801	1.51404	12.21001	2.39987
10:46:37				221	9.12529	0.3027159	1.3784	1.4652	11.86813	2.3206
10:46:38				222	9.11649	0.2995143	1.4768	1.4652	11.67277	2.29516
10:46:38				223	9.1086	0.2985524	1.3784	1.4652	12.25885	2.28786
10:46:39				224	9.10274	0.2953501	1.3784	1.4652	12.01465	2.26223
10:46:39				225	9.09882	0.2967912	1.4768	1.51404	12.25885	2.27417
10:46:40				226	9.10078	0.2961507	1.3784	1.51404	12.25885	2.26885
10:46:40				227	9.10078	0.2963112	1.4768	1.51404	12.21001	2.27015
10:46:41				228	9.10274	0.2969518	1.4768	1.4652	12.30769	2.27523
10:46:41				229	9.0998	0.2964717	1.4768	1.4652	12.01465	2.27152
10:46:42				230	9.10176	0.2975927	1.4768	1.41636	12.06349	2.28049
10:46:42				231	9.10567	0.3004739	1.3784	1.4652	12.55189	2.30365
10:46:43				232	9.10958	0.2998346	1.3784	1.4652	12.35653	2.29821
10:46:43				233	9.10958	0.2995143	1.4768	1.51404	12.06349	2.2956
10:46:44				234	9.10665	0.2985524	1.3784	1.4652	12.11233	2.28798
10:46:44				235	9.10371	0.2990333	1.3784	1.4652	12.69841	2.29207
10:46:45				236	9.10567	0.2995143	1.3784	1.4652	12.50305	2.29586

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:45				237	9.10665	0.2993534	1.4768	1.51404	12.40537	2.29448
10:46:46				238	9.10567	0.2993534	1.3784	1.51404	12.50305	2.29455
10:46:46				239	9.10665	0.299994	1.4768	1.51404	12.45421	2.29969
10:46:47				240	9.10763	0.2993534	1.3784	1.4652	12.35653	2.29442
10:46:47				241	9.10763	0.2987132	1.4768	1.4652	13.08913	2.28922
10:46:48				242	9.1086	0.2983932	1.4768	1.4652	12.06349	2.28656
10:46:48				243	9.10763	0.2988725	1.4768	1.51404	12.16117	2.29051
10:46:49				244	9.10469	0.2985524	1.4768	1.4652	12.06349	2.2881
10:46:50				247	9.10359	0.2955031	1.3784	1.4652	12.60073	2.26342
10:46:51				248	9.10066	0.2948617	1.4768	1.4652	12.45421	2.25839
10:46:51				249	9.09968	0.2950221	1.3784	1.4652	12.21001	2.25976
10:46:52				250	9.10261	0.2927806	1.4768	1.4652	12.30769	2.24139
10:46:52				251	9.09968	0.2937414	1.4768	1.51404	12.45421	2.24937
10:46:53				252	9.09772	0.2924605	1.4768	1.4652	11.96581	2.2391
10:46:53				253	9.10164	0.2934211	1.3784	1.51404	12.64957	2.24665
10:46:54				254	9.10066	0.2934211	1.3784	1.4652	12.21001	2.24671
10:46:54				255	9.10066	0.2935812	1.3784	1.51404	12.64957	2.24801
10:46:55				256	9.10261	0.2929407	1.4768	1.41636	12.35653	2.24269
10:46:55				257	9.10066	0.2943823	1.4768	1.4652	12.21001	2.2545
10:46:56				258	9.10164	0.2937414	1.3784	1.4652	12.06349	2.24925
10:46:56				259	9.10261	0.2929407	1.4768	1.4652	11.67277	2.24269
10:46:57				260	9.09968	0.2988652	1.3784	1.4652	12.01465	2.29097
10:46:57				261	9.10164	0.2967839	1.4768	1.51404	12.89377	2.27394
10:46:58				262	9.10164	0.2935812	1.3784	1.51404	12.69841	2.24795
10:46:58				263	9.09968	0.2948617	1.3784	1.4652	12.01465	2.25846
10:46:59				264	9.10261	0.2945426	1.4768	1.51404	12.16117	2.25568
10:46:59				265	9.10261	0.2940618	1.4768	1.4652	12.11233	2.25178
10:47:00				266	9.10164	0.2951824	1.3784	1.4652	13.23565	2.26094
10:47:00				267	9.10164	0.2956621	1.3784	1.4652	12.45421	2.26483
10:47:01				268	9.10457	0.2958225	1.4768	1.4652	12.74725	2.26595
10:47:01				269	9.10653	0.2966234	1.4768	1.4652	12.06349	2.27232
10:47:02				270	9.10457	0.2964629	1.3784	1.51404	11.86813	2.27115
10:47:02				271	9.10848	0.2971036	1.3784	1.51404	12.16117	2.2761
10:47:03				272	9.1075	0.2987044	1.3784	1.4652	12.69841	2.28916
10:47:03				273	9.11044	0.3003056	1.3784	1.51404	11.62393	2.30198
10:47:04				274	9.10946	0.3004665	1.3784	1.4652	11.37973	2.30335
10:47:04				275	9.10946	0.3011076	1.3784	1.4652	12.55189	2.30856
10:47:05				276	9.10946	0.2996664	1.2801	1.4652	11.86813	2.29685
10:47:05				277	9.11044	0.2959829	1.2801	1.4652	12.25885	2.26688
10:47:06				278	9.1075	0.2963039	1.2801	1.51404	13.13797	2.26967
10:47:06				279	9.1075	0.2947014	1.3784	1.51404	12.01465	2.25667
10:47:07				280	9.10848	0.2935812	1.2801	1.4652	12.21001	2.24752
10:47:07				281	9.10653	0.2940618	1.3784	1.51404	12.45421	2.25154
10:47:08				282	9.10555	0.2956621	1.3784	1.4652	12.11233	2.26459
10:47:08				283	9.10653	0.2995055	1.3784	1.4652	12.40537	2.29573
10:47:09				284	9.10848	0.3004665	1.3784	1.4652	12.16117	2.30341

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:09				285	9.11044	0.2993461	1.2801	1.4652	12.06349	2.29419
10:47:10				286	9.1075	0.3003056	1.2801	1.51404	11.77045	2.30217
10:47:10				287	9.11044	0.3014268	1.3784	1.4652	12.84493	2.31109
10:47:11				288	9.11044	0.2995055	1.3784	1.51404	11.67277	2.29548
10:47:11				289	9.1075	0.3086332	1.3784	1.4652	12.35653	2.36989
10:47:12				290	9.11337	0.30575	1.3784	1.4652	14.94505	2.34604
10:47:12				291	9.11435	0.3019071	1.3784	1.4652	11.37973	2.31474
10:47:13				292	9.11239	0.30559	1.3784	1.4652	11.86813	2.34481
10:47:13				293	9.11533	0.3071916	1.3784	1.51404	12.06349	2.35764
10:47:14				294	9.11728	0.3067109	1.3784	1.51404	11.96581	2.3536
10:47:14				295	9.11435	0.3047898	1.3784	1.4652	11.62393	2.33817
10:47:15				296	9.11826	0.3075121	1.3784	1.41636	12.25885	2.36006
10:47:15				297	9.11826	0.3065507	1.4768	1.4652	12.94261	2.35223
10:47:16				298	9.11728	0.3049498	1.4768	1.4652	11.47741	2.33928
10:47:16				299	9.11826	0.3059101	1.4768	1.51404	12.40537	2.34702
10:47:17	10:45:53 end transect	2.5	270	300	9.11826	0.3083124	1.5752	1.4652	12.84493	2.36656
10:47:17				301	9.12022	0.3067109	1.8703	1.51404	12.45421	2.35339
10:47:18				302	9.11924	0.3065507	1.8703	1.4652	12.06349	2.35215
10:47:18				303	9.11728	0.3078328	1.9687	1.4652	12.55189	2.36271
10:47:19				304	9.11924	0.3099142	2.1655	1.4652	11.96581	2.37951
10:47:19				305	9.12119	0.3097536	2.3623	1.51404	12.30769	2.37807
10:47:20				306	9.12217	0.3137581	2.3623	1.51404	11.91697	2.41061
10:47:20				307	9.12804	0.3129563	2.559	1.4652	13.38217	2.40368
10:47:21				308	9.12902	0.3132767	2.6574	1.4652	12.01465	2.40622
10:47:21				309	9.12999	0.315999	2.6574	1.4652	11.42857	2.42833
10:47:22				310	9.12804	0.315999	2.7558	1.4652	11.37973	2.42846
10:47:22				311	9.12999	0.3155198	2.8542	1.51404	11.77045	2.42442
10:47:23				312	9.12999	0.3211236	3.0509	1.4652	12.16117	2.47011
10:47:23				313	9.13195	0.3193625	3.1493	1.51404	11.81929	2.4556
10:47:24				314	9.12999	0.318722	3.1493	1.4652	11.47741	2.45051
10:47:24				315	9.13097	0.3148781	3.1493	1.4652	11.81929	2.41912
10:47:25				316	9.12999	0.3158393	3.1493	1.4652	12.50305	2.42701
10:47:25				317	9.13097	0.3156795	3.1493	1.51404	12.60073	2.42564
10:47:26				318	9.12902	0.3153586	3.1493	1.4652	12.21001	2.42316
10:47:26				319	9.13097	0.3151989	3.1493	1.4652	11.86813	2.42173
10:47:27				320	9.13097	0.3139176	3.1493	1.4652	12.21001	2.41129
10:47:27				321	9.13293	0.3140772	3.1493	1.4652	12.30769	2.41246
10:47:28				322	9.1339	0.3137581	3.1493	1.51404	12.21001	2.40979
10:47:28				323	9.13293	0.3134376	3.1493	1.51404	12.35653	2.40725
10:47:29				324	9.13097	0.3108749	3.1493	1.51404	12.30769	2.38652
10:47:29				325	9.12706	0.3116756	3.1493	1.4652	12.06349	2.39329
10:47:30				326	9.13195	0.3103945	3.1493	1.4652	11.62393	2.38254
10:47:30				327	9.13195	0.3103945	3.0509	1.4652	12.30769	2.38254
10:47:31				328	9.13097	0.3108749	3.1493	1.51404	12.35653	2.38652
10:47:31				329	9.12608	0.3142382	3.1493	1.4652	11.62393	2.41423
10:47:32				330	9.13195	0.3143978	3.1493	1.51404	11.67277	2.41514

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:32				331	9.13097	0.3147185	3.1493	1.4652	12.25885	2.41781
10:47:33				332	9.13097	0.318562	3.1493	1.4652	12.55189	2.44914
10:47:33				333	9.1339	0.3192023	3.1493	1.51404	12.21001	2.45416
10:47:34				334	9.13488	0.3238473	3.1493	1.4652	12.11233	2.49199
10:47:34				335	9.13586	0.3219255	3.1493	1.51404	12.21001	2.47624
10:47:35				336	9.13684	0.3235261	3.1493	1.4652	11.47741	2.48923
10:47:35				337	9.13977	0.3190422	3.1493	1.4652	12.64957	2.45246
10:47:36				338	9.14374	0.3268892	3.1493	1.4652	12.60073	2.51621
10:47:36				339	9.14172	0.3304139	3.1493	1.4652	11.47741	2.54515
10:47:37				340	9.14667	0.3331356	3.1493	1.51404	11.96581	2.56705
10:47:37				341	9.1496	0.3361788	3.1493	1.41636	12.84493	2.59173
10:47:38				342	9.15351	0.3299329	3.1493	1.51404	11.91697	2.54039
10:47:38				343	9.15351	0.3331356	3.1493	1.51404	11.81929	2.56656
10:47:39	10:46:15 start transect	2.5	270	344	9.15547	0.3259281	3.1493	1.4652	11.86813	2.50754
10:47:39				345	9.15547	0.3222448	3.1493	1.51404	10.94017	2.47749
10:47:40				346	9.15156	0.3236867	3.1493	1.4652	11.96581	2.48952
10:47:40				347	9.14765	0.3273707	3.1493	1.4652	11.96581	2.51987
10:47:41				348	9.14569	0.3219254	3.1493	1.51404	11.57509	2.47556
10:47:41				349	9.14172	0.3184019	3.1493	1.4652	11.37973	2.4471
10:47:42				350	9.14374	0.3195226	3.1493	1.4652	12.11233	2.4561
10:47:42				351	9.14667	0.3219254	3.1493	1.4652	11.28205	2.47549
10:47:43				352	9.14472	0.321765	3.1493	1.4652	11.47741	2.47432
10:47:43				353	9.14569	0.3230459	3.1493	1.51404	11.77045	2.4847
10:47:44				354	9.14667	0.3227263	3.1493	1.4652	11.47741	2.48203
10:47:44				355	9.14472	0.3284908	3.1493	1.4652	12.25885	2.52922
10:47:45				356	9.14569	0.3374603	3.1493	1.4652	11.72161	2.6025
10:47:45				357	9.14765	0.3292923	3.1493	1.4652	11.18437	2.53557
10:47:46				358	9.14667	0.3209647	3.1493	1.51404	11.42857	2.46766
10:47:46				359	9.15351	0.3209647	3.1493	1.51404	11.86813	2.46719
10:47:47				360	9.15645	0.323367	3.1493	1.4652	11.28205	2.48658
10:47:47				361	9.15449	0.3203236	3.1493	1.4652	11.81929	2.46189
10:47:48				362	9.15254	0.3254486	3.1493	1.51404	12.79609	2.50383
10:47:48				363	9.14765	0.3328153	3.1493	1.4652	12.16117	2.56436
10:47:49				364	9.14765	0.3400236	3.1493	1.4652	11.33089	2.62335
10:47:50				367	9.1871	0.3823103	3.1493	1.4652	11.62393	2.96798
10:47:51				368	9.19198	0.3726976	3.1493	1.51404	10.84249	2.88832
10:47:51				369	9.19784	0.4164391	3.1493	1.41636	11.13553	3.24965
10:47:52				370	9.21444	0.422207	3.1493	1.51404	10.35409	3.29606
10:47:52				371	9.23501	0.418362	3.1493	1.51404	10.06105	3.26225
10:47:53				372	9.22518	0.4266948	3.1493	1.4652	10.30525	3.33238
10:47:53				373	9.23013	0.4329452	3.1493	1.51404	10.64713	3.38392
10:47:54				374	9.25257	0.4271747	3.1493	1.4652	11.37973	3.33383
10:47:54				375	9.25355	0.4327841	3.1493	1.4652	10.79365	3.38038
10:47:55				376	9.26331	0.4388748	3.1493	1.4652	10.50061	3.43014
10:47:55				377	9.28288	0.4388748	3.1493	1.51404	10.35409	3.42827
10:47:56				378	9.27501	0.4382331	3.1493	1.4652	10.06105	3.42368

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:56				379	9.26916	0.4451243	3.1493	1.4652	10.59829	3.48163
10:47:57				380	9.29653	0.4409586	3.1493	1.4652	11.47741	3.4443
10:47:57				381	9.30238	0.437913	3.1493	1.51404	9.52381	3.41841
10:47:58				382	9.29263	0.4407983	3.1493	1.41636	9.86569	3.44334
10:47:58				383	9.30141	0.4427208	3.1493	1.4652	10.20757	3.4585
10:47:59				384	9.31019	0.4425604	3.0509	1.51404	9.91453	3.45633
10:47:59				385	9.31019	0.440316	3.1493	1.4652	10.54945	3.43765
10:48:00				386	9.30433	0.4412791	3.1493	1.4652	9.91453	3.44622
10:48:00				387	9.30726	0.4470485	3.1493	1.4652	10.01221	3.49396
10:48:01				388	9.31506	0.4468876	3.1493	1.51404	10.15873	3.49187
10:48:01				389	9.31701	0.4457654	3.1493	1.4652	9.62149	3.48233
10:48:02				390	9.31701	0.4436821	3.1493	1.4652	10.06105	3.465
10:48:02				391	9.31701	0.4464068	3.1493	1.4652	9.47497	3.48767
10:48:03				392	9.31701	0.4464068	3.1493	1.4652	10.20757	3.48767
10:48:03				393	9.31993	0.4448045	3.1493	1.4652	10.06105	3.47406
10:48:04				394	9.31408	0.4449652	3.1493	1.51404	9.76801	3.47596
10:48:04				395	9.30531	0.4481699	3.1493	1.4652	10.06105	3.50349
10:48:05				396	9.29848	0.4464068	3.1493	1.4652	10.06105	3.48947
10:48:05				397	9.29556	0.4478497	3.1493	1.4652	10.15873	3.50177
10:48:06				398	9.29263	0.4491311	3.1493	1.51404	10.69597	3.51274
10:48:06				399	9.29166	0.4460869	3.1493	1.4652	10.20757	3.48747
10:48:07				400	9.28971	0.4464068	3.1493	1.4652	10.06105	3.49032
10:48:07				401	9.28873	0.4464068	3.0509	1.51404	10.54945	3.49042
10:48:08				402	9.28483	0.4460869	3.1493	1.51404	9.57265	3.48813
10:48:08				403	9.28288	0.4457654	3.1493	1.41636	10.10989	3.48564
10:48:09				404	9.28288	0.4457654	3.1493	1.51404	10.06105	3.48564
10:48:09				405	9.27995	0.4457654	3.1493	1.4652	9.96337	3.48593
10:48:10				406	9.278	0.4451243	3.1493	1.51404	10.30525	3.48077
10:48:10				407	9.27898	0.444644	3.1493	1.4652	9.86569	3.47668
10:48:11				408	9.28385	0.4441638	3.1493	1.4652	10.06105	3.47221
10:48:11				409	9.28288	0.444644	3.1493	1.4652	9.91453	3.4763
10:48:12				410	9.28678	0.4441638	3.1493	1.51404	9.91453	3.47192
10:48:12				411	9.28776	0.4449652	3.1493	1.4652	10.35409	3.4785
10:48:13				412	9.28288	0.4435216	3.1493	1.4652	10.79365	3.46695
10:48:13				413	9.28288	0.4440032	3.1493	1.4652	9.91453	3.47096
10:48:14				414	9.2819	0.4436821	3.1493	1.4652	9.91453	3.46838
10:48:14				415	9.28288	0.4428813	3.0509	1.4652	9.96337	3.46163
10:48:15				416	9.28093	0.4401558	3.1493	1.4652	9.86569	3.43912
10:48:15				417	9.28093	0.4409586	3.1493	1.4652	9.62149	3.4458
10:48:16				418	9.28093	0.4407983	3.1493	1.4652	9.62149	3.44447
10:48:16				419	9.28385	0.4383931	3.1493	1.4652	10.06105	3.42417
10:48:17				420	9.28581	0.4371118	3.1493	1.51404	9.81685	3.41333
10:48:17				421	9.28581	0.439195	3.1493	1.4652	10.01221	3.43066
10:48:18				422	9.28483	0.4385531	3.1493	1.41636	9.67033	3.42541
10:48:18				423	9.28678	0.4367904	3.1493	1.51404	10.10989	3.41056
10:48:19				424	9.28678	0.4393551	3.1493	1.51404	9.67033	3.4319

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:19				425	9.28971	0.4396753	3.1493	1.4652	10.10989	3.43428
10:48:20				426	9.28581	0.4390349	3.1493	1.4652	9.91453	3.42932
10:48:20				427	9.28776	0.4369519	3.1493	1.4652	9.86569	3.41181
10:48:21				428	9.28873	0.4375915	3.1493	1.51404	10.45177	3.41704
10:48:21				429	9.28581	0.4398355	3.1493	1.51404	9.76801	3.43599
10:48:22				430	9.2819	0.4385531	3.1493	1.4652	9.71917	3.42569
10:48:22				431	9.28581	0.4387147	3.1493	1.4652	10.25641	3.42666
10:48:23				432	9.28385	0.4406381	3.1493	1.4652	10.01221	3.44285
10:48:23				433	9.28678	0.4415982	3.1493	1.51404	9.47497	3.45056
10:48:24				434	9.28385	0.4401558	3.1493	1.4652	9.67033	3.43884
10:48:24				435	9.28385	0.4419189	3.1493	1.4652	10.15873	3.45351
10:48:25				436	9.28581	0.4417585	3.1493	1.4652	9.67033	3.45199
10:48:25				437	9.28483	0.4412792	3.1493	1.4652	9.96337	3.44809
10:48:26				438	9.28483	0.4401558	3.1493	1.4652	9.86569	3.43875
10:48:26				439	9.28288	0.4412792	3.1493	1.51404	10.30525	3.44828
10:48:27				440	9.28385	0.4407983	3.1493	1.51404	10.50061	3.44419
10:48:27				441	9.28288	0.4401558	3.1493	1.4652	10.06105	3.43893
10:48:28				442	9.2819	0.4412792	3.1493	1.4652	10.15873	3.44838
10:48:28				443	9.28483	0.4422396	3.1493	1.4652	10.01221	3.45609
10:48:29				444	9.28678	0.4399957	3.1493	1.4652	10.10989	3.43723
10:48:29				445	9.28288	0.4399957	3.1493	1.51404	10.25641	3.4376
10:48:30				446	9.28581	0.440316	3.1493	1.4652	9.81685	3.43999
10:48:30				447	9.28581	0.4398355	3.1493	1.4652	9.81685	3.43599
10:48:31				448	9.28581	0.4399957	3.1493	1.4652	9.86569	3.43732
10:48:31				449	9.28581	0.4359896	3.1493	1.4652	10.06105	3.40399
10:48:32				450	9.28288	0.435349	3.1493	1.51404	9.96337	3.39894
10:48:32				451	9.28483	0.4319836	3.0509	1.4652	9.96337	3.37079
10:48:33				452	9.27995	0.432143	3.0509	1.4652	9.81685	3.37257
10:48:33				453	9.27995	0.4313413	3.1493	1.4652	10.40293	3.3659
10:48:34				454	9.278	0.4300606	3.1493	1.51404	9.91453	3.35544
10:48:34				455	9.27697	0.4300606	3.1493	1.4652	10.06105	3.35554
10:48:35				456	9.27111	0.429419	3.1493	1.51404	9.96337	3.35076
10:48:35				457	9.26819	0.4281366	3.1493	1.51404	9.96337	3.34037
10:48:36				458	9.26916	0.4271747	3.1493	1.51404	10.15873	3.33229
10:48:36				459	9.26233	0.4265342	3.1493	1.4652	10.15873	3.3276
10:48:37				460	9.25745	0.4260529	3.1493	1.4652	10.15873	3.32406
10:48:37				461	9.26721	0.4263737	3.1493	1.4652	10.06105	3.32582
10:48:38				462	9.27697	0.4265342	3.2477	1.51404	10.20757	3.32624
10:48:38				463	9.27501	0.4255732	3.1493	1.4652	9.81685	3.31845
10:48:39				464	9.27898	0.4254128	3.1493	1.51404	10.06105	3.31675
10:48:39				465	9.28385	0.425894	3.1493	1.4652	10.20757	3.3203
10:48:40				466	9.28288	0.425894	3.1493	1.41636	10.10989	3.32039
10:48:40				467	9.28288	0.4252524	3.1493	1.4652	9.86569	3.31506
10:48:41				468	9.2819	0.4257336	3.1493	1.51404	9.96337	3.31915
10:48:41				469	9.28483	0.4249318	3.1493	1.51404	10.30525	3.31222
10:48:42				470	9.28581	0.4249317	3.1493	1.4652	10.01221	3.31213

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:42				471	9.28873	0.4246111	3.1493	1.51404	9.91453	3.3092
10:48:43				472	9.28678	0.4249317	3.1493	1.4652	10.15873	3.31204
10:48:43				473	9.28776	0.4246111	3.1493	1.4652	10.01221	3.30929
10:48:44				474	9.28581	0.4246111	3.1493	1.4652	9.86569	3.30947
10:48:44				475	9.28678	0.4228488	3.1493	1.51404	9.81685	3.29476
10:48:45				476	9.28971	0.4234894	3.1493	1.51404	10.06105	3.2998
10:48:45				477	9.28581	0.4233293	3.1493	1.51404	10.40293	3.29883
10:48:46				478	9.27501	0.4231691	3.1493	1.51404	10.25641	3.29849
10:48:46				479	9.27697	0.4239701	3.1493	1.4652	10.10989	3.30496
10:48:47				480	9.28093	0.4241303	3.1493	1.41636	10.06105	3.30593
10:48:47				481	9.278	0.4238099	3.1493	1.4652	10.30525	3.30354
10:48:48				482	9.278	0.4236497	3.1493	1.4652	9.71917	3.30221
10:48:48				483	9.27898	0.4238099	3.1493	1.4652	10.15873	3.30345
10:48:49				484	9.27898	0.4238099	3.1493	1.51404	10.10989	3.30345
10:48:50				487	9.27672	0.4239685	3.1493	1.4652	10.15873	3.30497
10:48:51				488	9.27672	0.4236481	3.1493	1.4652	9.86569	3.30231
10:48:51				489	9.27965	0.4246096	3.1493	1.4652	10.06105	3.31002
10:48:52				490	9.2777	0.4234863	3.1493	1.4652	10.74481	3.30088
10:48:52				491	9.27867	0.4234863	3.2477	1.4652	10.54945	3.30079
10:48:53				492	9.27965	0.4228457	3.2477	1.51404	9.96337	3.29538
10:48:53				493	9.28062	0.4310194	3.3461	1.51404	10.35409	3.36315
10:48:54				494	9.2855	0.4710888	3.5428	1.4652	10.15873	3.69679
10:48:54				495	9.32262	0.4835927	3.6412	1.51404	10.20757	3.79759
10:48:55				496	9.37237	0.487281	3.7396	1.51404	9.91453	3.8232
10:48:55				497	9.40159	0.4917689	3.9364	1.4652	9.27961	3.85763
10:48:56				498	9.41139	0.4938527	4.1331	1.51404	9.03541	3.874
10:48:56				499	9.41334	0.4898458	4.2315	1.51404	8.84005	3.84026
10:48:57	10:47:33 end transect	2.5	90	500	9.41035	0.5018704	4.3299	1.51404	8.74237	3.94125
10:48:57				501	9.40354	0.5714657	4.5267	1.51404	8.88889	4.52852
10:48:58				502	9.41918	0.6115684	4.7234	1.51404	8.69353	4.86711
10:48:58				503	9.4747	0.6937272	4.8218	1.51404	8.54701	5.56206
10:48:59				504	9.50679	0.684899	4.9202	1.4652	8.05861	5.48132
10:48:59				505	9.50776	0.6799237	5.117	1.4652	7.52137	5.43849
10:49:00				506	9.51657	0.7772027	5.2153	1.51404	6.98413	6.27582
10:49:00				507	9.51754	0.9408805	5.2153	1.4652	6.64225	7.70738
10:49:01				508	9.93953	0.8970167	5.3137	1.4652	6.10501	7.23628
10:49:01				509	10.40592	0.9076193	5.4121	1.4652	5.42125	7.23505
10:49:02				510	10.46351	0.9251323	5.4121	58.4127	4.59096	7.37379
10:49:02				511	10.4453	0.9434485	5.4121	61.19658	4.68864	7.53483
10:49:03				512	10.36562	0.94602	5.4121	59.43834	4.6398	7.57345
10:49:03				513	10.27617	0.9235262	5.5105	25.73871	4.44444	7.39785
10:49:04				514	10.21264	0.9169373	5.5105	20.46398	4.1514	7.35386
10:49:04				515	10.15002	0.9203123	5.5105	20.21978	4.34676	7.39571
10:49:05				516	10.11432	0.9111551	5.5105	16.80098	4.34676	7.32372
10:49:05				517	10.11336	0.8791847	5.5105	12.25885	4.20024	7.04779
10:49:06				518	10.08638	0.8652102	5.5105	15.04274	4.29792	6.93252

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:06				519	10.02942	0.9248118	5.5105	15.87302	4.59096	7.45935
10:49:07				520	10.05354	0.8902695	5.5105	22.46642	4.98168	7.1552
10:49:07				521	10.09409	0.8836826	5.5105	22.36874	4.59096	7.09034
10:49:08				522	10.09698	0.8870561	5.5105	15.77534	4.59096	7.1189
10:49:08				523	10.08638	0.8934827	5.5105	16.2149	4.68864	7.1765
10:49:09				524	10.0989	0.9000686	5.5105	16.84982	4.3956	7.23094
10:49:09				525	10.09698	0.9056928	5.5105	17.09402	4.73748	7.27996
10:49:10				526	10.08445	0.9113152	5.5105	21.97802	4.54212	7.33113
10:49:10				527	10.07475	0.9215978	5.6089	15.67766	4.29792	7.42217
10:49:11				528	10.06221	0.9323642	5.5105	13.47985	4.98168	7.51816
10:49:11				529	10.07963	0.9092272	5.5105	6.73993	4.6398	7.31403
10:49:12				530	10.07764	0.8974979	5.5105	15.53114	4.6398	7.21294
10:49:12				531	10.07378	0.9135652	5.5105	13.91941	4.68864	7.35277
10:49:13				532	10.06607	0.9143684	5.5105	16.16606	4.884	7.36129
10:49:13				533	10.07764	0.8963737	5.5105	13.08913	4.884	7.20321
10:49:14				534	10.07378	0.8992659	5.5105	12.45421	4.59096	7.22899
10:49:14				535	10.04389	0.9243291	5.4121	8.44933	4.78632	7.4522
10:49:15				536	10.0246	0.9370233	5.5105	6.25153	4.93284	7.56645
10:49:15				537	9.9685	0.9241685	5.5105	3.02808	4.884	7.46629
10:49:16				538	9.95981	0.9289884	5.5105	1.51404	4.78632	7.51002
10:49:16				539	9.94822	0.9267394	5.5105	1.4652	4.78632	7.49284
10:49:17				540	9.92601	0.9291496	5.5105	1.4652	4.78632	7.51843
10:49:17				541	9.90372	0.930274	5.5105	1.51404	4.83516	7.53285
10:49:18				542	9.88052	0.9228842	5.5105	1.51404	4.884	7.47324
10:49:18				543	9.87085	0.9217591	5.5105	1.4652	4.6398	7.46543
10:49:19	10:47:55 start transect	2.5	90	544	9.86795	0.9142087	5.5105	1.51404	4.6398	7.40022
10:49:19				545	9.87085	0.9172612	5.5105	1.51404	4.884	7.42622
10:49:20				546	9.88052	0.9204737	5.5105	1.4652	5.03053	7.45223
10:49:20				547	9.89985	0.9232057	5.5105	1.51404	4.884	7.47205
10:49:21				548	9.9347	0.9228841	5.4121	1.51404	4.78632	7.46208
10:49:21				549	9.95209	0.9254536	5.5105	1.41636	4.73748	7.48085
10:49:22				550	9.98208	0.9267393	5.5105	6.25153	4.73748	7.48585
10:49:22				551	10.05354	0.9259362	5.5105	7.66789	4.83516	7.46416
10:49:23				552	10.06704	0.9248117	5.5105	11.81929	4.54212	7.45163
10:49:23				553	10.02846	0.9383086	5.5105	18.6569	4.59096	7.57682
10:49:24				554	10.01682	0.931721	5.5105	23.2967	4.78632	7.52197
10:49:24				555	10.01972	0.9267392	5.5105	18.07082	4.34676	7.47809
10:49:25				556	10.00524	0.924651	5.5105	16.84982	4.20024	7.46293
10:49:25				557	9.98884	0.9317211	5.5105	13.96825	4.78632	7.52778
10:49:26				558	9.97146	0.923688	5.5105	14.31013	4.78632	7.4615
10:49:26				559	9.99463	0.9182236	5.5105	11.77045	4.34676	7.40927
10:49:27				560	10.03039	0.9243291	5.5105	10.01221	4.49328	7.45496
10:49:27				561	10.04293	0.9275423	5.5105	10.84249	4.68864	7.48028
10:49:28				562	10.04968	0.9243291	5.5105	10.10989	4.59096	7.451
10:49:28				563	10.06993	0.917421	5.5105	8.84005	4.29792	7.38696
10:49:29				564	10.07282	0.9302735	5.5105	6.73993	4.59096	7.49782

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:29				565	10.01296	0.9228838	5.5105	3.9072	4.44444	7.44599
10:49:30				566	9.98208	0.9233663	5.5105	3.663	4.24908	7.45652
10:49:30				567	10.01007	0.9278645	5.5105	1.7094	4.29792	7.48985
10:49:31				568	9.97049	0.9249728	5.5105	1.51404	4.3956	7.47288
10:49:31				569	9.93567	0.9244903	5.5105	1.51404	4.29792	7.47586
10:49:32				570	9.9318	0.9257756	5.5105	1.51404	4.49328	7.48784
10:49:32				571	9.90759	0.9260976	5.5105	1.51404	4.54212	7.49565
10:49:33				572	9.88245	0.9257757	5.5105	1.51404	4.20024	7.49805
10:49:33				573	9.87279	0.925295	5.5105	1.51404	4.54212	7.49586
10:49:34				574	9.87085	0.9249731	5.3137	1.51404	4.68864	7.49347
10:49:34				575	9.88052	0.9275427	5.5105	1.51404	4.6398	7.51386
10:49:35				576	9.87955	0.9299537	5.5105	3.95604	4.49328	7.53509
10:49:35				577	9.86602	0.9241688	5.5105	1.61172	4.20024	7.48744
10:49:36				578	9.89502	0.9270616	5.4121	1.51404	4.1514	7.50667
10:49:36				579	9.91435	0.9309169	5.4121	1.4652	4.20024	7.53626
10:49:37				580	9.90855	0.9256147	5.5105	6.44689	4.54212	7.49125
10:49:37				581	9.89889	0.9246513	5.5105	1.61172	4.29792	7.48485
10:49:38				582	9.93373	0.9252948	5.5105	1.56288	4.34676	7.48326
10:49:38				583	9.93084	0.9281869	5.5105	1.56288	4.34676	7.50904
10:49:39				584	9.90469	0.9260976	5.5105	5.32357	4.78632	7.49625
10:49:39				585	9.88729	0.9227234	5.5105	3.61416	4.59096	7.47044
10:49:40				586	9.88245	0.9233666	5.5105	2.83272	4.54212	7.47705
10:49:40				587	9.87665	0.9241687	5.5105	5.03053	4.884	7.48524
10:49:41				588	9.86306	0.9264197	5.5105	5.81197	4.83516	7.50768
10:49:41				589	9.92021	0.9233665	5.5105	10.35409	4.59096	7.46926
10:49:42				590	9.94822	0.922884	5.4121	22.95482	4.3956	7.4593
10:49:42				591	9.97436	0.9227232	5.5105	31.89255	4.78632	7.45252
10:49:43				592	9.98208	0.9228839	5.5105	37.21612	4.59096	7.45233
10:49:43				593	10.03425	0.9191886	5.5105	43.46764	4.59096	7.40956
10:49:44				594	10.11336	0.9169376	5.5105	50.40293	5.07937	7.37396
10:49:44				595	10.14328	0.9175812	5.5105	53.33333	4.78632	7.37346
10:49:45				596	10.10661	0.909709	5.5105	54.94505	5.07937	7.31277
10:49:45				597	10.18564	0.9093868	5.5105	53.91941	4.98168	7.29412
10:49:46				598	10.27425	0.9122793	5.5105	55.9707	4.73748	7.30131
10:49:46				599	10.31274	0.915652	5.5105	55.92186	4.6398	7.32263
10:49:47				600	10.31659	0.9142074	5.5105	44.83516	4.78632	7.30943
10:49:47				601	10.37522	0.9272212	5.5105	36.87424	4.78632	7.40958
10:49:48				602	10.45776	0.9127591	5.4121	42.83272	4.73748	7.26883
10:49:48				603	10.47022	0.9124388	5.5105	45.32357	5.03053	7.2636
10:49:49				604	10.41845	0.9068162	5.5105	41.221	4.93284	7.22567
10:49:50				607	10.559	0.8896608	5.5105	41.85592	4.68864	7.05155
10:49:51				608	10.57533	0.8877327	5.5105	37.89988	5.07937	7.03198
10:49:51				609	10.57341	0.8737567	5.5105	35.3602	5.17705	6.91333
10:49:52				610	10.55517	0.8756841	5.5105	33.45543	5.12821	6.93318
10:49:52				611	10.514	0.878095	5.5105	32.47863	4.78632	6.96154
10:49:53				612	10.52357	0.8615482	5.5105	27.15507	5.66545	6.81877

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:53				613	10.48616	0.8597827	5.5105	25.44567	5.51893	6.81071
10:49:54				614	10.35752	0.8586576	5.5105	25.49451	5.27473	6.8251
10:49:54				615	10.27869	0.8665287	5.5105	25.20147	5.03053	6.9073
10:49:55				616	10.3152	0.8395441	5.5105	25.29915	5.07937	6.66962
10:49:55				617	10.29022	0.8432371	5.5105	25.39683	5.42125	6.70576
10:49:56				618	10.20741	0.8533573	5.5105	19.53602	5.51893	6.80777
10:49:56				619	10.1795	0.8552849	5.5105	12.30769	5.37241	6.82954
10:49:57				620	10.23921	0.8591402	5.5105	13.28449	5.66545	6.8514
10:49:57				621	10.3104	0.8666899	5.5105	14.84737	5.76313	6.90268
10:49:58				622	10.31136	0.8779336	5.5105	15.62882	6.25153	6.99886
10:49:58				623	10.30752	0.8715084	5.5105	22.95482	5.56777	6.94451
10:49:59				624	10.30944	0.8739192	5.5105	29.01099	5.61661	6.96481
10:49:59				625	10.32673	0.8752033	5.5105	32.47863	5.76313	6.97251
10:50:00				626	10.37863	0.8713486	5.4121	34.28571	5.71429	6.92964
10:50:00				627	10.42954	0.873276	5.5105	37.65568	5.71429	6.93645
10:50:01				628	10.4574	0.8729546	5.5105	46.05617	5.12821	6.92842
10:50:01				629	10.43242	0.8718293	5.5105	44.54212	5.51893	6.92354
10:50:02				630	10.39405	0.8793796	5.5105	41.12332	5.03053	6.9954
10:50:02				631	10.24787	0.8771319	5.5105	38.14408	5.12821	7.00417
10:50:03				632	10.06475	0.8726344	5.5105	28.22955	4.98168	7.00068
10:50:03				633	10.01646	0.8732772	5.5105	16.7033	5.17705	7.01555
10:50:04				634	10.06282	0.8755257	5.5105	19.09646	5.03053	7.02601
10:50:04				635	10.02804	0.8713496	5.5105	11.62393	5.07937	6.99667
10:50:05				636	10.00778	0.8708671	5.5105	4.29792	4.884	6.9964
10:50:05				637	10.04251	0.8682958	5.5105	3.9072	4.83516	6.96752
10:50:06				638	10.03093	0.8681365	5.5105	12.35653	5.22589	6.96837
10:50:06				639	10.04154	0.8628353	5.5105	13.13797	4.884	6.92059
10:50:07				640	10.11878	0.8613884	5.5105	14.74969	4.98168	6.89345
10:50:07				641	10.12648	0.8723129	5.5105	17.24054	5.17705	6.98604
10:50:08				642	10.07149	0.864601	5.5105	16.55678	4.83516	6.93011
10:50:08				643	10.06475	0.867493	5.5105	14.06593	4.83516	6.95633
10:50:09				644	10.05119	0.8691007	5.5105	14.94505	5.12821	6.9728
10:50:09				645	10.029	0.8674931	5.5105	15.18926	5.12821	6.96318
10:50:10				646	10.02128	0.8676545	5.5105	17.87546	5.07937	6.96606
10:50:10				647	10.02514	0.8686186	5.5105	18.31502	5.17705	6.97364
10:50:11				648	10.04443	0.8684572	5.5105	18.26618	4.83516	6.96854
10:50:11				649	10.05703	0.8708669	5.5105	17.9243	5.03053	6.98692
10:50:12				650	10.04636	0.8674931	5.5105	17.97314	5.03053	6.95985
10:50:12				651	10.07246	0.8660476	5.5105	18.70574	4.884	6.94239
10:50:13				652	10.11005	0.8666905	5.5105	19.48718	5.56777	6.94076
10:50:13				653	10.14093	0.8694213	5.4121	20.90354	5.47009	6.95838
10:50:14				654	10.16404	0.8692598	5.4121	21.29426	5.03053	6.95257
10:50:14				655	10.20549	0.8654044	5.4121	19.53602	5.17705	6.91154
10:50:15				656	10.25075	0.8482179	5.4121	25.49451	5.03053	6.75567
10:50:15				657	10.29695	0.8411495	5.4121	24.66422	5.42125	6.68669
10:50:16				658	10.46507	0.8450043	5.5105	43.32112	5.42125	6.68878

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:16				659	10.47274	0.8416318	5.4121	51.91697	5.51893	6.6587
10:50:17				660	10.4737	0.8554446	5.5105	51.33089	5.47009	6.77607
10:50:17				661	10.55134	0.8504649	5.5105	50.35409	5.22589	6.7194
10:50:18				662	10.54081	0.8458074	5.5105	52.06349	5.22589	6.68177
10:50:18				663	10.53219	0.847413	5.4121	53.18681	5.37241	6.69699
10:50:19				664	10.58681	0.8498221	5.4121	56.60562	5.22589	6.70746
10:50:19				665	10.60786	0.8472528	5.5105	57.4359	5.47009	6.68181
10:50:20				666	10.6213	0.8475747	5.4121	56.50794	5.66545	6.6821
10:50:20				667	10.63947	0.8488591	5.4121	55.62882	5.51893	6.68968
10:50:21				668	10.65381	0.8475746	5.5105	55.77534	5.51893	6.67618
10:50:21				669	10.66241	0.8443605	5.5105	55.2381	5.61661	6.64741
10:50:22				670	10.66241	0.8433978	5.4121	54.45665	5.22589	6.63927
10:50:22				671	10.67483	0.8403466	5.4121	54.74969	5.37241	6.61122
10:50:23				672	10.63851	0.8186637	5.5105	52.79609	5.32357	6.43442
10:50:23				673	10.61933	0.8229997	5.4121	51.13553	5.56777	6.47444
10:50:24				674	10.6002	0.8213946	5.4121	50.45177	5.76313	6.46424
10:50:24				675	10.61072	0.79618	5.4121	50.25641	5.86081	6.24951
10:50:25				676	10.52453	0.8034068	5.5105	47.96093	5.76313	6.32531
10:50:25				677	10.57724	0.8090273	5.5105	48.64469	6.00733	6.3637
10:50:26				678	10.65954	0.7717729	5.5105	48.05861	6.10501	6.03598
10:50:26				679	10.5715	0.7923269	5.4121	44.05372	6.10501	6.22369
10:50:27				680	10.53985	0.8218756	5.4121	46.10501	6.39805	6.47897
10:50:27				681	10.56671	0.7955381	5.4121	47.76557	5.86081	6.2516
10:50:28				682	10.47849	0.805334	5.4121	52.40537	5.86081	6.3496
10:50:28				683	10.45549	0.8654037	5.4121	47.52137	5.90965	6.86436
10:50:29				684	10.49095	0.8448443	5.5105	39.65812	5.61661	6.68269
10:50:29				685	10.47849	0.829104	5.4121	37.50916	5.32357	6.55119
10:50:30				686	10.45261	0.8287825	5.4121	39.2674	5.86081	6.5531
10:50:30				687	10.43625	0.8363303	5.4121	37.8022	5.95849	6.62022
10:50:31				688	10.43913	0.8279789	5.5105	36.23932	5.81197	6.54867
10:50:31				689	10.44782	0.8268542	5.4121	36.0928	5.95849	6.53757
10:50:32				690	10.45261	0.832958	5.4121	38.33944	5.76313	6.58859
10:50:32				691	10.4574	0.8531962	5.4121	41.02564	5.86081	6.75994
10:50:33				692	10.49861	0.8467711	5.5105	43.02808	5.76313	6.69767
10:50:33				693	10.54081	0.8427553	5.4121	45.76313	5.51893	6.65587
10:50:34	10:49:10 end transect	2.5	270	694	10.53028	0.8498222	5.4121	51.42857	5.76313	6.71782
10:50:34				695	10.53028	0.8743998	5.4121	49.91453	5.71429	6.92696
10:50:35				696	10.53507	0.8678143	5.5105	45.71429	5.37241	6.86996
10:50:35				697	10.51783	0.855605	5.5105	44.93284	5.17705	6.76927
10:50:36				698	10.52357	0.8636372	5.4121	42.9304	5.22589	6.83656
10:50:36				699	10.53028	0.8663668	5.6089	43.27228	5.27473	6.85853
10:50:37				700	10.53698	0.8805039	5.4121	42.73504	5.42125	6.97771
10:50:37				701	10.53794	0.9029956	5.5105	42.53968	5.27473	7.16946
10:50:38				702	10.56767	0.9311145	5.7073	41.51404	5.27473	7.404
10:50:38				703	10.55421	0.9404343	5.8056	33.01587	5.17705	7.48656
10:50:39				704	10.23056	0.9455766	6.0024	21.53846	4.83516	7.59764

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:39				705	10.00681	0.9441305	6.1992	10.89133	4.49328	7.63192
10:50:40				706	9.95848	0.9558631	6.2976	1.4652	3.9072	7.74441
10:50:40				707	9.98262	0.9995777	6.3959	1.51404	3.9072	8.12124
10:50:41				708	10.05992	0.9880047	6.5927	1.51404	3.9072	8.00287
10:50:41				709	10.02611	1.0294743	6.6911	1.51404	3.85836	8.3733
10:50:42				710	9.97393	1.1893146	6.9862	3.61416	3.9072	9.79895
10:50:42				711	9.6901	1.1923707	7.0846	1.41636	4.05372	9.90355
10:50:43				712	9.46747	1.1600413	7.183	1.4652	4.05372	9.67333
10:50:43				713	9.46455	1.2625149	7.183	1.51404	3.9072	10.6011
10:50:44				714	9.34656	1.2742606	7.3798	1.4652	4.29792	10.74304
10:50:44				715	9.21475	1.2501274	7.4781	1.51404	4.10256	10.56188
10:50:45				716	9.27337	1.2971105	7.4781	1.51404	4.10256	10.974
10:50:45				717	9.28117	1.2832732	7.4781	1.4652	4.00488	10.84501
10:50:46				718	9.32219	1.2707213	7.5765	1.4652	3.71184	10.71801
10:50:46				719	9.32804	1.2766744	7.4781	1.4652	3.95604	10.7706
10:50:47				720	9.33778	1.2604227	7.4781	1.4652	4.29792	10.61947
10:50:47				721	9.36026	1.2448172	7.4781	1.4652	4.00488	10.47078
10:50:48				722	9.36026	1.2494826	7.4781	1.4652	3.9072	10.51322
10:50:48				723	9.33876	1.2580094	7.4781	1.51404	3.95604	10.59719
10:50:49				724	9.31146	1.2797332	7.4781	1.51404	4.00488	10.80352
10:50:50				727	9.14551	1.2928607	7.4781	1.4652	3.95604	10.97423
10:50:51				728	9.16121	1.2928606	7.4781	1.4652	3.80952	10.96941
10:50:51				729	9.20614	1.3070202	7.4781	1.4652	4.10256	11.08555
10:50:52				730	9.20321	1.3017085	7.4781	1.4652	4.1514	11.03771
10:50:52				731	9.1954	1.3176411	7.4781	1.51404	4.05372	11.18645
10:50:53				732	9.17391	1.3264919	7.4781	1.51404	3.85836	11.27458
10:50:53				733	9.14747	1.3306764	7.4781	1.4652	3.95604	11.32146
10:50:54				734	9.13183	1.3350202	7.4781	1.51404	3.71184	11.36645
10:50:54				735	9.12401	1.3213427	7.4781	1.4652	3.85836	11.24289
10:50:55				736	9.11716	1.3281	7.4781	1.4652	3.85836	11.30731
10:50:55				737	9.11716	1.3636684	7.4781	1.4652	4.05372	11.63559
10:50:56				738	9.11423	1.3789583	7.4781	1.4652	3.9072	11.77794
10:50:56				739	9.09069	1.3659208	7.4781	1.51404	4.05372	11.66504
10:50:57				740	9.07504	1.3680142	7.5765	1.4652	3.71184	11.68951
10:50:57				741	9.0466	1.3765443	7.4781	1.51404	3.80952	11.77788
10:50:58				742	9.01423	1.3836266	7.4781	1.51404	3.9072	11.85429
10:50:58				743	8.99464	1.3878121	7.4781	1.4652	4.20024	11.89968
10:50:59	10:49:35 start transect	2.5	270	744	9.0015	1.4016553	7.4781	1.51404	4.10256	12.02603
10:50:59				745	9.00835	1.3942517	7.4781	1.51404	4.10256	11.95492
10:51:00				746	8.98484	1.3881347	7.4781	1.41636	4.00488	11.90595
10:51:00				747	8.99072	1.3733265	7.4781	1.4652	3.85836	11.76648
10:51:01				748	9.02114	1.3581976	7.4781	1.51404	4.00488	11.61623
10:51:01				749	9.04366	1.3358264	7.4781	1.51404	3.51648	11.40199
10:51:02				750	9.06128	1.3359875	7.4781	1.51404	4.05372	11.39785
10:51:02				751	9.08189	1.3350204	7.4781	1.51404	4.05372	11.38235
10:51:03				752	9.07308	1.328261	7.4781	1.4652	3.95604	11.32276

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:03				753	9.08972	1.2891587	7.4781	1.4652	3.80952	10.95732
10:51:04				754	9.12009	1.2482919	7.4781	1.4652	4.34676	10.57305
10:51:04				755	9.17684	1.2220692	7.4781	1.4652	4.1514	10.31671
10:51:05				756	9.21304	1.2133825	7.4781	1.51404	4.05372	10.2271
10:51:05				757	9.24818	1.1834647	7.4781	1.51404	4.00488	9.94507
10:51:06				758	9.29214	1.1625553	7.4781	1.51404	3.95604	9.7434
10:51:06				759	9.3468	1.1569265	7.4781	1.4652	4.10256	9.67769
10:51:07				760	9.34875	1.1678634	7.4781	1.4652	4.1514	9.77603
10:51:07				761	9.34972	1.1567651	7.4781	1.4652	4.05372	9.67544
10:51:08				762	9.36732	1.1530671	7.4781	1.4652	4.68864	9.63731
10:51:08				763	9.38096	1.1591774	7.4781	1.51404	4.44444	9.68881
10:51:09				764	9.37901	1.150011	7.4781	1.51404	3.95604	9.60659
10:51:09				765	9.40828	1.1459907	7.4781	1.4652	4.05372	9.56253
10:51:10				766	9.39751	1.1591774	7.4781	1.4652	4.20024	9.68434
10:51:10				767	9.36732	1.1524226	7.4781	1.4652	4.00488	9.63149
10:51:11				768	9.37122	1.1453477	7.4781	1.4652	4.00488	9.5666
10:51:11				769	9.42386	1.1540318	7.3798	1.51404	4.1514	9.63086
10:51:12				770	9.40828	1.164163	7.4781	1.4652	4.05372	9.72642
10:51:12				771	9.37414	1.1475991	7.4781	1.51404	4.10256	9.58614
10:51:13				772	9.39167	1.1262102	7.4781	1.4652	4.1514	9.38875
10:51:13				773	9.43651	1.1451868	7.4781	1.51404	4.00488	9.54778
10:51:14				774	9.42094	1.1475989	7.4781	1.51404	4.05372	9.57365
10:51:14				775	9.4151	1.1374677	7.4781	1.4652	3.9072	9.48394
10:51:15				776	9.43846	1.1181704	7.4781	1.4652	3.95604	9.30428
10:51:15				777	9.47549	1.1172058	7.4781	1.51404	4.05372	9.28605
10:51:16				778	9.48619	1.1091642	7.4781	1.51404	4.1514	9.21117
10:51:16				779	9.48424	1.1019298	7.4781	1.51404	4.00488	9.14683
10:51:17				780	9.48035	1.1022511	7.4781	1.51404	3.85836	9.1507
10:51:17				781	9.48716	1.1189734	7.4781	1.4652	3.9072	9.29889
10:51:18				782	9.45403	1.0953369	7.4781	1.4652	4.10256	9.09542
10:51:18				783	9.4716	1.0887455	7.4781	1.4652	4.20024	9.03195
10:51:19				784	9.46284	1.1295861	7.4781	1.51404	4.05372	9.40051
10:51:19				785	9.42873	1.1472772	7.4781	1.51404	4.1514	9.56868
10:51:20				786	9.40433	1.0938908	7.4781	1.51404	4.00488	9.09503
10:51:20				787	9.47938	1.1184911	7.4781	1.51404	3.9072	9.29657
10:51:21				788	9.49883	1.1496885	7.4781	1.4652	4.10256	9.57172
10:51:21				789	9.46771	1.1477596	7.4781	1.51404	4.00488	9.56265
10:51:22				790	9.45111	1.114151	7.4781	1.51404	4.00488	9.26492
10:51:22				791	9.53485	1.1202593	7.4781	1.4652	4.00488	9.2981
10:51:23				792	9.54263	1.1237971	7.4781	1.51404	4.00488	9.32779
10:51:23				793	9.56018	1.1410054	7.4781	1.51404	3.95604	9.4775
10:51:24				794	9.53291	1.1220288	7.4781	1.4652	4.00488	9.31446
10:51:24				795	9.54457	1.0609308	7.4781	1.4652	4.24908	8.76544
10:51:25				796	9.59222	1.0954967	7.4781	1.4652	4.10256	9.06198
10:51:25				797	9.5572	1.1545128	7.4781	1.4652	3.85836	9.59953
10:51:26				798	9.45603	1.1427743	7.4781	1.4652	4.29792	9.52088

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:26				799	9.43846	1.1173652	7.4781	1.4652	4.10256	9.29705
10:51:27				800	9.42678	1.1405222	7.4781	1.51404	4.05372	9.50836
10:51:27				801	9.37609	1.1664151	7.4781	1.4652	4.44444	9.7555
10:51:28				802	9.37511	1.1554788	7.4781	1.51404	3.95604	9.65699
10:51:28				803	9.38583	1.1915053	7.4781	1.51404	4.1514	9.97973
10:51:29				804	9.40536	1.1952046	7.4781	1.41636	4.1514	10.00777
10:51:29				805	9.37511	1.2352606	7.4781	1.51404	4.29792	10.37958
10:51:30				806	9.31756	1.2156338	7.4781	1.51404	4.24908	10.21776
10:51:30				807	9.33608	1.2140258	7.4781	1.4652	4.20024	10.19789
10:51:31				808	9.35855	1.1934351	7.4781	1.51404	4.1514	10.0048
10:51:31				809	9.37317	1.2589095	7.4781	1.51404	4.00488	10.59523
10:51:32				810	9.2619	1.2630927	7.4781	1.4652	4.49328	10.66636
10:51:32				811	9.258	1.2180473	7.4781	1.51404	4.54212	10.25672
10:51:33				812	9.24233	1.2846523	7.4781	1.4652	4.3956	10.8694
10:51:33				813	9.23354	1.2949507	7.4781	1.51404	4.29792	10.96641
10:51:34				814	9.22378	1.2619661	7.4781	1.51404	4.73748	10.66742
10:51:34				815	9.23647	1.2471653	7.4781	1.51404	4.20024	10.52843
10:51:35				816	9.25404	1.2732299	7.4781	1.51404	4.10256	10.76136
10:51:35				817	9.23354	1.3158708	7.4781	1.4652	4.1514	11.15828
10:51:36				818	9.1954	1.2751614	7.4781	1.51404	4.59096	10.79669
10:51:36				819	9.1954	1.27677	7.4781	1.51404	4.20024	10.81143
10:51:37				820	9.19442	1.3355034	7.4781	1.4652	3.9072	11.35102
10:51:37				821	9.1416	1.2864225	7.4781	1.51404	4.24908	10.9163
10:51:38				822	9.19345	1.2585884	7.3798	1.51404	3.95604	10.64557
10:51:38				823	9.21304	1.2832055	7.3798	1.4652	3.95604	10.86506
10:51:39				824	9.1788	1.2915715	7.3798	1.4652	4.24908	10.9522
10:51:39				825	9.14062	1.2933428	7.3798	1.4652	4.3956	10.98017
10:51:40				826	9.11129	1.3364686	7.4781	1.51404	4.10256	11.38634
10:51:40				827	9.09265	1.326653	7.4781	1.51404	4.05372	11.30173
10:51:41				828	9.10048	1.3115266	7.4781	1.51404	4.1514	11.15986
10:51:41				829	9.10048	1.2931815	7.4781	1.4652	4.24908	10.99101
10:51:42				830	9.1083	1.2785406	7.4781	1.41636	4.49328	10.85405
10:51:42				831	9.10048	1.2888361	7.3798	1.51404	4.1514	10.95107
10:51:43				832	9.09558	1.2790229	7.4781	1.51404	4.44444	10.86235
10:51:43				833	9.09461	1.283367	7.4781	1.4652	4.34676	10.90257
10:51:44				834	9.07895	1.2886773	7.4781	1.51404	4.1514	10.95619
10:51:44				835	9.08385	1.2761256	7.4781	1.51404	4.24908	10.83929
10:51:45				836	9.08385	1.2811139	7.4781	1.4652	4.05372	10.88514
10:51:45				837	9.10341	1.2729073	7.4781	1.4652	4.3956	10.8038
10:51:46				838	9.10243	1.2733911	7.4781	1.4652	4.34676	10.80854
10:51:46				839	9.11521	1.2833669	7.4781	1.51404	4.24908	10.89629
10:51:47				840	9.09363	1.2795053	7.4781	1.51404	4.34676	10.86738
10:51:47				841	9.08385	1.2803095	7.3798	1.51404	4.20024	10.87776
10:51:48				842	9.07993	1.2960778	7.4781	1.4652	4.3956	11.02399
10:51:48				843	9.08287	1.2852972	7.3798	1.4652	4.49328	10.92392
10:51:49				844	9.08874	1.3084687	7.4781	1.51404	4.54212	11.13535

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:50				847	9.08855	1.3071874	7.3798	1.51404	3.9072	11.12363
10:51:51				848	9.07877	1.3300376	7.4781	1.4652	4.29792	11.33735
10:51:51				849	9.07192	1.3197381	7.4781	1.4652	4.10256	11.24449
10:51:52				850	9.06997	1.2988194	7.4781	1.4652	4.00488	11.05231
10:51:52				851	9.07877	1.3419476	7.4781	1.4652	4.00488	11.44731
10:51:53				852	9.0729	1.3641584	7.5765	1.51404	3.95604	11.65453
10:51:53				853	9.07094	1.3467744	7.5765	1.51404	3.95604	11.4944
10:51:54				854	9.07192	1.3107266	7.5765	1.51404	3.85836	11.16139
10:51:54				855	9.07779	1.3139444	7.4781	1.51404	4.10256	11.18923
10:51:55				856	9.07486	1.3044506	7.4781	1.4652	4.05372	11.10266
10:51:55				857	9.07877	1.2975326	7.4781	1.51404	4.3956	11.03774
10:51:56				858	9.07877	1.2997854	7.4781	1.51404	4.24908	11.05848
10:51:56				859	9.08464	1.2991406	7.4781	1.4652	4.24908	11.05073
10:51:57				860	9.08855	1.3198985	7.4781	1.51404	4.10256	11.24074
10:51:57				861	9.08366	1.3308422	7.5765	1.4652	3.95604	11.3432
10:51:58				862	9.0729	1.3301985	7.4781	1.4652	4.00488	11.3407
10:51:58				863	9.07779	1.3131413	7.4781	1.4652	4.1514	11.18183
10:51:59				864	9.08171	1.3297157	7.4781	1.4652	3.85836	11.33345
10:51:59				865	9.0729	1.3443613	7.4781	1.51404	3.9072	11.47149
10:52:00				866	9.06997	1.3469361	7.5765	1.51404	4.10256	11.49621
10:52:00				867	9.07192	1.3363145	7.5765	1.4652	3.663	11.39746
10:52:01				868	9.07779	1.3355085	7.4781	1.4652	4.10256	11.38816
10:52:01				869	9.08073	1.3165194	7.4781	1.4652	3.95604	11.21204
10:52:02				870	9.08366	1.3134616	7.4781	1.51404	4.24908	11.18294
10:52:02				871	9.08562	1.3076693	7.4781	1.51404	4.00488	11.12896
10:52:03				872	9.08268	1.3023589	7.4781	1.51404	4.24908	11.08097
10:52:03				873	9.08562	1.3028423	7.4781	1.51404	4.54212	11.08451
10:52:04				874	9.08464	1.3108888	7.5765	1.4652	3.95604	11.15891
10:52:04				875	9.08464	1.3155555	7.4781	1.4652	3.95604	11.20193
10:52:05	10:50:41 end transect	2.5	90	876	9.09344	1.3229575	7.4781	1.51404	4.29792	11.2674
10:52:05				877	9.09442	1.3260146	7.5765	1.51404	3.80952	11.29526
10:52:06				878	9.09149	1.3342216	7.5765	1.51404	3.85836	11.3719
10:52:06				879	9.08855	1.3297157	7.5765	1.4652	4.20024	11.33126
10:52:07				880	9.0954	1.3417861	7.4781	1.4652	4.00488	11.44049
10:52:07				881	9.09149	1.3609376	7.4781	1.51404	4.00488	11.6187
10:52:08				882	9.07388	1.3611001	7.4781	1.4652	3.95604	11.62593
10:52:08				883	9.06997	1.3543385	7.5765	1.51404	4.00488	11.56465
10:52:09				884	9.06312	1.3417862	7.4781	1.51404	3.71184	11.45084
10:52:09				885	9.08171	1.334705	7.3798	1.51404	3.95604	11.37951
10:52:10				886	9.09442	1.3332573	7.2814	1.4652	3.95604	11.36212
10:52:10				887	9.08855	1.3227969	7.183	1.4652	4.05372	11.26751
10:52:11				888	9.0866	1.3007493	7.0846	1.4652	4.1514	11.065
10:52:11				889	9.08855	1.2585933	6.9862	1.51404	4.44444	10.67696
10:52:12				890	9.12969	1.2101701	6.7895	1.51404	4.10256	10.22173
10:52:12				891	9.24904	1.2349437	6.6911	1.51404	4.00488	10.41337
10:52:13				892	9.33102	1.0723505	6.5927	1.4652	3.85836	8.92024

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:13				893	9.44217	1.0789411	6.3959	1.4652	3.76068	8.95168
10:52:14				894	9.59696	1.009013	6.2976	1.4652	3.71184	8.29188
10:52:14				895	9.68919	1.0008151	6.1992	1.4652	3.56532	8.19831
10:52:15				896	9.75424	0.9816908	6.0024	1.51404	3.95604	8.01519
10:52:15				897	9.8269	0.9710841	5.8056	1.51404	3.663	7.90605
10:52:16				898	9.85979	0.9479441	5.5105	1.4652	3.46764	7.69636
10:52:16				899	9.83271	0.8941193	5.117	1.4652	3.71184	7.23245
10:52:17				900	9.74449	0.8705054	4.8218	1.4652	4.1514	7.04437
10:52:17				901	9.67658	0.7972699	4.5267	1.51404	4.98168	6.42152
10:52:18				902	9.59987	0.7357782	4.2315	1.51404	5.56777	5.90393
10:52:18				903	9.5833	0.6893913	3.9364	1.51404	6.15385	5.50825
10:52:19				904	9.57456	0.653605	3.838	1.51404	6.30037	5.20371
10:52:19				905	9.49378	0.5629659	3.5428	1.4652	6.64225	4.44547
10:52:20				906	9.4227	0.5215924	3.2477	1.4652	7.27717	4.10546
10:52:20				907	9.42076	0.4424014	3.1493	1.51404	8.10745	3.4444
10:52:21				908	9.35545	0.4185231	2.8542	1.4652	9.27961	3.25269
10:52:21				909	9.26172	0.3819918	2.6574	1.51404	9.91453	2.95922
10:52:22				910	9.25196	0.3558805	2.4606	1.4652	10.89133	2.74549
10:52:22				911	9.23043	0.3409847	2.1655	1.4652	11.18437	2.62521
10:52:23				912	9.20407	0.3416244	1.9687	1.4652	11.47741	2.63237
10:52:23				913	9.19229	0.3435465	1.6736	1.4652	11.18437	2.64898
10:52:24				914	9.1874	0.3371405	1.4768	1.51404	11.47741	2.59694
10:52:24				915	9.17861	0.3352191	1.1817	1.51404	11.77045	2.58188
10:52:25				916	9.17861	0.3366602	1.0833	1.51404	11.52625	2.59366
10:52:25				917	9.18447	0.3355384	0.9849	1.51404	11.72161	2.58407
10:52:26				918	9.18252	0.3356988	0.9849	1.4652	11.13553	2.58552
10:52:26				919	9.1835	0.3371404	0.9849	1.51404	11.37973	2.59724
10:52:27				920	9.18252	0.3377815	0.9849	1.51404	11.81929	2.60255
10:52:27				921	9.18252	0.3350587	0.9849	1.51404	11.28205	2.58029
10:52:28				922	9.18252	0.3361787	0.9849	1.51404	11.37973	2.58945
10:52:28				923	9.1835	0.3363392	0.7881	1.41636	11.42857	2.5907
10:52:29				924	9.18545	0.3358592	0.6898	1.51404	12.21001	2.58664
10:52:29				925	9.19815	0.3360197	0.3946	1.51404	6.44689	2.58705
10:52:30				926	9.21774	0.1052642	0.493	1.56288	4.10256	0.76127
10:52:30				927	9.24507	0.1202945	0.5914	1.51404	2.9304	0.87476
10:52:31				928	9.26367	0.2477991	0.5914	0	0	1.87033
10:52:31				929	9.29294	0.3363391	0.6898	0	0	2.58283
10:52:32				930	9.31055	0.336339	0.6898	0	0	2.58156
10:52:32				931	9.32517	0.336339	0.6898	0	0	2.58052
10:52:33				932	9.34077	0.0542746	0.6898	0	0	0.38053
10:52:33	10:51:18 switch off			933	9.36227	0.0756907	0.6898	0	0	0.5374
10:58:10	11:56:47 switch on	0.5	180	7	9.23037	0.3571774	1.1817	0	0	2.75783
10:58:11				8	9.23427	0.3594195	1.1817	0	0	2.77592
10:58:11				9	9.22354	0.3538135	1.1817	0	0	2.73077
10:58:12				10	9.22061	0.356376	1.0833	0	0	2.75201

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:12				11	9.21768	0.356376	1.1817	0	0	2.75223
10:58:13				12	9.21768	0.3542932	1.1817	0	0	2.73515
10:58:13				13	9.22061	0.354934	1.0833	0	0	2.74018
10:58:14				14	9.22256	0.3560553	1.1817	0	0	2.74922
10:58:14				15	9.22354	0.3558957	1.1817	0	0	2.74784
10:58:15				16	9.22354	0.3574968	1.1817	0	0	2.76097
10:58:15				17	9.22646	0.3570162	1.1817	0	0	2.75681
10:58:16				18	9.22549	0.3570162	1.1817	0	0	2.75688
10:58:16				19	9.22451	0.3568565	1.1817	0	0	2.75565
10:58:17				20	9.22354	0.3568565	1.1817	0	0	2.75572
10:58:17				21	9.22354	0.3571774	1.1817	0	0	2.75835
10:58:18				22	9.21865	0.3574968	1.1817	0	0	2.76135
10:58:18				23	9.22354	0.3582988	1.1817	0	0	2.76755
10:58:19				24	9.22061	0.3582988	1.1817	0	0	2.76778
10:58:19				25	9.22158	0.3584586	1.1817	0	0	2.76902
10:58:20				26	9.21768	0.3586185	1.1817	0	0	2.77063
10:58:20				27	9.22061	0.3590997	1.1817	0	0	2.77435
10:58:21				28	9.22354	0.3589398	1.1817	0	0	2.77281
10:58:21				29	9.22744	0.3589398	1.1817	0	0	2.77251
10:58:22				30	9.22549	0.3610214	1.1817	0	0	2.78975
10:58:22				31	9.22744	0.3615018	1.1817	0	0	2.79354
10:58:23				32	9.22451	0.3592596	1.1817	0	0	2.77536
10:58:23				33	9.22646	0.3619823	1.1817	0	0	2.79756
10:58:24				34	9.22646	0.3618221	1.1817	0	0	2.79625
10:58:24				35	9.22744	0.3607012	1.1817	0	0	2.78697
10:58:25				36	9.22451	0.361662	1.1817	0	0	2.79508
10:58:25				37	9.22451	0.3629439	1.0833	0	0	2.80561
10:58:26				38	9.22939	0.3613416	1.1817	0	0	2.79207
10:58:26				39	9.23135	0.3613416	1.1817	0	0	2.79192
10:58:27				40	9.22939	0.3631043	1.1817	0	0	2.80655
10:58:27				41	9.22744	0.3631043	1.1817	0	0	2.8067
10:58:28				42	9.22646	0.3623028	1.1817	0	0	2.80019
10:58:28				43	9.22842	0.3631043	1.1817	0	0	2.80662
10:58:29				44	9.22646	0.3643859	1.1817	0	0	2.8173
10:58:29				45	9.22842	0.3637442	1.1817	0	0	2.81188
10:58:30				46	9.22939	0.3635853	1.1817	0	0	2.8105
10:58:30				47	9.22842	0.3643859	1.1817	0	0	2.81715
10:58:31				48	9.22744	0.3653475	1.1817	0	0	2.82512
10:58:31				49	9.23037	0.3637442	1.1817	0	0	2.81172
10:58:32				50	9.22744	0.3656671	1.1817	0	0	2.82775
10:58:32				51	9.22646	0.3659884	1.1817	0	0	2.83047
10:58:33				52	9.22744	0.3647054	1.1817	0	0	2.81985
10:58:33				53	9.22451	0.3655065	1.1817	0	0	2.82666
10:58:34				54	9.22549	0.3656671	1.1817	0	0	2.8279
10:58:34				55	9.22646	0.3658277	1.0833	0	0	2.82915
10:58:35				56	9.22744	0.3658277	1.1817	0	0	2.82907

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:35				57	9.22451	0.3653475	1.1817	0	0	2.82536
10:58:36				58	9.22451	0.3648659	1.1817	0	0	2.8214
10:58:36				59	9.22549	0.3667887	1.1817	0	0	2.83712
10:58:37				60	9.22646	0.3669494	1.1817	0	0	2.83837
10:58:37				61	9.22646	0.3651869	1.1817	0	0	2.82388
10:58:38				62	9.22549	0.3661475	1.1817	0	0	2.83185
10:58:38				63	9.22744	0.3669494	1.1817	0	0	2.83829
10:58:39				64	9.22744	0.366628	1.1817	0	0	2.83565
10:58:39				65	9.22646	0.3655065	1.1817	0	0	2.82651
10:58:40				66	9.22646	0.3663081	1.1817	0	0	2.8331
10:58:40				67	9.22549	0.3661475	1.1817	0	0	2.83185
10:58:41				68	9.22354	0.3656671	1.1817	0	0	2.82806
10:58:41				69	9.22549	0.3658277	1.1817	0	0	2.82922
10:58:42				70	9.22646	0.3650264	1.1817	0	0	2.82256
10:58:42				71	9.22354	0.3655065	1.1817	0	0	2.82674
10:58:43				72	9.22256	0.3651869	1.1817	0	0	2.82419
10:58:43				73	9.22646	0.3659884	1.1817	0	0	2.83047
10:58:44				74	9.22646	0.3656671	1.1817	0	0	2.82783
10:58:44				75	9.21963	0.3656671	1.1817	0	0	2.82837
10:58:45				76	9.22061	0.3663081	1.1817	0	0	2.83356
10:58:45				77	9.22158	0.3656671	1.1817	0	0	2.82821
10:58:46				78	9.21865	0.3663081	1.1817	0	0	2.83371
10:58:46				79	9.21768	0.3679095	1.1817	0	0	2.84695
10:58:47				80	9.21475	0.3661475	1.1817	0	0	2.8327
10:58:47				81	9.20492	0.3667887	1.1817	0	0	2.83875
10:58:48				82	9.20785	0.3680704	1.1817	0	0	2.84906
10:58:48				83	9.21084	0.3680704	1.1817	0	0	2.84882
10:58:49				84	9.21084	0.3669494	1.1817	0	0	2.8396
10:58:49				85	9.21084	0.3695126	1.1817	0	0	2.86068
10:58:50				86	9.2128	0.3685515	1.1817	0	0	2.85262
10:58:50				87	9.21573	0.3679095	1.1817	0	0	2.84711
10:58:51				88	9.21573	0.369672	1.1817	0	0	2.86161
10:58:51				89	9.21573	0.3691921	1.1817	0	0	2.85766
10:58:52				90	9.21768	0.3685514	1.1817	0	0	2.85223
10:58:52				91	9.21573	0.3704727	1.1817	0	0	2.86819
10:58:53				92	9.21573	0.3687108	1.1817	0	0	2.8537
10:58:53				93	9.21573	0.3695126	1.1817	0	0	2.86029
10:58:54				94	9.21963	0.3707934	1.1817	0	0	2.87052
10:58:54				95	9.22158	0.3704727	1.1817	0	0	2.86773
10:58:55				96	9.22549	0.3701536	1.1817	0.63492	0.29304	2.86479
10:58:55				97	9.21768	0.3773616	1.1817	0.43956	0.09768	2.92475
10:58:56				98	9.22549	0.3762401	1.1817	1.51404	1.02564	2.91488
10:58:56				99	9.22354	0.3722351	1.1817	1.4652	10.98901	2.88207
10:58:57				100	9.22256	0.3695125	1.1817	1.4652	11.23321	2.85975
10:58:57				101	9.22354	0.38345	1.1817	1.4652	11.52625	2.97446
10:58:58				102	9.22061	0.3704727	1.1817	1.41636	11.33089	2.8678

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:58				103	9.22256	0.3760799	1.1817	1.51404	11.03785	2.9138
10:58:59				104	9.22061	0.38345	1.1817	1.51404	11.62393	2.97471
10:58:59				105	9.22158	0.3813674	1.1817	1.51404	11.13553	2.95745
10:59:00				106	9.22061	0.3776822	1.1817	1.51404	11.18437	2.92716
10:59:00				107	9.22061	0.3890574	1.1817	1.4652	10.89133	3.02098
10:59:01				108	9.21377	0.3882565	1.2801	1.4652	11.52625	3.01494
10:59:01				109	9.2059	0.3836109	1.2801	1.4652	11.37973	2.97725
10:59:02				110	9.21182	0.3812068	1.2801	1.4652	10.98901	2.95692
10:59:02				111	9.21475	0.3895388	1.2801	1.4652	11.13553	3.02545
10:59:03				112	9.2167	0.3850521	1.3784	1.51404	10.94017	2.98824
10:59:03				113	9.21377	0.3922621	1.2801	1.51404	10.74481	3.04803
10:59:04				114	9.21377	0.4009153	1.2801	1.4652	11.33089	3.1196
10:59:04				115	9.20395	0.3906605	1.2801	1.4652	11.42857	3.03563
10:59:05				116	9.20297	0.3988316	1.2801	1.51404	10.84249	3.10329
10:59:05				117	9.20297	0.3970689	1.2801	1.51404	11.62393	3.0887
10:59:06				118	9.19809	0.393705	1.3784	1.4652	10.94017	3.06129
10:59:06				119	9.19516	0.3941847	1.3784	1.51404	10.98901	3.06551
10:59:07				120	9.19613	0.391301	1.3784	1.51404	10.74481	3.04158
10:59:07				121	9.20297	0.3905005	1.3784	1.4652	10.98901	3.03438
10:59:08				122	9.20395	0.3892189	1.3784	1.4652	10.98901	3.02371
10:59:08				123	9.20883	0.3885777	1.3784	1.4652	10.59829	3.018
10:59:09				124	9.20688	0.3892189	1.4768	1.4652	10.74481	3.02346
10:59:10				127	9.21634	0.3885607	1.4768	1.4652	10.79365	3.01723
10:59:11				128	9.21731	0.3883992	1.4768	1.4652	10.98901	3.01581
10:59:11				129	9.21731	0.3932067	1.3784	1.4652	10.98901	3.05553
10:59:12				130	9.21731	0.3944884	1.4768	1.51404	10.79365	3.06612
10:59:12				131	9.21835	0.3882394	1.4768	1.4652	10.54945	3.0144
10:59:13				132	9.21731	0.3917644	1.4768	1.51404	10.89133	3.04361
10:59:13				133	9.21634	0.3941675	1.4768	1.41636	11.47741	3.06355
10:59:14				134	9.21835	0.3895217	1.4768	1.51404	10.79365	3.02499
10:59:14				135	9.21731	0.3901617	1.4768	1.4652	10.54945	3.03037
10:59:15				136	9.21835	0.392245	1.4768	1.4652	10.84249	3.04749
10:59:15				137	9.21731	0.3895217	1.4768	1.4652	10.54945	3.02508
10:59:16				138	9.21933	0.3903217	1.4768	1.4652	10.94017	3.03152
10:59:16				139	9.21933	0.3941675	1.3784	1.4652	10.89133	3.0633
10:59:17				140	9.21634	0.3896817	1.4768	1.51404	11.18437	3.02648
10:59:17				141	9.21536	0.3890403	1.4768	1.51404	10.59829	3.02127
10:59:18				142	9.21731	0.3960908	1.4768	1.51404	10.89133	3.07937
10:59:18				143	9.21731	0.3901617	1.4768	1.4652	10.98901	3.03037
10:59:19				144	9.21536	0.391444	1.4768	1.51404	10.79365	3.04113
10:59:19				145	9.21634	0.3909636	1.3784	1.4652	11.37973	3.03708
10:59:20				146	9.21634	0.3882394	1.4768	1.51404	10.64713	3.01457
10:59:20				147	9.21634	0.3896817	1.3784	1.4652	10.30525	3.02649
10:59:21				148	9.21731	0.3895217	1.4768	1.4652	10.84249	3.02508
10:59:21				149	9.21536	0.3895217	1.4768	1.51404	11.13553	3.02525
10:59:22				150	9.21536	0.3885607	1.4768	1.4652	11.08669	3.01731

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:59:22				151	9.21438	0.3885607	1.4768	1.51404	11.52625	3.01739
10:59:23				152	9.21731	0.3877584	1.4768	1.4652	11.33089	3.01052
10:59:23				153	9.21634	0.3853557	1.4768	1.4652	10.84249	2.99077
10:59:24				154	9.21835	0.3898417	1.4768	1.51404	11.18437	3.02764
10:59:24				155	9.21835	0.3872776	1.4768	1.51404	10.94017	3.00646
10:59:25				156	9.21634	0.3877584	1.4768	1.4652	11.52625	3.0106
10:59:25				157	9.21634	0.3919246	1.4768	1.51404	11.13553	3.04501
10:59:26				158	9.21933	0.3880796	1.4768	1.4652	11.28205	3.013
10:59:26				159	9.21731	0.3831128	1.4768	1.4652	11.42857	2.97218
10:59:27				160	9.21536	0.3893618	1.5752	1.51404	10.94017	3.02392
10:59:27				161	9.21731	0.3916042	1.4768	1.4652	11.42857	3.04228
10:59:28				162	9.21835	0.3880796	1.4768	1.4652	11.57509	3.01308
10:59:28				163	9.22128	0.3847145	1.4768	1.4652	11.08669	2.98507
10:59:29				164	9.22225	0.3827926	1.4768	1.51404	11.08669	2.96913
10:59:29				165	9.22225	0.384555	1.4768	1.51404	11.23321	2.98367
10:59:30				166	9.2203	0.383433	1.5752	1.51404	11.18437	2.97457
10:59:30				167	9.22128	0.3813505	1.5752	1.51404	10.94017	2.95732
10:59:31				168	9.22225	0.383433	1.5752	1.51404	11.42857	2.97441
10:59:31				169	9.22128	0.3823118	1.5752	1.51404	11.91697	2.96524
10:59:32				170	9.2203	0.3807094	1.5752	1.4652	10.69597	2.95211
10:59:32				171	9.21933	0.3767037	1.5752	1.4652	11.08669	2.91918
10:59:33				172	9.21933	0.3783066	1.5752	1.4652	10.84249	2.93239
10:59:33				173	9.21835	0.3797491	1.5752	1.4652	10.69597	2.94436
10:59:34				174	9.22128	0.3794281	1.5752	1.4652	10.89133	2.94147
10:59:34				175	9.2203	0.3787878	1.5752	1.4652	11.62393	2.93627
10:59:35				176	9.21835	0.3824726	1.5752	1.41636	11.77045	2.96681
10:59:35				177	9.21835	0.38087	1.5752	1.51404	12.35653	2.9536
10:59:36				178	9.21835	0.3783066	1.5752	1.4652	11.57509	2.93247
10:59:36				179	9.21731	0.3845551	1.5752	1.51404	11.13553	2.98408
10:59:37				180	9.22128	0.3829519	1.6736	1.51404	11.52625	2.97052
10:59:37				181	9.21731	0.3797491	1.6736	1.51404	11.52625	2.94444
10:59:38				182	9.21835	0.3765435	1.5752	1.4652	10.84249	2.91794
10:59:38				183	9.21731	0.3778256	1.5752	1.4652	11.13553	2.92859
10:59:39				184	9.21835	0.3768639	1.6736	1.4652	10.98901	2.92058
10:59:39				185	9.21536	0.377505	1.6736	1.4652	11.23321	2.9261
10:59:40				186	9.21731	0.3749424	1.6736	1.51404	10.89133	2.90483
10:59:40				187	9.21933	0.3850351	1.772	1.51404	11.03785	2.98786
10:59:41				188	9.21536	0.3965712	1.8703	1.51404	11.47741	3.08349
10:59:41				189	9.21536	0.400737	1.9687	1.51404	11.13553	3.11796
10:59:42				190	9.21243	0.4071465	2.0671	1.51404	10.64713	3.1713
10:59:42				191	9.20267	0.4058642	2.2639	1.51404	11.96581	3.16152
10:59:43	10:58:19 start depth profile	0.5	180	192	9.20364	0.4066661	2.3623	1.51404	10.79365	3.16808
10:59:43				193	9.20364	0.4047427	2.3623	1.51404	10.59829	3.15214
10:59:44				194	9.20462	0.4119539	2.4606	1.51404	10.06105	3.21184
10:59:44				195	9.20559	0.4085887	2.559	1.51404	10.69597	3.18383
10:59:45				196	9.20755	0.4140372	2.559	1.51404	10.74481	3.22886

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:59:45				197	9.20364	0.4141965	2.7558	1.51404	11.08669	3.23053
10:59:46				198	9.20755	0.4167612	2.7558	1.51404	11.03785	3.25147
10:59:46				199	9.20559	0.4156386	2.9526	1.4652	11.23321	3.24231
10:59:47				200	9.21145	0.4214084	3.0509	1.51404	10.79365	3.28971
10:59:47				201	9.22714	0.4236513	3.1493	1.51404	10.25641	3.3069
10:59:48				202	9.24959	0.4250937	3.2477	1.51404	11.13553	3.31681
10:59:48				203	9.24861	0.4284595	3.2477	1.51404	10.45177	3.34487
10:59:49				204	9.23592	0.4496144	3.3461	1.51404	10.84249	3.52231
10:59:49				205	9.22616	0.4619562	3.5428	1.51404	10.98901	3.62642
10:59:50				206	9.23495	0.4667654	3.5428	1.51404	11.33089	3.66579
10:59:50				207	9.23983	0.4730178	3.7396	1.51404	10.94017	3.71765
10:59:51				208	9.24763	0.4749407	3.838	1.51404	10.45177	3.73295
10:59:51				209	9.25739	0.4819936	3.9364	1.51404	9.76801	3.79106
10:59:52				210	9.28087	0.5086075	4.0348	1.51404	10.40293	4.01219
10:59:52				211	9.33066	0.4919341	4.2315	1.4652	10.15873	3.86661
10:59:53				212	9.3521	0.4996298	4.2315	1.4652	9.03541	3.92884
10:59:53				213	9.39015	0.5283301	4.3299	1.4652	8.49817	4.16581
10:59:54				214	9.45543	0.5246414	4.5267	1.4652	8.88889	4.12725
10:59:54				215	9.46522	0.5190293	4.6251	1.51404	8.40049	4.07901
10:59:55				216	9.46522	0.599863	4.6251	1.4652	8.40049	4.76142
10:59:55				217	9.5275	0.6399706	4.8218	1.51404	8.44933	5.09411
10:59:56				218	9.57808	0.9145341	4.9202	1.51404	8.10745	7.46277
10:59:56				219	9.66652	0.8775838	5.117	1.51404	7.66789	7.12133
10:59:57				220	9.73734	0.836303	5.117	1.4652	7.08181	6.74853
10:59:57				221	10.00741	0.986202	5.2153	1.4652	7.03297	7.99886
10:59:58				222	10.60756	1.0107897	5.3137	46.30037	5.66545	8.07993
10:59:58				223	11.52133	1.0739632	5.5105	54.94505	4.93284	8.41501
10:59:59				224	13.01772	1.0773352	5.7073	62.41758	4.73748	8.11475
10:59:59				225	13.37431	1.074118	5.7073	90.06105	4.54212	8.01358
11:00:00				226	13.61097	1.0694555	5.7073	90.20757	4.34676	7.92712
11:00:00				227	13.92438	1.0554674	6.0024	84.49328	4.34676	7.75216
11:00:01				228	15.39634	1.0728255	6.0024	84.24908	4.34676	7.59886
11:00:01				229	15.51676	1.074433	6.0024	101.8315	4.44444	7.58808
11:00:02				230	15.26236	1.0662339	6.0024	99.8779	4.3956	7.5741
11:00:02				231	14.93617	1.0604475	6.0024	102.3199	4.6398	7.59227
11:00:03				232	14.91551	1.0683243	6.0024	100.8547	4.54212	7.65712
11:00:03				233	14.86602	1.0771673	6.0024	99.34066	4.34676	7.73524
11:00:04				234	14.72562	1.0644674	6.0024	95.28694	4.3956	7.66427
11:00:04				235	14.59306	1.0922814	6.0024	89.32845	4.3956	7.90722
11:00:05				236	14.62374	1.081991	6.1008	87.96093	4.59096	7.82074
11:00:05				237	14.52165	1.0853692	6.1008	83.46764	4.24908	7.86758
11:00:06				238	14.34518	1.0826366	6.0024	83.46764	4.68864	7.88177
11:00:06				239	14.09647	1.0821545	6.0024	77.75336	4.29792	7.92851
11:00:07				240	13.56793	1.0871407	6.1008	76.77656	4.59096	8.0776
11:00:07				241	13.97455	1.0893905	6.1008	75.8486	4.3956	8.01085
11:00:08				242	14.09829	1.0996803	6.1008	70.72039	4.05372	8.06675

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:08				243	13.9335	1.1086843	6.1992	73.21123	4.6398	8.1727
11:00:09				244	13.27773	1.1144767	6.1992	67.74115	4.49328	8.35993
11:00:10				247	13.31481	1.1519678	6.2976	54.74969	4.3956	8.65556
11:00:11				248	13.08538	1.1680504	6.4943	54.79853	4.10256	8.83898
11:00:11				249	13.18775	1.1569533	6.4943	40.04884	4.05372	8.72491
11:00:12				250	13.17019	1.165961	6.5927	32.03907	3.85836	8.80233
11:00:12				251	12.57121	1.1640329	6.5927	40.53724	4.1514	8.92602
11:00:13				252	12.20476	1.1723984	6.6911	40.78144	4.24908	9.08307
11:00:13				253	12.64651	1.1807589	6.7895	34.77411	4.05372	9.04663
11:00:14				254	12.58236	1.181403	6.6911	35.55556	4.24908	9.06732
11:00:14				255	11.99028	1.1917002	6.7895	35.40904	4.49328	9.29767
11:00:15				256	11.26516	1.2457554	6.7895	34.04151	4.20024	9.94602
11:00:15				257	10.07234	1.2365899	6.9862	4.83516	4.1514	10.193
11:00:16				258	9.76858	1.2708594	6.9862	4.884	4.1514	10.58726
11:00:16				259	9.62007	1.298054	7.0846	1.4652	4.10256	10.87726
11:00:17				260	9.41571	1.2702171	7.183	1.51404	4.1514	10.68559
11:00:17				261	9.39526	1.3104463	7.183	1.51404	3.85836	11.05857
11:00:18				262	9.40305	1.3164012	7.2814	1.4652	3.80952	11.11054
11:00:18				263	9.30549	1.3183324	7.3798	1.51404	3.61416	11.15847
11:00:19				264	9.31329	1.3165619	7.4781	1.41636	3.32112	11.13981
11:00:19				265	9.29477	1.3210691	7.4781	1.4652	3.22344	11.18688
11:00:20				266	9.27422	1.3196204	7.4781	1.4652	3.02808	11.18
11:00:20				267	9.25764	1.320425	7.5765	1.4652	2.9304	11.19255
11:00:21				268	9.25081	1.3184931	7.5765	1.51404	3.07692	11.17695
11:00:21				269	9.27032	1.3125389	7.5765	1.4652	2.97924	11.11627
11:00:22				270	9.34065	1.323	7.5765	1.51404	3.02808	11.19023
11:00:22				271	9.32012	1.3146321	7.5765	1.41636	3.27228	11.12
11:00:23				272	9.35137	1.314632	7.4781	1.51404	3.07692	11.11033
11:00:23				273	9.37767	1.3167219	7.4781	1.4652	3.27228	11.1213
11:00:24				274	9.35234	1.3168846	7.5765	1.51404	3.4188	11.13062
11:00:24				275	9.31817	1.3154355	7.4781	1.4652	3.07692	11.12798
11:00:25				276	9.30842	1.3123787	7.3798	1.51404	3.36996	11.10303
11:00:25				277	9.28203	1.3072277	7.2814	1.4652	3.07692	11.06403
11:00:26				278	9.26544	1.2982172	7.183	1.4652	3.07692	10.98661
11:00:26				279	9.25471	1.2888832	7.183	1.51404	3.12576	10.90442
11:00:27				280	9.24495	1.2919417	7.0846	1.51404	3.85836	10.93542
11:00:27				281	9.26447	1.2832528	6.9862	1.4652	3.76068	10.84997
11:00:28				282	9.27617	1.2639446	6.9862	1.51404	3.80952	10.66997
11:00:28				283	9.26544	1.253002	6.9862	1.41636	3.9072	10.57326
11:00:29				284	9.27227	1.2373959	6.9862	1.51404	3.80952	10.42892
11:00:29				285	9.28007	1.2507512	6.9862	1.4652	3.9072	10.54841
11:00:30				286	9.28398	1.2341794	6.9862	1.51404	3.85836	10.39622
11:00:30				287	9.28989	1.222436	6.9862	1.4652	3.71184	10.2876
11:00:31				288	9.29282	1.2394874	6.9862	1.51404	3.9072	10.442
11:00:31				289	9.31037	1.2354664	6.9862	1.4652	3.80952	10.40028
11:00:32				290	9.35234	1.2127826	6.9862	1.4652	3.85836	10.18206

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:32				291	9.34455	1.2126229	6.9862	1.51404	4.1514	10.18282
11:00:33				292	9.34649	1.2055446	6.9862	1.51404	4.24908	10.11804
11:00:33				293	9.3728	1.1868834	6.8878	1.51404	3.95604	9.94159
11:00:34				294	9.44886	1.186401	6.7895	1.4652	3.76068	9.91622
11:00:34				295	9.4547	1.1535894	6.7895	1.4652	3.71184	9.6187
11:00:35				296	9.45762	1.1605062	6.6911	1.4652	3.76068	9.68024
11:00:35				297	9.46637	1.1436186	6.5927	1.51404	4.10256	9.52587
11:00:36				298	9.4761	1.1447456	6.5927	1.4652	3.85836	9.53343
11:00:36				299	9.48199	1.1436185	6.3959	1.4652	4.05372	9.52176
11:00:37				300	9.52678	1.130271	6.3959	1.4652	3.71184	9.39011
11:00:37				301	9.53747	1.13429	6.3959	1.4652	3.61416	9.42337
11:00:38				302	9.55107	1.1336472	6.2976	1.51404	3.46764	9.41406
11:00:38				303	9.5637	1.1328443	6.2976	1.4652	3.71184	9.40356
11:00:39				304	9.57341	1.1156366	6.1992	1.51404	3.663	9.24695
11:00:39				305	9.61037	1.1048624	6.1008	10.64713	3.51648	9.14122
11:00:40				306	9.77052	1.070454	5.904	10.35409	3.51648	8.7953
11:00:40				307	9.82672	1.0643448	5.904	5.27473	3.76068	8.72759
11:00:41				308	9.8587	1.067078	5.904	3.80952	3.56532	8.74403
11:00:41				309	9.86064	1.0583962	5.7073	1.4652	3.46764	8.66688
11:00:42				310	9.8897	1.0527693	5.7073	1.4652	3.56532	8.61027
11:00:42				311	9.9158	1.0506785	5.7073	1.4652	3.46764	8.58564
11:00:43				312	9.97092	1.0553396	5.5105	1.4652	3.4188	8.61365
11:00:43				313	10.0733	1.0436045	5.5105	12.74725	3.71184	8.48642
11:00:44				314	10.10035	1.0411931	5.4121	19.3895	3.80952	8.45899
11:00:44				315	10.14466	1.0392637	5.4121	22.8083	3.71184	8.4318
11:00:45				316	10.15628	1.0403896	5.3137	24.37118	3.71184	8.43897
11:00:45				317	10.19959	1.0366904	5.3137	25.34799	3.71184	8.39662
11:00:46				318	10.29203	1.0362084	5.3137	26.71551	3.9072	8.37114
11:00:46				319	10.4314	1.02785	5.2153	34.18803	4.20024	8.26675
11:00:47				320	10.57042	1.0247943	5.117	36.5812	4.10256	8.20902
11:00:47				321	10.647	1.0196511	5.0186	38.19292	4.29792	8.14758
11:00:48				322	10.6977	1.0095237	5.0186	36.87424	4.3956	8.04926
11:00:48				323	10.71585	0.9915228	5.0186	34.82295	4.1514	7.89078
11:00:49				324	10.75791	0.9593806	4.9202	31.06227	4.54212	7.60686
11:00:49				325	10.78272	0.9486127	4.9202	30.03663	4.73748	7.50988
11:00:50				326	10.78749	0.8957509	4.8218	29.69475	4.6398	7.0595
11:00:50				327	10.76364	0.9044273	4.7234	23.15018	5.42125	7.13774
11:00:51				328	10.75696	0.7722417	4.8218	17.72894	6.10501	6.02399
11:00:51				329	10.71107	0.8616948	4.7234	15.09158	6.44689	6.78532
11:00:52				330	10.66611	0.8030729	4.7234	16.99634	5.95849	6.2982
11:00:52				331	10.61162	0.5345949	4.7234	7.61905	7.03297	4.07918
11:00:53				332	10.43038	0.6589187	4.7234	5.32357	7.47253	5.12675
11:00:53				333	10.30932	0.6992012	4.6251	6.49573	6.98413	5.48147
11:00:54				334	10.35836	0.7117206	4.5267	3.51648	7.13065	5.57929
11:00:54				335	10.27761	0.6292327	4.4283	2.1978	7.52137	4.90029
11:00:55				336	10.14274	0.5849563	4.4283	1.4652	7.52137	4.54909

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:55				337	9.98932	0.5968259	4.4283	1.51404	7.52137	4.66752
11:00:56				338	9.97574	0.5540009	4.4283	1.51404	7.52137	4.31197
11:00:56				339	9.92836	0.5264175	4.4283	1.4652	7.57021	4.08837
11:00:57				340	9.82866	0.5254559	4.4283	1.4652	7.86325	4.09162
11:00:57				341	9.73371	0.5262564	4.5267	1.4652	7.96093	4.10903
11:00:58				342	9.63275	0.5302669	4.5267	1.51404	7.76557	4.15406
11:00:58				343	9.58318	0.5275403	4.5267	1.51404	7.66789	4.13692
11:00:59				344	9.57541	0.5307474	4.5267	1.4652	7.86325	4.16468
11:00:59				345	9.5637	0.5257758	4.6251	1.51404	7.66789	4.12437
11:01:00				346	9.53649	0.5626624	4.6251	1.51404	7.86325	4.43757
11:01:00				347	9.52283	0.5743697	4.7234	1.4652	8.35165	4.53806
11:01:01				348	9.53552	0.563784	4.7234	1.4652	8.79121	4.44714
11:01:01				349	9.54524	0.587043	4.7234	1.4652	8.00977	4.64232
11:01:02				350	9.55495	0.6099819	4.8218	1.51404	8.10745	4.83533
11:01:02				351	9.57638	0.6009988	4.8218	1.4652	7.86325	4.75636
11:01:03				352	9.58998	0.5963453	4.9202	1.4652	7.52137	4.71518
11:01:03				353	9.59775	0.7170196	4.9202	1.51404	7.61905	5.74289
11:01:04				354	9.65215	0.707388	5.0186	1.51404	7.96093	5.65166
11:01:04				355	9.73952	0.6480076	5.0186	1.4652	7.17949	5.1324
11:01:05				356	9.68616	0.7412592	5.0186	1.4652	7.17949	5.93685
11:01:05				357	9.79866	0.8207402	5.0186	1.51404	7.76557	6.60245
11:01:06				358	10.05209	1.0124192	5.2153	1.51404	7.76557	8.21815
11:01:06				359	10.10999	0.8261991	5.2153	1.4652	7.66789	6.59281
11:01:07				360	10.16591	0.7915115	5.2153	19.82906	6.20269	6.28623
11:01:07				361	10.21986	0.8070886	5.2153	16.89866	5.95849	6.40972
11:01:08				362	10.24006	0.8477221	5.2153	15.82418	6.20269	6.75342
11:01:08				363	10.35452	0.9940955	5.3137	22.95482	6.30037	7.99129
11:01:09				364	10.58095	0.9953804	5.4121	27.88767	6.05617	7.95302
11:01:10				367	10.70815	0.9850891	5.5105	40.39072	3.95604	7.83721
11:01:11				368	10.70337	0.9510186	5.4121	38.2906	4.34676	7.54662
11:01:11				369	10.6986	0.9722314	5.5105	34.52991	3.9072	7.72907
11:01:12				370	10.68618	0.9603406	5.5105	34.62759	3.85836	7.62988
11:01:12				371	10.68618	0.961947	5.5105	33.16239	4.1514	7.64362
11:01:13				372	10.67949	0.9365567	5.5105	33.99267	4.05372	7.42794
11:01:13				373	10.66414	0.9778559	5.5105	34.43223	3.95604	7.78456
11:01:14				374	10.67083	0.9866957	5.5105	33.01587	4.78632	7.85897
11:01:14				375	10.67848	0.9773739	5.5105	24.61538	4.20024	7.77738
11:01:15				376	10.68331	1.0095196	5.6089	24.12698	4.00488	8.05231
11:01:15				377	10.68522	0.999071	5.6089	23.73626	4.29792	7.9621
11:01:16				378	10.68427	0.9939294	5.4121	24.42002	4.00488	7.91818
11:01:16				379	10.6651	0.9926425	5.6089	24.2735	4.29792	7.91124
11:01:17				380	10.59811	0.993447	5.6089	24.17582	4.54212	7.93263
11:01:17				381	10.56558	0.9931254	5.7073	24.71306	4.34676	7.9369
11:01:18				382	10.56749	0.9815527	5.6089	23.00366	4.24908	7.83689
11:01:18				383	10.59237	0.9407356	5.6089	23.2967	4.05372	7.48137
11:01:19				384	10.62591	0.9473231	5.5105	23.73626	4.10256	7.53091

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:19				385	10.64598	0.972553	5.5105	27.54579	4.29792	7.74292
11:01:20				386	10.70242	0.967732	5.4121	27.20391	4.44444	7.68976
11:01:20				387	10.74449	0.9905542	5.4121	27.25275	4.49328	7.87629
11:01:21				388	10.7387	0.9965009	5.5105	29.54823	4.29792	7.92849
11:01:21				389	10.76263	0.9961787	5.4121	31.99023	4.24908	7.92058
11:01:22				390	10.78648	1.008393	5.4121	31.79487	4.1514	8.02009
11:01:22				391	10.83708	1.0008403	5.5105	30.96459	4.44444	7.94442
11:01:23				392	10.88955	1.0186803	5.5105	32.38095	4.78632	8.08563
11:01:23				393	10.93817	1.0186802	5.4121	27.54579	4.10256	8.07498
11:01:24				394	10.99335	0.9868552	5.4121	26.86203	4.00488	7.79176
11:01:24				395	10.91907	0.991516	5.4121	29.98779	4.05372	7.84721
11:01:25				396	11.13699	0.9992308	5.3137	33.30891	4.20024	7.86647
11:01:25				397	11.30488	0.9984263	5.2153	34.96947	4.10256	7.82411
11:01:26				398	11.33901	0.9963379	5.2153	35.50672	4.1514	7.79929
11:01:26				399	11.28121	0.9932839	5.117	34.28571	4.44444	7.78567
11:01:27				400	11.15217	0.9614622	5.2153	34.48107	4.78632	7.54352
11:01:27				401	10.99531	0.9641961	5.2153	28.08303	5.37241	7.59882
11:01:28				402	10.94007	0.9560003	5.117	24.71306	5.51893	7.54057
11:01:28				403	10.96386	0.8915691	5.2153	17.87546	5.76313	6.99045
11:01:29				404	10.78075	0.8361525	5.117	13.23565	5.95849	6.55686
11:01:29				405	10.4601	0.8269973	5.0186	11.18437	6.49573	6.53663
11:01:30				406	10.4284	0.8141511	5.0186	8.69353	6.69109	6.43316
11:01:30				407	10.41401	0.7805886	5.0186	6.15385	6.64225	6.15117
11:01:31				408	10.34294	0.7595554	4.9202	5.86081	6.64225	5.98505
11:01:31				409	10.213	0.7478358	4.9202	5.66545	6.64225	5.90699
11:01:32				410	10.20627	0.7600375	4.9202	5.03053	6.69109	6.0116
11:01:32				411	10.22653	0.7107539	4.9202	2.83272	6.69109	5.59129
11:01:33				412	10.20338	0.7263242	4.9202	1.7094	7.17949	5.7264
11:01:33				413	10.17259	0.7107541	4.9202	1.56288	7.52137	5.59957
11:01:34				414	10.09637	0.7131623	4.9202	1.4652	6.78877	5.6317
11:01:34				415	10.09059	0.6988757	5.0186	1.51404	7.03297	5.51169
11:01:35				416	9.99113	0.6987165	5.0186	1.51404	7.37485	5.52544
11:01:35				417	9.94768	0.7003216	5.0186	1.51404	7.22833	5.54569
11:01:36				418	9.97472	0.6646919	5.0186	1.51404	7.08181	5.23996
11:01:36				419	9.95444	0.6740006	5.0186	1.51404	7.52137	5.3216
11:01:37				420	9.91381	0.67063	5.0186	1.4652	7.52137	5.29902
11:01:37				421	9.90028	0.6685447	5.0186	1.4652	7.17949	5.28333
11:01:38				422	9.89351	0.635488	4.8218	1.51404	7.22833	5.00498
11:01:38				423	9.78504	0.5780568	4.7234	1.4652	7.22833	4.53617
11:01:39				424	9.76174	0.5556012	4.7234	1.4652	7.66789	4.35086
11:01:39				425	9.70839	0.573083	4.7234	1.51404	7.66789	4.50398
11:01:40				426	9.69676	0.5432522	4.7234	1.51404	7.13065	4.25525
11:01:40				427	9.66955	0.5318669	4.7234	1.51404	7.71673	4.16319
11:01:41				428	9.61807	0.5430928	4.8218	1.51404	7.27717	4.26318
11:01:41				429	9.58895	0.5313864	4.7234	1.51404	7.61905	4.16846
11:01:42				430	9.58409	0.5276968	4.7234	1.51404	7.81441	4.13812

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:42				431	9.55295	0.5301035	4.8218	1.51404	7.47253	4.16186
11:01:43				432	9.54129	0.526255	4.7234	1.51404	7.32601	4.13094
11:01:43				433	9.54032	0.5276969	4.8218	1.4652	7.81441	4.14314
11:01:44				434	9.53838	0.5337912	4.7234	1.51404	7.71673	4.19449
11:01:44				435	9.57723	0.5257741	4.7234	1.51404	7.37485	4.1228
11:01:45				436	9.56169	0.5301035	4.7234	1.4652	7.86325	4.16086
11:01:45				437	9.54323	0.5331496	4.8218	1.4652	7.61905	4.18853
11:01:46				438	9.54712	0.5273771	4.7234	1.51404	7.61905	4.13968
11:01:46				439	9.54226	0.5259338	4.7234	1.41636	7.96093	4.12814
11:01:47				440	9.5374	0.5294616	4.7234	1.4652	8.10745	4.15828
11:01:47				441	9.53352	0.5272173	4.7234	1.51404	7.81441	4.1399
11:01:48				442	9.53249	0.5286599	4.7234	1.4652	8.05861	4.15212
11:01:48				443	9.53151	0.5315467	4.7234	1.4652	7.66789	4.17645
11:01:49				444	9.53449	0.5329893	4.8218	1.51404	7.61905	4.1882
11:01:49				445	9.53838	0.5310644	4.7234	1.4652	8.10745	4.17161
11:01:50				446	9.5374	0.5310644	4.7234	1.51404	8.20513	4.17172
11:01:50				447	9.5374	0.5326686	4.7234	1.51404	7.91209	4.18518
11:01:51				448	9.53546	0.5411679	4.7234	1.51404	8.49817	4.25678
11:01:51				449	9.54032	0.5337912	4.8218	1.51404	8.35165	4.19426
11:01:52				450	9.53838	0.5329893	4.7234	1.51404	8.00977	4.18776
11:01:52				451	9.54226	0.5384422	4.7234	1.51404	8.20513	4.23308
11:01:53				452	9.54129	0.5414883	4.7234	1.4652	7.91209	4.25878
11:01:53				453	9.54323	0.5419699	4.8218	1.51404	7.96093	4.26259
11:01:54				454	9.54226	0.5487063	4.8218	1.51404	7.91209	4.31934
11:01:54				455	9.54518	0.5381206	4.7234	1.4652	8.00977	4.23004
11:01:55				456	9.54518	0.5435732	4.7234	1.51404	7.86325	4.27584
11:01:55				457	9.54809	0.5718013	4.7234	1.4652	8.54701	4.5132
11:01:56				458	9.55684	0.542611	4.8218	1.4652	8.30281	4.26637
11:01:56				459	9.55295	0.5570455	4.7234	1.4652	7.37485	4.38823
11:01:57				460	9.55684	0.5737263	4.7234	1.4652	8.05861	4.52835
11:01:57				461	9.55878	0.5520741	4.8218	1.4652	8.05861	4.34568
11:01:58				462	9.55684	0.5607346	4.7234	1.4652	8.15629	4.41882
11:01:58				463	9.55781	0.5811045	4.7234	1.4652	7.86325	4.59052
11:01:59				464	9.56169	0.5626589	4.8218	1.4652	8.25397	4.43443
11:01:59				465	9.56169	0.5616957	4.7234	1.4652	7.52137	4.42632
11:02:00				466	9.56072	0.578377	4.7234	1.4652	7.76557	4.56712
11:02:00				467	9.55975	0.5685931	4.7234	1.4652	8.25397	4.48469
11:02:01				468	9.55587	0.5703566	4.7234	1.4652	7.66789	4.50004
11:02:01				469	9.55781	0.5767737	4.8218	1.4652	7.71673	4.55394
11:02:02				470	9.55781	0.5687531	4.7234	1.4652	7.76557	4.48628
11:02:02				471	9.55781	0.5708386	4.7234	1.4652	7.61905	4.50386
11:02:03				472	9.55878	0.5761314	4.7234	1.4652	8.10745	4.5484
11:02:03				473	9.55781	0.5713191	4.7234	1.4652	7.91209	4.50792
11:02:04				474	9.56072	0.5767737	4.7234	1.4652	7.66789	4.55358
11:02:04				475	9.55975	0.5859167	4.8218	1.4652	8.00977	4.63093
11:02:05				476	9.55975	0.5730833	4.7234	1.4652	7.81441	4.52256

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:05				477	9.56072	0.584472	4.7234	1.4652	7.57021	4.6186
11:02:06				478	9.56169	0.5876802	4.7234	1.4652	7.66789	4.64559
11:02:06				479	9.56364	0.5788593	4.7234	1.4652	7.37485	4.57082
11:02:07				480	9.56558	0.596504	4.7234	1.4652	7.71673	4.71973
11:02:07				481	9.56752	0.5896052	4.7234	1.4652	7.76557	4.66112
11:02:08				482	9.56655	0.5830283	4.7234	1.4652	7.37485	4.60566
11:02:08				483	9.57044	0.5916905	4.7234	1.4652	8.00977	4.67837
11:02:09				484	9.57529	0.5860763	4.7234	1.4652	7.66789	4.63029
11:02:10				487	9.57505	0.5831807	4.7234	1.51404	7.32601	4.60586
11:02:11				488	9.57213	0.5924841	4.7234	1.4652	7.32601	4.68487
11:02:11				489	9.5799	0.5924841	4.7234	1.4652	7.71673	4.68386
11:02:12				490	9.58282	0.5867097	4.8218	1.4652	8.00977	4.63467
11:02:12				491	9.57699	0.588474	4.8218	1.4652	7.52137	4.65033
11:02:13				492	9.58185	0.5895965	4.8218	1.4652	7.32601	4.65919
11:02:13				493	9.58379	0.587833	4.8218	1.4652	7.17949	4.64403
11:02:14				494	9.57505	0.5846245	4.8218	1.4652	7.76557	4.61805
11:02:14				495	9.57311	0.5839831	4.7234	1.4652	7.27717	4.61289
11:02:15				496	9.57213	0.5863886	4.7234	1.4652	7.66789	4.63333
11:02:15				497	9.57116	0.5799729	4.8218	1.4652	8.15629	4.57926
11:02:16				498	9.56922	0.5782076	4.8218	1.4652	7.47253	4.5646
11:02:16				499	9.56922	0.5756412	4.7234	1.4652	7.81441	4.54295
11:02:17				500	9.57116	0.5745196	4.7234	1.4652	7.86325	4.53324
11:02:17				501	9.57116	0.5743592	4.7234	1.4652	7.32601	4.53189
11:02:18				502	9.57116	0.5730747	4.7234	1.4652	7.86325	4.52105
11:02:18				503	9.57116	0.5706699	4.8218	1.4652	7.66789	4.50077
11:02:19				504	9.57019	0.5695461	4.8218	1.4652	7.42369	4.49141
11:02:19				505	9.57213	0.5687445	4.8218	1.4652	7.81441	4.48442
11:02:20				506	9.56922	0.5656976	4.7234	1.4652	7.71673	4.45911
11:02:20				507	9.56631	0.5676217	4.7234	1.4652	8.00977	4.47568
11:02:21				508	9.56242	0.5631305	4.7234	1.51404	8.25397	4.43832
11:02:21				509	9.55757	0.5660187	4.7234	1.4652	8.15629	4.46325
11:02:22				510	9.55562	0.5631305	4.7234	1.51404	8.25397	4.43915
11:02:22				511	9.55659	0.5596028	4.8218	1.51404	7.86325	4.40931
11:02:23				512	9.55271	0.5544711	4.7234	1.4652	8.05861	4.36659
11:02:23				513	9.54785	0.5596028	4.7234	1.51404	8.25397	4.41039
11:02:24				514	9.54882	0.557037	4.8218	1.51404	8.15629	4.38865
11:02:24				515	9.54979	0.5530274	4.8218	1.4652	8.00977	4.35479
11:02:25				516	9.54585	0.5527068	4.7234	1.51404	7.96093	4.35257
11:02:25				517	9.54487	0.5413204	4.8218	1.51404	8.20513	4.25694
11:02:26				518	9.54487	0.5453291	4.8218	1.51404	8.59585	4.29063
11:02:26				519	9.53516	0.5472534	4.7234	1.51404	7.71673	4.30798
11:02:27				520	9.5371	0.542282	4.8218	1.51404	7.71673	4.26594
11:02:27				521	9.53419	0.5429233	4.8218	1.4652	8.54701	4.27168
11:02:28				522	9.5303	0.5442065	4.8218	1.4652	8.15629	4.28292
11:02:28				523	9.52933	0.5430845	4.8218	1.4652	8.25397	4.27361
11:02:29				524	9.52933	0.543244	4.8218	1.4652	8.00977	4.27495

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:29				525	9.52933	0.5398766	4.8218	1.4652	7.86325	4.24665
11:02:30				526	9.5303	0.5413205	4.8218	1.4652	8.10745	4.25866
11:02:30				527	9.52836	0.5421225	4.7234	1.4652	8.00977	4.26564
11:02:31				528	9.52836	0.5418003	4.8218	1.4652	8.05861	4.26293
11:02:31				529	9.52933	0.5414798	4.8218	1.41636	8.00977	4.26012
11:02:32				530	9.52933	0.5390754	4.7234	1.4652	8.00977	4.23992
11:02:32				531	9.52836	0.5403577	4.8218	1.51404	8.84005	4.2508
11:02:33				532	9.52738	0.5401968	4.8218	1.4652	8.54701	4.24957
11:02:33				533	9.52641	0.535707	4.8218	1.51404	8.00977	4.21196
11:02:34				534	9.5235	0.5358676	4.8218	1.51404	8.05861	4.21365
11:02:34				535	9.52252	0.5373101	4.8218	1.4652	8.20513	4.22588
11:02:35				536	9.51961	0.5361888	4.8218	1.51404	8.30281	4.2168
11:02:35				537	9.51961	0.5355465	4.8218	1.51404	8.05861	4.21141
11:02:36				538	9.51864	0.535707	4.8218	1.51404	8.05861	4.21287
11:02:36				539	9.51572	0.5360282	4.8218	1.51404	7.91209	4.21591
11:02:37				540	9.51475	0.5355465	4.8218	1.51404	8.10745	4.21198
11:02:37				541	9.51669	0.5355465	4.8218	1.51404	7.76557	4.21175
11:02:38				542	9.51766	0.5360282	4.8218	1.51404	8.59585	4.21568
11:02:38				543	9.51766	0.5358676	4.9202	1.51404	8.05861	4.21433
11:02:39				544	9.51961	0.5360282	4.8218	1.51404	7.91209	4.21545
11:02:39				545	9.51766	0.5365084	4.8218	1.4652	7.96093	4.21972
11:02:40				546	9.51766	0.5369904	4.8218	1.4652	8.10745	4.22377
11:02:40				547	9.51961	0.5368297	4.9202	1.4652	8.05861	4.22218
11:02:41				548	9.51864	0.5361888	4.8218	1.4652	8.20513	4.21692
11:02:41				549	9.51864	0.5368297	4.8218	1.4652	7.76557	4.2223
11:02:42				550	9.51961	0.5371511	4.8218	1.4652	8.20513	4.22489
11:02:42				551	9.51864	0.5365084	4.8218	1.51404	8.20513	4.2196
11:02:43				552	9.51864	0.5366691	4.8218	1.4652	8.93773	4.22095
11:02:43				553	9.51961	0.5381122	4.8218	1.51404	8.10745	4.23296
11:02:44				554	9.52155	0.5368297	4.8218	1.51404	8.15629	4.22196
11:02:44				555	9.51961	0.5369904	4.8218	1.51404	7.76557	4.22354
11:02:45				556	9.52252	0.5371511	4.8218	1.51404	7.96093	4.22455
11:02:45				557	9.51961	0.5353859	4.8218	1.51404	7.91209	4.21006
11:02:46				558	9.52544	0.532019	4.5267	1.51404	7.86325	4.18113
11:02:46				559	9.52738	0.5121352	4.1331	1.51404	8.49817	4.0143
11:02:47				560	9.46218	0.505081	3.838	1.4652	7.86325	3.96249
11:02:47				561	9.3686	0.4834382	3.4445	1.4652	8.35165	3.79146
11:02:48				562	9.30415	0.4581101	3.0509	1.51404	8.84005	3.58648
11:02:48				563	9.27489	0.4593928	2.6574	1.4652	9.71917	3.60014
11:02:49				564	9.27001	0.44673	2.4606	1.51404	9.62149	3.49497
11:02:49				565	9.26806	0.441441	2.2639	1.51404	9.96337	3.4511
11:02:50				566	9.25337	0.4209269	1.9687	1.4652	10.20757	3.28193
11:02:50				567	9.2397	0.4204471	1.772	1.51404	10.50061	3.2792
11:02:51				568	9.22897	0.4140371	1.5752	1.51404	10.40293	3.22699
11:02:51				569	9.21627	0.4105119	1.2801	1.4652	10.79365	3.1989
11:02:52				570	9.21335	0.4042614	1.0833	1.51404	10.64713	3.14736

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:52				571	9.21139	0.4116326	0.9849	1.51404	10.74481	3.20864
11:02:53				572	9.20743	0.4084283	0.9849	1.51404	11.33089	3.18242
11:02:53				573	9.2084	0.4050626	0.9849	1.51404	11.42857	3.15444
11:02:54				574	9.20254	0.4041015	0.9849	1.51404	11.77045	3.14699
11:02:54				575	9.20254	0.4018587	0.9849	1.4652	11.13553	3.12841
11:02:55				576	9.20547	0.361485	0.8865	1.4652	10.50061	2.79512
11:02:55				577	9.19668	0.3313733	0.7881	1.4652	11.42857	2.54919
11:02:56				578	9.19278	0.3321733	0.6898	1.56288	11.81929	2.556
11:02:56				579	9.21237	0.3430642	0.5914	1.41636	12.30769	2.6436
11:02:57				580	9.25727	0.3787862	0.5914	1.51404	12.45421	2.93329
11:02:57				581	9.28075	0.3957694	0.5914	3.85836	5.81197	3.07133
11:02:58				582	9.32176	0.4010574	0.6898	1.4652	3.1746	3.11145
11:02:58				583	9.35496	0.4033006	0.6898	1.4652	2.73504	3.12708
11:02:59				584	9.37834	0.0620963	0.6898	1.4652	2.53968	0.43717
11:02:59				585	9.39782	0.0475543	0.6898	1.51404	2.442	0.3313
11:03:00				586	9.42124	0.0376471	0.6898	0	0	0.26005
11:03:00	11:01:45 switch off			587	9.44655	0.0304564	0.6898	0	0	0.2089
11:06:43	11:05:19 switch on	15	270	7	9.18759	0.3225865	1.3784	0	0	2.47813
11:06:44				8	9.18954	0.322426	1.3784	0	0	2.47669
11:06:44				9	9.18856	0.3193831	1.3784	0	0	2.45197
11:06:45				10	9.18759	0.3216253	1.3784	0	0	2.4703
11:06:45				11	9.19247	0.3225865	1.3784	0	0	2.4778
11:06:46				12	9.18954	0.3225865	1.3784	0	0	2.478
11:06:46				13	9.19247	0.3237074	1.3784	0	0	2.48693
11:06:47				14	9.19345	0.3233862	1.3784	0	0	2.48425
11:06:47				15	9.19638	0.3235468	1.3784	0	0	2.48535
11:06:48				16	9.19345	0.3264301	1.3784	0	0	2.50906
11:06:48				17	9.19735	0.3288324	1.3784	0	0	2.52838
11:06:49				18	9.19931	0.3278716	1.3784	0	0	2.52041
11:06:49				19	9.19638	0.3289921	1.3784	0	0	2.52975
11:06:50				20	9.19735	0.3294728	1.3784	0	0	2.53361
11:06:50				21	9.1954	0.3329963	1.3784	0	0	2.56251
11:06:51				22	9.19833	0.3355593	1.3784	0	0	2.58323
11:06:51				23	9.20126	0.3296326	1.3784	0	0	2.53463
11:06:52				24	9.20321	0.3387638	1.3784	0	0	2.60907
11:06:52				25	9.20224	0.3408462	1.3784	0	0	2.62617
11:06:53				26	9.20523	0.3416469	1.3784	0	0	2.6325
11:06:53				27	9.20621	0.33524	1.3784	0	0	2.58006
11:06:54				28	9.20523	0.3416469	1.2801	0	0	2.6325
11:06:54				29	9.20816	0.3398851	1.3784	0	0	2.61788
11:06:55				30	9.20816	0.3392432	1.3784	0	0	2.61263
11:06:55				31	9.20028	0.3395648	1.3784	0	0	2.61583
11:06:56				32	9.20224	0.3374812	1.3784	0	0	2.59865
11:06:56				33	9.20224	0.3378025	1.3784	0	0	2.60128
11:06:57				34	9.19638	0.3379617	1.3784	0	0	2.60301

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:57				35	9.19833	0.3376418	1.3784	0	0	2.60025
11:06:58				36	9.19638	0.3363602	1.3784	0	0	2.58992
11:06:58				37	9.20028	0.3373221	1.3784	0	0	2.5975
11:06:59				38	9.19833	0.3357198	1.3784	0	0	2.58454
11:06:59				39	9.19638	0.3350797	1.3784	0	0	2.57945
11:07:00				40	9.19442	0.3344383	1.3784	0	0	2.57435
11:07:00				41	9.19833	0.3334768	1.3784	0	0	2.56622
11:07:01				42	9.19638	0.3345986	1.3784	0	0	2.57552
11:07:01				43	9.20028	0.3337972	1.3784	0	0	2.5687
11:07:02				44	9.20126	0.3329963	1.3784	0	0	2.56209
11:07:02				45	9.20126	0.3334768	1.3784	0	0	2.56601
11:07:03				46	9.20126	0.3344383	1.3784	0	0	2.57386
11:07:03				47	9.20028	0.3339575	1.3784	0	0	2.57001
11:07:04				48	9.19735	0.3334768	1.3784	0	0	2.56629
11:07:04				49	9.19442	0.333637	1.3784	0	0	2.56781
11:07:05				50	9.19833	0.3333166	1.3784	0	0	2.56491
11:07:05				51	9.19638	0.3329963	1.3784	0	0	2.56244
11:07:06				52	9.19247	0.3331565	1.3784	0	0	2.56402
11:07:06				53	9.19735	0.333637	1.3784	0	0	2.5676
11:07:07				54	9.19638	0.333637	1.3784	0	0	2.56767
11:07:07				55	9.19345	0.3254694	1.2801	0	0	2.50123
11:07:08				56	9.18856	0.3302734	1.2801	0	0	2.54076
11:07:08				57	9.18856	0.3305946	1.3784	0	0	2.54338
11:07:09				58	9.18954	0.328352	1.3784	0	0	2.52501
11:07:09				59	9.18759	0.3230666	1.3784	0	0	2.48205
11:07:10				60	9.18856	0.3297939	1.3784	0	0	2.53685
11:07:10				61	9.18563	0.3257895	1.3784	0	0	2.50438
11:07:11				62	9.18563	0.3246685	1.3784	0	0	2.49524
11:07:11				63	9.18759	0.3249885	1.3784	0	0	2.49771
11:07:12				64	9.18661	0.32691	1.3784	0	0	2.51345
11:07:12				65	9.18563	0.3272304	1.3784	0	0	2.51613
11:07:13				66	9.18563	0.3246685	1.3784	0	0	2.49524
11:07:13				67	9.18368	0.3245078	1.3784	0	0	2.49406
11:07:14				68	9.18856	0.3277106	1.3784	0	0	2.51984
11:07:14				69	9.18954	0.3246685	1.3784	0	0	2.49497
11:07:15				70	9.18563	0.3240272	1.3784	0	0	2.49001
11:07:15				71	9.18466	0.327551	1.3784	0	0	2.51882
11:07:16				72	9.18466	0.3251478	1.3784	0	0	2.49921
11:07:16				73	9.18759	0.3227455	1.3784	0	0	2.47943
11:07:17				74	9.18563	0.3253086	1.3784	0	0	2.50046
11:07:17				75	9.18661	0.3256287	1.3784	0	0	2.503
11:07:18				76	9.18856	0.3237074	1.3784	0	0	2.4872
11:07:18				77	9.19149	0.3254694	1.4768	0	0	2.50136
11:07:19				78	9.19149	0.3238666	1.4768	0	0	2.48829
11:07:19				79	9.18954	0.3230666	1.4768	0	0	2.48191
11:07:20				80	9.18954	0.3251478	1.3784	0	0	2.49888

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:20				81	9.19247	0.3245078	1.4768	0	0	2.49345
11:07:21				82	9.18954	0.3235468	1.4768	0	0	2.48582
11:07:21				83	9.19052	0.3230666	1.4768	0	0	2.48184
11:07:22				84	9.19052	0.3251478	1.4768	0	0	2.4988
11:07:22				85	9.19442	0.3238666	1.4768	0	0	2.48809
11:07:23				86	9.1954	0.3225865	1.4768	0	0	2.47759
11:07:23				87	9.19247	0.3246685	1.4768	0	0	2.49476
11:07:24				88	9.19442	0.3249885	1.4768	0	0	2.49723
11:07:24				89	9.19247	0.3233862	1.4768	0	0	2.48431
11:07:25				90	9.19052	0.3233862	1.4768	0	0	2.48444
11:07:25				91	9.19345	0.3254694	1.4768	0	0	2.50122
11:07:26				92	9.19149	0.3237074	1.4768	0	0	2.48699
11:07:26				93	9.19052	0.320184	1.4768	0	0	2.45836
11:07:27				94	9.19345	0.3253086	1.4768	0	0	2.49991
11:07:27				95	9.19052	0.3217857	1.4768	0	0	2.4714
11:07:28				96	9.19149	0.3155389	1.4768	0.63492	0.29304	2.42048
11:07:28				97	9.18661	0.3163392	1.4768	0.39072	0.14652	2.42732
11:07:29				98	9.18856	0.3161794	1.4768	1.51404	0.9768	2.42589
11:07:29				99	9.19052	0.3142573	1.4768	1.4652	11.57509	2.41012
11:07:30				100	9.18954	0.3126566	1.4768	1.4652	12.89377	2.39717
11:07:30				101	9.18661	0.3120147	1.4768	1.4652	12.99145	2.39215
11:07:31				102	9.18954	0.3129769	1.4768	1.4652	11.86813	2.39978
11:07:31				103	9.18661	0.3147376	1.4768	1.51404	11.72161	2.41429
11:07:32				104	9.18661	0.3139367	1.4768	1.4652	12.84493	2.40778
11:07:32				105	9.18759	0.3129769	1.4768	1.41636	12.35653	2.39991
11:07:33				106	9.18661	0.3123363	1.4768	1.51404	11.67277	2.39477
11:07:33				107	9.18759	0.3124957	1.4768	1.51404	11.62393	2.396
11:07:34				108	9.18759	0.312816	1.3784	1.4652	11.42857	2.3986
11:07:34				109	9.18759	0.3121755	1.4768	1.4652	11.18437	2.39339
11:07:35				110	9.18661	0.3126566	1.4768	1.4652	11.81929	2.39737
11:07:35				111	9.18954	0.3126566	1.4768	1.51404	12.64957	2.39717
11:07:36				112	9.18954	0.3121755	1.3784	1.51404	11.77045	2.39327
11:07:36				113	9.18759	0.3123363	1.4768	1.4652	12.69841	2.3947
11:07:37				114	9.18466	0.3120147	1.4768	1.4652	12.40537	2.39228
11:07:37				115	9.18856	0.3147376	1.4768	1.41636	11.72161	2.41416
11:07:38				116	9.18759	0.3129769	1.4768	1.51404	12.25885	2.39991
11:07:38				117	9.18856	0.3118554	1.4768	1.4652	11.86813	2.39073
11:07:39				118	9.19052	0.3136162	1.4768	1.4652	11.77045	2.40491
11:07:39				119	9.18563	0.3166603	1.4768	1.51404	13.57753	2.43
11:07:40				120	9.18173	0.3121755	1.4768	1.4652	12.45421	2.39378
11:07:40				121	9.18466	0.3099332	1.4768	1.51404	11.91697	2.37536
11:07:41				122	9.18856	0.3116946	1.4768	1.4652	12.40537	2.38942
11:07:41				123	9.18661	0.3124957	1.4768	1.51404	12.06349	2.39606
11:07:42				124	9.18856	0.3120147	1.4768	1.4652	12.21001	2.39202
11:07:43				127	9.18563	0.3244869	1.4768	1.51404	11.72161	2.49375
11:07:44				128	9.18368	0.3159989	1.4768	1.4652	11.37973	2.42475

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:44				129	9.1827	0.3198414	1.4768	1.4652	10.94017	2.4561
11:07:45				130	9.1827	0.3126359	1.4768	1.4652	11.47741	2.39746
11:07:45				131	9.18368	0.3153585	1.4768	1.4652	11.96581	2.41954
11:07:46				132	9.18368	0.3184004	1.4768	1.4652	11.37973	2.4443
11:07:46				133	9.1827	0.3139161	1.4768	1.4652	11.96581	2.40787
11:07:47				134	9.18368	0.3176004	1.4768	1.51404	12.55189	2.43779
11:07:47				135	9.18075	0.3206425	1.4768	1.4652	11.47741	2.46276
11:07:48				136	9.18075	0.3214427	1.4768	1.51404	11.67277	2.46928
11:07:48				137	9.18173	0.3227247	1.3784	1.51404	12.84493	2.47966
11:07:49				138	9.18075	0.3216031	1.4768	1.4652	12.45421	2.47059
11:07:49				139	9.18368	0.3220843	1.4768	1.51404	12.35653	2.47431
11:07:50				140	9.17874	0.3212838	1.4768	1.4652	11.33089	2.46812
11:07:50				141	9.17776	0.3171192	1.4768	1.4652	11.47741	2.43427
11:07:51				142	9.17874	0.3167994	1.4768	1.51404	12.01465	2.4316
11:07:51				143	9.18368	0.3172791	1.4768	1.4652	11.37973	2.43517
11:07:52				144	9.18075	0.3196812	1.4768	1.4652	10.98901	2.45493
11:07:52				145	9.18075	0.3180803	1.4768	1.51404	10.98901	2.44189
11:07:53				146	9.18173	0.3216031	1.4768	1.4652	12.25885	2.47052
11:07:53				147	9.18368	0.3214427	1.4768	1.4652	11.72161	2.46908
11:07:54				148	9.18368	0.319521	1.4768	1.4652	12.01465	2.45342
11:07:54				149	9.18173	0.320322	1.4768	1.4652	12.01465	2.46008
11:07:55				150	9.18173	0.320322	1.4768	1.4652	12.16117	2.46008
11:07:55				151	9.18173	0.3201618	1.4768	1.4652	11.72161	2.45878
11:07:56				152	9.1827	0.319521	1.4768	1.51404	11.96581	2.45349
11:07:56				153	9.18368	0.3193609	1.4768	1.51404	11.96581	2.45212
11:07:57				154	9.18075	0.3192007	1.4768	1.4652	11.42857	2.45102
11:07:57				155	9.18368	0.3219239	1.4768	1.51404	12.25885	2.473
11:07:58				156	9.18466	0.3196812	1.4768	1.51404	11.52625	2.45466
11:07:58				157	9.18466	0.3201618	1.4768	1.4652	11.72161	2.45858
11:07:59				158	9.18466	0.3217635	1.4768	1.4652	11.96581	2.47162
11:07:59				159	9.1827	0.3224037	1.4768	1.4652	11.86813	2.47698
11:08:00				160	9.18466	0.3251269	1.4768	1.51404	11.42857	2.49904
11:08:00				161	9.18563	0.32817	1.4768	1.4652	11.72161	2.52379
11:08:01				162	9.18466	0.3268891	1.4768	1.4652	11.42857	2.51341
11:08:01				163	9.18856	0.3268891	1.4768	1.4652	12.11233	2.51314
11:08:02				164	9.18856	0.3289713	1.4768	1.4652	11.57509	2.53013
11:08:02				165	9.19052	0.3257672	1.3784	1.51404	11.18437	2.50386
11:08:03	11:06:39 start transect	15	270	166	9.19149	0.3283296	1.4768	1.51404	11.13553	2.52469
11:08:03				167	9.19345	0.3302525	1.4768	1.4652	12.21001	2.54024
11:08:04				168	9.1954	0.3265687	1.4768	1.4652	11.57509	2.51005
11:08:04				169	9.19638	0.3372995	1.4768	1.4652	11.52625	2.59759
11:08:05				170	9.19833	0.3358577	1.4768	1.51404	12.11233	2.58567
11:08:05				171	9.20028	0.3267281	1.4768	1.51404	11.52625	2.51101
11:08:06				172	9.18466	0.3300911	1.4768	1.51404	11.77045	2.53954
11:08:06				173	9.1758	0.3264078	1.4768	1.51404	11.96581	2.51011
11:08:07				174	9.17483	0.3312134	1.4768	1.51404	11.62393	2.5494

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:07				175	9.17092	0.3361787	1.3784	1.51404	11.96581	2.59027
11:08:08				176	9.17287	0.3321734	1.4768	1.4652	11.81929	2.55738
11:08:08				177	9.17287	0.3307321	1.4768	1.4652	11.47741	2.54561
11:08:09				178	9.17385	0.3401829	1.3784	1.4652	11.47741	2.62281
11:08:09				179	9.17776	0.359083	1.4768	1.4652	11.86813	2.77751
11:08:10				180	9.18954	0.3558805	1.4768	1.4652	11.67277	2.7503
11:08:10				181	9.19052	0.3518752	1.4768	1.51404	11.86813	2.71737
11:08:11				182	9.19638	0.3557194	1.4768	1.4652	11.91697	2.74846
11:08:11				183	9.20224	0.3626081	1.4768	1.51404	11.81929	2.80458
11:08:12				184	9.20614	0.3627684	1.4768	1.51404	11.52625	2.80559
11:08:12				185	9.21005	0.3578027	1.4768	1.4652	11.52625	2.76451
11:08:13				186	9.2081	0.3473907	1.4768	1.4652	11.57509	2.67929
11:08:13				187	9.19833	0.3438661	1.4768	1.51404	11.28205	2.65116
11:08:14				188	9.19735	0.3422643	1.4768	1.4652	11.52625	2.63812
11:08:14				189	9.19345	0.3416244	1.4768	1.51404	11.42857	2.63317
11:08:15				190	9.19149	0.3531565	1.3784	1.4652	11.67277	2.72781
11:08:15				191	9.19345	0.3454681	1.4768	1.51404	11.62393	2.66464
11:08:16				192	9.19442	0.3441873	1.4768	1.4652	11.52625	2.65408
11:08:16				193	9.19345	0.3425851	1.4768	1.4652	11.03785	2.64104
11:08:17				194	9.18466	0.3409832	1.4768	1.4652	11.33089	2.62857
11:08:17				195	9.17874	0.3408222	1.4768	1.51404	11.47741	2.62769
11:08:18				196	9.17977	0.3406627	1.4768	1.4652	11.42857	2.6263
11:08:18				197	9.18368	0.3419436	1.4768	1.51404	11.52625	2.6365
11:08:19				198	9.17977	0.3411427	1.4768	1.4652	11.77045	2.63023
11:08:19				199	9.17977	0.3433853	1.4768	1.4652	11.67277	2.64859
11:08:20				200	9.17874	0.3451482	1.4768	1.4652	11.47741	2.66311
11:08:20				201	9.17678	0.3411427	1.3784	1.4652	11.37973	2.63046
11:08:21				202	9.17287	0.3409832	1.4768	1.4652	12.01465	2.62943
11:08:21				203	9.17678	0.3510736	1.4768	1.51404	11.77045	2.71183
11:08:22				204	9.1827	0.3525165	1.4768	1.4652	12.01465	2.72322
11:08:22				205	9.19052	0.3537968	1.4768	1.51404	11.47741	2.73313
11:08:23				206	9.19052	0.3501134	1.3784	1.51404	11.37973	2.70292
11:08:23				207	9.19247	0.3473907	1.4768	1.51404	11.62393	2.68046
11:08:24				208	9.18759	0.3361787	1.4768	1.51404	11.77045	2.58906
11:08:24				209	9.18563	0.3361787	1.4768	1.51404	11.33089	2.5892
11:08:25				210	9.17874	0.3251269	1.4768	1.4652	11.86813	2.49945
11:08:25				211	9.17287	0.3240064	1.4768	1.4652	12.16117	2.49072
11:08:26				212	9.17092	0.3187205	1.4768	1.4652	11.96581	2.44777
11:08:26				213	9.16603	0.3151974	1.4768	1.4652	12.01465	2.41942
11:08:27				214	9.16506	0.3124751	1.4768	1.51404	12.55189	2.39733
11:08:27				215	9.15822	0.3134361	1.4768	1.51404	11.81929	2.40561
11:08:28				216	9.15626	0.3145573	1.4768	1.4652	11.77045	2.41487
11:08:28				217	9.15822	0.3139161	1.4768	1.41636	12.21001	2.40951
11:08:29				218	9.15626	0.3139161	1.4768	1.4652	12.01465	2.40965
11:08:29				219	9.15431	0.3142367	1.4768	1.4652	12.01465	2.41239
11:08:30				220	9.15626	0.3108734	1.4768	1.51404	12.06349	2.38489

Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:30				221	9.15626	0.3097536	1.4768	1.4652	11.96581	2.37578
11:08:31				222	9.15235	0.3071901	1.4768	1.4652	11.86813	2.3552
11:08:31				223	9.14649	0.3060702	1.4768	1.4652	12.35653	2.34648
11:08:32				224	9.13574	0.3051083	1.3784	1.4652	12.30769	2.33937
11:08:32				225	9.13574	0.3049483	1.4768	1.51404	12.79609	2.33806
11:08:33				226	9.13476	0.3047883	1.4768	1.51404	12.40537	2.33683
11:08:33				227	9.13177	0.3047883	1.4768	1.51404	12.45421	2.33702
11:08:34				228	9.13372	0.3038273	1.3784	1.4652	12.45421	2.32909
11:08:34				229	9.13476	0.3129563	1.4768	1.51404	12.55189	2.40327
11:08:35				230	9.13177	0.3068711	1.4768	1.4652	12.64957	2.35395
11:08:35				231	9.13574	0.3071901	1.4768	1.4652	12.50305	2.35629
11:08:36				232	9.13671	0.3209632	1.4768	1.41636	12.50305	2.4684
11:08:36				233	9.13574	0.3062304	1.4768	1.4652	12.35653	2.34848
11:08:37				234	9.13372	0.3070299	1.4768	1.4652	12.11233	2.35512
11:08:37				235	9.13574	0.3068711	1.4768	1.4652	12.21001	2.35369
11:08:38				236	9.13476	0.3063905	1.4768	1.4652	12.64957	2.34985
11:08:38				237	9.13476	0.3052698	1.4768	1.51404	12.25885	2.34074
11:08:39				238	9.13574	0.3052698	1.4768	1.51404	12.06349	2.34068
11:08:39				239	9.13476	0.3059101	1.4768	1.4652	12.30769	2.34594
11:08:40				240	9.13671	0.3046283	1.4768	1.4652	12.40537	2.3354
11:08:40				241	9.1416	0.3052698	1.4768	1.51404	12.25885	2.34029
11:08:41				242	9.14062	0.3060702	1.4768	1.4652	12.40537	2.34686
11:08:41				243	9.1416	0.3070299	1.4768	1.41636	12.21001	2.3546
11:08:42				244	9.1416	0.3068711	1.4768	1.4652	12.11233	2.35331
11:08:43				247	9.14295	0.3078357	1.4768	1.51404	12.06349	2.36106
11:08:44				248	9.1449	0.3083168	1.4768	1.51404	12.16117	2.36485
11:08:44				249	9.14191	0.3086361	1.3784	1.51404	12.25885	2.36764
11:08:45				250	9.14295	0.3092764	1.4768	1.51404	12.21001	2.37278
11:08:45				251	9.14392	0.309758	1.4768	1.4652	12.01465	2.37663
11:08:46				252	9.14191	0.3100776	1.4768	1.4652	11.77045	2.37937
11:08:46				253	9.1449	0.310558	1.4768	1.4652	12.01465	2.38308
11:08:47				254	9.14588	0.310558	1.4768	1.4652	12.45421	2.38301
11:08:47				255	9.14588	0.3107186	1.4768	1.4652	12.01465	2.38432
11:08:48				256	9.14979	0.3107186	1.4768	1.51404	12.16117	2.38406
11:08:48				257	9.14783	0.3107186	1.4768	1.4652	11.52625	2.38419
11:08:49				258	9.14783	0.3107186	1.4768	1.4652	11.81929	2.38419
11:08:49				259	9.14979	0.3111992	1.4768	1.4652	11.62393	2.38797
11:08:50				260	9.14588	0.3110385	1.4768	1.4652	11.86813	2.38692
11:08:50				261	9.1449	0.3111992	1.4768	1.4652	12.01465	2.38829
11:08:51				262	9.14686	0.3110385	1.4768	1.51404	12.35653	2.38686
11:08:51				263	9.14392	0.3111992	1.4768	1.4652	12.01465	2.38836
11:08:52				264	9.1449	0.3113584	1.4768	1.51404	12.60073	2.38959
11:08:52				265	9.14392	0.3113584	1.3784	1.4652	11.91697	2.38966
11:08:53				266	9.14588	0.3123202	1.4768	1.4652	11.67277	2.39735
11:08:53				267	9.1449	0.3134405	1.3784	1.51404	12.11233	2.40654
11:08:54				268	9.14686	0.3110385	1.4768	1.4652	11.86813	2.38686

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:54				269	9.14783	0.3121593	1.4768	1.51404	11.91697	2.39591
11:08:55				270	9.14686	0.3118392	1.4768	1.4652	11.81929	2.39337
11:08:55				271	9.14881	0.3111992	1.4768	1.51404	12.06349	2.38803
11:08:56				272	9.14783	0.3107186	1.4768	1.4652	12.06349	2.38419
11:08:56				273	9.15174	0.3115192	1.4768	1.51404	12.40537	2.39044
11:08:57				274	9.15174	0.3116784	1.4768	1.51404	11.91697	2.39174
11:08:57				275	9.14979	0.3115192	1.4768	1.4652	11.77045	2.39057
11:08:58				276	9.15076	0.3121593	1.4768	1.51404	12.06349	2.39572
11:08:58				277	9.14979	0.3144007	1.4768	1.4652	11.86813	2.41403
11:08:59				278	9.14881	0.3118392	1.4768	1.51404	11.72161	2.39324
11:08:59				279	9.15076	0.3123202	1.4768	1.4652	11.81929	2.39702
11:09:00				280	9.15272	0.3171237	1.3784	1.51404	12.11233	2.43601
11:09:00				281	9.14979	0.3140815	1.3784	1.4652	11.81929	2.41143
11:09:01				282	9.15174	0.3136	1.4768	1.4652	12.16117	2.40738
11:09:01				283	9.15174	0.3145618	1.4768	1.4652	11.96581	2.41521
11:09:02				284	9.15272	0.3123202	1.4768	1.4652	11.86813	2.39689
11:09:02				285	9.15174	0.3131201	1.3784	1.51404	11.96581	2.40347
11:09:03				286	9.15076	0.3119985	1.4768	1.51404	11.91697	2.39441
11:09:03				287	9.15076	0.3139205	1.4768	1.4652	12.01465	2.41005
11:09:04				288	9.1537	0.3127998	1.4768	1.4652	12.21001	2.40073
11:09:04				289	9.15467	0.3127998	1.4768	1.51404	11.96581	2.40067
11:09:05				290	9.1537	0.3124795	1.3784	1.4652	11.96581	2.39813
11:09:05				291	9.15565	0.3123201	1.4768	1.4652	12.30769	2.3967
11:09:06				292	9.15467	0.3123201	1.4768	1.4652	11.67277	2.39676
11:09:06				293	9.15272	0.3127998	1.4768	1.51404	12.55189	2.4008
11:09:07				294	9.15467	0.3126404	1.3784	1.4652	11.91697	2.39937
11:09:07				295	9.15565	0.3126404	1.4768	1.51404	11.72161	2.3993
11:09:08				296	9.15565	0.3129607	1.4768	1.4652	11.77045	2.40191
11:09:08				297	9.15467	0.3136	1.4768	1.51404	11.86813	2.40718
11:09:09				298	9.1537	0.3134405	1.3784	1.51404	11.72161	2.40595
11:09:09				299	9.15663	0.3139205	1.4768	1.4652	12.01465	2.40966
11:09:10				300	9.15565	0.3156824	1.4768	1.4652	12.21001	2.42407
11:09:10				301	9.15565	0.3156824	1.4768	1.4652	11.86813	2.42407
11:09:11				302	9.15663	0.3150421	1.4768	1.51404	11.91697	2.41879
11:09:11				303	9.15761	0.3230488	1.3784	1.51404	11.57509	2.48397
11:09:12				304	9.15761	0.3174435	1.4768	1.51404	12.50305	2.43828
11:09:12				305	9.1537	0.3238502	1.4768	1.4652	11.62393	2.49078
11:09:13				306	9.15467	0.3312179	1.4768	1.4652	11.96581	2.55087
11:09:13				307	9.15467	0.3267326	1.4768	1.4652	11.91697	2.51423
11:09:14				308	9.16054	0.3241701	1.4768	1.51404	11.91697	2.49291
11:09:14				309	9.15858	0.3228897	1.4768	1.4652	11.86813	2.4826
11:09:15				310	9.15956	0.3209676	1.4768	1.4652	11.81929	2.46686
11:09:15				311	9.16054	0.3376238	1.3784	1.4652	11.81929	2.60284
11:09:16				312	9.16249	0.3414678	1.4768	1.4652	11.91697	2.63416
11:09:16				313	9.15956	0.3470734	1.4768	1.51404	11.86813	2.68031
11:09:17				314	9.16151	0.3345807	1.4768	1.4652	11.86813	2.57787

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:09:17				315	9.16347	0.3438707	1.4768	1.51404	11.91697	2.65377
11:09:18				316	9.17812	0.3417885	1.4768	1.4652	11.67277	2.63564
11:09:18				317	9.17324	0.3366633	1.4768	1.4652	11.57509	2.59406
11:09:19				318	9.17129	0.3437109	1.4768	1.51404	11.77045	2.65189
11:09:19				319	9.17519	0.3483552	1.4768	1.4652	12.11233	2.68966
11:09:20				320	9.17617	0.3437108	1.4768	1.51404	12.25885	2.65152
11:09:20				321	9.18203	0.3470734	1.4768	1.4652	11.57509	2.67864
11:09:21				322	9.18496	0.3446714	1.4768	1.51404	11.91697	2.65874
11:09:21				323	9.19088	0.3480346	1.4768	1.51404	11.77045	2.68585
11:09:22				324	9.18893	0.3443502	1.4768	1.4652	11.67277	2.65582
11:09:22				325	9.18496	0.3509175	1.4768	1.51404	11.67277	2.70993
11:09:23				326	9.18301	0.3469132	1.4768	1.4652	11.23321	2.67725
11:09:23				327	9.18008	0.3499575	1.4768	1.4652	11.57509	2.70243
11:09:24				328	9.18301	0.3526803	1.3784	1.51404	11.81929	2.72454
11:09:24				329	9.19186	0.3536405	1.4768	1.4652	11.52625	2.73175
11:09:25				330	9.19381	0.3504374	1.4768	1.51404	11.62393	2.70533
11:09:25				331	9.18893	0.3518797	1.4768	1.4652	11.47741	2.71752
11:09:26				332	9.18789	0.350598	1.4768	1.4652	12.21001	2.70709
11:09:26				333	9.18008	0.3461128	1.3784	1.51404	11.72161	2.67092
11:09:27	11:08:03 @ 6:00	15	180	334	9.18301	0.3483552	1.3784	1.4652	11.47741	2.68907
11:09:27				335	9.18496	0.3486758	1.4768	1.51404	12.11233	2.69155
11:09:28				336	9.18496	0.3406672	1.4768	1.4652	11.81929	2.62596
11:09:28				337	9.17422	0.3453112	1.4768	1.4652	11.23321	2.66478
11:09:29				338	9.17422	0.3422688	1.3784	1.51404	11.57509	2.63986
11:09:29				339	9.17519	0.3397062	1.4768	1.51404	11.37973	2.61881
11:09:30				340	9.17812	0.3485155	1.4768	1.4652	11.72161	2.69075
11:09:30				341	9.18496	0.3390658	1.4768	1.4652	11.62393	2.61286
11:09:31				342	9.17422	0.3337793	1.4768	1.51404	11.81929	2.57041
11:09:31				343	9.17031	0.3427494	1.4768	1.4652	11.42857	2.64408
11:09:32				344	9.18008	0.3461128	1.4768	1.51404	11.77045	2.67091
11:09:32				345	9.18106	0.3365027	1.4768	1.4652	11.77045	2.59218
11:09:33				346	9.17324	0.3252907	1.4768	1.4652	11.81929	2.50117
11:09:33				347	9.16738	0.3268936	1.4768	1.51404	11.81929	2.51466
11:09:34				348	9.1664	0.3225687	1.4768	1.4652	11.62393	2.47945
11:09:34				349	9.16738	0.3240109	1.4768	1.4652	11.67277	2.49114
11:09:35				350	9.16738	0.3211279	1.4768	1.51404	11.96581	2.46763
11:09:35				351	9.16445	0.3262528	1.4768	1.4652	12.01465	2.50963
11:09:36				352	9.16542	0.3390659	1.3784	1.51404	11.96581	2.61429
11:09:36				353	9.17519	0.3377845	1.4768	1.51404	11.96581	2.60309
11:09:37				354	9.17617	0.335381	1.4768	1.4652	11.72161	2.58336
11:09:37				355	9.1791	0.3392252	1.4768	1.4652	11.62393	2.61459
11:09:38				356	9.18203	0.3406672	1.4768	1.51404	11.86813	2.62618
11:09:38				357	9.17812	0.3451512	1.4768	1.51404	11.67277	2.66318
11:09:39				358	9.17324	0.3493158	1.4768	1.4652	11.52625	2.69768
11:09:39				359	9.18301	0.3634128	1.4768	1.4652	12.01465	2.8127
11:09:40				360	9.20065	0.3638939	1.4768	1.4652	11.81929	2.81527

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:09:40				361	9.20846	0.3586063	1.4768	1.4652	12.45421	2.77123
11:09:41				362	9.20553	0.3598888	1.4768	1.4652	11.77045	2.78198
11:09:41				363	9.22799	0.3618115	1.4768	1.4652	11.72161	2.79603
11:09:42				364	9.21725	0.354442	1.4768	1.4652	11.42857	2.73639
11:09:43				367	9.22634	0.359089	1.4768	1.4652	11.47741	2.77381
11:09:44				368	9.19992	0.3514008	1.4768	1.4652	11.57509	2.71277
11:09:44				369	9.18918	0.3539638	1.4768	1.51404	12.30769	2.7346
11:09:45				370	9.21756	0.3578088	1.4768	1.51404	12.11233	2.76398
11:09:45				371	9.23122	0.3562057	1.4768	1.4652	11.42857	2.74978
11:09:46				372	9.23122	0.3616528	1.4768	1.4652	11.42857	2.79447
11:09:46				373	9.23903	0.3648567	1.4768	1.51404	11.33089	2.82017
11:09:47				374	9.24879	0.3683813	1.4768	1.4652	12.06349	2.84835
11:09:47				375	9.24391	0.3669387	1.4768	1.41636	11.42857	2.83689
11:09:48				376	9.23513	0.369022	1.4768	1.51404	11.57509	2.8547
11:09:48				377	9.25861	0.3666187	1.4768	1.51404	11.28205	2.8331
11:09:49				378	9.23806	0.3650172	1.4768	1.4652	10.89133	2.82156
11:09:49				379	9.23708	0.3626142	1.4768	1.4652	11.28205	2.80191
11:09:50				380	9.24196	0.354284	1.4768	1.4652	10.84249	2.73321
11:09:50				381	9.22049	0.3525225	1.4768	1.51404	11.28205	2.72041
11:09:51				382	9.22049	0.3650172	1.4768	1.4652	11.86813	2.82294
11:09:51				383	9.23025	0.3651762	1.3784	1.4652	11.67277	2.82349
11:09:52				384	9.23806	0.368861	1.4768	1.51404	10.98901	2.85315
11:09:52				385	9.24782	0.3651762	1.4768	1.4652	11.28205	2.8221
11:09:53				386	9.24879	0.3709438	1.4768	1.4652	11.37973	2.86941
11:09:53				387	9.24586	0.3746285	1.4768	1.4652	11.42857	2.89995
11:09:54				388	9.25276	0.3770318	1.4768	1.4652	11.37973	2.91917
11:09:54				389	9.29373	0.3735074	1.4768	1.51404	10.94017	2.88689
11:09:55				390	9.28203	0.3747885	1.4768	1.4652	11.28205	2.89835
11:09:55				391	9.27325	0.3687016	1.4768	1.4652	11.42857	2.84905
11:09:56				392	9.25666	0.3589291	1.4768	1.51404	11.47741	2.77016
11:09:56				393	9.24196	0.3765512	1.4768	1.4652	11.72161	2.91609
11:09:57				394	9.23318	0.3662989	1.4768	1.4652	11.42857	2.83248
11:09:57				395	9.22244	0.3595704	1.3784	1.4652	11.23321	2.77806
11:09:58				396	9.2283	0.3581283	1.4768	1.51404	11.62393	2.76578
11:09:58				397	9.23025	0.3533234	1.4768	1.51404	11.57509	2.72623
11:09:59				398	9.22439	0.3509205	1.4768	1.4652	11.13553	2.70698
11:09:59				399	9.22146	0.3565265	1.4768	1.4652	11.72161	2.75316
11:10:00				400	9.2156	0.3600503	1.4768	1.51404	11.91697	2.78253
11:10:00				401	9.21267	0.3493187	1.4768	1.51404	11.57509	2.69474
11:10:01				402	9.20389	0.3501194	1.3784	1.4652	11.57509	2.70197
11:10:01				403	9.2009	0.3616528	1.4768	1.4652	11.91697	2.79683
11:10:02				404	9.20389	0.3467561	1.4768	1.4652	11.42857	2.67441
11:10:02				405	9.19992	0.3467561	1.4768	1.51404	11.18437	2.67471
11:10:03				406	9.19406	0.34179	1.4768	1.4652	11.62393	2.63448
11:10:03				407	9.19308	0.3459542	1.4768	1.4652	11.77045	2.66865
11:10:04				408	9.19113	0.347557	1.4768	1.4652	11.86813	2.68192

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:04				409	9.19015	0.3472366	1.4768	1.51404	11.77045	2.67937
11:10:05				410	9.19015	0.3634143	1.4768	1.51404	11.62393	2.81215
11:10:05				411	9.19504	0.3530033	1.4768	1.4652	11.42857	2.72628
11:10:06				412	9.19113	0.3515615	1.4768	1.4652	12.11233	2.71475
11:10:06				413	9.19406	0.363254	1.4768	1.4652	11.91697	2.81052
11:10:07				414	9.2361	0.3784731	1.3784	1.51404	11.91697	2.9324
11:10:07				415	9.26056	0.3587692	1.4768	1.4652	11.47741	2.76855
11:10:08				416	9.22341	0.3669387	1.4768	1.51404	11.28205	2.83851
11:10:08				417	9.25471	0.376391	1.4768	1.4652	12.01465	2.91374
11:10:09				418	9.26056	0.3538028	1.4768	1.4652	11.62393	2.72786
11:10:09				419	9.22927	0.3366647	1.4768	1.51404	11.47741	2.59003
11:10:10				420	9.22732	0.3345821	1.4768	1.51404	11.23321	2.57317
11:10:10				421	9.22146	0.3331415	1.4768	1.4652	11.86813	2.56183
11:10:11				422	9.2117	0.3294579	1.4768	1.4652	11.37973	2.53247
11:10:11				423	9.20877	0.3254545	1.4768	1.4652	11.33089	2.50003
11:10:12				424	9.20486	0.3257746	1.4768	1.51404	11.52625	2.50292
11:10:12				425	9.19992	0.3220902	1.4768	1.51404	11.81929	2.47324
11:10:13				426	9.19211	0.3184078	1.4768	1.4652	11.23321	2.44379
11:10:13				427	9.18722	0.3124824	1.4768	1.51404	11.81929	2.39591
11:10:14				428	9.17843	0.3128027	1.4768	1.4652	12.01465	2.3991
11:10:14				429	9.19113	0.3254545	1.4768	1.4652	11.52625	2.50126
11:10:15				430	9.22439	0.3390673	1.3784	1.51404	11.72161	2.61001
11:10:15				431	9.25471	0.3344233	1.4768	1.51404	11.42857	2.56991
11:10:16				432	9.26056	0.3329813	1.4768	1.51404	11.57509	2.55774
11:10:16				433	9.25666	0.3291369	1.4768	1.4652	12.30769	2.52669
11:10:17				434	9.25081	0.3233713	1.4768	1.4652	12.25885	2.48016
11:10:17				435	9.24294	0.3267355	1.4768	2.39316	11.08669	2.50809
11:10:18				436	9.23806	0.3276956	1.4768	2.442	11.13553	2.51625
11:10:18				437	9.23708	0.327536	1.4768	1.4652	10.98901	2.51502
11:10:19				438	9.2361	0.3225716	1.5752	1.4652	11.37973	2.47466
11:10:19				439	9.2322	0.314244	1.4768	1.4652	12.06349	2.40722
11:10:20				440	9.20389	0.315845	1.5752	1.4652	11.86813	2.42213
11:10:20				441	9.19504	0.3153644	1.6736	1.51404	11.37973	2.41882
11:10:21				442	9.18918	0.3196886	1.772	1.51404	11.42857	2.4544
11:10:21				443	9.18918	0.3204897	1.772	1.51404	11.18437	2.46093
11:10:22				444	9.18527	0.3240124	1.772	1.4652	11.62393	2.4899
11:10:22				445	9.18331	0.3323409	1.8703	1.4652	10.98901	2.55799
11:10:23				446	9.18234	0.3373056	1.8703	1.4652	10.89133	2.59864
11:10:23				447	9.18429	0.3488377	1.8703	1.51404	12.11233	2.69291
11:10:24				448	9.19308	0.3664582	1.8703	1.51404	11.57509	2.83693
11:10:24				449	9.2322	0.3901695	1.9687	1.51404	11.03785	3.02915
11:10:25				450	9.26544	0.376391	1.9687	1.4652	11.23321	2.91285
11:10:25				451	9.2908	0.3935336	1.9687	1.4652	10.74481	3.05196
11:10:26				452	9.35429	0.4089154	2.0671	1.51404	11.03785	3.17342
11:10:26				453	9.4508	0.4121205	2.1655	1.4652	10.20757	3.19133
11:10:27				454	9.5374	0.4085961	2.2639	1.4652	9.42613	3.15471

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:27				455	9.5374	0.412281	2.3623	1.51404	9.32845	3.18499
11:10:28				456	9.46832	0.4140432	2.3623	1.51404	9.47497	3.20561
11:10:28				457	9.45178	0.4023469	2.4606	1.4652	9.42613	3.11076
11:10:29	11:09:05 end transect	15	135	458	9.42155	0.3858435	2.4606	1.4652	9.81685	2.97772
11:10:29				459	9.40305	0.3659775	2.4606	1.4652	10.30525	2.81647
11:10:30				460	9.39131	0.3624538	2.559	1.51404	10.59829	2.78857
11:10:30				461	9.35429	0.3544434	2.7558	1.51404	10.20757	2.72594
11:10:31				462	9.33864	0.3640558	2.7558	1.51404	10.45177	2.80576
11:10:31				463	9.35234	0.3688609	2.8542	1.51404	10.64713	2.84404
11:10:32				464	9.36988	0.377192	2.9526	1.51404	10.35409	2.91093
11:10:32				465	9.43031	0.3827986	3.0509	1.4652	10.35409	2.95199
11:10:33				466	9.43615	0.3861642	3.0509	1.4652	10.50061	2.97912
11:10:33				467	9.42836	0.3863239	3.0509	1.4652	9.96337	2.98107
11:10:34				468	9.42252	0.3972185	3.1493	1.4652	10.20757	3.07105
11:10:34				469	9.46151	0.4105179	3.1493	1.51404	10.35409	3.17713
11:10:35				470	9.47902	0.4028276	3.1493	1.51404	9.86569	3.11232
11:10:35				471	9.45956	0.4012248	3.1493	1.51404	9.86569	3.10082
11:10:36				472	9.45178	0.4101985	3.1493	1.4652	9.57265	3.17535
11:10:36				473	9.45859	0.4005834	3.2477	1.4652	10.15873	3.09563
11:10:37				474	9.44101	0.4025066	3.2477	1.4652	9.57265	3.11296
11:10:37				475	9.43809	0.3922526	3.2477	1.4652	9.76801	3.02892
11:10:38				476	9.43907	0.3962574	3.1493	1.4652	9.96337	3.06174
11:10:38				477	9.44004	0.3957771	3.2477	1.51404	9.81685	3.05771
11:10:39				478	9.43615	0.3920923	3.1493	1.51404	10.06105	3.02777
11:10:39				479	9.43031	0.3930524	3.2477	1.4652	9.67033	3.03614
11:10:40				480	9.43128	0.3906494	3.2477	1.51404	9.47497	3.01632
11:10:40				481	9.43031	0.3898492	3.2477	1.51404	9.86569	3.00983
11:10:41				482	9.43323	0.3908095	3.1493	1.4652	9.81685	3.01748
11:10:41				483	9.44594	0.3858434	3.1493	1.4652	9.62149	2.97567
11:10:42				484	9.44302	0.3864835	3.2477	1.51404	9.67033	2.98116
11:10:43				487	9.45622	0.3922463	3.2477	1.51404	10.10989	3.02734
11:10:44	10:09:20 start transect	15	135	488	9.47081	0.3908033	3.2477	1.51404	9.71917	3.01428
11:10:44				489	9.48546	0.3912836	3.2477	1.4652	10.10989	3.01699
11:10:45				490	9.49227	0.3885604	3.1493	1.4652	9.71917	2.99411
11:10:45				491	9.48643	0.3826331	3.1493	1.4652	9.96337	2.94605
11:10:46				492	9.45038	0.3787876	3.1493	1.4652	9.76801	2.91749
11:10:46				493	9.4182	0.3775063	3.1493	1.4652	9.71917	2.9096
11:10:47				494	9.40457	0.3821524	3.1493	1.51404	9.86569	2.9488
11:10:47				495	9.40944	0.3890417	3.0509	1.4652	10.20757	3.00495
11:10:48				496	9.42502	0.3826332	3.0509	1.51404	10.30525	2.95107
11:10:48				497	9.44454	0.3869579	3.0509	1.51404	9.86569	2.98493
11:10:49				498	9.44746	0.3762245	3.0509	1.51404	10.10989	2.89675
11:10:49				499	9.43578	0.3914454	3.0509	1.4652	10.10989	3.02249
11:10:50				500	9.44162	0.386158	3.0509	1.51404	9.81685	2.97861
11:10:50				501	9.45914	0.3810304	3.0509	1.51404	9.62149	2.93515
11:10:51				502	9.43183	0.4037816	3.0509	1.41636	9.47497	3.12426

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:51				503	9.44357	0.4055454	3.1493	1.4652	10.10989	3.13775
11:10:52				504	9.47664	0.4124355	3.1493	1.4652	9.76801	3.19159
11:10:52				505	9.48151	0.4156398	3.1493	1.4652	9.62149	3.21755
11:10:53				506	9.49615	0.4174023	3.1493	1.51404	9.23077	3.23076
11:10:53				507	9.50588	0.4212481	3.1493	1.51404	9.32845	3.26158
11:10:54				508	9.49907	0.4226916	3.1493	1.51404	9.13309	3.2741
11:10:54				509	9.49421	0.4249346	3.1493	1.51404	9.08425	3.29304
11:10:55				510	9.49227	0.4255761	3.1493	1.51404	9.23077	3.29851
11:10:55				511	9.47859	0.4278199	3.1493	1.51404	9.42613	3.31829
11:10:56				512	9.42794	0.4297419	3.1493	1.4652	9.81685	3.33886
11:10:56				513	9.38406	0.4299028	3.1493	1.4652	8.93773	3.34426
11:10:57				514	9.36458	0.4313459	3.1493	1.4652	9.08425	3.35803
11:10:57				515	9.32846	0.4319867	3.1493	1.4652	9.62149	3.36672
11:10:58				516	9.29239	0.4315054	3.1493	1.4652	9.86569	3.3661
11:10:58				517	9.29531	0.4108328	3.1493	1.4652	9.76801	3.19443
11:10:59				518	9.30702	0.4201274	3.2477	1.4652	9.47497	3.27034
11:10:59				519	9.34217	0.4228519	3.1493	1.4652	10.06105	3.28971
11:11:00				520	9.39289	0.4149992	3.1493	1.51404	9.81685	3.22018
11:11:00				521	9.38309	0.4159604	3.1493	1.51404	9.71917	3.229
11:11:01				522	9.38114	0.4266977	3.1493	1.51404	9.86569	3.31798
11:11:01				523	9.3753	0.4266977	3.1493	1.51404	9.47497	3.31852
11:11:02				524	9.3714	0.4289414	3.1493	1.51404	9.37729	3.33747
11:11:02				525	9.36166	0.4316663	3.1493	1.4652	9.42613	3.36096
11:11:03				526	9.35289	0.4329482	3.1493	1.51404	9.67033	3.37241
11:11:03				527	9.34217	0.435031	3.0509	1.51404	9.37729	3.39071
11:11:04				528	9.33139	0.4371149	3.1493	1.4652	9.47497	3.40903
11:11:04				529	9.31872	0.4377562	3.1493	1.4652	9.67033	3.41556
11:11:05				530	9.30702	0.4383978	3.1493	1.51404	9.52381	3.422
11:11:05				531	9.30214	0.4383978	3.0509	1.4652	9.67033	3.42247
11:11:06				532	9.29824	0.4377563	3.1493	1.4652	9.81685	3.4175
11:11:06				533	9.29824	0.4390381	3.1493	1.4652	9.67033	3.42816
11:11:07				534	9.28843	0.4401606	3.1493	1.4652	9.57265	3.43844
11:11:07				535	9.28648	0.4400005	3.1493	1.51404	9.71917	3.43729
11:11:08				536	9.2855	0.4403208	3.1493	1.51404	9.76801	3.44005
11:11:08				537	9.28355	0.4379163	3.0509	1.51404	9.67033	3.42024
11:11:09				538	9.28257	0.4335896	3.1493	1.51404	9.67033	3.38434
11:11:09				539	9.27184	0.431346	2.9526	1.56288	9.52381	3.36671
11:11:10				540	9.25818	0.4345505	3.1493	1.51404	9.86569	3.39464
11:11:10				541	9.25135	0.4291023	3.1493	1.51404	9.81685	3.34997
11:11:11				542	9.24251	0.4297422	3.1493	1.51404	9.67033	3.35611
11:11:11				543	9.24251	0.4315055	3.1493	1.51404	9.96337	3.37078
11:11:12				544	9.2455	0.4316664	3.1493	1.4652	9.91453	3.37184
11:11:12				545	9.25331	0.4335897	3.1493	1.51404	10.06105	3.3871
11:11:13				546	9.2455	0.4310242	3.1493	1.4652	9.91453	3.36649
11:11:13				547	9.23861	0.430704	3.1493	1.4652	9.71917	3.36448
11:11:14				548	9.23665	0.4367952	3.1493	1.4652	9.71917	3.41536

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:14				549	9.23665	0.4366338	3.1493	1.51404	9.91453	3.41402
11:11:15				550	9.22103	0.4361527	3.0509	1.4652	9.91453	3.4115
11:11:15				551	9.21908	0.4375964	3.1493	1.4652	9.81685	3.42371
11:11:16				552	9.22592	0.4412824	3.1493	1.4652	10.50061	3.45378
11:11:16				553	9.22592	0.4382363	3.1493	1.4652	9.91453	3.42839
11:11:17	11:09:53 @ 6:00	15	180	554	9.22689	0.438558	3.1493	1.4652	9.62149	3.43098
11:11:17				555	9.24056	0.4393583	3.1493	1.51404	9.86569	3.43634
11:11:18				556	9.25038	0.4396786	3.1493	1.4652	9.76801	3.43807
11:11:18				557	9.25135	0.4395184	3.1493	1.51404	9.86569	3.43664
11:11:19				558	9.25526	0.4379163	3.1493	1.51404	9.62149	3.42293
11:11:19				559	9.25818	0.4358331	3.1493	1.51404	9.71917	3.40531
11:11:20				560	9.26111	0.4287809	3.1493	1.4652	9.76801	3.34638
11:11:20				561	9.25721	0.4257368	3.1493	1.51404	10.06105	3.32145
11:11:21				562	9.23763	0.4225319	3.1493	1.51404	9.96337	3.29663
11:11:21				563	9.22299	0.4225319	3.1493	1.51404	10.15873	3.29798
11:11:22				564	9.20932	0.4220501	3.1493	1.51404	10.35409	3.29523
11:11:22				565	9.23275	0.4212484	3.1493	1.51404	10.30525	3.28642
11:11:23				566	9.22299	0.42173	3.1493	1.4652	9.86569	3.29132
11:11:23				567	9.22592	0.4220501	3.1493	1.51404	9.71917	3.29371
11:11:24				568	9.24251	0.4204472	3.1493	1.51404	10.01221	3.27888
11:11:24				569	9.23275	0.4212484	3.1493	1.4652	9.71917	3.28642
11:11:25				570	9.21713	0.4273385	3.1493	1.51404	9.91453	3.33848
11:11:25				571	9.22103	0.4233325	3.1493	1.51404	9.81685	3.30481
11:11:26				572	9.23568	0.4313461	3.1493	1.4652	10.20757	3.37009
11:11:26				573	9.22592	0.4351925	3.1493	1.51404	10.25641	3.40303
11:11:27				574	9.21322	0.4342297	3.1493	1.51404	9.62149	3.39622
11:11:27				575	9.20834	0.4366338	3.1493	1.4652	10.35409	3.41671
11:11:28				576	9.21518	0.438558	3.1493	1.4652	9.62149	3.4321
11:11:28				577	9.23275	0.4372749	3.1493	1.51404	10.20757	3.41973
11:11:29				578	9.24843	0.4380763	3.1493	1.4652	9.86569	3.42491
11:11:29				579	9.24843	0.4404811	3.1493	1.4652	10.06105	3.44494
11:11:30				580	9.24446	0.4393583	3.1493	1.4652	10.25641	3.43597
11:11:30				581	9.25331	0.4375964	3.1493	1.4652	10.06105	3.42045
11:11:31				582	9.27282	0.4382363	3.1493	1.51404	10.06105	3.42392
11:11:31				583	9.26892	0.4433659	3.1493	1.51404	10.01221	3.467
11:11:32				584	9.25135	0.4435265	3.1493	1.4652	9.67033	3.47004
11:11:32				585	9.25623	0.4428845	3.1493	1.4652	9.47497	3.46422
11:11:33				586	9.24647	0.4432055	3.1493	1.4652	9.91453	3.46783
11:11:33				587	9.22884	0.4432055	3.1493	1.4652	9.76801	3.46954
11:11:34				588	9.22787	0.4417634	3.1493	1.4652	9.91453	3.4576
11:11:34				589	9.22982	0.4419238	3.1493	1.4652	9.67033	3.45875
11:11:35				590	9.22592	0.4396786	3.1493	1.4652	9.86569	3.44041
11:11:35				591	9.22299	0.4388781	3.1493	1.4652	10.06105	3.43402
11:11:36				592	9.22299	0.4390382	3.1493	1.4652	10.01221	3.43535
11:11:36				593	9.22201	0.4382363	3.1493	1.4652	10.10989	3.42876
11:11:37				594	9.21713	0.4375964	3.1493	1.4652	9.71917	3.4239

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:37				595	9.22103	0.4367953	3.1493	1.4652	9.67033	3.41685
11:11:38				596	9.22103	0.4363141	3.1493	1.4652	9.91453	3.41284
11:11:38				597	9.2142	0.4359929	3.1493	1.4652	10.06105	3.41081
11:11:39				598	9.22299	0.4361527	3.1493	1.4652	10.15873	3.41131
11:11:39				599	9.22494	0.4348715	3.2477	1.4652	9.91453	3.40045
11:11:40				600	9.23275	0.4340701	3.1493	1.4652	9.67033	3.39304
11:11:40				601	9.23568	0.4334285	3.1493	1.51404	9.71917	3.38742
11:11:41				602	9.22592	0.4327873	3.1493	1.4652	10.10989	3.38301
11:11:41				603	9.22982	0.4311852	3.1493	1.4652	10.01221	3.3693
11:11:42				604	9.23568	0.4323073	3.1493	1.51404	10.20757	3.37809
11:11:43				607	9.23196	0.4315118	3.1493	1.51404	10.06105	3.37182
11:11:44				608	9.22799	0.4324731	3.1493	1.4652	9.86569	3.3802
11:11:44				609	9.22116	0.4332738	3.1493	1.4652	9.96337	3.38751
11:11:45				610	9.21823	0.4460966	3.1493	1.51404	10.35409	3.49469
11:11:45				611	9.20846	0.4683769	3.1493	1.4652	10.15873	3.68202
11:11:46				612	9.20944	0.4744684	3.1493	1.51404	10.15873	3.733
11:11:46				613	9.20944	0.4768723	3.1493	1.51404	10.15873	3.75317
11:11:47				614	9.21627	0.4842468	3.1493	1.4652	9.91453	3.81438
11:11:47				615	9.22213	0.4893779	3.1493	1.4652	9.86569	3.85688
11:11:48				616	9.22213	0.49563	3.1493	1.51404	10.06105	3.90947
11:11:48				617	9.21237	0.4901791	3.1493	1.4652	9.96337	3.86467
11:11:49				618	9.21432	0.4913006	3.1493	1.4652	9.96337	3.87389
11:11:49				619	9.22311	0.4949884	3.1493	1.51404	9.62149	3.90397
11:11:50				620	9.23586	0.4991576	3.1493	1.4652	9.62149	3.93766
11:11:50				621	9.2544	0.5017229	3.1493	1.4652	9.91453	3.95722
11:11:51				622	9.27001	0.5015619	3.1493	1.4652	9.03541	3.95414
11:11:51				623	9.28666	0.5055701	3.1493	1.4652	9.52381	3.98603
11:11:52				624	9.31299	0.5065331	3.1493	1.4652	9.18193	3.99121
11:11:52				625	9.32767	0.5052491	3.1493	1.51404	9.23077	3.97878
11:11:53				626	9.33937	0.5039676	3.1493	1.4652	9.23077	3.96672
11:11:53				627	9.32475	0.5004405	3.1493	1.4652	8.79121	3.93871
11:11:54				628	9.30324	0.4845671	3.1493	1.51404	8.98657	3.80784
11:11:54				629	9.26709	0.4787961	3.1493	1.4652	9.03541	3.76327
11:11:55				630	9.24562	0.4749489	3.1493	1.4652	9.18193	3.73326
11:11:55				631	9.23586	0.4579581	3.1493	1.51404	9.52381	3.59203
11:11:56				632	9.23586	0.4513856	3.1493	1.4652	9.37729	3.53712
11:11:56				633	9.23488	0.4414491	3.1493	1.51404	9.96337	3.45431
11:11:57				634	9.23391	0.4334349	3.1493	1.4652	9.86569	3.38764
11:11:57				635	9.23488	0.4297486	3.1493	1.4652	9.62149	3.35688
11:11:58				636	9.23684	0.4283068	3.1493	1.4652	9.67033	3.3447
11:11:58				637	9.26611	0.4268647	3.1493	1.51404	9.91453	3.33
11:11:59				638	9.30519	0.4259019	3.0509	1.4652	9.71917	3.3184
11:11:59				639	9.32475	0.4243	3.1493	1.51404	9.86569	3.30331
11:12:00				640	9.33157	0.4223764	3.1493	1.51404	9.62149	3.28674
11:12:00				641	9.34911	0.4222163	3.1493	1.4652	9.81685	3.28382
11:12:01				642	9.35886	0.4218962	3.1493	1.51404	9.86569	3.28028

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:01				643	9.35983	0.4218962	3.1493	1.51404	9.76801	3.28019
11:12:02				644	9.3686	0.4217362	3.1493	1.4652	9.52381	3.27806
11:12:02				645	9.38619	0.4215761	3.1493	1.51404	9.62149	3.27514
11:12:03				646	9.39398	0.4217361	3.1493	1.51404	9.76801	3.27575
11:12:03				647	9.38717	0.4220562	3.1493	1.4652	10.15873	3.27902
11:12:04				648	9.39398	0.4214145	3.1493	1.51404	9.57265	3.27309
11:12:04				649	9.39009	0.4214145	3.1493	1.51404	9.42613	3.27345
11:12:05				650	9.39009	0.4214145	3.1493	1.4652	9.32845	3.27345
11:12:05				651	9.38911	0.4217361	3.1493	1.51404	9.37729	3.2762
11:12:06				652	9.37548	0.4212546	3.1493	1.51404	9.86569	3.27345
11:12:06				653	9.3686	0.4210946	3.1493	1.4652	9.81685	3.27276
11:12:07				654	9.32767	0.4220563	3.1493	1.51404	9.62149	3.28445
11:12:07				655	9.32865	0.4202935	3.2477	1.51404	10.10989	3.26975
11:12:08				656	9.31006	0.4190119	3.2477	1.51404	9.71917	3.26082
11:12:08				657	9.27392	0.4185312	3.1493	1.51404	9.71917	3.26012
11:12:09				658	9.26709	0.4196527	3.1493	1.51404	9.96337	3.27004
11:12:09				659	9.25148	0.4188506	3.2477	1.51404	9.96337	3.2648
11:12:10				660	9.24757	0.4182102	3.1493	1.51404	9.81685	3.25985
11:12:10				661	9.23879	0.4194929	3.1493	1.51404	9.81685	3.27129
11:12:11				662	9.23098	0.4185312	3.2477	1.51404	10.79365	3.26401
11:12:11				663	9.22897	0.4182103	3.2477	1.51404	9.81685	3.26153
11:12:12				664	9.22994	0.4182103	3.2477	1.51404	10.20757	3.26144
11:12:12				665	9.22506	0.4180506	3.2477	1.4652	10.50061	3.26056
11:12:13				666	9.22116	0.4180506	3.2477	1.51404	10.25641	3.26092
11:12:13				667	9.21725	0.418691	3.2477	1.4652	10.01221	3.26659
11:12:14				668	9.2153	0.4193315	3.1493	1.4652	10.94017	3.27209
11:12:14				669	9.21432	0.4193316	3.2477	1.4652	10.35409	3.27218
11:12:15				670	9.21335	0.41837	3.2477	1.4652	10.06105	3.26428
11:12:15				671	9.21237	0.4188507	3.1493	1.4652	10.20757	3.26837
11:12:16				672	9.21139	0.4182103	3.1493	1.4652	10.69597	3.26313
11:12:16				673	9.21237	0.4175686	3.1493	1.4652	10.30525	3.25772
11:12:17				674	9.21725	0.4175686	3.1493	1.4652	10.01221	3.25727
11:12:17				675	9.21335	0.4180506	3.1493	1.4652	10.25641	3.26163
11:12:18				676	9.21335	0.4180506	3.1493	1.4652	10.20757	3.26163
11:12:18				677	9.20846	0.4175686	3.1493	1.4652	10.25641	3.25807
11:12:19				678	9.21042	0.4164469	3.1493	1.51404	10.06105	3.24858
11:12:19				679	9.21237	0.4178894	3.1493	1.4652	10.35409	3.26038
11:12:20				680	9.2153	0.4177298	3.1493	1.51404	10.50061	3.25879
11:12:20				681	9.21432	0.4167675	3.1493	1.51404	10.25641	3.25089
11:12:21				682	9.21237	0.4210949	3.2477	1.51404	10.10989	3.28701
11:12:21				683	9.20944	0.4244605	3.4445	1.51404	10.15873	3.31524
11:12:22				684	9.20749	0.4807205	3.6412	1.51404	10.15873	3.78566
11:12:22				685	9.23391	0.5406887	3.838	1.51404	9.91453	4.28861
11:12:23				686	9.29544	0.5405276	4.0348	1.51404	9.37729	4.27989
11:12:23				687	9.33449	0.5519142	4.2315	1.51404	8.69353	4.37152
11:12:24				688	9.33352	0.5280187	4.3299	1.51404	8.30281	4.16975

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:24				689	9.32865	0.5463016	4.3299	1.51404	8.20513	4.32474
11:12:25				690	9.32176	0.5535175	4.4283	1.51404	8.69353	4.38664
11:12:25				691	9.31104	0.5552826	4.5267	1.51404	8.54701	4.40289
11:12:26	11:11:02 end transect	15	270	692	9.28666	0.5549616	4.6251	1.51404	8.74237	4.40315
11:12:26				693	9.27099	0.5628206	4.7234	1.4652	8.54701	4.47178
11:12:27				694	9.28861	0.578699	4.9202	1.4652	8.59585	4.60451
11:12:27				695	9.32176	0.5798229	4.9202	1.51404	8.69353	4.60981
11:12:28				696	9.35886	0.615435	5.0186	1.4652	8.44933	4.90826
11:12:28				697	9.48072	0.6250622	5.117	1.4652	8.35165	4.9736
11:12:29				698	9.54202	0.6372551	5.3137	1.51404	7.61905	5.06889
11:12:29				699	9.58968	0.7218335	5.3137	1.4652	7.03297	5.78551
11:12:30				700	9.62468	0.718623	5.4121	1.51404	7.17949	5.75233
11:12:30				701	9.63827	0.7913526	5.4121	1.51404	7.03297	6.37702
11:12:31				702	9.64506	0.8202581	5.4121	1.4652	6.59341	6.62636
11:12:31				703	9.7004	0.8653921	5.5105	1.51404	6.78877	7.00835
11:12:32				704	9.70524	0.8820985	5.6089	1.51404	7.03297	7.15301
11:12:32				705	9.71009	0.8885245	5.6089	5.86081	6.20269	7.20812
11:12:33				706	9.76737	0.8661959	5.6089	5.90965	6.20269	7.00235
11:12:33				707	9.77028	0.8404951	5.6089	1.51404	5.03053	6.77867
11:12:34				708	9.73535	0.8528618	5.6089	1.4652	5.81197	6.89261
11:12:34				709	9.76834	0.8798498	5.6089	1.51404	6.15385	7.12095
11:12:35				710	9.82841	0.886597	5.6089	1.51404	6.15385	7.1678
11:12:35				711	9.92908	0.8975203	5.6089	1.51404	6.39805	7.2427
11:12:36				712	9.99191	0.9392953	5.6089	1.51404	5.66545	7.59303
11:12:36				713	10.04793	0.92162	5.7073	1.51404	5.47009	7.42783
11:12:37				714	10.07493	0.8907736	5.6089	1.4652	5.27473	7.15533
11:12:37				715	9.98902	0.9148715	5.6089	1.4652	5.32357	7.38129
11:12:38				716	10.04504	0.9254775	5.6089	4.24908	4.68864	7.46191
11:12:38				717	10.07204	0.8909324	5.6089	3.32112	5.12821	7.15727
11:12:39				718	10.06914	0.916639	5.6089	5.95849	4.83516	7.38033
11:12:39				719	10.09041	0.9212985	5.6089	7.76557	4.98168	7.41638
11:12:40				720	10.12703	0.9063557	5.6089	14.31013	4.884	7.27966
11:12:40				721	10.12703	0.91423	5.5105	14.50549	4.884	7.34776
11:12:41				722	10.11739	0.9187288	5.6089	12.89377	4.54212	7.38863
11:12:41				723	10.1145	0.915354	5.6089	13.62637	4.49328	7.36001
11:12:42				724	10.1145	0.9237096	5.6089	12.69841	4.68864	7.43235
11:12:43				727	10.14063	0.9318659	5.7073	12.06349	4.68864	7.49762
11:12:44	11:11:20 start transect	15	270	728	10.1493	0.9129062	5.6089	12.60073	4.68864	7.33181
11:12:44				729	10.12901	0.9292961	5.6089	13.77289	4.6398	7.47776
11:12:45				730	10.11167	0.9223872	5.7073	13.72405	4.54212	7.42146
11:12:45				731	10.15796	0.933312	5.5105	13.38217	4.98168	7.50659
11:12:46				732	10.16759	0.9249562	5.6089	12.79609	4.78632	7.43229
11:12:46				733	10.13094	0.9235106	5.6089	12.30769	4.78632	7.42727
11:12:47				734	10.16759	0.907606	5.6089	4.83516	4.68864	7.28235
11:12:47				735	10.09722	0.888327	5.5105	1.66056	4.6398	7.12983
11:12:48				736	9.98618	0.9313844	5.5105	1.4652	4.83516	7.5254

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(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:48				737	9.95233	0.8897736	5.6089	1.51404	5.32357	7.17087
11:12:49				738	9.92431	0.8881669	5.5105	1.51404	4.78632	7.16248
11:12:49				739	9.89236	0.9117841	5.6089	1.4652	5.03053	7.37411
11:12:50				740	9.98425	0.8891307	5.6089	1.56288	4.884	7.15899
11:12:50				741	9.96102	0.885596	5.5105	1.51404	4.884	7.13295
11:12:51				742	9.91852	0.8859191	5.5105	6.83761	4.83516	7.14412
11:12:51				743	9.94267	0.8839899	5.5105	1.51404	4.98168	7.12264
11:12:52				744	9.90106	0.8693728	5.6089	1.51404	4.78632	7.00406
11:12:52				745	9.83718	0.8738712	5.5105	1.51404	4.68864	7.05549
11:12:53				746	9.77227	0.866481	5.5105	1.51404	4.93284	7.00389
11:12:53				747	9.73153	0.859575	5.4121	1.51404	4.98168	6.95172
11:12:54				748	9.68204	0.8579696	5.4121	1.4652	5.27473	6.94728
11:12:54				749	9.69367	0.8611816	5.4121	1.4652	5.47009	6.973
11:12:55				750	9.78292	0.8790118	5.5105	1.4652	5.42125	7.1108
11:12:55				751	9.87399	0.8766019	5.5105	1.51404	5.32357	7.07201
11:12:56				752	9.89623	0.874512	5.5105	1.4652	4.98168	7.04955
11:12:56				753	9.84976	0.8706587	5.5105	1.51404	4.884	7.02516
11:12:57				754	9.84202	0.8966808	5.5105	1.51404	4.93284	7.25284
11:12:57				755	9.8972	0.904875	5.5105	14.60317	4.98168	7.31303
11:12:58				756	9.94846	0.9262423	5.5105	1.51404	4.83516	7.48846
11:12:58				757	10.01127	0.9174051	5.5105	1.51404	4.78632	7.39876
11:12:59				758	9.95522	0.8921838	5.6089	1.51404	4.78632	7.19119
11:12:59				759	9.93011	0.9106575	5.5105	1.51404	4.73748	7.35665
11:13:00				760	9.99197	0.9035896	5.6089	5.90965	4.59096	7.28278
11:13:00				761	10.02189	0.8974842	5.6089	5.61661	4.54212	7.22389
11:13:01				762	10.00548	0.8923445	5.6089	4.29792	4.54212	7.18263
11:13:01				763	9.93687	0.9031071	5.6089	3.12576	4.59096	7.28966
11:13:02				764	9.96778	0.9336334	5.6089	1.51404	5.07937	7.54878
11:13:02				765	10.03642	0.8870424	5.6089	3.71184	4.884	7.13065
11:13:03				766	9.93591	0.9071232	5.5105	6.49573	4.884	7.32476
11:13:03				767	9.97749	0.8984478	5.5105	3.22344	4.73748	7.24109
11:13:04				768	9.94363	0.8822224	5.5105	3.22344	4.73748	7.10713
11:13:04				769	9.84976	0.8978071	5.5105	1.51404	4.44444	7.26109
11:13:05				770	9.86336	0.8735497	5.5105	1.51404	4.6398	7.0476
11:13:05				771	9.80229	0.8782076	5.5105	1.51404	4.59096	7.1
11:13:06				772	9.77227	0.8677673	5.4121	1.4652	4.54212	7.01509
11:13:06				773	9.76743	0.8688909	5.5105	1.4652	4.49328	7.02579
11:13:07				774	9.75575	0.8655177	5.5105	1.4652	4.68864	6.99872
11:13:07				775	9.75284	0.8616622	5.5105	1.4652	4.68864	6.96576
11:13:08				776	9.76259	0.8602182	5.5105	1.51404	4.83516	6.95133
11:13:08				777	9.76937	0.8592533	5.6089	1.51404	4.49328	6.94163
11:13:09				778	9.76743	0.8581301	5.5105	1.51404	4.59096	6.93226
11:13:09				779	9.75775	0.8553996	5.5105	1.51404	4.44444	6.91039
11:13:10				780	9.74219	0.8552371	5.5105	1.51404	4.49328	6.91196
11:13:10				781	9.73928	0.8573267	5.5105	1.51404	4.78632	6.93068
11:13:11				782	9.73638	0.8523475	5.6089	1.4652	4.59096	6.88795

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:11				783	9.72378	0.8486527	5.5105	1.4652	4.6398	6.85825
11:13:12				784	9.69658	0.8443163	5.5105	1.51404	5.12821	6.82572
11:13:12				785	9.66846	0.8435135	5.5105	1.51404	5.27473	6.82406
11:13:13				786	9.65779	0.8412642	5.6089	1.4652	5.66545	6.8065
11:13:13				787	9.64512	0.8447979	5.6089	1.51404	5.86081	6.83964
11:13:14				788	9.64027	0.8393378	5.6089	1.51404	5.71429	6.79304
11:13:14				789	9.64027	0.837893	5.6089	1.4652	5.66545	6.78047
11:13:15				790	9.61892	0.844798	5.5105	1.51404	5.47009	6.84462
11:13:15				791	9.62668	0.8354836	5.5105	1.51404	5.90965	6.76207
11:13:16				792	9.61989	0.8324306	5.5105	1.51404	6.00733	6.73679
11:13:16				793	9.63154	0.8215111	5.4121	1.4652	6.25153	6.63972
11:13:17				794	9.65876	0.8208681	5.5105	1.4652	6.49573	6.62912
11:13:17				795	9.62571	0.7585678	5.5105	1.4652	6.59341	6.0959
11:13:18				796	9.58682	0.7532686	5.5105	1.4652	6.64225	6.05674
11:13:18				797	9.54694	0.7863444	5.5105	2.9304	6.73993	6.34974
11:13:19				798	9.61795	0.7041489	5.5105	2.9304	6.69109	5.62921
11:13:19				799	9.6131	0.7449208	5.5105	1.51404	6.98413	5.98037
11:13:20				800	9.58391	0.7848984	5.5105	1.51404	6.98413	6.33071
11:13:20				801	9.67234	0.7017413	5.6089	1.51404	6.78877	5.60012
11:13:21				802	9.6228	0.7160263	5.5105	1.4652	6.73993	5.73032
11:13:21				803	9.55186	0.7258178	5.5105	1.4652	6.88645	5.82587
11:13:22				804	9.49634	0.7336847	5.6089	1.51404	6.93529	5.90272
11:13:22				805	9.47981	0.7010999	5.5105	1.4652	6.83761	5.6246
11:13:23				806	9.46813	0.7205221	5.5105	1.51404	6.73993	5.79374
11:13:23				807	9.45938	0.7205221	5.5105	1.51404	7.03297	5.79515
11:13:24				808	9.45354	0.6986922	5.6089	1.4652	6.88645	5.60797
11:13:24				809	9.46424	0.7091248	5.5105	1.51404	6.83761	5.69612
11:13:25				810	9.45549	0.717792	5.5105	1.51404	7.03297	5.77222
11:13:25				811	9.45062	0.721164	5.5105	1.51404	7.03297	5.8021
11:13:26				812	9.46132	0.7598512	5.5105	1.51404	7.03297	6.1349
11:13:26				813	9.53334	0.7271029	5.5105	1.51404	7.22833	5.83994
11:13:27				814	9.54597	0.7834535	5.5105	1.4652	7.03297	6.32485
11:13:27				815	9.58003	0.7426729	5.5105	1.4652	6.88645	5.96648
11:13:28				816	9.54791	0.7804029	5.5105	1.4652	6.69109	6.29806
11:13:28				817	9.58779	0.7702876	5.5105	1.51404	6.78877	6.20358
11:13:29				818	9.581	0.780885	5.5105	1.51404	6.59341	6.29646
11:13:29				819	9.55186	0.7762284	5.5105	1.4652	6.88645	6.26121
11:13:30				820	9.50126	0.7853799	5.6089	1.51404	6.54457	6.34942
11:13:30				821	9.48564	0.8048091	5.6089	1.51404	6.69109	6.52112
11:13:31				822	9.49731	0.7765488	5.6089	1.4652	6.59341	6.27347
11:13:31				823	9.50709	0.8078604	5.6089	1.4652	6.49573	6.54378
11:13:32				824	9.52653	0.7966204	5.6089	1.4652	6.54457	6.44255
11:13:32				825	9.52362	0.815569	5.5105	1.4652	6.34921	6.60788
11:13:33				826	9.53917	0.8160506	5.6089	1.51404	6.39805	6.6092
11:13:33				827	9.54791	0.8155689	5.5105	1.4652	6.30037	6.60342
11:13:34				828	9.54985	0.8133199	5.6089	1.51404	6.54457	6.58349

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:34				829	9.54791	0.8085036	5.6089	1.51404	6.30037	6.54196
11:13:35				830	9.53431	0.8141246	5.5105	1.4652	6.25153	6.59334
11:13:35				831	9.54014	0.8182982	5.5105	1.51404	6.49573	6.6286
11:13:36				832	9.545	0.801277	5.6089	1.4652	6.44689	6.47969
11:13:36				833	9.54208	0.8192627	5.5105	1.51404	6.15385	6.63664
11:13:37				834	9.54597	0.8216716	5.5105	1.51404	6.25153	6.65689
11:13:37				835	9.54597	0.8168541	5.5105	1.4652	6.15385	6.61496
11:13:38				836	9.53917	0.8093067	5.6089	1.51404	5.95849	6.55054
11:13:38				837	9.52265	0.8224752	5.5105	1.51404	6.00733	6.6682
11:13:39				838	9.52653	0.824723	5.5105	1.51404	6.30037	6.68707
11:13:39				839	9.54014	0.8099485	5.6089	1.51404	6.49573	6.55594
11:13:40				840	9.52848	0.8189405	5.5105	1.4652	5.90965	6.63634
11:13:40				841	9.53042	0.8239206	5.4121	1.51404	5.86081	6.67937
11:13:41				842	9.54014	0.8215114	5.5105	1.4652	5.86081	6.65657
11:13:41				843	9.54305	0.8345188	5.5105	1.4652	5.95849	6.76937
11:13:42				844	9.56837	0.8309861	5.6089	1.51404	5.76313	6.73383
11:13:43				847	9.61249	0.8375801	5.5105	1.51404	5.61661	6.78298
11:13:44				848	9.6154	0.8377414	5.6089	1.4652	5.42125	6.78383
11:13:44				849	9.62122	0.8459328	5.5105	1.4652	5.61661	6.85407
11:13:45				850	9.62608	0.8476985	5.6089	1.4652	5.56777	6.86851
11:13:45				851	9.63578	0.8539634	5.5105	1.4652	5.56777	6.92126
11:13:46				852	9.63675	0.8465745	5.6089	1.51404	5.22589	6.85669
11:13:46				853	9.6319	0.8526783	5.6089	1.51404	5.07937	6.91079
11:13:47				854	9.64354	0.8629582	5.6089	1.51404	5.03053	6.99816
11:13:47				855	9.67755	0.8607088	5.6089	1.4652	5.12821	6.97198
11:13:48				856	9.67949	0.8536424	5.6089	1.4652	4.93284	6.91007
11:13:48				857	9.6727	0.8566942	5.6089	1.4652	4.884	6.93794
11:13:49				858	9.68725	0.8610306	5.5105	1.4652	5.17705	6.97292
11:13:49				859	9.69797	0.8557287	5.6089	1.4652	5.07937	6.92469
11:13:50				860	9.68725	0.8578187	5.6089	1.51404	4.884	6.94494
11:13:50				861	9.69016	0.8615113	5.6089	1.51404	4.93284	6.97653
11:13:51				862	9.697	0.8547655	5.6089	1.4652	4.73748	6.91649
11:13:51				863	9.695	0.8600673	5.5105	1.51404	4.73748	6.96303
11:13:52				864	9.71445	0.8647239	5.5105	1.4652	4.83516	6.99981
11:13:52				865	9.72511	0.862475	5.5105	1.51404	4.83516	6.97818
11:13:53				866	9.72317	0.8605478	5.5105	1.4652	4.44444	6.96178
11:13:53				867	9.72802	0.8663317	5.6089	1.4652	4.44444	7.01116
11:13:54				868	9.74352	0.8676159	5.5105	1.4652	4.68864	7.01934
11:13:54				869	9.74739	0.8661704	5.6089	1.51404	4.59096	7.006
11:13:55				870	9.75133	0.8735599	5.5105	1.51404	4.59096	7.06955
11:13:55				871	9.75714	0.8791818	5.5105	1.51404	4.59096	7.11735
11:13:56				872	9.76198	0.8711495	5.6089	1.4652	4.49328	7.04648
11:13:56				873	9.74643	0.8722746	5.6089	1.51404	4.29792	7.05931
11:13:57				874	9.75424	0.8745223	5.6089	1.51404	4.49328	7.07735
11:13:57				875	9.76005	0.8774137	5.5105	1.4652	4.49328	7.10139
11:13:58				876	9.7707	0.8770938	5.6089	1.4652	4.54212	7.0965

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:58				877	9.77167	0.8764502	5.6089	1.51404	4.49328	7.09071
11:13:59				878	9.77361	0.8786996	5.5105	1.51404	4.49328	7.10992
11:13:59				879	9.77651	0.8753252	5.6089	1.51404	4.3956	7.07997
11:14:00				880	9.77748	0.8762903	5.5105	1.4652	4.3956	7.08819
11:14:00				881	9.77554	0.8745223	5.6089	1.4652	4.34676	7.07318
11:14:01				882	9.77554	0.8708283	5.5105	1.51404	4.3956	7.04106
11:14:01				883	9.77264	0.8725958	5.5105	1.4652	4.49328	7.057
11:14:02				884	9.77457	0.8875348	5.5105	1.51404	4.59096	7.18666
11:14:02				885	9.77748	0.8751654	5.6089	1.51404	4.3956	7.07839
11:14:03				886	9.77264	0.8695425	5.5105	1.51404	4.54212	7.03044
11:14:03				887	9.76876	0.8716321	5.5105	1.51404	4.44444	7.04937
11:14:04				888	9.76876	0.8820726	5.5105	1.4652	4.59096	7.14024
11:14:04				889	9.77361	0.8680978	5.6089	1.4652	4.59096	7.01768
11:14:05				890	9.76683	0.8692216	5.6089	1.51404	4.3956	7.02877
11:14:05				891	9.76102	0.8698654	5.5105	1.4652	4.54212	7.03551
11:14:06				892	9.76198	0.8626358	5.5105	1.51404	4.78632	6.97246
11:14:06				893	9.75424	0.860226	5.5105	1.51404	4.68864	6.953
11:14:07				894	9.74739	0.8608695	5.5105	1.51404	4.78632	6.95991
11:14:07				895	9.74061	0.856694	5.5105	1.51404	4.884	6.92492
11:14:08				896	9.73092	0.8565334	5.4121	1.4652	4.73748	6.92539
11:14:08				897	9.72996	0.8533195	5.5105	1.51404	4.73748	6.89763
11:14:09				898	9.71445	0.8494651	5.6089	1.51404	4.78632	6.86707
11:14:09				899	9.70088	0.8451292	5.5105	1.51404	4.98168	6.83197
11:14:10				900	9.6824	0.8473783	5.6089	1.51404	4.93284	6.85502
11:14:10				901	9.68143	0.8476983	5.6089	1.4652	5.27473	6.85798
11:14:11				902	9.68046	0.8468963	5.6089	1.4652	4.93284	6.85119
11:14:11				903	9.68143	0.8409527	5.6089	1.51404	4.78632	6.79933
11:14:12				904	9.66106	0.8411143	5.6089	1.4652	4.98168	6.80458
11:14:12				905	9.65233	0.844486	5.6089	1.51404	5.03053	6.83556
11:14:13				906	9.66397	0.8448076	5.6089	1.51404	5.27473	6.83615
11:14:13				907	9.67658	0.8451293	5.6089	1.51404	5.12821	6.83656
11:14:14	11:12:50 @ 6:00	15	180	908	9.68046	0.8451293	5.6089	1.51404	5.07937	6.83583
11:14:14				909	9.68046	0.842559	5.6089	1.4652	5.07937	6.81348
11:14:15				910	9.66494	0.8412739	5.5105	1.4652	5.22589	6.80524
11:14:15				911	9.6533	0.8411143	5.5105	1.51404	5.27473	6.80605
11:14:16				912	9.65524	0.8032136	5.5105	1.4652	5.51893	6.47669
11:14:16				913	9.60764	0.8067466	5.5105	1.51404	5.71429	6.51589
11:14:17				914	9.54834	0.8141323	5.5105	1.51404	6.20269	6.59084
11:14:17				915	9.54639	0.8077105	5.5105	1.51404	6.39805	6.53535
11:14:18				916	9.58233	0.790367	5.5105	1.51404	6.34921	6.37837
11:14:18				917	9.58427	0.7945417	5.5105	1.4652	6.59341	6.41422
11:14:19				918	9.56388	0.804017	5.5105	1.51404	6.39805	6.5001
11:14:19				919	9.55999	0.8192723	5.5105	1.51404	6.54457	6.63342
11:14:20				920	9.58622	0.8126887	5.5105	1.4652	6.39805	6.57138
11:14:20				921	9.61443	0.8046592	5.5105	1.51404	5.95849	6.49656
11:14:21				922	9.61831	0.8271409	5.5105	1.4652	5.51893	6.69108

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:21				923	9.62025	0.8226449	5.4121	1.51404	5.37241	6.65165
11:14:22				924	9.62122	0.8300324	5.5105	1.51404	5.22589	6.71568
11:14:22				925	9.62899	0.8411144	5.5105	1.4652	5.27473	6.81064
11:14:23				926	9.65815	0.8348505	5.5105	1.51404	5.17705	6.75067
11:14:23				927	9.64651	0.835975	5.5105	1.51404	5.12821	6.76263
11:14:24				928	9.64554	0.8356526	5.5105	1.51404	5.22589	6.76001
11:14:24				929	9.64457	0.8350098	5.5105	1.51404	5.17705	6.7546
11:14:25				930	9.64063	0.8324403	5.4121	1.4652	5.22589	6.73301
11:14:25				931	9.63287	0.8313175	5.5105	1.51404	5.27473	6.72468
11:14:26				932	9.6319	0.8273015	5.3137	1.56288	5.32357	6.68997
11:14:26				933	9.62899	0.8261772	5.5105	1.51404	5.47009	6.68072
11:14:27				934	9.61928	0.8147752	5.5105	1.51404	5.47009	6.58347
11:14:27				935	9.61249	0.8086725	5.5105	1.4652	5.47009	6.53173
11:14:28				936	9.60861	0.8232865	5.5105	1.4652	5.42125	6.65937
11:14:28				937	9.61831	0.8350098	5.5105	1.51404	5.66545	6.75952
11:14:29				938	9.64354	0.8171835	5.5105	1.4652	5.47009	6.59994
11:14:29				939	9.63384	0.8301932	5.5105	1.51404	5.27473	6.71473
11:14:30				940	9.6319	0.8340469	5.5105	1.51404	5.37241	6.7486
11:14:30				941	9.6319	0.8285872	5.5105	1.51404	5.42125	6.70113
11:14:31				942	9.62705	0.8175055	5.5105	1.51404	5.47009	6.60575
11:14:31				943	9.61346	0.820235	5.5105	1.4652	5.47009	6.63195
11:14:32				944	9.61831	0.8290675	5.5105	1.51404	5.66545	6.70783
11:14:32				945	9.63093	0.8105999	5.5105	1.51404	5.56777	6.54511
11:14:33				946	9.59696	0.8263379	5.5105	1.51404	5.47009	6.68806
11:14:33				947	9.59696	0.8324404	5.5105	1.51404	5.42125	6.74116
11:14:34				948	9.61055	0.8229657	5.5105	1.4652	5.76313	6.65622
11:14:34				949	9.60375	0.8298716	5.5105	1.4652	5.71429	6.71753
11:14:35				950	9.62122	0.8343691	5.5105	1.4652	5.71429	6.7534
11:14:35				951	9.62705	0.8236072	5.5105	1.51404	5.71429	6.65875
11:14:36				952	9.59599	0.8229657	5.5105	1.51404	5.71429	6.65891
11:14:36				953	9.56971	0.81879	5.5105	1.51404	5.95849	6.62744
11:14:37				954	9.54348	0.8131698	5.4121	1.51404	5.81197	6.58337
11:14:37				955	9.52593	0.811725	5.5105	1.51404	6.00733	6.574
11:14:38				956	9.5337	0.7877989	5.5105	1.4652	6.34921	6.3647
11:14:38				957	9.53662	0.8138127	5.5105	1.51404	6.54457	6.59021
11:14:39				958	9.55416	0.8159003	5.5105	1.51404	6.39805	6.60515
11:14:39				959	9.57748	0.7987179	5.5105	1.51404	6.25153	6.45165
11:14:40				960	9.57553	0.81622	5.5105	1.51404	5.95849	6.60402
11:14:40				961	9.56874	0.8239302	5.5105	1.4652	5.95849	6.67234
11:14:41				962	9.57165	0.8202352	5.5105	1.4652	5.71429	6.63965
11:14:41				963	9.58525	0.8224847	5.5105	1.51404	5.56777	6.65671
11:14:42				964	9.59599	0.8321204	5.5105	1.4652	5.32357	6.73855
11:14:43				967	9.6114	0.8345419	5.5105	1.4652	5.07937	6.75674
11:14:44				968	9.61819	0.8369504	5.5105	1.51404	5.22589	6.77643
11:14:44				969	9.6279	0.837753	5.4121	1.4652	5.37241	6.7816
11:14:45				970	9.6376	0.8340605	5.5105	1.51404	5.27473	6.74765

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:45				971	9.64245	0.8356662	5.5105	1.51404	5.42125	6.76071
11:14:46				972	9.64439	0.8383965	5.5105	1.4652	5.37241	6.78409
11:14:46				973	9.65021	0.8391997	5.5105	1.4652	5.27473	6.78998
11:14:47				974	9.64536	0.8387174	5.5105	1.4652	5.22589	6.7867
11:14:47				975	9.64924	0.8364684	5.5105	1.51404	5.17705	6.76641
11:14:48				976	9.64342	0.8327739	5.5105	1.51404	5.51893	6.73538
11:14:48				977	9.63857	0.8335772	5.5105	1.51404	5.42125	6.74327
11:14:49				978	9.63857	0.8361479	5.5105	1.51404	5.61661	6.76562
11:14:49				979	9.63372	0.8351846	5.5105	1.51404	5.42125	6.75815
11:14:50				980	9.63566	0.8343808	5.5105	1.51404	5.51893	6.7508
11:14:50				981	9.62596	0.8359867	5.4121	1.51404	5.42125	6.7666
11:14:51				982	9.62401	0.8367891	5.4121	1.4652	5.56777	6.77394
11:14:51				983	9.62207	0.8356662	5.5105	1.51404	5.42125	6.76453
11:14:52				984	9.62304	0.8350234	5.6089	1.51404	5.27473	6.75874
11:14:52				985	9.61916	0.832774	5.6089	1.4652	5.07937	6.7399
11:14:53				986	9.63566	0.837271	5.6089	1.4652	4.98168	6.77593
11:14:53				987	9.65021	0.8403242	5.6089	1.4652	5.03053	6.79975
11:14:54				988	9.66094	0.841126	5.6089	1.51404	4.98168	6.8047
11:14:54				989	9.66482	0.828438	5.6089	1.51404	4.93284	6.69371
11:14:55				990	9.659	0.8311681	5.5105	1.51404	5.32357	6.71852
11:14:55				991	9.65506	0.8184811	5.6089	1.51404	5.37241	6.60908
11:14:56				992	9.65215	0.8224961	5.6089	1.4652	5.47009	6.64446
11:14:56				993	9.63663	0.8311682	5.6089	1.51404	5.32357	6.72267
11:14:57				994	9.63178	0.8284381	5.7073	1.51404	5.51893	6.69983
11:14:57				995	9.63469	0.8334181	5.7073	1.51404	5.47009	6.74259
11:14:58				996	9.64051	0.8408049	5.6089	1.56288	5.32357	6.80576
11:14:58				997	9.64245	0.849479	5.6089	1.51404	5.47009	6.8809
11:14:59				998	9.65506	0.8549399	5.7073	1.4652	5.56777	6.92604
11:14:59				999	9.67355	0.8512451	5.7073	1.4652	5.47009	6.89033
11:15:00				1000	9.68519	0.8485142	5.6089	1.4652	4.93284	6.86437
11:15:00				1001	9.68422	0.8481941	5.6089	1.51404	4.98168	6.86177
11:15:01				1002	9.68422	0.8480321	5.6089	1.51404	5.12821	6.86036
11:15:01				1003	9.68907	0.8477119	5.6089	1.51404	4.73748	6.85665
11:15:02				1004	9.68713	0.8488364	5.6089	1.51404	5.07937	6.8668
11:15:02				1005	9.68616	0.8526898	5.6089	1.4652	5.32357	6.90051
11:15:03				1006	9.69004	0.840001	5.6089	1.51404	5.07937	6.78944
11:15:03				1007	9.68713	0.8414471	5.6089	1.51404	5.22589	6.80256
11:15:04				1008	9.6784	0.8409663	5.4121	1.51404	5.22589	6.80004
11:15:04				1009	9.66773	0.8348621	5.5105	1.51404	5.12821	6.74898
11:15:05				1010	9.66773	0.8268331	5.5105	1.4652	4.884	6.67925
11:15:05				1011	9.64924	0.8342196	5.5105	1.4652	5.42125	6.74686
11:15:06				1012	9.66094	0.8448213	5.5105	1.51404	4.98168	6.83685
11:15:06				1013	9.68131	0.8575091	5.5105	1.51404	4.83516	6.9434
11:15:07				1014	9.70555	0.8671479	5.6089	1.51404	4.83516	7.02264
11:15:07				1015	9.72111	0.8655414	5.6089	1.51404	4.884	7.00563
11:15:08				1016	9.71627	0.8629698	5.6089	1.4652	4.83516	6.98418

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:08				1017	9.70652	0.8628108	5.6089	1.51404	4.73748	6.98468
11:15:09				1018	9.71045	0.8629698	5.6089	1.4652	4.68864	6.9853
11:15:09				1019	9.72111	0.8710018	5.5105	1.56288	4.78632	7.05318
11:15:10				1020	9.72983	0.8775876	5.6089	1.56288	4.73748	7.10883
11:15:10				1021	9.7308	0.9052208	5.7073	1.51404	4.68864	7.34974
11:15:11				1022	9.73468	0.8922063	5.8056	1.51404	4.68864	7.23531
11:15:11				1023	9.73855	0.9577627	5.8056	1.4652	4.73748	7.80834
11:15:12				1024	9.75502	1.0058159	5.8056	1.51404	4.73748	8.22751
11:15:12				1025	9.81027	1.003726	6.0024	1.51404	4.24908	8.19652
11:15:13				1026	9.82872	0.9899041	6.1008	1.51404	3.76068	8.07082
11:15:13				1027	9.81517	1.0794414	6.1008	1.51404	3.4188	8.86402
11:15:14	11:13:50 end transect	15	135	1028	9.76671	1.1493916	6.2976	1.4652	3.4188	9.49839
11:15:14				1029	9.7007	1.1553424	6.3959	1.51404	3.46764	9.56897
11:15:15				1030	9.63566	1.1834895	6.5927	1.51404	3.51648	9.83877
11:15:15				1031	9.57541	1.1794681	6.7895	1.51404	3.36996	9.81902
11:15:16				1032	9.54718	1.2264376	6.8878	1.51404	3.27228	10.25035
11:15:16				1033	9.50144	1.2792092	6.9862	1.51404	3.22344	10.74184
11:15:17				1034	9.45372	1.3807592	7.0846	1.51404	3.22344	11.68347
11:15:17				1035	9.3602	1.5002193	7.183	1.51404	3.27228	12.8165
11:15:18				1036	9.08648	1.5237313	7.3798	1.51404	3.32112	13.13459
11:15:18				1037	8.89225	1.4488575	7.5765	1.51404	3.76068	12.50387
11:15:19				1038	8.93247	1.4520768	7.4781	1.51404	3.71184	12.51987
11:15:19				1039	9.07474	1.4854067	7.4781	1.4652	3.56532	12.78074
11:15:20				1040	9.05804	1.5002208	7.4781	1.51404	3.32112	12.92511
11:15:20				1041	8.959	1.4649587	7.4781	1.4652	3.4188	12.63094
11:15:21				1042	8.96978	1.478482	7.4781	1.51404	3.1746	12.75359
11:15:21				1043	9.05119	1.4961941	7.4781	1.51404	3.46764	12.88995
11:15:22				1044	9.05119	1.5116547	7.4781	1.4652	3.27228	13.03452
11:15:22				1045	8.98056	1.5155191	7.4781	1.4652	3.22344	13.09659
11:15:23				1046	8.88042	1.4788059	7.5765	1.4652	3.46764	12.78864
11:15:23				1047	8.90795	1.4680181	7.5765	1.51404	3.51648	12.67768
11:15:24				1048	8.95116	1.5148758	7.4781	1.51404	3.663	13.10135
11:15:24				1049	8.89618	1.46061	7.5765	1.51404	3.32112	12.61249
11:15:25				1050	8.89225	1.4507903	7.4781	1.51404	3.76068	12.52197
11:15:25				1051	8.92462	1.500542	7.4781	1.4652	3.51648	12.97657
11:15:26				1052	8.90599	1.4903984	7.5765	1.51404	3.51648	12.88815
11:15:26				1053	8.85196	1.4524007	7.4781	1.51404	4.1514	12.55125
11:15:27				1054	8.88042	1.4620599	7.4781	1.51404	3.51648	12.63168
11:15:27				1055	8.87453	1.4754244	7.4781	1.51404	3.663	12.75905
11:15:28				1056	8.85392	1.478001	7.5765	1.4652	3.51648	12.79061
11:15:28				1057	8.83029	1.4578741	7.4781	1.4652	3.36996	12.61022
11:15:29				1058	8.85785	1.4551375	7.4781	1.51404	3.663	12.57481
11:15:29				1059	8.88042	1.4604503	7.4781	1.51404	3.56532	12.6166
11:15:30				1060	8.88827	1.4293776	7.4781	1.51404	3.663	12.32312
11:15:30				1061	8.91874	1.4388746	7.4781	1.51404	3.51648	12.40128
11:15:31				1062	8.9737	1.3806005	7.5765	1.4652	3.46764	11.83964

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:31				1063	9.07865	1.3852677	7.4781	1.51404	3.46764	11.84812
11:15:32				1064	9.16377	1.4071603	7.4781	1.4652	3.22344	12.02247
11:15:32				1065	9.19803	1.3521116	7.4781	1.51404	3.36996	11.50279
11:15:33				1066	9.1951	1.3719085	7.5765	1.51404	3.51648	11.68625
11:15:33				1067	9.21859	1.3786688	7.4781	1.4652	3.27228	11.74095
11:15:34				1068	9.18826	1.4021706	7.5765	1.51404	3.02808	11.96807
11:15:34				1069	9.14423	1.3783475	7.5765	1.4652	3.51648	11.76239
11:15:35				1070	9.18142	1.3556508	7.5765	1.51404	3.4188	11.54074
11:15:35				1071	9.22055	1.358549	7.4781	1.51404	3.22344	11.55484
11:15:36				1072	9.2117	1.3056002	7.3798	1.51404	3.4188	11.07082
11:15:36				1073	9.20389	1.2969105	7.2814	1.51404	3.27228	10.99351
11:15:37				1074	9.21365	1.2761544	7.183	1.4652	3.1746	10.80033
11:15:37				1075	9.25276	1.2455843	7.183	1.51404	3.22344	10.50927
11:15:38				1076	9.31823	1.2333573	7.0846	1.51404	3.27228	10.37879
11:15:38				1077	9.39137	1.214534	6.9862	1.51404	3.4188	10.18687
11:15:39	11:14:15 start transect	15	135	1078	9.42745	1.1847771	6.9862	1.51404	3.07692	9.90743
11:15:39				1079	9.44399	1.1849376	6.8878	1.4652	3.22344	9.90433
11:15:40				1080	9.45178	1.1826855	6.9862	1.51404	3.27228	9.88184
11:15:40				1081	9.47713	1.1857406	6.8878	1.51404	3.36996	9.90245
11:15:41				1082	9.49269	1.1945885	6.9862	1.51404	3.36996	9.978
11:15:41				1083	9.49366	1.2043994	7.0846	1.51404	3.12576	10.06631
11:15:42				1084	9.48394	1.202149	7.0846	1.4652	3.12576	10.0487
11:15:43				1087	9.47737	1.2213225	7.183	1.4652	3.32112	10.22391
11:15:44				1088	9.47154	1.2152089	7.2814	1.51404	3.12576	10.17023
11:15:44				1089	9.47348	1.2092553	7.2814	1.4652	3.27228	10.11583
11:15:45				1090	9.49099	1.2121519	7.2814	1.4652	3.1746	10.13709
11:15:45				1091	9.4978	1.2288837	7.2814	1.51404	3.07692	10.2865
11:15:46				1092	9.48029	1.2290444	7.2814	1.51404	3.1746	10.29297
11:15:46				1093	9.47543	1.2549453	7.2814	1.51404	3.46764	10.52917
11:15:47				1094	9.48904	1.1968711	7.2814	1.51404	3.32112	9.99957
11:15:47				1095	9.48321	1.2354792	7.2814	1.51404	3.12576	10.35041
11:15:48				1096	9.46862	1.2271133	7.2814	1.51404	3.12576	10.27882
11:15:48				1097	9.4764	1.2113488	7.2814	1.4652	3.1746	10.13394
11:15:49				1098	9.49293	1.20266	7.183	1.51404	2.97924	10.05079
11:15:49				1099	9.48807	1.2090957	7.183	1.51404	2.97924	10.1103
11:15:50				1100	9.47446	1.2156909	7.183	1.51404	3.02808	10.17378
11:15:50				1101	9.46667	1.2184266	7.183	1.4652	3.22344	10.20074
11:15:51				1102	9.45689	1.2201946	7.183	1.4652	3.27228	10.21952
11:15:51				1103	9.45494	1.2052342	7.183	1.51404	3.12576	10.08469
11:15:52				1104	9.4657	1.198961	7.183	1.51404	3.1746	10.02497
11:15:52				1105	9.47543	1.2271133	7.183	1.51404	3.4188	10.27689
11:15:53				1106	9.48321	1.215853	7.2814	1.51404	3.22344	10.17275
11:15:53				1107	9.48029	1.2049131	7.2814	1.4652	3.12576	10.07466
11:15:54				1108	9.48224	1.2070037	7.2814	1.51404	3.07692	10.09301
11:15:54				1109	9.47737	1.2218032	7.2814	1.51404	3.12576	10.22825
11:15:55				1110	9.46862	1.2214827	7.2814	1.51404	3.07692	10.22784

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:55				1111	9.44813	1.2526934	7.2814	1.4652	3.02808	10.51672
11:15:56				1112	9.43548	1.2465791	7.2814	1.4652	3.12576	10.46489
11:15:56				1113	9.4384	1.3556844	7.2814	1.4652	3.12576	11.45868
11:15:57				1114	9.41893	1.3553626	7.2814	1.51404	3.4188	11.46194
11:15:57				1115	9.38771	1.4013978	7.2814	1.51404	3.32112	11.8946
11:15:58				1116	9.34966	1.3189898	7.2814	1.51404	3.12576	11.15077
11:15:58				1117	9.29794	1.3347616	7.2814	1.4652	3.36996	11.31149
11:15:59				1118	9.31744	1.3001626	7.2814	1.51404	3.32112	10.98846
11:15:59				1119	9.33992	1.3381424	7.2814	1.51404	3.07692	11.32924
11:16:00				1120	9.23934	1.3566511	7.3798	1.4652	3.36996	11.53132
11:16:00				1121	9.20315	1.3000013	7.2814	1.51404	3.12576	11.02209
11:16:01				1122	9.24422	1.3547197	7.2814	1.4652	3.22344	11.51199
11:16:01				1123	9.19143	1.3149668	7.2814	1.4652	3.4188	11.16314
11:16:02				1124	9.23446	1.2607384	7.2814	1.51404	3.12576	10.65305
11:16:02				1125	9.31159	1.30161	7.2814	1.4652	3.51648	11.0035
11:16:03				1126	9.30671	1.3775753	7.2814	1.51404	3.22344	11.70208
11:16:03				1127	9.25593	1.2636359	7.2814	1.4652	3.12576	10.67313
11:16:04				1128	9.29989	1.3403945	7.2814	1.4652	3.12576	11.36257
11:16:04				1129	9.25886	1.3946392	7.2814	1.4652	3.27228	11.87505
11:16:05				1130	9.16988	1.3511795	7.2814	1.4652	3.1746	11.50329
11:16:05				1131	9.18557	1.3997898	7.183	1.51404	3.56532	11.94702
11:16:06				1132	9.12388	1.3759663	7.183	1.51404	3.22344	11.74713
11:16:06				1133	9.1435	1.4094497	7.183	1.4652	3.12576	12.05056
11:16:07				1134	9.10139	1.4426135	7.183	1.51404	3.22344	12.37276
11:16:07				1135	9.04458	1.3870735	7.183	1.4652	3.32112	11.87624
11:16:08				1136	9.0485	1.4469607	7.2814	1.51404	3.1746	12.43157
11:16:08				1137	8.99158	1.4693414	7.183	1.51404	3.32112	12.66041
11:16:09				1138	8.97394	1.4693414	7.183	1.4652	3.32112	12.66667
11:16:09				1139	8.98864	1.4674085	7.183	1.51404	3.1746	12.64339
11:16:10				1140	9.00144	1.4479254	7.183	1.4652	3.36996	12.457
11:16:10				1141	8.98276	1.4509848	7.183	1.51404	3.46764	12.49208
11:16:11				1142	8.94448	1.4637058	7.183	1.51404	3.27228	12.62443
11:16:11				1143	8.93467	1.4667638	7.183	1.4652	3.27228	12.65651
11:16:12				1144	8.96414	1.4543681	7.183	1.51404	3.32112	12.5302
11:16:12				1145	8.95336	1.4619355	7.183	1.4652	3.32112	12.60473
11:16:13				1146	8.94252	1.450664	7.183	1.51404	3.1746	12.50319
11:16:13				1147	8.93663	1.4517913	7.183	1.51404	3.4188	12.51579
11:16:14				1148	8.92487	1.4500197	7.183	1.51404	3.32112	12.50336
11:16:14				1149	8.91996	1.4485698	7.183	1.51404	3.07692	12.49153
11:16:15				1150	8.92095	1.4216856	7.183	1.4652	3.12576	12.24007
11:16:15				1151	8.94546	1.4286067	7.183	1.51404	3.02808	12.29621
11:16:16				1152	8.95532	1.4327926	7.183	1.51404	3.07692	12.33185
11:16:16				1153	8.97786	1.4385875	7.183	1.4652	3.12576	12.3781
11:16:17				1154	8.971	1.3769337	7.183	1.51404	3.1746	11.80654
11:16:17				1155	9.03277	1.3664692	7.183	1.4652	3.07692	11.68912
11:16:18				1156	9.08965	1.3883609	7.0846	1.51404	2.97924	11.8732

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:18				1157	9.11019	1.3529496	7.183	1.51404	3.12576	11.53887
11:16:19				1158	9.1689	1.2744173	7.0846	1.51404	3.12576	10.79793
11:16:19				1159	9.26081	1.2814961	7.0846	1.51404	3.07692	10.83499
11:16:20				1160	9.29501	1.2898621	7.183	1.4652	3.02808	10.90112
11:16:20				1161	9.30574	1.2306537	7.183	1.4652	3.12576	10.35779
11:16:21				1162	9.36525	1.2160134	7.183	1.51404	3.07692	10.20768
11:16:21				1163	9.42088	1.2271135	7.0846	1.4652	3.1746	10.29251
11:16:22				1164	9.42867	1.2422359	7.0846	1.51404	3.02808	10.42748
11:16:22				1165	9.42088	1.2023395	7.0846	1.51404	3.22344	10.06807
11:16:23				1166	9.44034	1.221	7.0846	1.4652	3.12576	10.23154
11:16:23				1167	9.44813	1.2322603	7.0846	1.51404	3.12576	10.33136
11:16:24				1168	9.41796	1.2959762	7.0846	1.51404	3.1746	10.91958
11:16:24				1169	9.38869	1.2145651	7.0846	1.51404	3.02808	10.1879
11:16:25				1170	9.41699	1.2230923	7.0846	1.51404	3.07692	10.25716
11:16:25				1171	9.4384	1.2451329	7.0846	1.4652	3.22344	10.45095
11:16:26				1172	9.39843	1.2748981	7.0846	1.51404	3.22344	10.73338
11:16:26				1173	9.3809	1.2037868	7.0846	1.4652	3.07692	10.0924
11:16:27				1174	9.41893	1.2250209	7.0846	1.51404	3.12576	10.2741
11:16:27				1175	9.43256	1.2526935	6.9862	1.51404	2.97924	10.52132
11:16:28				1176	9.36428	1.3234954	7.0846	1.4652	3.02808	11.18748
11:16:28				1177	9.29989	1.2378923	7.0846	1.4652	3.12576	10.4254
11:16:29				1178	9.37018	1.2728067	7.0846	1.4652	3.07692	10.72277
11:16:29				1179	9.35551	1.3313814	7.0846	1.51404	3.02808	11.26242
11:16:30				1180	9.30476	1.2325846	7.0846	1.51404	3.27228	10.37566
11:16:30				1181	9.36525	1.2779553	7.0846	1.51404	3.1746	10.77118
11:16:31				1182	9.34869	1.3281633	7.0846	1.51404	3.1746	11.23509
11:16:31				1183	9.27648	1.2813351	7.0846	1.4652	3.02808	10.82878
11:16:32				1184	9.27258	1.2700709	7.0846	1.51404	3.1746	10.72699
11:16:32				1185	9.31549	1.2773126	7.0846	1.51404	3.32112	10.78026
11:16:33				1186	9.32725	1.3138403	7.0846	1.51404	3.12576	11.11063
11:16:33				1187	9.32627	1.3576168	7.0846	1.51404	2.97924	11.51231
11:16:34				1188	9.26861	1.298552	7.183	1.4652	2.9304	10.98871
11:16:34				1189	9.2569	1.2634736	7.183	1.4652	3.32112	10.67138
11:16:35				1190	9.31256	1.3188296	7.183	1.4652	3.4188	11.16086
11:16:35				1191	9.2569	1.3701706	7.183	1.51404	2.97924	11.65016
11:16:36				1192	9.21975	1.2811744	7.183	1.51404	3.1746	10.84445
11:16:36				1193	9.22958	1.3521438	7.183	1.4652	3.02808	11.49301
11:16:37				1194	9.19534	1.3603527	7.183	1.4652	3.1746	11.57966
11:16:37				1195	9.18557	1.3130356	7.183	1.51404	3.1746	11.14724
11:16:38				1196	9.20608	1.3128754	7.183	1.4652	3.07692	11.13938
11:16:38				1197	9.26178	1.3276812	7.183	1.51404	3.1746	11.25791
11:16:39				1198	9.28136	1.2658884	7.183	1.4652	3.1746	10.68615
11:16:39				1199	9.32627	1.2588084	7.183	1.51404	3.1746	10.60821
11:16:40				1200	9.35648	1.2185871	7.183	1.51404	3.12576	10.23354
11:16:40				1201	9.39843	1.1992839	7.183	1.51404	3.12576	10.04668
11:16:41				1202	9.4598	1.2184266	7.183	1.51404	3.22344	10.20269

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:41				1203	9.45397	1.1965488	7.183	1.4652	3.22344	10.00644
11:16:42				1204	9.48613	1.1455624	7.183	1.51404	3.1746	9.53803
11:16:43				1207	9.47512	1.2528641	7.183	1.51404	3.27228	10.51038
11:16:44				1208	9.4547	1.2271223	7.183	1.51404	3.1746	10.2829
11:16:44				1209	9.43031	1.3202867	7.183	1.4652	3.1746	11.13761
11:16:45				1210	9.29373	1.2982399	7.183	1.51404	3.07692	10.97815
11:16:45				1211	9.27715	1.3206083	7.183	1.4652	3.12576	11.1882
11:16:46				1212	9.24977	1.3956134	7.2814	1.51404	3.02808	11.88705
11:16:46				1213	9.14221	1.3656743	7.2814	1.4652	3.32112	11.646
11:16:47				1214	9.13635	1.3241504	7.2814	1.51404	3.12576	11.2649
11:16:47				1215	9.20773	1.3347712	7.2814	1.4652	3.22344	11.3401
11:16:48				1216	9.22244	1.3537637	7.183	1.4652	3.22344	11.51021
11:16:48				1217	9.22634	1.288747	7.183	1.51404	3.32112	10.91182
11:16:49				1218	9.28885	1.2280884	7.183	1.56288	3.27228	10.33931
11:16:49				1219	9.38059	1.2155402	7.183	1.51404	3.22344	10.19903
11:16:50				1220	9.43615	1.2359711	7.183	1.4652	3.4188	10.36845
11:16:50				1221	9.44594	1.2105526	7.183	1.4652	3.12576	10.13534
11:16:51				1222	9.46151	1.2150557	7.183	1.51404	3.12576	10.1717
11:16:51				1223	9.47123	1.2187556	7.183	1.51404	2.97924	10.20242
11:16:52				1224	9.46734	1.2382227	7.183	1.51404	3.02808	10.37986
11:16:52				1225	9.43128	1.2313049	7.2814	1.51404	3.07692	10.32751
11:16:53				1226	9.4196	1.2444965	7.183	1.4652	3.07692	10.45062
11:16:53				1227	9.40792	1.2795742	7.2814	1.51404	3.1746	10.7731
11:16:54				1228	9.38059	1.2592989	7.183	1.51404	3.1746	10.59663
11:16:54				1229	9.37767	1.3297811	7.2814	1.51404	3.1746	11.24079
11:16:55				1230	9.32499	1.2654146	7.2814	1.51404	3.1746	10.66881
11:16:55				1231	9.33571	1.2922869	7.2814	1.4652	3.22344	10.91089
11:16:56				1232	9.33181	1.2695987	7.2814	1.51404	3.36996	10.70494
11:16:56				1233	9.34351	1.2662175	7.3798	1.4652	3.36996	10.67061
11:16:57				1234	9.35039	1.2560814	7.3798	1.51404	3.32112	10.57621
11:16:57				1235	9.35721	1.264287	7.183	1.51404	3.22344	10.64897
11:16:58				1236	9.36111	1.2852053	7.2814	1.4652	3.12576	10.83853
11:16:58				1237	9.34741	1.2721717	7.3798	1.4652	3.32112	10.72374
11:16:59				1238	9.34844	1.2745862	7.2814	1.51404	3.07692	10.74546
11:16:59				1239	9.32694	1.3215757	7.183	1.4652	3.22344	11.18153
11:17:00				1240	9.27617	1.3254375	7.183	1.51404	2.97924	11.2328
11:17:00				1241	9.26349	1.267346	7.183	1.4652	3.12576	10.70479
11:17:01				1242	9.30939	1.3164245	7.0846	1.4652	3.02808	11.13983
11:17:01				1243	9.32889	1.3605237	7.0846	1.51404	3.07692	11.53816
11:17:02				1244	9.25666	1.3016193	7.183	1.51404	3.07692	11.02048
11:17:02				1245	9.25471	1.3841857	7.0846	1.51404	3.27228	11.78004
11:17:03				1246	9.14124	1.4049524	7.183	1.4652	3.27228	12.00965
11:17:03				1247	9.09522	1.3774248	7.183	1.51404	3.22344	11.77006
11:17:04				1248	9.10695	1.3814489	7.183	1.51404	3.32112	11.80344
11:17:04				1249	9.16475	1.3912695	7.2814	1.4652	3.36996	11.87514
11:17:05				1250	9.13146	1.4064016	7.3798	1.51404	3.22344	12.02633

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:05				1251	9.06483	1.3647087	7.3798	1.51404	3.07692	11.66229
11:17:06				1252	9.07467	1.4184756	7.3798	1.4652	3.27228	12.15757
11:17:06				1253	9.00407	1.4221784	7.3798	1.4652	3.4188	12.21611
11:17:07				1254	8.94913	1.4284578	7.4781	1.4652	3.4188	12.2935
11:17:07				1255	8.95305	1.4263643	7.4781	1.51404	3.4188	12.27262
11:17:08				1256	8.95305	1.4257195	7.5765	1.51404	3.46764	12.26659
11:17:08				1257	8.92848	1.4260432	7.5765	1.51404	3.36996	12.27807
11:17:09				1258	8.91279	1.3959382	7.4781	1.51404	3.85836	12.00272
11:17:09				1259	8.93535	1.3481312	7.4781	1.4652	3.36996	11.55079
11:17:10				1260	8.97266	1.3748514	7.4781	1.51404	3.46764	11.7866
11:17:10				1261	9.05015	1.3700204	7.4781	1.51404	3.36996	11.71627
11:17:11	11:15:47 end transect	15	270	1262	9.05602	1.3499013	7.4781	1.51404	3.4188	11.52814
11:17:11				1263	9.05308	1.3284955	7.4781	1.4652	3.51648	11.33127
11:17:12				1264	9.08935	1.3375076	7.4781	1.4652	3.36996	11.40293
11:17:12				1265	9.13733	1.3558571	7.4781	1.51404	3.46764	11.5569
11:17:13				1266	9.15394	1.3309086	7.4781	1.51404	3.27228	11.32155
11:17:13				1267	9.19308	1.3204482	7.4781	1.51404	3.32112	11.21297
11:17:14				1268	9.20382	1.3862785	7.5765	1.51404	3.22344	11.81603
11:17:14				1269	9.18624	1.3305866	7.5765	1.4652	3.02808	11.30835
11:17:15				1270	9.28007	1.3423366	7.4781	1.51404	3.36996	11.38665
11:17:15				1271	9.25666	1.3819312	7.4781	1.51404	3.4188	11.75855
11:17:16				1272	9.15296	1.3511889	7.5765	1.51404	3.56532	11.50876
11:17:16				1273	9.14026	1.3423372	7.5765	1.51404	3.1746	11.4312
11:17:17				1274	9.22634	1.4139664	7.4781	1.4652	3.27228	12.06439
11:17:17				1275	9.1755	1.3965812	7.4781	1.4652	3.22344	11.92065
11:17:18				1276	9.14026	1.3853118	7.4781	1.51404	3.1746	11.82812
11:17:18				1277	9.14319	1.3695387	7.4781	1.51404	3.1746	11.68134
11:17:19				1278	9.14417	1.3595577	7.5765	1.51404	3.56532	11.58883
11:17:19				1279	9.15003	1.2996894	7.5765	1.41636	3.1746	11.03555
11:17:20				1280	9.17452	1.307895	7.4781	1.51404	3.27228	11.10339
11:17:20				1281	9.17745	1.3032297	7.5765	1.51404	3.12576	11.05961
11:17:21				1282	9.21072	1.3305865	7.5765	1.51404	3.4188	11.30062
11:17:21				1283	9.23415	1.3127244	7.4781	1.51404	2.97924	11.12922
11:17:22				1284	9.2283	1.3021029	7.4781	1.4652	2.9304	11.03359
11:17:22				1285	9.23318	1.3265651	7.4781	1.4652	3.27228	11.2566
11:17:23				1286	9.25666	1.2909984	7.4781	1.51404	3.12576	10.92314
11:17:23				1287	9.28983	1.2443379	7.4781	1.51404	3.12576	10.48699
11:17:24				1288	9.31622	1.2219752	7.4781	1.51404	3.12576	10.27578
11:17:24				1289	9.37572	1.226318	7.4781	1.4652	3.32112	10.29818
11:17:25				1290	9.39325	1.2324302	7.4781	1.51404	2.97924	10.34864
11:17:25				1291	9.38546	1.1933401	7.5765	1.51404	3.22344	9.99642
11:17:26				1292	9.43031	1.1811141	7.5765	1.51404	3.36996	9.87346
11:17:26				1293	9.50047	1.1708205	7.5765	1.51404	3.22344	9.76145
11:17:27				1294	9.53546	1.1669591	7.4781	1.4652	3.1746	9.71723
11:17:27				1295	9.59095	1.1483028	7.4781	1.4652	3.27228	9.53483
11:17:28				1296	9.62007	1.1494292	7.4781	1.51404	3.1746	9.53722

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:28				1297	9.62687	1.1449254	7.4781	1.4652	3.27228	9.49508
11:17:29				1298	9.61813	1.1553798	7.4781	1.51404	3.36996	9.59108
11:17:29				1299	9.62492	1.1462115	7.4781	1.4652	3.07692	9.50711
11:17:30				1300	9.6356	1.1199982	7.4781	1.51404	2.97924	9.2698
11:17:30				1301	9.64439	1.1409053	7.4781	1.51404	3.07692	9.45448
11:17:31				1302	9.64148	1.1518402	7.4781	1.4652	3.36996	9.55316
11:17:31				1303	9.63075	1.1447646	7.4781	1.51404	3.1746	9.49261
11:17:32				1304	9.63172	1.1431557	7.5765	1.51404	3.4188	9.47794
11:17:32				1305	9.62881	1.1347942	7.4781	1.51404	3.07692	9.40387
11:17:33				1306	9.62687	1.1262698	7.4781	1.4652	3.07692	9.32811
11:17:33				1307	9.62492	1.1513592	7.4781	1.4652	3.51648	9.55323
11:17:34				1308	9.62492	1.1343115	7.4781	1.51404	3.4188	9.40056
11:17:34				1309	9.62687	1.1323813	7.5765	1.51404	3.22344	9.38277
11:17:35				1310	9.6259	1.14991	7.4781	1.51404	3.07692	9.53999
11:17:35				1311	9.62298	1.1473373	7.4781	1.51404	3.02808	9.51771
11:17:36				1312	9.61522	1.1333463	7.4781	1.4652	3.1746	9.39445
11:17:36				1313	9.6191	1.146694	7.5765	1.51404	3.27228	9.51295
11:17:37				1314	9.62395	1.1703382	7.5765	1.51404	3.1746	9.7237
11:17:37				1315	9.62881	1.1294861	7.4781	1.4652	2.9304	9.35638
11:17:38				1316	9.63463	1.1235357	7.4781	1.4652	3.07692	9.30166
11:17:38				1317	9.63269	1.1801488	7.4781	1.4652	3.12576	9.80944
11:17:39				1318	9.63269	1.1684072	7.5765	1.51404	3.51648	9.70402
11:17:39				1319	9.62201	1.1552186	7.4781	1.51404	3.27228	9.5886
11:17:40				1320	9.62395	1.1483026	7.4781	1.51404	3.07692	9.5261
11:17:40				1321	9.62687	1.183206	7.4781	1.51404	3.32112	9.83849
11:17:41				1322	9.60163	1.2018655	7.4781	1.4652	3.32112	10.01329
11:17:41				1323	9.58118	1.1973611	7.5765	1.51404	3.07692	9.97838
11:17:42				1324	9.56661	1.1851352	7.5765	1.51404	3.12576	9.87231
11:17:43				1327	9.55107	1.2097406	7.5765	1.4652	3.46764	10.09837
11:17:44				1328	9.52192	1.2002494	7.4781	1.4652	3.12576	10.02089
11:17:44				1329	9.51803	1.2073271	7.5765	1.51404	3.46764	10.08585
11:17:45				1330	9.5122	1.1986404	7.4781	1.51404	3.22344	10.00908
11:17:45				1331	9.50047	1.1981566	7.4781	1.51404	3.02808	10.00797
11:17:46				1332	9.49658	1.2058785	7.4781	1.4652	3.22344	10.07879
11:17:46				1333	9.49172	1.2211622	7.4781	1.4652	3.27228	10.21834
11:17:47				1334	9.48783	1.2079698	7.4781	1.51404	3.36996	10.10015
11:17:47				1335	9.48686	1.2020186	7.5765	1.51404	3.22344	10.04663
11:17:48				1336	9.48977	1.2179441	7.4781	1.51404	3.663	10.18978
11:17:48				1337	9.48102	1.2127955	7.5765	1.4652	3.4188	10.14567
11:17:49				1338	9.4781	1.2066825	7.4781	1.51404	3.07692	10.09124
11:17:49				1339	9.4781	1.218909	7.4781	1.51404	3.27228	10.20182
11:17:50				1340	9.47421	1.2218054	7.4781	1.51404	3.22344	10.22913
11:17:50				1341	9.46838	1.2136013	7.5765	1.51404	2.97924	10.15653
11:17:51				1342	9.46643	1.2132794	7.4781	1.4652	3.02808	10.15419
11:17:51				1343	9.46935	1.2177841	7.4781	1.4652	3.12576	10.19412
11:17:52				1344	9.46546	1.2206795	7.5765	1.51404	3.07692	10.22142

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:52				1345	9.45962	1.2161752	7.4781	1.4652	3.27228	10.18232
11:17:53				1346	9.46351	1.215049	7.4781	1.51404	3.22344	10.17102
11:17:53				1347	9.46935	1.2206795	7.4781	1.4652	3.1746	10.22033
11:17:54				1348	9.46449	1.2218055	7.4781	1.4652	3.1746	10.2319
11:17:54				1349	9.46351	1.2208397	7.5765	1.51404	3.1746	10.22342
11:17:55				1350	9.46546	1.2182665	7.4781	1.51404	3.1746	10.19959
11:17:55				1351	9.46643	1.2279182	7.4781	1.51404	2.97924	10.2867
11:17:56				1352	9.46546	1.2356402	7.5765	1.4652	3.02808	10.35693
11:17:56				1353	9.45573	1.2317803	7.5765	1.51404	3.12576	10.32475
11:17:57				1354	9.45275	1.2251835	7.5765	1.51404	3.1746	10.26583
11:17:57				1355	9.45768	1.2443283	7.4781	1.4652	3.4188	10.43798
11:17:58				1356	9.45178	1.237894	7.5765	1.51404	3.4188	10.38131
11:17:58				1357	9.44886	1.2359621	7.5765	1.4652	2.9304	10.36464
11:17:59				1358	9.44983	1.2449715	7.4781	1.4652	3.07692	10.4461
11:17:59				1359	9.44594	1.2557527	7.4781	1.51404	3.12576	10.54511
11:18:00				1360	9.44205	1.2489952	7.4781	1.51404	2.83272	10.48488
11:18:00				1361	9.4401	1.2432013	7.4781	1.51404	2.83272	10.43286
11:18:01				1362	9.4401	1.3180249	7.5765	1.4652	3.22344	11.11386
11:18:01				1363	9.43621	1.2876108	7.5765	1.4652	3.27228	10.83774
11:18:02				1364	9.43524	1.2758639	7.4781	1.51404	3.32112	10.73111
11:18:02				1365	9.43524	1.3532722	7.5765	1.4652	2.88156	11.43756
11:18:03				1366	9.42842	1.3265551	7.5765	1.56288	3.07692	11.19538
11:18:03				1367	9.40993	1.3395918	7.4781	1.51404	2.9304	11.3204
11:18:04				1368	9.38455	1.3194732	7.4781	1.4652	3.27228	11.14432
11:18:04				1369	9.39818	1.3733922	7.4781	1.51404	3.02808	11.63386
11:18:05				1370	9.38552	1.4076786	7.4781	1.51404	3.02808	11.95307
11:18:05				1371	9.34065	1.322532	7.4781	1.51404	2.88156	11.18597
11:18:06				1372	9.35819	1.3268769	7.4781	1.51404	3.22344	11.22027
11:18:06				1373	9.30744	1.4236165	7.5765	1.4652	2.97924	12.12616
11:18:07				1374	9.24885	1.4041372	7.4781	1.51404	3.1746	11.96601
11:18:07				1375	9.22348	1.3645385	7.5765	1.51404	3.07692	11.60906
11:18:08				1376	9.2469	1.3856242	7.4781	1.51404	3.12576	11.79581
11:18:08				1377	9.2225	1.4026891	7.5765	1.51404	3.02808	11.96142
11:18:09				1378	9.20096	1.4075173	7.5765	1.4652	3.07692	12.01327
11:18:09				1379	9.18728	1.3529516	7.5765	1.4652	3.12576	11.51397
11:18:10				1380	9.19119	1.3510199	7.5765	1.51404	3.32112	11.49491
11:18:10				1381	9.22055	1.3777389	7.4781	1.51404	3.07692	11.73173
11:18:11				1382	9.18631	1.4036539	7.5765	1.51404	3.12576	11.98245
11:18:11				1383	9.16377	1.3737145	7.5765	1.4652	3.02808	11.71317
11:18:12				1384	9.15791	1.362125	7.5765	1.51404	3.1746	11.60807
11:18:12				1385	9.16768	1.3634129	7.4781	1.4652	3.36996	11.6168
11:18:13				1386	9.20096	1.3473167	7.4781	1.51404	3.56532	11.45769
11:18:13				1387	9.15303	1.3782216	7.5765	1.51404	3.1746	11.75834
11:18:14				1388	9.14618	1.3412023	7.4781	1.51404	2.88156	11.41886
11:18:14				1389	9.24885	1.3439382	7.4781	1.4652	3.22344	11.4113
11:18:15				1390	9.24202	1.3310623	7.4781	1.4652	3.27228	11.29513

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:15				1391	9.24397	1.3157723	7.4781	1.51404	3.22344	11.15413
11:18:16				1392	9.25471	1.3189925	7.4781	1.51404	3.4188	11.18033
11:18:16				1393	9.25081	1.3064401	7.5765	1.51404	3.36996	11.0664
11:18:17				1394	9.2469	1.3038635	7.5765	1.51404	2.97924	11.04398
11:18:17				1395	9.25178	1.2876116	7.5765	1.4652	3.32112	10.89361
11:18:18				1396	9.28501	1.2887377	7.5765	1.51404	3.07692	10.89381
11:18:18				1397	9.31628	1.2457769	7.4781	1.51404	3.36996	10.49236
11:18:19				1398	9.38552	1.245456	7.2814	1.51404	3.22344	10.46925
11:18:19				1399	9.44983	1.1939752	7.183	1.4652	3.12576	9.98433
11:18:20				1400	9.49366	1.1799802	6.8878	1.4652	3.4188	9.84595
11:18:20				1401	9.61625	1.1545669	6.5927	1.51404	3.1746	9.58442
11:18:21				1402	9.69488	1.1024622	6.3959	1.51404	3.12576	9.0984
11:18:21				1403	9.67064	1.083168	6.3959	1.51404	3.22344	8.93267
11:18:22				1404	9.68131	1.0916906	6.2976	1.4652	3.22344	9.0059
11:18:22				1405	9.70948	1.0802729	6.2976	1.4652	3.1746	8.89735
11:18:23				1406	9.72887	1.0704669	6.2976	1.51404	3.46764	8.80551
11:18:23				1407	9.75508	1.0794692	6.1992	1.51404	3.22344	8.879
11:18:24				1408	9.74921	1.0093775	6.0024	1.51404	3.07692	8.26022
11:18:24				1409	9.77155	0.9884832	5.8056	1.51404	3.56532	8.07112
11:18:25				1410	9.72305	0.8774494	5.6089	1.4652	4.05372	7.10896
11:18:25				1411	9.74049	0.9179354	5.5105	1.51404	4.1514	7.45893
11:18:26				1412	9.80936	0.8699007	5.5105	1.51404	5.22589	7.02642
11:18:26				1413	9.79285	0.8605829	5.4121	1.51404	5.56777	6.94869
11:18:27				1414	9.7822	0.8498204	5.4121	1.51404	5.56777	6.85731
11:18:27				1415	9.74824	0.8043693	5.5105	1.4652	5.47009	6.47002
11:18:28				1416	9.71821	0.831992	5.6089	1.51404	6.05617	6.71465
11:18:28				1417	9.70948	0.8352057	5.5105	1.51404	5.66545	6.74417
11:18:29				1418	9.71627	0.8191445	5.5105	1.51404	6.20269	6.60364
11:18:29				1419	9.70561	0.8176981	5.5105	1.51404	5.90965	6.59306
11:18:30				1420	9.69876	0.8239627	5.6089	1.4652	5.42125	6.6486
11:18:30				1421	9.69973	0.8034051	5.5105	1.51404	5.66545	6.47037
11:18:31				1422	9.69197	0.7936097	5.5105	1.51404	5.86081	6.38704
11:18:31				1423	9.68034	0.7910417	5.6089	1.51404	5.76313	6.36689
11:18:32				1424	9.67355	0.7971438	5.6089	1.51404	5.71429	6.42086
11:18:32				1425	9.67258	0.7965015	5.5105	1.4652	5.61661	6.41549
11:18:33				1426	9.67452	0.7704877	5.6089	1.51404	6.00733	6.19041
11:18:33				1427	9.67161	0.7924856	5.5105	1.51404	6.69109	6.38092
11:18:34				1428	9.67064	0.8046897	5.5105	1.51404	6.15385	6.48671
11:18:34				1429	9.68131	0.7920049	5.5105	1.51404	6.10501	6.37505
11:18:35				1430	9.67646	0.7793189	5.5105	1.4652	5.86081	6.2663
11:18:35				1431	9.65803	0.7847784	5.6089	1.51404	5.90965	6.31666
11:18:36				1432	9.65221	0.8088664	5.5105	1.51404	6.69109	6.52622
11:18:36				1433	9.691	0.7907194	5.4121	1.51404	6.39805	6.36224
11:18:37				1434	9.691	0.7576425	5.4121	1.51404	6.00733	6.07693
11:18:37				1435	9.66482	0.7852596	5.5105	1.4652	6.00733	6.31964
11:18:38				1436	9.65803	0.7688816	5.5105	1.51404	6.05617	6.17939

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:38				1437	9.65118	0.7682394	5.5105	1.56288	5.66545	6.17502
11:18:39				1438	9.6473	0.6849261	5.4121	1.51404	6.15385	5.46019
11:18:39				1439	9.62693	0.7106062	5.5105	1.51404	7.57021	5.68317
11:18:40				1440	9.60066	0.7128538	5.5105	1.4652	7.22833	5.7066
11:18:40				1441	9.60266	0.7393414	5.5105	1.51404	7.13065	5.93404
11:18:41				1442	9.60751	0.7162239	5.5105	1.51404	7.37485	5.73445
11:18:41				1443	9.60946	0.7046667	5.5105	1.51404	7.17949	5.63497
11:18:42				1444	9.60163	0.6833198	5.5105	1.51404	7.03297	5.45336
11:18:43				1447	9.58191	0.6769061	5.5105	1.51404	6.88645	5.40147
11:18:44				1448	9.57997	0.671128	5.5105	1.51404	6.69109	5.35237
11:18:44				1449	9.5722	0.6043775	5.4121	1.51404	7.08181	4.78548
11:18:45				1450	9.56145	0.6080688	5.4121	1.4652	7.37485	4.8182
11:18:45				1451	9.54008	0.6451319	5.5105	1.51404	7.17949	5.13627
11:18:46				1452	9.54202	0.5987625	5.4121	1.51404	7.57021	4.7419
11:18:46				1453	9.53327	0.520172	5.4121	1.51404	7.86325	4.08084
11:18:47				1454	9.47288	0.5299537	5.4121	1.51404	8.40049	4.16982
11:18:47				1455	9.43493	0.5256247	5.4121	1.4652	8.30281	4.13781
11:18:48				1456	9.41638	0.5732577	5.5105	1.51404	8.98657	4.54201
11:18:48				1457	9.41832	0.539096	5.5105	1.51404	8.59585	4.25312
11:18:49				1458	9.4193	0.5261056	5.5105	1.51404	8.64469	4.14364
11:18:49				1459	9.40177	0.5334825	5.6089	1.51404	8.98657	4.20776
11:18:50				1460	9.39788	0.5506427	5.5105	1.4652	8.30281	4.35299
11:18:50				1461	9.42222	0.5498404	5.5105	1.51404	8.84005	4.34328
11:18:51				1462	9.4154	0.5310765	5.5105	1.51404	8.74237	4.18592
11:18:51				1463	9.41054	0.5315588	5.5105	1.51404	8.20513	4.19055
11:18:52				1464	9.40664	0.541982	5.5105	1.51404	8.10745	4.27884
11:18:52				1465	9.41443	0.5192103	5.4121	1.4652	8.20513	4.08624
11:18:53				1466	9.41346	0.5302757	5.5105	1.51404	8.59585	4.17941
11:18:53				1467	9.40859	0.5283503	5.5105	1.51404	8.30281	4.16376
11:18:54				1468	9.40275	0.5277089	5.6089	1.4652	8.05861	4.15904
11:18:54				1469	9.40177	0.5254651	5.5105	1.51404	8.64469	4.14027
11:18:55				1470	9.40372	0.5227387	5.5105	1.4652	8.15629	4.11711
11:18:55				1471	9.40275	0.5301156	5.2153	1.56288	8.35165	4.17932
11:18:56				1472	9.4008	0.54118	5.5105	1.51404	8.84005	4.27277
11:18:56				1473	9.39593	0.5315588	5.6089	1.51404	9.13309	4.19224
11:18:57				1474	9.39106	0.528512	5.5105	1.51404	8.59585	4.16715
11:18:57				1475	9.39593	0.5384544	5.5105	1.4652	8.20513	4.25036
11:18:58				1476	9.3969	0.610957	5.5105	1.51404	8.44933	4.86486
11:18:58				1477	9.40664	0.5543314	5.4121	1.51404	8.54701	4.3831
11:18:59				1478	9.40956	0.5397362	5.4121	1.51404	8.20513	4.25956
11:18:59				1479	9.40859	0.6733754	5.5105	1.51404	8.54701	5.3972
11:19:00				1480	9.44077	0.6119182	5.4121	1.4652	8.49817	4.86712
11:19:00				1481	9.45926	0.5775893	5.5105	1.4652	8.15629	4.57327
11:19:01				1482	9.45147	0.6244326	5.4121	1.51404	8.54701	4.97225
11:19:01				1483	9.47093	0.7313215	5.5105	1.51404	8.30281	5.88649
11:19:02				1484	9.48655	0.6526747	5.4121	1.51404	8.74237	5.20835

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:02				1485	9.4885	0.6361468	5.5105	1.4652	8.00977	5.06696
11:19:03				1486	9.49044	0.7285912	5.4121	1.51404	8.44933	5.85974
11:19:03				1487	9.52161	0.6937582	5.5105	1.56288	8.69353	5.55502
11:19:04				1488	9.54008	0.6480205	5.5105	1.51404	8.44933	5.1609
11:19:04				1489	9.52258	0.7245779	5.5105	1.51404	8.30281	5.81992
11:19:05				1490	9.55562	0.7112546	5.5105	1.4652	8.25397	5.69999
11:19:05				1491	9.58579	0.649946	5.5105	1.51404	7.86325	5.17077
11:19:06				1492	9.54688	0.6507483	5.5105	1.51404	7.13065	5.1832
11:19:06				1493	9.5323	0.7332475	5.4121	1.51404	7.71673	5.89307
11:19:07				1494	9.55854	0.7212063	5.5105	1.51404	8.00977	5.7851
11:19:07				1495	9.5722	0.6783499	5.5105	1.4652	7.76557	5.41528
11:19:08				1496	9.57025	0.6744995	5.5105	1.51404	7.37485	5.38264
11:19:08				1497	9.54785	0.7062779	5.4121	1.51404	7.32601	5.65846
11:19:09				1498	9.56436	0.7120578	5.5105	1.4652	7.42369	5.70551
11:19:09				1499	9.57414	0.6794733	5.5105	1.51404	7.42369	5.4246
11:19:10				1500	9.57705	0.6788326	5.5105	1.4652	7.08181	5.41868
11:19:10				1501	9.55854	0.7199227	5.5105	1.51404	7.27717	5.77406
11:19:11				1502	9.57802	0.7162313	5.5105	1.51404	7.57021	5.73921
11:19:11				1503	9.58968	0.7027467	5.5105	1.51404	6.93529	5.6216
11:19:12				1504	9.58968	0.6940796	5.4121	1.51404	6.69109	5.5473
11:19:12				1505	9.58385	0.7250596	5.5105	1.4652	6.98413	5.81418
11:19:13				1506	9.58968	0.7380624	5.5105	1.51404	7.42369	5.92516
11:19:13				1507	9.60036	0.7168719	5.5105	1.51404	7.37485	5.74115
11:19:14				1508	9.60327	0.712218	5.5105	1.51404	6.88645	5.70073
11:19:14				1509	9.58676	0.7444853	5.5105	1.51404	7.17949	5.98098
11:19:15				1510	9.60133	0.7459287	5.5105	1.51404	6.93529	5.99101
11:19:15				1511	9.60909	0.7375815	5.5105	1.51404	7.03297	5.91783
11:19:16				1512	9.60812	0.7306782	5.5105	1.51404	6.49573	5.85858
11:19:16				1513	9.60715	0.7284313	5.5105	1.51404	6.39805	5.83941
11:19:17				1514	9.61006	0.7454481	5.5105	1.51404	7.03297	5.98542
11:19:17				1515	9.61886	0.7407928	5.5105	1.4652	6.98413	5.94387
11:19:18				1516	9.62371	0.7362979	5.5105	1.51404	6.78877	5.90438
11:19:18				1517	9.62662	0.7382226	5.5105	1.51404	6.93529	5.92047
11:19:19				1518	9.62468	0.7462504	5.4121	1.51404	6.78877	5.98991
11:19:19				1519	9.62468	0.7435209	5.5105	1.51404	7.13065	5.9664
11:19:20				1520	9.62953	0.7354934	5.5105	1.4652	6.44689	5.89651
11:19:20				1521	9.62371	0.7452872	5.5105	1.51404	6.83761	5.98177
11:19:21				1522	9.62662	0.747856	5.5105	1.51404	7.27717	6.00341
11:19:21				1523	9.63245	0.7456089	5.5105	1.51404	6.83761	5.98309
11:19:22				1524	9.63439	0.7435209	5.5105	1.51404	6.59341	5.96479
11:19:22				1525	9.63633	0.7387055	5.5105	1.4652	6.39805	5.92303
11:19:23				1526	9.63342	0.7468921	5.5105	1.56288	6.88645	5.99398
11:19:23				1527	9.63245	0.7613434	5.5105	1.56288	6.64225	6.11871
11:19:24				1528	9.63827	0.7529946	5.6089	1.51404	6.49573	6.04573
11:19:24				1529	9.64312	0.7433602	5.5105	1.51404	6.39805	5.96196
11:19:25				1530	9.62662	0.7563647	5.5105	1.4652	6.73993	6.07675

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:25				1531	9.62953	0.7541168	5.5105	1.51404	6.78877	6.05688
11:19:26				1532	9.62953	0.747053	5.5105	1.51404	6.54457	5.99601
11:19:26				1533	9.6305	0.7459287	5.5105	1.51404	6.59341	5.98617
11:19:27				1534	9.62565	0.7537958	5.5105	1.51404	6.54457	6.05476
11:19:27				1535	9.6208	0.7509074	5.5105	1.4652	6.69109	6.03068
11:19:28				1536	9.61686	0.7475359	5.5105	1.51404	6.64225	6.00228
11:19:28				1537	9.61886	0.7531541	5.5105	1.56288	6.69109	6.05037
11:19:29				1538	9.61492	0.7602196	5.5105	1.4652	6.78877	6.11198
11:19:29				1539	9.61589	0.7509074	5.5105	1.51404	6.93529	6.0315
11:19:30				1540	9.61686	0.7529946	5.5105	1.4652	6.59341	6.04933
11:19:30				1541	9.61297	0.7550818	5.5105	1.51404	6.78877	6.06798
11:19:31				1542	9.61297	0.757169	5.5105	1.51404	7.03297	6.08599
11:19:31				1543	9.61789	0.756686	5.5105	1.51404	6.73993	6.08099
11:19:32				1544	9.61686	0.7594162	5.5105	1.51404	6.49573	6.10472
11:19:32				1545	9.62177	0.7570074	5.5105	1.4652	6.64225	6.08311
11:19:33				1546	9.62371	0.7574886	5.5105	1.56288	6.25153	6.08693
11:19:33				1547	9.62371	0.7579717	5.5105	1.51404	6.69109	6.0911
11:19:34				1548	9.62371	0.7611815	5.5105	1.51404	6.83761	6.11879
11:19:34				1549	9.62662	0.7587747	5.5105	1.51404	6.54457	6.09753
11:19:35				1550	9.62759	0.7581315	5.5105	1.51404	6.30037	6.09182
11:19:35				1551	9.62468	0.7594161	5.5105	1.51404	6.98413	6.1034
11:19:36				1552	9.62371	0.7576502	5.5105	1.51404	6.93529	6.08833
11:19:36				1553	9.62274	0.7573288	5.5105	1.51404	6.34921	6.08572
11:19:37				1554	9.62177	0.7594162	5.5105	1.51404	6.59341	6.10389
11:19:37				1555	9.6208	0.7590945	5.5105	1.4652	6.59341	6.10128
11:19:38				1556	9.61886	0.7547607	5.5105	1.51404	6.39805	6.06422
11:19:38				1557	9.61686	0.7521918	5.4121	1.51404	6.34921	6.04242
11:19:39				1558	9.61789	0.7610215	5.5105	1.51404	6.78877	6.1184
11:19:39				1559	9.61686	0.7547607	5.6089	1.51404	6.83761	6.06455
11:19:40				1560	9.61589	0.7555626	5.5105	1.4652	6.64225	6.07164
11:19:40				1561	9.61686	0.7517098	5.5105	1.51404	6.78877	6.03825
11:19:41				1562	9.61886	0.7521918	5.5105	1.51404	6.93529	6.04207
11:19:41				1563	9.61686	0.7517098	5.5105	1.51404	6.54457	6.03825
11:19:42				1564	9.6208	0.7521918	5.5105	1.51404	6.83761	6.04175
11:19:43				1567	9.62602	0.7658253	5.5105	1.51404	6.54457	6.15848
11:19:44				1568	9.62699	0.7666272	5.5105	1.51404	7.03297	6.16524
11:19:44				1569	9.63087	0.7616504	5.5105	1.51404	6.69109	6.12162
11:19:45				1570	9.61722	0.775298	5.5105	1.51404	6.73993	6.24182
11:19:45				1571	9.62699	0.774175	5.5105	1.51404	6.83761	6.23043
11:19:46				1572	9.63378	0.7711231	5.4121	1.51404	6.73993	6.2029
11:19:46				1573	9.6396	0.7846111	5.4121	1.51404	6.69109	6.31846
11:19:47	11:18:23 start profile	15	270	1574	9.65221	0.7862166	5.4121	1.51404	6.83761	6.33014
11:19:47				1575	9.65512	0.7850922	5.4121	1.4652	6.88645	6.31991
11:19:48				1576	9.6804	0.7905517	5.4121	3.32112	6.64225	6.36266
11:19:48				1577	9.74249	0.7852537	5.5105	3.32112	6.73993	6.30602
11:19:49				1578	9.76186	0.7834872	5.5105	7.76557	6.39805	6.28742

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:49				1579	9.75315	0.7876612	5.4121	7.61905	6.39805	6.32493
11:19:50				1580	9.77645	0.7947264	5.4121	5.27473	6.59341	6.38177
11:19:50				1581	9.79968	0.7929605	5.5105	6.93529	6.64225	6.36244
11:19:51				1582	9.82388	0.7940847	5.5105	9.13309	6.44689	6.36787
11:19:51				1583	9.86167	0.7936035	5.4121	9.52381	6.54457	6.3571
11:19:52				1584	9.85393	0.7881427	5.4121	10.89133	6.34921	6.31148
11:19:52				1585	9.84909	0.8075733	5.4121	10.50061	6.49573	6.47964
11:19:53				1586	9.86457	0.8066096	5.4121	9.18193	6.49573	6.46857
11:19:53				1587	9.9004	0.7990633	5.5105	10.59829	6.44689	6.39724
11:19:54				1588	9.8975	0.7875009	5.6089	12.06349	6.15385	6.29836
11:19:54				1589	9.9091	0.7936034	5.4121	11.91697	6.34921	6.34878
11:19:55				1590	9.942	0.8003474	5.5105	11.33089	6.49573	6.40093
11:19:55				1591	9.97484	0.7918362	5.4121	13.18681	6.39805	6.32213
11:19:56				1592	9.96615	0.7944051	5.4121	16.01954	6.39805	6.34568
11:19:56				1593	9.96615	0.7960116	5.5105	16.50794	6.25153	6.35946
11:19:57	11:18:33	13	270	1594	10.01929	0.774494	5.4121	17.4359	6.25153	6.16601
11:19:57				1595	10.02122	0.7444712	5.4121	17.63126	6.10501	5.9095
11:19:58				1596	9.95649	0.7444713	5.4121	14.99389	6.30037	5.92005
11:19:58				1597	9.90716	0.7412606	5.5105	12.35653	6.54457	5.90067
11:19:59				1598	9.88203	0.699204	5.4121	6.93529	6.73993	5.54619
11:19:59				1599	9.81227	0.682352	5.4121	4.73748	6.73993	5.41345
11:20:00				1600	9.76767	0.686364	5.4121	2.39316	6.88645	5.45429
11:20:00				1601	9.73862	0.667106	5.3137	1.51404	6.83761	5.29471
11:20:01				1602	9.73377	0.7073896	5.4121	1.4652	7.08181	5.63889
11:20:01				1603	9.80162	0.6691916	5.4121	1.51404	7.13065	5.3032
11:20:02				1604	9.77348	0.6398258	5.4121	1.51404	6.93529	5.05826
11:20:02				1605	9.7454	0.6775368	5.4121	1.51404	6.93529	5.38245
11:20:03				1606	9.76961	0.6852407	5.4121	1.51404	7.37485	5.44443
11:20:03				1607	9.80065	0.6589218	5.4121	1.4652	7.17949	5.2162
11:20:04	11:18:40	11	270	1608	9.79291	0.659402	5.4121	1.4652	7.17949	5.22138
11:20:04				1609	9.79775	0.6499348	5.4121	4.884	6.93529	5.14044
11:20:05				1610	9.77058	0.6537859	5.4121	2.6862	6.98413	5.17696
11:20:05				1611	9.77252	0.6719197	5.4121	1.66056	7.27717	5.33065
11:20:06				1612	9.79194	0.6656607	5.4121	1.4652	7.08181	5.27464
11:20:06				1613	9.80162	0.6874879	5.4121	2.1978	6.98413	5.45874
11:20:07				1614	9.85876	0.6955123	5.4121	2.53968	6.98413	5.51835
11:20:07				1615	9.8665	0.6719195	5.4121	5.12821	6.88645	5.31683
11:20:08	11:18:44	9	270	1616	9.84522	0.6886105	5.4121	5.90965	6.88645	5.46171
11:20:08				1617	9.8665	0.6889313	5.4121	4.20024	7.03297	5.46123
11:20:09				1618	9.92262	0.6613287	5.4121	2.34432	7.27717	5.21901
11:20:09				1619	9.91876	0.730345	5.4121	4.54212	6.93529	5.80564
11:20:10				1620	10.01736	0.7494486	5.4121	8.35165	6.98413	5.95254
11:20:10				1621	10.03376	0.7521776	5.4121	12.89377	6.54457	5.97311
11:20:11				1622	10.11583	0.7822017	5.4121	16.9475	6.44689	6.21539
11:20:11				1623	10.21607	0.7778664	5.4121	18.07082	6.39805	6.16142
11:20:12				1624	10.40166	0.7905498	5.4121	21.73382	6.34921	6.23757

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

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11:20:12				1625	10.57144	0.7883028	5.4121	30.28083	6.10501	6.18976
11:20:13				1626	10.6949	0.7990613	5.4121	44.98168	6.39805	6.25944
11:20:13				1627	10.77706	0.7855726	5.4121	50.10989	6.25153	6.13231
11:20:14	11:18:50	7	270	1628	10.77897	0.7849296	5.4121	47.22833	6.00733	6.1266
11:20:14				1629	10.68821	0.7897466	5.5105	35.40904	6.20269	6.18222
11:20:15				1630	10.56953	0.7560299	5.4121	20.51282	7.22833	5.91843
11:20:15				1631	10.48903	0.6693509	5.4121	21.29426	7.22833	5.20536
11:20:16				1632	10.18714	0.6422317	5.4121	15.92186	7.22833	5.02111
11:20:16				1633	10.0589	0.7134888	5.4121	6.10501	7.86325	5.64023
11:20:17				1634	10.11872	0.7500891	5.4121	3.02808	8.20513	5.94141
11:20:17				1635	10.09174	0.745273	5.4121	1.51404	8.40049	5.90486
11:20:18				1636	9.99613	0.6525015	5.5105	1.4652	8.05861	5.13402
11:20:18				1637	9.83458	0.8107858	5.4121	1.4652	8.05861	6.50994
11:20:19	11:18:55	5	270	1638	9.9091	0.8245962	5.4121	18.9011	6.30037	6.61555
11:20:19				1639	9.90716	0.7783489	5.5105	14.55433	6.10501	6.21814
11:20:20				1640	9.88493	0.8029159	5.4121	9.18193	6.20269	6.43313
11:20:20				1641	9.81807	0.824757	5.5105	11.62393	6.15385	6.63357
11:20:21				1642	9.89363	0.8496521	5.5105	11.37973	5.71429	6.83477
11:20:21				1643	10.15923	0.881296	5.5105	11.13553	5.66545	7.0571
11:20:22				1644	10.42762	0.8747098	5.4121	15.43346	5.71429	6.94907
11:20:22				1645	10.57431	0.8955945	5.5105	21.44078	5.42125	7.0992
11:20:23				1646	10.73316	0.8747089	5.4121	28.32723	5.56777	6.89138
11:20:23				1647	10.5523	0.878405	5.5105	29.01099	5.27473	6.9569
11:20:24				1648	10.43433	0.8790475	5.5105	22.0757	5.37241	6.98485
11:20:24				1649	10.31034	0.8782437	5.5105	18.26618	5.27473	7.00171
11:20:25				1650	10.22473	0.8833853	5.5105	13.52869	5.03053	7.06238
11:20:25				1651	10.21992	0.8840267	5.5105	11.62393	4.884	7.06883
11:20:26	11:19:02	3	270	1652	10.25166	0.8862767	5.4121	10.45177	5.12821	7.08203
11:20:26				1653	10.23819	0.8872401	5.5105	10.84249	4.93284	7.09292
11:20:27				1654	10.23146	0.8865979	5.5105	10.15873	4.93284	7.0887
11:20:27				1655	10.22377	0.8859558	5.5105	9.91453	4.78632	7.08468
11:20:28				1656	10.20453	0.882099	5.5105	10.01221	4.884	7.05523
11:20:28				1657	10.18522	0.8747105	5.5105	10.06105	4.93284	6.99539
11:20:29				1658	10.165	0.8857955	5.5105	10.30525	4.884	7.09474
11:20:29				1659	10.16212	0.8870797	5.5105	9.76801	5.03053	7.10637
11:20:30				1660	10.165	0.8779241	5.5105	12.94261	4.83516	7.02694
11:20:30				1661	10.1573	0.864591	5.5105	12.99145	4.73748	6.91369
11:20:31	11:19:07	1	270	1662	10.16019	0.8784061	5.4121	12.94261	5.27473	7.03203
11:20:31				1663	10.1958	0.8928644	5.5105	13.52869	5.42125	7.14962
11:20:32				1664	10.21222	0.8684449	5.5105	13.18681	5.27473	6.93637
11:20:32				1665	10.20934	0.8697302	5.5105	13.28449	5.17705	6.94796
11:20:33				1666	10.19484	0.964366	5.5105	13.08913	5.37241	7.76803
11:20:33				1667	10.18811	0.9314241	5.5105	10.01221	4.93284	7.48405
11:20:34				1668	10.17944	0.8843495	5.5105	7.76557	8.15629	7.07947
11:20:34				1669	10.18137	0.900415	5.4121	5.17705	8.00977	7.21756
11:20:35				1670	10.17944	0.9314241	5.5105	6.20269	7.22833	7.48583

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:35				1671	10.15538	0.9429938	5.5105	6.49573	4.83516	7.59101
11:20:36				1672	10.12739	0.8869192	5.4121	5.95849	4.54212	7.11178
11:20:36				1673	10.14575	0.8894893	5.117	6.54457	6.20269	7.13038
11:20:37				1674	10.15826	0.8816184	4.7234	8.74237	5.17705	7.06014
11:20:37				1675	10.14864	0.8650724	4.4283	9.76801	5.81197	6.91959
11:20:38				1676	10.15249	0.8297363	4.1331	10.79365	6.20269	6.61552
11:20:38				1677	10.14767	0.6778569	3.838	10.25641	6.64225	5.32594
11:20:39				1678	10.02412	0.5702008	3.5428	3.76068	7.76557	4.44102
11:20:39				1679	9.71239	0.5466255	3.2477	1.4652	8.05861	4.28173
11:20:40				1680	9.5385	0.4831292	3.0509	1.51404	8.59585	3.77107
11:20:40				1681	9.48303	0.4584434	2.7558	1.51404	8.93773	3.57149
11:20:41				1682	9.43822	0.4545957	2.3623	1.4652	9.13309	3.54398
11:20:41				1683	9.42848	0.4454598	2.2639	1.51404	9.08425	3.46908
11:20:42				1684	9.42946	0.4393692	2.1655	1.4652	9.27961	3.41849
11:20:43				1687	9.3739	0.3941875	1.3784	1.51404	9.96337	3.05033
11:20:44				1688	9.34759	0.3664702	1.0833	1.51404	10.50061	2.8249
11:20:44				1689	9.33486	0.3679124	0.9849	1.51404	11.03785	2.83773
11:20:45				1690	9.32901	0.3578193	0.8865	1.51404	10.64713	2.75554
11:20:45				1691	9.31146	0.3566982	0.8865	1.51404	11.08669	2.74771
11:20:46				1692	9.30366	0.3608642	0.9849	1.4652	10.59829	2.78241
11:20:46				1693	9.30074	0.3587813	0.8865	1.51404	10.64713	2.76558
11:20:47				1694	9.29781	0.3589412	0.7881	1.51404	10.98901	2.76712
11:20:47				1695	9.29391	0.3591011	0.6898	1.51404	10.98901	2.76873
11:20:48				1696	9.29781	0.359261	0.5914	1.4652	10.74481	2.76975
11:20:48				1697	9.33291	0.3600624	0.5914	1.51404	11.81929	2.77361
11:20:49				1698	9.37195	0.3611843	0.5914	1.51404	4.3956	2.77977
11:20:49				1699	9.40512	0.3624659	0.6898	1.4652	2.97924	2.78768
11:20:50				1700	9.44022	0.1131024	0.6898	1.4652	2.49084	0.81567
11:20:50				1701	9.47233	0.0419695	0.5914	1.4652	2.442	0.29055
11:20:51				1702	9.50254	0.0373354	0.5914	0	0	0.25727
11:20:51				1703	9.5405	0.0312638	0.6898	0	0	0.21407
11:20:52				1704	9.58233	0.0346189	0.6898	0	0	0.23749
11:20:52				1705	9.62899	0.0327023	0.6898	0	0	0.22369
11:20:53				1706	9.65906	0.0256719	0.6898	0	0	0.17433
11:20:53				1707	9.69791	0.0247132	0.6898	0	0	0.1675
11:20:54				1708	9.74352	0.0232753	0.6898	0	0	0.15736
11:20:54				1709	9.77548	0.0207183	0.6898	0	0	0.13963
11:20:55				1710	9.80362	0.0218376	0.6898	0	0	0.14722
11:20:55				1711	9.83561	0.0203989	0.6898	0	0	0.13723
11:20:56				1712	9.8685	0.0290273	0.6898	0	0	0.19666
11:20:56	11:19:40 switch off			1713	9.89756	0.0226359	0.6898	0	0	0.15235
11:29:13	11:27:50 switch on			7	9.26886	0.3836279	1.1817	0	0	2.97218
11:29:14				8	9.26105	0.3842686	1.1817	0	0	2.9781
11:29:14				9	9.25617	0.3849096	1.2801	0	0	2.98379
11:29:15				10	9.25032	0.3849096	1.2801	0	0	2.98427

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:29:15				11	9.25617	0.3849096	1.1817	0	0	2.98379
11:29:16				12	9.26008	0.3858715	1.1817	0	0	2.9914
11:29:16				13	9.27087	0.3873132	1.2801	0	0	3.00238
11:29:17				14	9.26593	0.3881152	1.2801	0	0	3.0094
11:29:17				15	9.27087	0.3874729	1.2801	0	0	3.00369
11:29:18				16	9.263	0.3874729	1.1817	0	0	3.00435
11:29:18				17	9.26008	0.3873132	1.1817	0	0	3.00328
11:29:19				18	9.25812	0.3874729	1.2801	0	0	3.00476
11:29:19				19	9.25715	0.389076	1.2801	0	0	3.01806
11:29:20				20	9.263	0.389076	1.1817	0	0	3.01757
11:29:20				21	9.263	0.3889161	1.1817	0	0	3.01626
11:29:21				22	9.263	0.3893959	1.2801	0	0	3.02021
11:29:21				23	9.26593	0.3895558	1.1817	0	0	3.02129
11:29:22				24	9.26495	0.3892359	1.1817	0	0	3.01873
11:29:22				25	9.27087	0.3884349	1.1817	0	0	3.01163
11:29:23				26	9.2738	0.3895558	1.1817	0	0	3.02062
11:29:23				27	9.26983	0.3873132	1.1817	0	0	3.00247
11:29:24				28	9.263	0.3863519	1.1817	0	0	2.99511
11:29:24				29	9.26788	0.3885947	1.1817	0	0	3.0132
11:29:25				30	9.26788	0.3866728	1.2801	0	0	2.99735
11:29:25				31	9.26008	0.3871534	1.2801	0	0	3.00196
11:29:26				32	9.24934	0.3860311	1.1817	0	0	2.99361
11:29:26				33	9.24739	0.3842686	1.0833	0	0	2.97924
11:29:27				34	9.24544	0.3871535	1.1817	0	0	3.00319
11:29:27				35	9.24641	0.387794	1.2801	0	0	3.00839
11:29:28				36	9.24544	0.3837888	1.2801	0	0	2.97544
11:29:28				37	9.24934	0.3847501	1.1817	0	0	2.98304
11:29:29				38	9.24641	0.3869922	1.1817	0	0	3.00178
11:29:29				39	9.24251	0.3855508	1.2801	0	0	2.99021
11:29:30				40	9.24251	0.3847501	1.2801	0	0	2.98361
11:29:30				41	9.23958	0.3845891	1.1817	0	0	2.98253
11:29:31				42	9.24251	0.3852302	1.2801	0	0	2.98756
11:29:31				43	9.23373	0.3869922	1.2801	0	0	3.00283
11:29:32				44	9.2347	0.3837889	1.2801	0	0	2.97633
11:29:32				45	9.24056	0.383467	1.1817	0	0	2.97319
11:29:33				46	9.23373	0.3853913	1.2801	0	0	2.98962
11:29:33				47	9.23373	0.3855508	1.2801	0	0	2.99094
11:29:34				48	9.23665	0.3845891	1.2801	0	0	2.98276
11:29:34				49	9.2347	0.3845891	1.2801	0	0	2.98293
11:29:35				50	9.22982	0.3853913	1.1817	0	0	2.98995
11:29:35				51	9.22787	0.3853913	1.2801	0	0	2.99011
11:29:36				52	9.22884	0.3855508	1.2801	0	0	2.99135
11:29:36				53	9.22884	0.3857104	1.1817	0	0	2.99267
11:29:37				54	9.22195	0.3857104	1.2801	0	0	2.99324
11:29:37				55	9.22195	0.3865116	1.2801	0	0	2.99985
11:29:38				56	9.22884	0.3861923	1.2801	0	0	2.99664

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:29:38				57	9.22787	0.3861923	1.2801	0	0	2.99672
11:29:39				58	9.23177	0.3871535	1.2801	0	0	3.00433
11:29:39				59	9.23275	0.3866728	1.2801	0	0	3.00028
11:29:40				60	9.22982	0.386352	1.2801	0	0	2.99787
11:29:40				61	9.22982	0.386352	1.2801	0	0	2.99787
11:29:41				62	9.23275	0.3861923	1.2801	0	0	2.99631
11:29:41				63	9.23373	0.3861923	1.1817	0	0	2.99624
11:29:42				64	9.22884	0.386352	1.2801	0	0	2.99796
11:29:42				65	9.23177	0.3861923	1.2801	0	0	2.99639
11:29:43				66	9.23373	0.3845891	1.1817	0	0	2.98301
11:29:43				67	9.2347	0.3858715	1.2801	0	0	2.9935
11:29:44				68	9.23177	0.3853913	1.2801	0	0	2.98979
11:29:44				69	9.2347	0.3860311	1.2801	0	0	2.99482
11:29:45				70	9.23568	0.3860311	1.2801	0	0	2.99474
11:29:45				71	9.23373	0.3860311	1.2801	0	0	2.9949
11:29:46				72	9.23275	0.3860311	1.2801	0	0	2.99498
11:29:46				73	9.23177	0.3861923	1.2801	0	0	2.99639
11:29:47				74	9.23177	0.3860311	1.2801	0	0	2.99507
11:29:47				75	9.23177	0.3860311	1.2801	0	0	2.99507
11:29:48				76	9.22884	0.3866728	1.2801	0	0	3.0006
11:29:48				77	9.23177	0.3866728	1.2801	0	0	3.00036
11:29:49				78	9.2308	0.3865116	1.2801	0	0	2.99911
11:29:49				79	9.23373	0.3863519	1.2801	0	0	2.99755
11:29:50				80	9.22884	0.3865116	1.2801	0	0	2.99927
11:29:50				81	9.22884	0.3866728	1.2801	0	0	3.0006
11:29:51				82	9.22982	0.386352	1.2801	0	0	2.99787
11:29:51				83	9.22884	0.386352	1.2801	0	0	2.99796
11:29:52				84	9.22982	0.386352	1.2801	0	0	2.99787
11:29:52				85	9.23275	0.3866728	1.2801	0	0	3.00028
11:29:53				86	9.22982	0.3866728	1.2801	0	0	3.00052
11:29:53				87	9.22884	0.386352	1.2801	0	0	2.99796
11:29:54				88	9.22884	0.3865116	1.2801	0	0	2.99927
11:29:54				89	9.22982	0.386352	1.2801	0	0	2.99787
11:29:55				90	9.2308	0.3855508	1.2801	0	0	2.99118
11:29:55				91	9.23568	0.3858715	1.2801	0	0	2.99342
11:29:56				92	9.2308	0.3861923	1.2801	0	0	2.99648
11:29:56				93	9.2308	0.3858715	1.2801	0	0	2.99383
11:29:57				94	9.23373	0.3865116	1.2801	0	0	2.99887
11:29:57				95	9.2347	0.3865116	1.2801	0	0	2.99878
11:29:58				96	9.23665	0.387473	1.2801	0.63492	0.29304	3.00655
11:29:58				97	9.22585	0.3871535	1.2801	0.39072	0.09768	3.00482
11:29:59				98	9.23275	0.3909993	1.1817	1.51404	2.14896	3.036
11:29:59				99	9.2308	0.387473	1.2801	1.4652	11.18437	3.00704
11:30:00				100	9.22982	0.3879539	1.2801	1.4652	10.35409	3.01109
11:30:00				101	9.23177	0.3909993	1.1817	1.4652	11.13553	3.03608
11:30:01				102	9.22884	0.3889161	1.2801	1.51404	11.57509	3.01912

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:30:01				103	9.22787	0.3881152	1.2801	1.51404	10.84249	3.01259
11:30:02				104	9.22689	0.3882751	1.2801	1.4652	10.69597	3.01399
11:30:02				105	9.22787	0.3868325	1.2801	1.4652	11.57509	3.002
11:30:03				106	9.22884	0.3857104	1.2801	1.51404	10.94017	2.99266
11:30:03				107	9.22982	0.3858715	1.2801	1.51404	10.45177	2.99391
11:30:04				108	9.22488	0.383467	1.2801	1.4652	11.33089	2.97449
11:30:04				109	9.22488	0.3857104	1.2801	1.51404	11.57509	2.99299
11:30:05				110	9.22488	0.3855508	1.2801	1.51404	10.89133	2.99168
11:30:05				111	9.22585	0.3825066	1.2801	1.51404	11.23321	2.96649
11:30:06				112	9.22585	0.3810646	1.2801	1.4652	11.08669	2.9546
11:30:06				113	9.22689	0.3805843	1.2801	1.51404	10.59829	2.95055
11:30:07				114	9.22884	0.379783	1.2801	1.51404	10.89133	2.94379
11:30:07				115	9.22884	0.3735336	1.1817	1.4652	10.94017	2.89233
11:30:08				116	9.22689	0.3764172	1.2801	1.51404	11.67277	2.91622
11:30:08				117	9.23177	0.3740148	1.2801	1.51404	10.69597	2.89605
11:30:09				118	9.23373	0.3688871	1.1817	1.4652	10.98901	2.85372
11:30:09				119	9.23177	0.372573	1.1817	1.51404	11.08669	2.88419
11:30:10				120	9.2347	0.3716116	1.2801	1.4652	10.59829	2.87604
11:30:10				121	9.23373	0.3716116	1.2801	1.4652	10.84249	2.87612
11:30:11				122	9.2347	0.379783	1.1817	1.51404	11.33089	2.94331
11:30:11				123	9.23568	0.3778594	1.2801	1.51404	11.42857	2.92739
11:30:12				124	9.23373	0.377058	1.2801	1.51404	11.52625	2.92094
11:30:13				127	9.23153	0.3774988	1.2801	1.51404	11.08669	2.92475
11:30:14				128	9.22762	0.3799019	1.2801	1.4652	10.79365	2.94487
11:30:14				129	9.23348	0.3795808	1.2801	1.51404	10.35409	2.94174
11:30:15				130	9.23251	0.3840659	1.2801	1.4652	11.67277	2.97879
11:30:15				131	9.23348	0.3813427	1.1817	1.51404	11.42857	2.95627
11:30:16				132	9.23543	0.3808623	1.1817	1.4652	10.69597	2.95215
11:30:16				133	9.23446	0.3704497	1.2801	1.51404	10.54945	2.8665
11:30:17				134	9.23934	0.369327	1.2801	1.4652	11.18437	2.85689
11:30:17				135	9.24129	0.372212	1.2801	1.51404	10.84249	2.88045
11:30:18				136	9.24031	0.3863101	1.2801	1.4652	10.84249	2.99665
11:30:18				137	9.23739	0.3800609	1.2801	1.51404	11.08669	2.94538
11:30:19				138	9.24129	0.3802214	1.2801	1.4652	10.74481	2.94638
11:30:19				139	9.24324	0.3763771	1.3784	1.4652	10.74481	2.91456
11:30:20				140	9.23836	0.3763771	1.2801	1.51404	10.98901	2.91496
11:30:20				141	9.24227	0.3768577	1.2801	1.4652	10.54945	2.9186
11:30:21				142	9.24227	0.3778178	1.2801	1.51404	10.40293	2.92651
11:30:21				143	9.24519	0.3782989	1.2801	1.4652	10.54945	2.93023
11:30:22				144	9.24422	0.3781385	1.2801	1.4652	10.69597	2.92899
11:30:22				145	9.24715	0.3765373	1.2801	1.51404	10.94017	2.91557
11:30:23				146	9.24812	0.3766975	1.2801	1.4652	10.89133	2.91681
11:30:23				147	9.25007	0.3776575	1.2801	1.51404	10.69597	2.92455
11:30:24				148	9.25007	0.3770179	1.2801	1.4652	10.50061	2.91929
11:30:24				149	9.25007	0.3725315	1.2801	1.51404	10.89133	2.88238
11:30:25				150	9.2491	0.3710896	1.2801	1.51404	11.42857	2.8706

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:30:25				151	9.24812	0.3736535	1.2801	1.4652	10.74481	2.89176
11:30:26				152	9.24715	0.3730125	1.2801	1.4652	10.64713	2.88657
11:30:26				153	9.24617	0.375735	1.2801	1.51404	11.13553	2.90904
11:30:27				154	9.24519	0.3774987	1.2801	1.4652	10.89133	2.92364
11:30:27				155	9.24617	0.3774987	1.2801	1.4652	10.79365	2.92356
11:30:28				156	9.24617	0.3861489	1.2801	1.51404	11.28205	2.99484
11:30:28				157	9.24422	0.3843878	1.2801	1.51404	11.08669	2.98048
11:30:29				158	9.24422	0.3815034	1.2801	1.51404	10.79365	2.9567
11:30:29				159	9.24422	0.3781385	1.2801	1.51404	10.69597	2.92899
11:30:30				160	9.24324	0.3744547	1.1817	1.56288	11.08669	2.89875
11:30:30				161	9.23836	0.3714104	1.2801	1.51404	10.10989	2.87409
11:30:31				162	9.24031	0.3750947	1.2801	1.4652	10.64713	2.90425
11:30:31				163	9.24031	0.3726913	1.2801	1.51404	10.74481	2.88447
11:30:32				164	9.24129	0.3869503	1.3784	1.51404	11.03785	3.00185
11:30:32				165	9.24715	0.3821448	1.4768	1.51404	11.23321	2.96174
11:30:33				166	9.253	0.3872713	1.5752	1.41636	10.94017	3.00351
11:30:33				167	9.25788	0.3933593	1.6736	1.4652	11.28205	3.05333
11:30:34				168	9.25788	0.3930386	1.8703	1.4652	11.86813	3.05067
11:30:34				169	9.25398	0.3952816	1.9687	1.56288	11.28205	3.06952
11:30:35				170	9.2569	0.4005696	2.0671	1.51404	11.03785	3.11296
11:30:35				171	9.26965	0.3994487	2.1655	1.51404	10.84249	3.10259
11:30:36				172	9.27453	0.3996081	2.2639	1.51404	10.40293	3.10348
11:30:36				173	9.27062	0.4012109	2.3623	1.51404	10.59829	3.11706
11:30:37				174	9.27258	0.4048963	2.4606	1.51404	10.35409	3.14736
11:30:37				175	9.27062	0.4040952	2.559	1.51404	10.59829	3.1409
11:30:38				176	9.27062	0.412587	2.6574	1.51404	10.15873	3.21118
11:30:38				177	9.27745	0.4130676	2.7558	1.51404	10.35409	3.21454
11:30:39				178	9.30184	0.4092221	2.8542	1.51404	10.84249	3.18054
11:30:39				179	9.29989	0.4121065	2.8542	1.4652	9.96337	3.20458
11:30:40				180	9.29501	0.4238051	2.9526	1.4652	10.35409	3.30195
11:30:40				181	9.28721	0.4281318	3.1493	1.4652	10.10989	3.33857
11:30:41				182	9.28038	0.4226824	3.2477	1.51404	10.06105	3.29396
11:30:41				183	9.2794	0.4310162	3.2477	1.51404	9.91453	3.36325
11:30:42				184	9.27355	0.4451195	3.4445	1.51404	10.15873	3.48115
11:30:42				185	9.26081	0.437107	3.6412	1.51404	10.20757	3.41563
11:30:43				186	9.2569	0.4364659	3.6412	1.51404	10.01221	3.41067
11:30:43				187	9.25593	0.4480042	3.7396	1.4652	10.10989	3.50689
11:30:44				188	9.25398	0.4483262	4.0348	1.51404	10.30525	3.50975
11:30:44				189	9.253	0.4457607	4.1331	1.4652	9.91453	3.48845
11:30:45				190	9.253	0.4574612	4.2315	1.4652	9.47497	3.5861
11:30:45				191	9.253	0.4954547	4.4283	1.4652	9.86569	3.90456
11:30:46				192	9.2569	0.5443598	4.6251	1.4652	9.62149	4.31691
11:30:46				193	9.27062	0.652322	4.7234	1.51404	8.93773	5.23676
11:30:47				194	9.38187	0.7041586	4.8218	1.4652	8.98657	5.66638
11:30:47				195	9.49974	0.7182833	4.9202	1.4652	8.64469	5.76942
11:30:48				196	9.5241	0.7197268	5.0186	1.4652	7.61905	5.77793

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:30:48				197	9.51633	0.740918	5.0186	1.4652	6.93529	5.96193
11:30:49				198	9.46862	0.7235796	5.117	1.51404	7.22833	5.82007
11:30:49				199	9.455	0.759219	5.117	1.4652	6.98413	6.13054
11:30:50				200	9.45403	0.7776844	5.2153	1.51404	6.78877	6.29092
11:30:50				201	9.46862	0.8330867	5.2153	1.51404	6.93529	6.7709
11:30:51				202	9.5173	0.8462569	5.4121	1.51404	6.59341	6.8767
11:30:51				203	9.5844	0.8406337	5.4121	1.51404	6.44689	6.81489
11:30:52				204	9.58537	0.8390287	5.4121	1.51404	6.25153	6.80072
11:30:52				205	9.55914	0.8372615	5.4121	1.51404	6.20269	6.79026
11:30:53				206	9.57468	0.8412761	5.4121	1.51404	6.05617	6.82232
11:30:53				207	9.58925	0.8350138	5.4121	1.51404	5.81197	6.76502
11:30:54				208	9.56983	0.761466	5.4121	1.51404	5.66545	6.13041
11:30:54				209	9.53188	0.7688517	5.4121	1.4652	5.32357	6.20079
11:30:55				210	9.57566	0.8441685	5.5105	1.51404	5.56777	6.84735
11:30:55				211	9.65731	0.8210399	5.5105	1.51404	5.37241	6.63088
11:30:56				212	9.65149	0.8351729	5.5105	1.51404	4.98168	6.75472
11:30:56				213	9.64269	0.8581422	5.6089	1.51404	4.83516	6.95634
11:30:57				214	9.66701	0.8038576	5.5105	1.51404	4.884	6.48016
11:30:57				215	9.64172	0.8149369	5.6089	1.51404	4.68864	6.58076
11:30:58				216	9.63105	0.8460947	5.5105	1.51404	4.73748	6.85361
11:30:58				217	9.66313	0.8432038	5.5105	1.51404	4.78632	6.82237
11:30:59				218	9.68737	0.8467382	5.5105	1.51404	4.54212	6.84852
11:30:59				219	9.67282	0.8518784	5.5105	1.51404	4.884	6.89601
11:31:00				220	9.6864	0.8446497	5.5105	1.51404	5.12821	6.83054
11:31:00				221	9.68834	0.8433654	5.5105	1.51404	5.12821	6.81901
11:31:01				222	9.66313	0.843685	5.5105	1.4652	4.98168	6.82656
11:31:01				223	9.64948	0.8321222	5.6089	1.4652	5.12821	6.72857
11:31:02				224	9.63687	0.8390285	5.5105	1.4652	5.17705	6.791
11:31:02				225	9.63299	0.8473803	5.5105	1.51404	5.32357	6.86444
11:31:03				226	9.65149	0.8340488	5.6089	1.51404	5.86081	6.74494
11:31:03				227	9.65052	0.8424013	5.5105	1.4652	5.61661	6.81777
11:31:04				228	9.6456	0.8448096	5.5105	1.4652	5.51893	6.83966
11:31:04				229	9.65634	0.8372612	5.6089	1.51404	5.42125	6.77196
11:31:05				230	9.65634	0.8287498	5.5105	1.51404	5.56777	6.698
11:31:05				231	9.64366	0.8393495	5.5105	1.4652	5.95849	6.79251
11:31:06				232	9.64754	0.8443282	5.5105	1.51404	6.00733	6.8351
11:31:06				233	9.64754	0.8292302	5.6089	1.51404	5.86081	6.7038
11:31:07				234	9.63202	0.8396705	5.5105	1.51404	5.71429	6.7975
11:31:07				235	9.63008	0.845613	5.5105	1.4652	5.56777	6.8496
11:31:08				236	9.64075	0.8383849	5.6089	1.4652	5.81197	6.78466
11:31:08				237	9.64366	0.8369406	5.6089	1.4652	5.51893	6.77155
11:31:09				238	9.63202	0.8371	5.5105	1.51404	5.51893	6.77513
11:31:09				239	9.63105	0.8399915	5.5105	1.4652	5.47009	6.80048
11:31:10				240	9.63299	0.83662	5.6089	1.51404	5.56777	6.77077
11:31:10				241	9.63299	0.8362975	5.5105	1.51404	5.71429	6.76797
11:31:11				242	9.6359	0.8470584	5.5105	1.51404	5.56777	6.86108

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:11				243	9.64172	0.8457748	5.6089	1.51404	5.81197	6.84879
11:31:12				244	9.64657	0.8361382	5.5105	1.51404	5.76313	6.76404
11:31:13				247	9.63815	0.8406064	5.6089	1.51404	5.76313	6.80448
11:31:14				248	9.64009	0.8393203	5.6089	1.51404	5.61661	6.79292
11:31:14				249	9.63718	0.8349846	5.6089	1.4652	5.56777	6.75576
11:31:15				250	9.64009	0.8446206	5.5105	1.51404	5.37241	6.83906
11:31:15				251	9.63912	0.8449422	5.6089	1.51404	5.17705	6.84203
11:31:16				252	9.64009	0.8351457	5.6089	1.51404	5.61661	6.75661
11:31:16				253	9.63523	0.8436578	5.5105	1.51404	5.42125	6.8316
11:31:17				254	9.63621	0.8431766	5.5105	1.4652	5.47009	6.82723
11:31:17				255	9.64397	0.8398027	5.5105	1.41636	5.66545	6.7964
11:31:18				256	9.64785	0.8431765	5.5105	1.51404	5.32357	6.82502
11:31:18				257	9.65173	0.8316121	5.5105	1.4652	5.12821	6.72373
11:31:19				258	9.643	0.8486373	5.5105	1.51404	4.93284	6.87348
11:31:19				259	9.64882	0.8521698	5.5105	1.51404	5.12821	6.90313
11:31:20				260	9.66046	0.8436577	5.5105	1.4652	5.47009	6.82682
11:31:20				261	9.65464	0.8367521	5.6089	1.56288	5.42125	6.76785
11:31:21				262	9.64591	0.8463872	5.5105	1.4652	5.07937	6.85333
11:31:21				263	9.65949	0.8433363	5.5105	1.4652	5.22589	6.82421
11:31:22				264	9.66822	0.8483151	5.5105	1.51404	5.32357	6.86587
11:31:22				265	9.66919	0.8504029	5.6089	1.4652	5.17705	6.88385
11:31:23				266	9.67792	0.846709	5.6089	1.51404	5.47009	6.85005
11:31:23				267	9.67113	0.844139	5.5105	1.51404	5.27473	6.82899
11:31:24				268	9.65852	0.8412486	5.5105	1.51404	5.17705	6.80623
11:31:24				269	9.67016	0.8489575	5.5105	1.4652	5.27473	6.87109
11:31:25				270	9.6721	0.8417294	5.6089	1.4652	5.32357	6.80784
11:31:25				271	9.67598	0.8412486	5.5105	1.51404	5.47009	6.80294
11:31:26				272	9.67501	0.842372	5.5105	1.4652	5.61661	6.81289
11:31:26				273	9.67113	0.8447823	5.5105	1.51404	5.61661	6.83459
11:31:27				274	9.66919	0.8393202	5.5105	1.4652	6.00733	6.78746
11:31:27				275	9.65561	0.8336994	5.5105	1.51404	6.05617	6.74115
11:31:28				276	9.62353	0.8479951	5.5105	1.4652	6.00733	6.87159
11:31:28				277	9.65173	0.8446205	5.6089	1.4652	6.25153	6.83684
11:31:29				278	9.67016	0.8365908	5.6089	1.4652	5.42125	6.76354
11:31:29				279	9.64591	0.8357885	5.5105	1.51404	5.42125	6.76112
11:31:30				280	9.66046	0.8550612	5.5105	1.51404	5.95849	6.92608
11:31:30				281	9.6964	0.844139	5.5105	1.51404	5.51893	6.82421
11:31:31				282	9.68961	0.8422123	5.5105	1.51404	5.32357	6.80875
11:31:31				283	9.67695	0.8510457	5.5105	1.4652	5.42125	6.88797
11:31:32				284	9.68767	0.8532942	5.6089	1.51404	5.37241	6.90548
11:31:32				285	9.71094	0.8438174	5.6089	1.51404	5.12821	6.81866
11:31:33				286	9.6867	0.8452638	5.5105	1.51404	4.93284	6.83582
11:31:33				287	9.69446	0.8557032	5.5105	1.51404	4.884	6.92515
11:31:34				288	9.709	0.8534545	5.5105	1.4652	4.884	6.90281
11:31:34				289	9.72257	0.8484751	5.6089	1.4652	4.78632	6.85693
11:31:35				290	9.71385	0.8504028	5.5105	1.51404	4.68864	6.87535

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:35				291	9.71675	0.8542586	5.5105	1.51404	4.6398	6.90832
11:31:36				292	9.73129	0.8534545	5.5105	1.51404	4.78632	6.89855
11:31:36				293	9.73323	0.8539357	5.5105	1.51404	4.6398	6.90236
11:31:37				294	9.74588	0.8566666	5.5105	1.4652	4.49328	6.92367
11:31:37				295	9.75266	0.8579518	5.6089	1.4652	4.73748	6.93353
11:31:38				296	9.74104	0.8439791	5.6089	1.4652	4.49328	6.81439
11:31:38				297	9.73323	0.8439791	5.5105	1.51404	4.83516	6.81587
11:31:39				298	9.73129	0.84976	5.5105	1.4652	4.73748	6.86644
11:31:39				299	9.73226	0.8508853	5.5105	1.51404	4.3956	6.87604
11:31:40				300	9.73516	0.8557031	5.5105	1.4652	4.20024	6.91735
11:31:40				301	9.7342	0.8430146	5.6089	1.51404	4.24908	6.8073
11:31:41				302	9.73226	0.8406061	5.5105	1.51404	4.68864	6.78677
11:31:41				303	9.72354	0.8274368	5.5105	1.51404	4.3956	6.67417
11:31:42				304	9.71772	0.8418909	5.5105	1.51404	4.29792	6.80066
11:31:42				305	9.70609	0.8404447	5.6089	1.4652	4.3956	6.79028
11:31:43				306	9.71094	0.8428549	5.5105	1.51404	4.59096	6.81031
11:31:43				307	9.70803	0.844942	5.5105	1.4652	4.34676	6.82899
11:31:44				308	9.7216	0.8557031	5.5105	1.51404	4.78632	6.91995
11:31:44				309	9.73807	0.8521696	5.5105	1.51404	4.44444	6.88609
11:31:45				310	9.74394	0.8558636	5.5105	1.4652	4.68864	6.91707
11:31:45				311	9.74879	0.8576304	5.5105	1.51404	4.54212	6.93149
11:31:46				312	9.74879	0.8584339	5.5105	1.4652	4.24908	6.93847
11:31:46				313	9.75557	0.8579518	5.6089	1.51404	4.54212	6.93297
11:31:47				314	9.75169	0.843979	5.5105	1.51404	4.44444	6.81239
11:31:47				315	9.72935	0.8597181	5.5105	1.4652	4.6398	6.95338
11:31:48				316	9.74298	0.8619685	5.6089	1.51404	4.6398	6.97031
11:31:48				317	9.76235	0.8561847	5.6089	1.4652	4.6398	6.91632
11:31:49				318	9.76138	0.8558636	5.6089	1.51404	4.54212	6.91372
11:31:49				319	9.74394	0.8582732	5.5105	1.51404	4.73748	6.93801
11:31:50				320	9.74104	0.8582732	5.5105	1.4652	4.73748	6.93857
11:31:50				321	9.75169	0.8582732	5.5105	1.51404	4.78632	6.93652
11:31:51				322	9.75557	0.8574697	5.6089	1.4652	4.59096	6.92878
11:31:51				323	9.75557	0.8568272	5.5105	1.4652	4.78632	6.92321
11:31:52				324	9.75363	0.8560242	5.5105	1.51404	4.93284	6.91661
11:31:52				325	9.74976	0.8555425	5.5105	1.41636	4.98168	6.91316
11:31:53				326	9.74685	0.855061	5.5105	1.51404	5.22589	6.90953
11:31:53				327	9.73807	0.854419	5.5105	1.51404	5.12821	6.90563
11:31:54				328	9.73323	0.8521696	5.5105	1.4652	4.98168	6.88701
11:31:54				329	9.7342	0.8529733	5.6089	1.51404	5.03053	6.8938
11:31:55				330	9.72838	0.8526526	5.5105	1.4652	5.17705	6.89213
11:31:55				331	9.71385	0.8532941	5.5105	1.4652	5.17705	6.90048
11:31:56				332	9.71385	0.851849	5.5105	1.51404	5.27473	6.88792
11:31:56				333	9.71966	0.8520093	5.6089	1.51404	5.37241	6.88819
11:31:57				334	9.71772	0.8513662	5.6089	1.4652	4.98168	6.88297
11:31:57				335	9.71772	0.8521696	5.5105	1.51404	5.03053	6.88997
11:31:58				336	9.71578	0.8508854	5.5105	1.51404	5.07937	6.87917

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:58				337	9.70997	0.850563	5.6089	1.4652	5.27473	6.87747
11:31:59				338	9.69252	0.8449421	5.5105	1.4652	5.42125	6.83193
11:31:59				339	9.68276	0.8446204	5.5105	1.4652	5.42125	6.83098
11:32:00				340	9.67016	0.8457455	5.6089	1.4652	6.10501	6.84314
11:32:00				341	9.66822	0.8483152	5.6089	1.51404	5.86081	6.86586
11:32:01				342	9.66628	0.846869	5.5105	1.51404	5.81197	6.85366
11:32:01				343	9.65464	0.8311313	5.5105	1.4652	6.05617	6.71901
11:32:02				344	9.65464	0.8293638	5.6089	1.51404	6.34921	6.70364
11:32:02				345	9.64591	0.8328961	5.6089	1.51404	6.30037	6.73596
11:32:03				346	9.63032	0.8338606	5.5105	1.51404	6.78877	6.74727
11:32:03				347	9.61091	0.8319341	5.5105	1.4652	6.34921	6.73414
11:32:04				348	9.60218	0.8027059	5.5105	1.51404	6.49573	6.48182
11:32:04				349	9.61091	0.8030278	5.6089	1.51404	6.64225	6.48303
11:32:05				350	9.58664	0.8139473	5.6089	1.51404	6.98413	6.58222
11:32:05				351	9.58179	0.8178006	5.5105	1.51404	6.49573	6.61661
11:32:06				352	9.57201	0.7933924	5.5105	1.51404	6.64225	6.40643
11:32:06				353	9.56813	0.8004574	5.5105	1.51404	6.83761	6.46843
11:32:07				354	9.55161	0.8149102	5.5105	1.4652	6.34921	6.59701
11:32:07				355	9.5555	0.8145905	5.5105	1.51404	6.64225	6.59352
11:32:08				356	9.56716	0.7978898	5.6089	1.4652	6.59341	6.4463
11:32:08				357	9.55939	0.7951586	5.5105	1.4652	6.00733	6.424
11:32:09				358	9.53898	0.8104136	5.5105	1.51404	6.25153	6.56021
11:32:09				359	9.55356	0.8108961	5.5105	1.51404	6.59341	6.56175
11:32:10				360	9.56036	0.8051158	5.6089	1.4652	6.39805	6.51027
11:32:10				361	9.56424	0.8195675	5.5105	1.4652	6.49573	6.63521
11:32:11				362	9.56813	0.7948377	5.5105	1.51404	7.08181	6.41966
11:32:11				363	9.56521	0.7855243	5.5105	1.51404	6.49573	6.33941
11:32:12				364	9.54967	0.8218165	5.5105	1.4652	6.39805	6.65747
11:32:13				367	9.5592	0.8183078	5.5105	1.51404	6.15385	6.62517
11:32:14				368	9.56315	0.8242511	5.5105	1.4652	6.30037	6.67617
11:32:14				369	9.57383	0.8167018	5.5105	1.4652	6.00733	6.60852
11:32:15				370	9.57675	0.8150969	5.5105	1.51404	6.30037	6.59403
11:32:15				371	9.56704	0.8298717	5.5105	1.51404	6.20269	6.72438
11:32:16				372	9.57481	0.8223225	5.5105	1.4652	6.64225	6.65723
11:32:16				373	9.57578	0.8052999	5.5105	1.4652	6.49573	6.50909
11:32:17				374	9.56315	0.8160601	5.5105	1.4652	6.05617	6.6049
11:32:17				375	9.57966	0.8369388	5.5105	1.51404	6.30037	6.78358
11:32:18				376	9.57966	0.8106	5.5105	1.51404	6.59341	6.55442
11:32:18				377	9.5816	0.8250535	5.5105	1.51404	6.34921	6.67973
11:32:19				378	9.58452	0.822645	5.5105	1.51404	6.30037	6.65824
11:32:19				379	9.58646	0.7905272	5.5105	1.51404	6.34921	6.37903
11:32:20				380	9.55046	0.8202352	5.5105	1.4652	6.39805	6.64356
11:32:20				381	9.56606	0.8326015	5.5105	1.51404	6.64225	6.74834
11:32:21				382	9.57966	0.8067448	5.6089	1.4652	6.30037	6.52093
11:32:21				383	9.57189	0.8094757	5.6089	1.4652	6.20269	6.54606
11:32:22				384	9.56898	0.8144537	5.5105	1.51404	6.30037	6.58986

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:22				385	9.57578	0.8088339	5.5105	1.51404	6.34921	6.53979
11:32:23				386	9.56898	0.8065855	5.5105	1.51404	6.54457	6.52149
11:32:23				387	9.55629	0.7980734	5.5105	1.4652	6.59341	6.44985
11:32:24				388	9.54075	0.7974309	5.5105	1.4652	6.78877	6.44706
11:32:24				389	9.5252	0.7938984	5.6089	1.56288	7.52137	6.41914
11:32:25				390	9.52034	0.7884388	5.6089	1.51404	7.17949	6.3726
11:32:25				391	9.5252	0.7910078	5.5105	1.4652	7.03297	6.39405
11:32:26				392	9.52325	0.7977522	5.5105	1.51404	6.83761	6.45298
11:32:26				393	9.51742	0.7791257	5.6089	1.51404	6.83761	6.29231
11:32:27				394	9.51645	0.7791257	5.5105	1.51404	6.78877	6.29249
11:32:27				395	9.51353	0.783944	5.5105	1.51404	6.78877	6.3348
11:32:28				396	9.5145	0.7720614	5.5105	1.51404	6.49573	6.23159
11:32:28				397	9.51256	0.7821766	5.6089	1.4652	6.73993	6.31963
11:32:29				398	9.51159	0.7784846	5.6089	1.4652	7.08181	6.28777
11:32:29				399	9.51256	0.7667634	5.5105	1.51404	6.73993	6.18602
11:32:30				400	9.50278	0.7736679	5.5105	1.51404	7.03297	6.24754
11:32:30				401	9.50278	0.7747907	5.6089	1.51404	6.83761	6.25727
11:32:31				402	9.50083	0.7641944	5.6089	1.4652	6.73993	6.16577
11:32:31				403	9.49889	0.7686893	5.6089	1.4652	6.98413	6.20505
11:32:32				404	9.49403	0.7664426	5.5105	1.51404	7.17949	6.18643
11:32:32				405	9.49694	0.7632312	5.5105	1.4652	6.64225	6.15811
11:32:33				406	9.48722	0.7617863	5.5105	1.51404	7.17949	6.14725
11:32:33				407	9.48528	0.7568085	5.5105	1.51404	7.27717	6.10447
11:32:34				408	9.4843	0.7548831	5.5105	1.51404	6.78877	6.08797
11:32:34				409	9.48139	0.7632313	5.5105	1.4652	6.83761	6.16077
11:32:35				410	9.48236	0.7778417	5.5105	1.4652	6.83761	6.28731
11:32:35				411	9.48722	0.7614643	5.6089	1.51404	6.78877	6.14445
11:32:36				412	9.48528	0.7585757	5.5105	1.51404	6.78877	6.11978
11:32:36				413	9.48528	0.7561659	5.5105	1.4652	6.83761	6.09891
11:32:37				414	9.47361	0.7563275	5.5105	1.51404	7.08181	6.10229
11:32:37				415	9.46777	0.7556851	5.6089	1.51404	7.08181	6.0977
11:32:38				416	9.47069	0.7552043	5.6089	1.41636	6.93529	6.09305
11:32:38				417	9.47166	0.7542411	5.5105	1.51404	7.13065	6.08455
11:32:39				418	9.47069	0.7540796	5.6089	1.51404	7.32601	6.08331
11:32:39				419	9.46777	0.7529556	5.5105	1.51404	7.17949	6.07408
11:32:40				420	9.45895	0.7524735	5.6089	1.51404	7.03297	6.07138
11:32:40				421	9.45993	0.7507091	5.5105	1.51404	6.98413	6.05595
11:32:41				422	9.46291	0.747177	5.5105	1.4652	7.08181	6.02488
11:32:41				423	9.45603	0.7484611	5.5105	1.4652	6.98413	6.03714
11:32:42				424	9.44825	0.7428413	5.5105	1.4652	6.93529	5.98981
11:32:42				425	9.44436	0.7460526	5.5105	1.51404	7.32601	6.01825
11:32:43				426	9.44533	0.7457309	5.5105	1.51404	6.98413	6.0153
11:32:43				427	9.44728	0.7421989	5.5105	1.4652	6.73993	5.98441
11:32:44				428	9.44047	0.7600206	5.5105	1.51404	6.73993	6.13993
11:32:44				429	9.43949	0.7410769	5.5105	1.51404	6.88645	5.976
11:32:45				430	9.44241	0.7455719	5.5105	1.4652	6.78877	6.01441

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:45				431	9.44728	0.7540797	5.6089	1.4652	6.73993	6.08727
11:32:46				432	9.45895	0.7452502	5.6089	1.51404	6.64225	6.00886
11:32:46				433	9.45993	0.7519934	5.6089	1.4652	6.98413	6.06706
11:32:47				434	9.4668	0.7423594	5.5105	1.51404	6.54457	5.98255
11:32:47				435	9.46582	0.8282661	5.5105	1.51404	6.83761	6.72929
11:32:48				436	9.48625	0.7802512	5.6089	1.51404	6.98413	6.30753
11:32:48				437	9.4843	0.7600205	5.5105	1.51404	6.88645	6.13245
11:32:49				438	9.47361	0.8401515	5.5105	1.51404	6.83761	6.83166
11:32:49				439	9.52811	0.7938984	5.6089	1.51404	6.78877	6.41862
11:32:50				440	9.54269	0.7979128	5.5105	1.4652	6.44689	6.45089
11:32:50				441	9.5388	0.8290678	5.5105	1.4652	6.05617	6.72265
11:32:51				442	9.55532	0.8186299	5.5105	1.4652	5.51893	6.62869
11:32:51				443	9.57189	0.7940586	5.5105	1.51404	5.51893	6.41223
11:32:52				444	9.55435	0.837901	5.6089	1.51404	5.56777	6.79672
11:32:52				445	9.57189	0.8342082	5.6089	1.56288	5.90965	6.76123
11:32:53				446	9.5884	0.7914901	5.5105	1.51404	5.76313	6.38703
11:32:53				447	9.54949	0.8114019	5.5105	1.51404	5.86081	6.56689
11:32:54				448	9.53394	0.8138108	5.5105	1.51404	5.90965	6.59068
11:32:54				449	9.55435	0.8316376	5.6089	1.4652	5.95849	6.74213
11:32:55				450	9.56801	0.8025699	5.5105	3.12576	5.76313	6.48679
11:32:55				451	9.56121	0.7940586	5.5105	3.1746	5.76313	6.41413
11:32:56				452	9.56509	0.8313176	5.5105	1.51404	5.86081	6.73734
11:32:56				453	9.57092	0.7858705	5.5105	1.4652	5.76313	6.34141
11:32:57				454	9.57675	0.8136509	5.5105	1.51404	5.76313	6.58146
11:32:57				455	9.58355	0.8356527	5.5105	1.51404	6.20269	6.77164
11:32:58				456	9.61273	0.8081904	5.6089	1.51404	5.71429	6.52749
11:32:58				457	9.58937	0.7999999	5.5105	1.51404	5.71429	6.46065
11:32:59				458	9.57966	0.8250535	5.5105	1.51404	5.71429	6.68009
11:32:59				459	9.57578	0.81638	5.6089	1.51404	5.66545	6.60536
11:33:00				460	9.59034	0.8456111	5.5105	1.4652	5.66545	6.85714
11:33:00				461	9.61273	0.8216811	5.8056	1.4652	5.76313	6.64462
11:33:01				462	9.61273	0.8218414	5.5105	1.51404	5.71429	6.64605
11:33:01				463	9.60976	0.8423995	5.5105	1.4652	5.81197	6.82546
11:33:02				464	9.62244	0.8435234	5.5105	1.51404	5.86081	6.83285
11:33:02				465	9.63796	0.8406317	5.5105	1.51404	6.10501	6.80474
11:33:03				466	9.64282	0.8319593	5.5105	1.51404	5.86081	6.72841
11:33:03				467	9.63602	0.8343672	5.5105	1.51404	5.90965	6.75061
11:33:04				468	9.63117	0.8449676	5.5105	1.51404	5.86081	6.84377
11:33:04				469	9.64087	0.841274	5.5105	1.56288	5.90965	6.80978
11:33:05				470	9.64476	0.8343671	5.5105	1.51404	5.86081	6.74898
11:33:05				471	9.63699	0.8080309	5.5105	1.51404	5.95849	6.52173
11:33:06				472	9.61564	0.8208778	5.5105	1.51404	5.90965	6.63714
11:33:06				473	9.61759	0.8382235	5.5105	1.4652	6.00733	6.78763
11:33:07				474	9.62341	0.8183076	5.5105	1.51404	6.44689	6.61338
11:33:07				475	9.58937	0.8128483	5.5105	1.51404	6.44689	6.57219
11:33:08				476	9.56315	0.823447	5.5105	1.4652	6.39805	6.66917

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:08				477	9.57092	0.7833014	5.5105	1.51404	6.59341	6.31915
11:33:09				478	9.54463	0.8322795	5.4121	1.51404	6.64225	6.74956
11:33:09				479	9.58257	0.8364569	5.5105	1.4652	6.73993	6.77883
11:33:10				480	9.60296	0.8046573	5.6089	1.4652	6.54457	6.4986
11:33:10				481	9.57481	0.8232866	5.5105	1.51404	6.49573	6.66561
11:33:11				482	9.5952	0.8321203	5.4121	1.51404	6.59341	6.73871
11:33:11				483	9.5952	0.8282658	5.5105	1.51404	6.88645	6.70516
11:33:12				484	9.59908	0.8245719	5.5105	1.51404	6.39805	6.6723
11:33:13				487	9.59453	0.8277934	5.5105	1.51404	6.20269	6.70117
11:33:14				488	9.5955	0.8258658	5.5105	1.51404	6.59341	6.68422
11:33:14				489	9.59356	0.8115729	5.6089	1.51404	6.49573	6.56034
11:33:15				490	9.58773	0.7966375	5.5105	1.51404	6.15385	6.43177
11:33:15				491	9.57802	0.7887701	5.5105	1.51404	6.39805	6.36529
11:33:16				492	9.57414	0.7935871	5.5105	1.4652	6.64225	6.40774
11:33:16				493	9.56248	0.7971192	5.5105	1.51404	6.64225	6.44046
11:33:17				494	9.55568	0.7992077	5.6089	1.51404	6.98413	6.4598
11:33:17				495	9.54785	0.7927836	5.5105	1.4652	7.08181	6.40544
11:33:18				496	9.51967	0.7900546	5.5105	1.4652	6.93529	6.38676
11:33:18				497	9.52842	0.765007	5.5105	1.4652	6.93529	6.16809
11:33:19				498	9.50995	0.7812232	5.6089	1.4652	7.22833	6.31181
11:33:19				499	9.48558	0.7812232	5.6089	1.4652	7.03297	6.31609
11:33:20				500	9.49336	0.7805815	5.5105	1.4652	6.64225	6.30916
11:33:20				501	9.46905	0.7770474	5.5105	1.4652	6.98413	6.28274
11:33:21				502	9.45737	0.8199228	5.5105	1.51404	6.88645	6.65803
11:33:21				503	9.49141	0.7969588	5.6089	1.51404	7.03297	6.45178
11:33:22				504	9.50114	0.7927838	5.5105	1.4652	6.69109	6.41376
11:33:22				505	9.47683	0.8187999	5.5105	1.4652	6.69109	6.64464
11:33:23				506	9.50114	0.8183176	5.6089	1.51404	7.22833	6.63594
11:33:23				507	9.5255	0.8065933	5.5105	1.4652	6.83761	6.52943
11:33:24				508	9.51092	0.8160699	5.5105	1.4652	6.93529	6.61457
11:33:24				509	9.51772	0.7855587	5.5105	1.51404	7.08181	6.34808
11:33:25				510	9.4885	0.8282738	5.5105	1.51404	6.83761	6.72512
11:33:25				511	9.52161	0.8306838	5.5105	1.4652	6.88645	6.73995
11:33:26				512	9.5654	0.8167115	5.5105	1.4652	6.64225	6.61015
11:33:26				513	9.5518	0.8061115	5.5105	1.51404	6.49573	6.52048
11:33:27				514	9.51772	0.8125368	5.5105	1.51404	6.44689	6.58256
11:33:27				515	9.53036	0.8363056	5.5105	1.51404	6.93529	6.78734
11:33:28				516	9.56831	0.8183174	5.6089	1.4652	6.83761	6.62357
11:33:28				517	9.55763	0.8204051	5.6089	1.51404	6.54457	6.6437
11:33:29				518	9.53716	0.8114115	5.5105	1.51404	6.44689	6.56922
11:33:29				519	9.5255	0.8269902	5.5105	1.51404	6.54457	6.70702
11:33:30				520	9.54494	0.8186376	5.5105	1.51404	7.27717	6.63067
11:33:30				521	9.54396	0.8120539	5.6089	1.51404	7.03297	6.57355
11:33:31				522	9.51481	0.790697	5.5105	1.51404	6.88645	6.3932
11:33:31				523	9.49822	0.7748002	5.5105	1.51404	6.59341	6.25815
11:33:32				524	9.46029	0.8171936	5.5105	1.51404	6.98413	6.63368

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:32				525	9.48558	0.8064341	5.6089	1.51404	7.37485	6.53528
11:33:33				526	9.49433	0.7728731	5.6089	1.51404	6.83761	6.24211
11:33:33				527	9.4671	0.7756034	5.5105	1.51404	6.88645	6.27054
11:33:34				528	9.44272	0.7802589	5.5105	1.51404	6.64225	6.31525
11:33:34				529	9.45932	0.8139823	5.5105	1.51404	6.88645	6.60585
11:33:35				530	9.48169	0.7820267	5.6089	1.51404	7.22833	6.32375
11:33:35				531	9.46613	0.7695017	5.6089	1.51404	6.78877	6.21775
11:33:36				532	9.44272	0.7772086	5.5105	1.51404	6.93529	6.28874
11:33:36				533	9.44174	0.7818653	5.5105	1.51404	6.83761	6.32938
11:33:37				534	9.44077	0.7841134	5.5105	1.51404	6.78877	6.3491
11:33:37				535	9.44369	0.7662899	5.5105	1.51404	6.88645	6.19376
11:33:38				536	9.43396	0.7659692	5.5105	1.51404	6.78877	6.19266
11:33:38				537	9.43007	0.763401	5.5105	1.51404	6.83761	6.17104
11:33:39				538	9.42423	0.7653278	5.5105	1.51404	6.93529	6.18876
11:33:39				539	9.42325	0.7682173	5.5105	1.51404	6.83761	6.21402
11:33:40				540	9.42909	0.7396402	5.5105	1.51404	7.03297	5.96529
11:33:40				541	9.42715	0.7547312	5.5105	1.51404	7.13065	6.09633
11:33:41				542	9.4252	0.7581019	5.5105	1.51404	7.08181	6.1259
11:33:41				543	9.42812	0.8006531	5.5105	1.51404	6.83761	6.49534
11:33:42				544	9.46126	0.810931	5.5105	1.51404	7.27717	6.5789
11:33:42				545	9.48655	0.7643641	5.6089	1.51404	7.08181	6.16969
11:33:43				546	9.46321	0.7953537	5.5105	1.4652	6.59341	6.44288
11:33:43				547	9.44953	0.776566	5.5105	1.51404	6.54457	6.28197
11:33:44				548	9.47877	0.783792	5.5105	1.51404	6.78877	6.3396
11:33:44				549	9.50314	0.7450987	5.5105	1.51404	6.54457	6.00018
11:33:45				550	9.52064	0.6999908	5.2153	1.51404	6.69109	5.60872
11:33:45				551	9.61789	0.6813729	4.8218	1.51404	6.59341	5.43432
11:33:46				552	9.61595	0.5642539	4.7234	1.4652	6.73993	4.44119
11:33:46				553	9.61012	0.5209548	4.6251	1.4652	8.00977	4.07875
11:33:47				554	9.54882	0.5453291	4.5267	1.4652	8.69353	4.29018
11:33:47				555	9.44758	0.4940179	4.3299	1.4652	9.03541	3.87148
11:33:48				556	9.39788	0.4457685	4.3299	1.51404	9.27961	3.47448
11:33:48				557	9.34619	0.4472109	4.3299	1.51404	9.47497	3.49147
11:33:49				558	9.30817	0.4558663	4.4283	1.4652	9.57265	3.56729
11:33:49				559	9.30031	0.4653228	4.4283	1.51404	9.37729	3.64701
11:33:50				560	9.30421	0.4712552	4.5267	1.51404	9.37729	3.6962
11:33:50				561	9.30817	0.4733378	4.5267	1.4652	9.71917	3.71321
11:33:51				562	9.31597	0.471415	4.5267	1.51404	9.57265	3.69633
11:33:51				563	9.32085	0.4754229	4.5267	1.51404	9.76801	3.72934
11:33:52				564	9.31695	0.4696508	4.5267	1.51404	9.91453	3.68148
11:33:52				565	9.31792	0.4861638	4.5267	1.51404	10.10989	3.81958
11:33:53				566	9.31597	0.4991493	4.5267	1.51404	9.96337	3.92873
11:33:53				567	9.31597	0.4768657	4.5267	1.51404	9.76801	3.74192
11:33:54				568	9.3189	0.4728577	4.5267	1.51404	9.52381	3.70809
11:33:54				569	9.3189	0.4747805	4.5267	1.51404	9.76801	3.72417
11:33:55				570	9.32475	0.4855223	4.5267	1.51404	9.62149	3.81348

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:55				571	9.32865	0.4744601	4.5267	1.51404	9.47497	3.72048
11:33:56				572	9.32865	0.4734995	4.5267	1.51404	9.71917	3.71245
11:33:56				573	9.32962	0.4699719	4.5267	1.51404	9.57265	3.68286
11:33:57				574	9.3267	0.4694911	4.5267	1.51404	9.67033	3.67915
11:33:57				575	9.31305	0.4659651	4.5267	1.51404	9.81685	3.65108
11:33:58				576	9.31695	0.4688492	4.5267	1.51404	9.81685	3.67478
11:33:58				577	9.315	0.4678883	4.5267	1.51404	9.62149	3.66695
11:33:59				578	9.31695	0.4664449	4.5267	1.51404	10.10989	3.65469
11:33:59				579	9.315	0.4722162	4.5267	1.51404	9.71917	3.70313
11:34:00				580	9.31597	0.4710937	4.5267	1.51404	9.67033	3.69364
11:34:00				581	9.31402	0.4659651	4.5267	1.4652	9.23077	3.65098
11:34:01				582	9.31012	0.4720563	4.5267	1.4652	9.52381	3.70229
11:34:01				583	9.31305	0.4906522	4.5267	1.51404	10.10989	3.85773
11:34:02				584	9.31695	0.4985081	4.5267	1.4652	9.57265	3.92324
11:34:02				585	9.32182	0.5033182	4.5267	1.51404	9.18193	3.96312
11:34:03				586	9.3267	0.4954612	4.5267	1.51404	9.42613	3.89661
11:34:03				587	9.33255	0.4925762	4.5267	1.4652	9.67033	3.87177
11:34:04				588	9.32865	0.4938578	4.5267	1.51404	9.47497	3.88294
11:34:04				589	9.32962	0.4997907	4.5267	1.51404	9.52381	3.93263
11:34:05				590	9.33352	0.4936976	4.5267	1.4652	10.15873	3.88107
11:34:05				591	9.33449	0.4864829	4.5267	1.51404	9.71917	3.82049
11:34:06				592	9.33255	0.4749406	4.5267	1.51404	9.86569	3.72409
11:34:06				593	9.32767	0.4762243	4.5267	1.51404	9.86569	3.73533
11:34:07				594	9.32085	0.4818343	4.5267	1.51404	9.71917	3.783
11:34:07				595	9.31987	0.4871248	4.5267	1.51404	10.01221	3.82742
11:34:08				596	9.32767	0.476545	4.5267	1.51404	9.76801	3.73802
11:34:08				597	9.32182	0.4696508	4.5267	1.51404	9.47497	3.68098
11:34:09				598	9.31792	0.4718963	4.4283	1.51404	9.52381	3.70016
11:34:09				599	9.31695	0.4930567	4.5267	1.51404	10.30525	3.87748
11:34:10				600	9.32085	0.48472	4.5267	1.51404	10.30525	3.80717
11:34:10				601	9.32767	0.4754229	4.5267	1.4652	9.62149	3.72863
11:34:11				602	9.32182	0.4743	4.5267	1.51404	9.71917	3.71985
11:34:11				603	9.31305	0.4712552	4.5267	1.51404	9.81685	3.69529
11:34:12				604	9.3228	0.4731778	4.5267	1.4652	10.30525	3.71036
11:34:13				607	9.30787	0.4606764	4.4283	1.51404	9.91453	3.60745
11:34:14				608	9.30592	0.4637223	4.4283	1.51404	9.71917	3.63308
11:34:14				609	9.30494	0.462279	4.5267	1.51404	10.98901	3.62112
11:34:15				610	9.30202	0.4595549	4.5267	1.51404	9.76801	3.59867
11:34:15				611	9.30397	0.4598757	4.5267	1.51404	10.01221	3.60115
11:34:16				612	9.30202	0.4593945	4.5267	1.51404	9.76801	3.59733
11:34:16				613	9.30299	0.4582721	4.4283	1.51404	10.59829	3.58787
11:34:17				614	9.29909	0.4576311	4.5267	1.51404	9.91453	3.58291
11:34:17				615	9.30104	0.4569903	4.5267	1.4652	9.57265	3.57736
11:34:18				616	9.30007	0.4569903	4.5267	1.51404	9.52381	3.57746
11:34:18				617	9.29714	0.45667	4.5267	1.51404	9.86569	3.57508
11:34:19				618	9.29812	0.4547462	4.5267	1.4652	9.86569	3.55893

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:19				619	9.29812	0.4537835	4.5267	1.51404	9.71917	3.55091
11:34:20				620	9.29714	0.4555478	4.4283	1.51404	9.76801	3.56572
11:34:20				621	9.29714	0.4550662	4.5267	1.4652	10.06105	3.5617
11:34:21				622	9.29812	0.4526616	4.5267	1.51404	9.81685	3.54155
11:34:21				623	9.29519	0.453304	4.5267	1.51404	10.15873	3.5472
11:34:22				624	9.29227	0.4529828	4.5267	1.4652	9.91453	3.54481
11:34:22				625	9.29519	0.4544247	4.5267	1.51404	9.71917	3.55654
11:34:23				626	9.29129	0.4464117	4.5267	1.51404	9.57265	3.49013
11:34:23				627	9.28446	0.449616	4.5267	1.51404	9.71917	3.5175
11:34:24				628	9.28544	0.4549062	4.5267	1.51404	9.71917	3.56153
11:34:24				629	9.28934	0.452823	4.5267	1.51404	10.01221	3.54376
11:34:25				630	9.29032	0.4460902	4.5267	1.51404	9.67033	3.48755
11:34:25				631	9.28837	0.4483342	4.4283	1.51404	10.20757	3.50644
11:34:26				632	9.28641	0.4525019	4.4283	1.4652	9.86569	3.54138
11:34:26				633	9.28837	0.4536237	4.5267	1.4652	9.81685	3.55054
11:34:27				634	9.29227	0.4499365	4.5267	1.51404	10.15873	3.51941
11:34:27				635	9.28934	0.4488155	4.5267	1.4652	9.96337	3.51035
11:34:28				636	9.28641	0.4574709	4.5267	1.4652	10.01221	3.58283
11:34:28				637	9.29032	0.4565083	4.5267	1.51404	9.71917	3.57441
11:34:29				638	9.29324	0.453304	4.5267	1.51404	9.81685	3.54739
11:34:29				639	9.29227	0.4475327	4.5267	1.51404	10.06105	3.49938
11:34:30				640	9.28544	0.4444882	4.5267	1.51404	9.96337	3.47468
11:34:30				641	9.27953	0.4448079	4.5267	1.51404	9.76801	3.47791
11:34:31				642	9.2727	0.4473735	4.5267	1.51404	10.06105	3.49996
11:34:31				643	9.26684	0.443846	4.5267	1.51404	10.01221	3.47113
11:34:32				644	9.26782	0.4375964	4.4283	1.51404	10.35409	3.419
11:34:32				645	9.26489	0.438558	4.4283	1.51404	9.96337	3.42728
11:34:33				646	9.26294	0.4375964	4.4283	1.4652	10.10989	3.41946
11:34:33				647	9.26197	0.4435265	4.4283	1.4652	10.45177	3.46894
11:34:34				648	9.26489	0.4492955	4.5267	1.51404	10.30525	3.51674
11:34:34				649	9.27075	0.4454489	4.5267	1.4652	10.01221	3.48411
11:34:35				650	9.27465	0.4411221	4.6251	1.51404	10.15873	3.44768
11:34:35				651	9.26489	0.4396802	4.5267	1.51404	9.81685	3.43662
11:34:36				652	9.26294	0.4382363	4.4283	1.4652	10.15873	3.42479
11:34:36				653	9.26782	0.4375964	4.4283	1.51404	10.59829	3.419
11:34:37				654	9.26294	0.4361543	4.4283	1.51404	9.96337	3.40746
11:34:37				655	9.26294	0.4363141	4.4283	1.51404	10.01221	3.40879
11:34:38				656	9.26197	0.4367953	4.4283	1.51404	10.15873	3.41289
11:34:38				657	9.26294	0.4549062	4.4283	1.4652	10.01221	3.56376
11:34:39				658	9.26977	0.4736613	4.5267	1.4652	10.20757	3.71989
11:34:39				659	9.28148	0.443687	4.6251	1.51404	9.57265	3.46838
11:34:40				660	9.2688	0.4451292	4.5267	1.4652	9.71917	3.48163
11:34:40				661	9.26782	0.4512196	4.4283	1.51404	9.76801	3.53251
11:34:41				662	9.27855	0.4457703	4.5267	1.51404	9.86569	3.48603
11:34:41				663	9.27758	0.4448079	4.5267	1.4652	9.91453	3.4781
11:34:42				664	9.27758	0.443366	4.4283	1.51404	10.30525	3.4661

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:42				665	9.2727	0.4545863	4.4283	1.51404	9.76801	3.56012
11:34:43				666	9.27075	0.4545863	4.5267	1.51404	10.69597	3.56031
11:34:43				667	9.27172	0.4521808	4.5267	1.51404	9.96337	3.54014
11:34:44				668	9.2727	0.4542648	4.5267	1.51404	9.67033	3.55744
11:34:44				669	9.2766	0.4872878	4.5267	1.51404	9.47497	3.83341
11:34:45				670	9.29032	0.4869668	4.5267	1.51404	9.52381	3.82925
11:34:45				671	9.31079	0.4835994	4.5267	1.4652	9.67033	3.79884
11:34:46				672	9.30202	0.490334	4.5267	1.51404	9.91453	3.85625
11:34:46				673	9.31469	0.4584324	4.5267	1.51404	9.81685	3.58803
11:34:47				674	9.30007	0.4635615	4.4283	1.4652	10.15873	3.63232
11:34:47				675	9.27953	0.4555478	4.4283	1.51404	9.91453	3.56747
11:34:48				676	9.28641	0.5020365	4.4283	1.51404	9.67033	3.95625
11:34:48				677	9.31762	0.5108559	4.5267	1.4652	9.76801	4.02697
11:34:49				678	9.33328	0.4937009	4.6251	1.51404	9.37729	3.88112
11:34:49				679	9.3323	0.5046025	4.5267	1.51404	9.37729	3.97275
11:34:50				680	9.33425	0.4996315	4.6251	1.51404	9.23077	3.93078
11:34:50				681	9.33718	0.4759053	4.5267	1.51404	9.03541	3.73168
11:34:51				682	9.32932	0.4747821	4.4283	1.4652	9.18193	3.72311
11:34:51				683	9.32639	0.494342	4.4283	1.51404	9.18193	3.88725
11:34:52				684	9.32932	0.5063668	4.4283	1.51404	10.06105	3.98792
11:34:52				685	9.33815	0.5512664	4.4283	1.4652	9.96337	4.36558
11:34:53				686	9.33328	0.5466161	4.6251	1.51404	9.91453	4.32682
11:34:53				687	9.33912	0.515025	4.6251	1.51404	9.18193	4.05962
11:34:54				688	9.33523	0.5114964	4.6251	1.51404	9.03541	4.03038
11:34:54				689	9.33328	0.5074885	4.5267	1.51404	8.79121	3.9969
11:34:55				690	9.34107	0.5073286	4.4283	1.51404	9.27961	3.99469
11:34:55				691	9.34302	0.5020364	4.3299	1.51404	9.52381	3.95003
11:34:56				692	9.34984	0.500754	4.4283	1.51404	9.57265	3.93851
11:34:56				693	9.35179	0.5090922	4.5267	1.4652	9.27961	4.00832
11:34:57				694	9.35179	0.5196745	4.5267	1.4652	9.32845	4.09733
11:34:57				695	9.34497	0.5005948	4.5267	1.51404	9.67033	3.9377
11:34:58				696	9.34497	0.4930583	4.5267	1.4652	9.03541	3.87448
11:34:58				697	9.3479	0.4839213	4.4283	1.51404	9.23077	3.79763
11:34:59				698	9.34302	0.4861654	4.3299	1.51404	9.03541	3.81694
11:34:59				699	9.33029	0.5073286	4.3299	1.51404	9.42613	3.9959
11:35:00				700	9.33718	0.5126196	4.5267	1.51404	10.79365	4.03961
11:35:00				701	9.3323	0.5086108	4.5267	1.51404	9.52381	4.00644
11:35:01				702	9.33133	0.5050829	4.5267	1.4652	9.13309	3.9769
11:35:01				703	9.3401	0.5038016	4.5267	1.51404	9.37729	3.96516
11:35:02				704	9.34302	0.5073286	4.4283	1.4652	9.42613	3.99448
11:35:02				705	9.344	0.5086108	4.6251	1.4652	9.18193	4.00513
11:35:03				706	9.34107	0.5054038	4.5267	1.51404	9.18193	3.97851
11:35:03				707	9.3401	0.5078098	4.5267	1.4652	9.08425	3.99884
11:35:04				708	9.3401	0.5025178	4.5267	1.51404	9.37729	3.95438
11:35:04				709	9.34107	0.5050829	4.4283	1.51404	9.08425	3.97582
11:35:05				710	9.344	0.5100539	4.4283	1.51404	9.37729	4.01728

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:05				711	9.34302	0.5095738	4.5267	1.51404	9.62149	4.01334
11:35:06				712	9.3401	0.5054038	4.5267	1.4652	9.42613	3.97862
11:35:06				713	9.34205	0.5057247	4.5267	1.51404	9.18193	3.9811
11:35:07				714	9.34497	0.5086108	4.5267	1.51404	9.13309	4.00503
11:35:07				715	9.34107	0.5052442	4.5267	1.4652	9.47497	3.97717
11:35:08				716	9.34107	0.5052442	4.5267	1.51404	8.98657	3.97717
11:35:08				717	9.34302	0.4993116	4.5267	1.51404	9.08425	3.92714
11:35:09				718	9.34497	0.4896926	4.5267	1.51404	9.18193	3.84627
11:35:09				719	9.34595	0.5097338	4.5267	1.56288	9.76801	4.01436
11:35:10				720	9.34984	0.5081294	4.5267	1.51404	9.96337	4.00044
11:35:10				721	9.34107	0.4821576	4.5267	1.4652	9.76801	3.78358
11:35:11				722	9.33425	0.4792712	4.4283	1.51404	9.57265	3.76014
11:35:11				723	9.3323	0.4617987	4.5267	1.51404	9.37729	3.61435
11:35:12				724	9.31372	0.4557078	4.4283	1.4652	9.42613	3.56541
11:35:13				727	9.33833	0.4667669	4.5267	1.51404	9.71917	3.65521
11:35:14				728	9.32079	0.4609974	4.5267	1.51404	9.91453	3.60883
11:35:14				729	9.30811	0.4709355	4.4283	1.51404	9.96337	3.69313
11:35:15				730	9.31104	0.4997923	4.4283	1.51404	9.52381	3.93468
11:35:15				731	9.33443	0.4967465	4.5267	1.4652	10.74481	3.90655
11:35:16				732	9.34126	0.4776677	4.6251	1.4652	9.86569	3.74599
11:35:16				733	9.33443	0.4890499	4.5267	1.51404	9.47497	3.84201
11:35:17				734	9.34126	0.4911338	4.4283	1.4652	9.52381	3.85875
11:35:17				735	9.35009	0.4845622	4.5267	1.51404	9.76801	3.80275
11:35:18				736	9.34814	0.4717364	4.5267	1.51404	9.67033	3.69571
11:35:18				737	9.33151	0.4779886	4.5267	1.4652	9.86569	3.74969
11:35:19				738	9.32566	0.4759053	4.5267	1.56288	9.62149	3.73288
11:35:19				739	9.32176	0.4654854	4.4283	1.51404	9.42613	3.6462
11:35:20				740	9.31006	0.4698138	4.5267	1.51404	9.71917	3.68355
11:35:20				741	9.31201	0.5049234	4.5267	1.51404	10.15873	3.97769
11:35:21				742	9.32469	0.5009149	4.5267	1.51404	10.06105	3.94261
11:35:21				743	9.33054	0.4789501	4.5267	1.4652	9.52381	3.75784
11:35:22				744	9.32274	0.4853628	4.5267	1.51404	9.47497	3.81236
11:35:22				745	9.32371	0.4890499	4.4283	1.4652	9.62149	3.84316
11:35:23				746	9.33248	0.4933788	4.4283	1.51404	9.91453	3.87852
11:35:23				747	9.34126	0.4957836	4.5267	1.51404	9.62149	3.89773
11:35:24				748	9.34911	0.4807138	4.6251	1.51404	9.76801	3.77065
11:35:24				749	9.32859	0.477026	4.4283	1.56288	9.47497	3.74195
11:35:25				750	9.31494	0.4802334	4.4283	1.51404	9.76801	3.77022
11:35:25				751	9.31786	0.4928982	4.5267	1.51404	10.25641	3.87606
11:35:26				752	9.33346	0.483279	4.6251	1.51404	9.81685	3.79376
11:35:26				753	9.33151	0.4744618	4.5267	1.4652	9.32845	3.7202
11:35:27				754	9.30714	0.4597153	4.4283	1.51404	9.81685	3.5995
11:35:27				755	9.30324	0.4890499	4.4283	1.51404	9.96337	3.84535
11:35:28				756	9.30519	0.4734995	4.6251	1.51404	9.81685	3.71487
11:35:28				757	9.30714	0.4645232	4.6251	1.56288	9.47497	3.63963
11:35:29				758	9.29342	0.4553862	4.3299	1.51404	9.52381	3.56475

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:29				759	9.29147	0.4900125	4.4283	1.4652	9.81685	3.85469
11:35:30				760	9.31201	0.4819968	4.6251	1.4652	9.86569	3.78528
11:35:30				761	9.31689	0.4755848	4.6251	1.4652	9.42613	3.7311
11:35:31				762	9.30519	0.4577913	4.3299	1.51404	9.52381	3.58365
11:35:31				763	9.29934	0.4932186	4.4283	1.51404	9.91453	3.88075
11:35:32				764	9.31104	0.4819968	4.6251	1.51404	9.81685	3.78539
11:35:32				765	9.31494	0.4741415	4.5267	1.51404	9.32845	3.71923
11:35:33				766	9.30519	0.4542648	4.3299	1.51404	9.62149	3.55423
11:35:33				767	9.2983	0.4977083	4.4283	1.51404	10.06105	3.91857
11:35:34				768	9.31104	0.48344	4.6251	1.51404	9.81685	3.79748
11:35:34				769	9.31494	0.4765466	4.5267	1.4652	9.18193	3.73936
11:35:35				770	9.30129	0.4752627	4.3299	1.51404	9.47497	3.73004
11:35:35				771	9.2983	0.4997924	4.5267	1.51404	9.76801	3.93607
11:35:36				772	9.2983	0.4829588	4.7234	1.51404	9.81685	3.79479
11:35:36				773	9.2983	0.482637	4.5267	1.51404	9.32845	3.7921
11:35:37				774	9.29635	0.4879282	4.3299	1.51404	9.37729	3.83668
11:35:37				775	9.2983	0.4967466	4.5267	1.51404	9.47497	3.91048
11:35:38				776	9.30616	0.4890499	4.6251	1.51404	9.57265	3.84502
11:35:38				777	9.30324	0.4868055	4.6251	1.4652	9.18193	3.82651
11:35:39				778	9.30031	0.489691	4.4283	1.51404	9.18193	3.85104
11:35:39				779	9.30129	0.500754	4.5267	1.51404	9.42613	3.94383
11:35:40				780	9.30031	0.4917757	4.6251	1.51404	9.42613	3.86852
11:35:40				781	9.29733	0.4888901	4.5267	1.51404	9.03541	3.84463
11:35:41				782	9.29733	0.4978689	4.5267	1.51404	9.23077	3.92002
11:35:41				783	9.29635	0.5074885	4.5267	1.51404	9.37729	4.00101
11:35:42				784	9.30031	0.5155049	4.5267	1.51404	9.37729	4.06806
11:35:42				785	9.31396	0.5241645	4.5267	1.4652	8.93773	4.13949
11:35:43				786	9.33248	0.5305775	4.4283	1.51404	9.27961	4.19144
11:35:43				787	9.34223	0.5952141	4.5267	1.51404	9.23077	4.73813
11:35:44				788	9.4008	0.5982616	4.5267	1.51404	9.27961	4.75634
11:35:44				789	9.46898	0.5822196	4.5267	1.56288	8.59585	4.61131
11:35:45				790	9.46218	0.5969787	4.5267	1.51404	8.35165	4.73734
11:35:45				791	9.48746	0.5783702	4.5267	1.51404	7.81441	4.57636
11:35:46				792	9.47677	0.5905616	4.5267	1.51404	7.81441	4.68099
11:35:46				793	9.48357	0.6025922	4.5267	1.4652	7.81441	4.78217
11:35:47				794	9.50114	0.5706717	4.5267	1.51404	7.47253	4.50955
11:35:47				795	9.45537	0.5743611	4.5267	1.51404	7.37485	4.5465
11:35:48				796	9.48163	0.6454303	4.5267	1.51404	7.42369	5.14724
11:35:48				797	9.5371	0.6106142	4.5267	1.51404	7.52137	4.84312
11:35:49				798	9.51961	0.6090093	4.5267	1.4652	7.03297	4.83184
11:35:49				799	9.51183	0.641739	4.5267	1.51404	6.73993	5.11143
11:35:50				800	9.55562	0.633397	4.5267	1.51404	7.03297	5.0342
11:35:50				801	9.57699	0.6154275	4.5267	1.4652	6.59341	4.87858
11:35:51				802	9.56048	0.6435052	4.4283	1.51404	6.34921	5.11959
11:35:51				803	9.59259	0.6507249	4.4283	1.51404	6.83761	5.17652
11:35:52				804	9.65088	0.6274603	4.5267	1.51404	6.69109	4.97056

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:52				805	9.6353	0.6409381	4.5267	1.51404	5.90965	5.08716
11:35:53				806	9.64215	0.6707842	4.4283	1.51404	6.15385	5.34031
11:35:53				807	9.59938	0.6489596	4.5267	1.4652	6.30037	5.1605
11:35:54				808	9.59841	0.6534526	4.5267	1.4652	6.10501	5.19892
11:35:54				809	9.65476	0.6547369	4.4283	1.51404	6.05617	5.20174
11:35:55				810	9.60812	0.6634022	4.5267	1.51404	6.10501	5.28234
11:35:55				811	9.56631	0.6534526	4.5267	1.51404	6.54457	5.20355
11:35:56				812	9.61589	0.6542561	4.4283	1.51404	6.54457	5.20325
11:35:56				813	9.63433	0.6706233	4.5267	1.51404	6.39805	5.34009
11:35:57				814	9.57699	0.6545774	4.5267	1.4652	5.90965	5.2116
11:35:57				815	9.62074	0.6548967	4.4283	1.51404	6.20269	5.20801
11:35:58				816	9.63141	0.6667723	4.4283	1.51404	6.20269	5.30767
11:35:58				817	9.54785	0.6592298	4.5267	1.4652	5.95849	5.25553
11:35:59				818	9.59453	0.6576263	4.5267	1.56288	5.86081	5.23506
11:35:59				819	9.66446	0.6712651	4.5267	1.51404	5.90965	5.3411
11:36:00				820	9.65476	0.6690184	4.5267	1.51404	6.39805	5.32338
11:36:00				821	9.61589	0.6542561	4.5267	1.51404	5.81197	5.20324
11:36:01				822	9.66543	0.6674148	4.4283	1.4652	5.71429	5.30815
11:36:01				823	9.64603	0.6821778	4.4283	1.51404	6.39805	5.43699
11:36:02	11:34:38 start profile	15	240	824	9.58476	0.6510455	4.4283	1.51404	6.15385	5.18037
11:36:02				825	9.64015	0.6661299	4.4283	1.51404	5.71429	5.30091
11:36:03				826	9.59841	0.6678952	4.4283	1.51404	6.00733	5.32212
11:36:03				827	9.56631	0.6510455	4.4283	1.51404	5.76313	5.18303
11:36:04	11:34:40	13	240	828	9.62753	0.681858	4.4283	1.51404	5.81197	5.43704
11:36:04				829	9.57699	0.6812167	4.4283	1.51404	5.86081	5.43918
11:36:05				830	9.54591	0.6590698	4.4283	1.4652	6.05617	5.25446
11:36:05				831	9.62656	0.6616371	4.4283	1.51404	6.49573	5.2646
11:36:06				832	9.65185	0.6855485	4.4283	1.51404	6.10501	5.46491
11:36:06				833	9.52447	0.6640439	4.4283	1.51404	6.10501	5.3001
11:36:07				834	9.55659	0.6693402	4.4283	1.51404	6.30037	5.34065
11:36:07				835	9.57116	0.6730311	4.3299	1.51404	6.34921	5.37004
11:36:08				836	9.51475	0.6709454	4.4283	1.4652	5.95849	5.36059
11:36:08				837	9.50794	0.6680561	4.3299	1.51404	6.39805	5.33688
11:36:09				838	9.52252	0.6691795	4.4283	1.4652	7.03297	5.34432
11:36:09				839	9.52447	0.6635627	4.3299	1.51404	7.03297	5.296
11:36:10				840	9.51864	0.6772035	4.3299	1.51404	6.98413	5.41361
11:36:10				841	9.48552	0.6802524	4.3299	1.51404	6.88645	5.44474
11:36:11	11:34:47	11	240	842	9.47677	0.6759201	4.3299	1.51404	7.13065	5.4089
11:36:11				843	9.46996	0.6828217	4.3299	1.4652	7.13065	5.46915
11:36:12				844	9.45828	0.6895613	4.3299	1.51404	6.98413	5.52882
11:36:13				847	9.52435	0.7197193	4.3299	1.51404	6.78877	5.77789
11:36:14				848	9.54579	0.7540719	4.3299	1.51404	6.98413	6.07069
11:36:14				849	9.56327	0.7332027	4.3299	1.51404	6.78877	5.88772
11:36:15	11:34:51	9	240	850	9.57201	0.7322394	4.3299	1.51404	6.78877	5.878
11:36:15				851	9.58464	0.7399457	4.3299	1.4652	6.73993	5.94232
11:36:16				852	9.58658	0.7227682	4.3299	1.51404	6.83761	5.79414

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:16				853	9.58173	0.7036679	4.3299	1.51404	6.83761	5.63084
11:36:17				854	9.57978	0.6842474	4.3299	1.51404	6.59341	5.4647
11:36:17				855	9.57298	0.6778291	4.3299	1.51404	6.88645	5.41081
11:36:18				856	9.5487	0.6701264	4.3299	1.4652	6.88645	5.34855
11:36:18				857	9.55453	0.6630653	4.3299	1.51404	6.98413	5.28733
11:36:19				858	9.56619	0.660336	4.3299	1.51404	6.69109	5.26232
11:36:19				859	9.5759	0.6547209	4.3299	1.4652	6.59341	5.21299
11:36:20				860	9.59926	0.6516707	4.3299	1.51404	6.59341	5.18363
11:36:20				861	9.61771	0.6539188	4.3299	1.56288	6.54457	5.20012
11:36:21	11:34:57	7	240	862	9.60703	0.6529558	4.3299	1.51404	6.44689	5.19346
11:36:21				863	9.60703	0.6614607	4.3299	1.51404	6.39805	5.26595
11:36:22				864	9.59538	0.6430072	4.3299	1.4652	6.59341	5.11041
11:36:22				865	9.61771	0.6345037	4.3299	1.51404	6.34921	5.03496
11:36:23				866	9.66628	0.6431676	4.3299	1.51404	6.54457	5.10174
11:36:23				867	9.70318	0.6072283	4.3299	1.51404	6.83761	4.7923
11:36:24				868	9.74782	0.5799587	4.3299	1.51404	6.78877	4.55684
11:36:24				869	9.93856	0.5773931	4.3299	5.32357	7.76557	4.51149
11:36:25	11:35:01	5	240	870	10.16254	0.6269616	4.3299	2.29548	8.00977	4.89679
11:36:25				871	10.34834	0.6369081	4.4283	3.80952	7.96093	4.9547
11:36:26				872	10.53357	0.6434871	4.4283	8.84005	7.37485	4.98423
11:36:26				873	10.64945	0.7039867	4.4283	15.04274	7.03297	5.47067
11:36:27				874	10.82236	0.7818446	4.4283	16.31258	6.83761	6.09365
11:36:27				875	11.13942	0.7283831	4.4283	14.26129	6.44689	5.59932
11:36:28	11:35:04	3	240	876	11.03679	0.7229259	4.5267	20.21978	6.15385	5.56976
11:36:28				877	10.95774	0.7392989	4.5267	21.92918	6.20269	5.71741
11:36:29				878	11.00155	0.7047883	4.5267	17.6801	6.34921	5.42522
11:36:29				879	10.89294	0.7110489	4.4283	20.75702	6.10501	5.49306
11:36:30				880	11.03007	0.7584044	4.5267	23.0525	6.10501	5.86461
11:36:30				881	11.10619	0.7352869	4.5267	23.88278	6.39805	5.66134
11:36:31				882	11.06434	0.6980475	4.5267	25.68987	6.15385	5.3605
11:36:31				883	10.83958	0.7177906	4.5267	23.5409	6.15385	5.55696
11:36:32				884	10.85388	0.7285452	4.5267	18.60806	6.49573	5.64412
11:36:32				885	10.8338	0.7195554	4.5267	23.5409	6.49573	5.57249
11:36:33	11:35:09	1	240	886	10.79566	0.7169873	4.5267	25.59219	6.00733	5.55692
11:36:33				887	10.78803	0.7142578	4.5267	25.54335	6.20269	5.53538
11:36:34				888	10.67621	0.7091219	4.5267	21.19658	6.20269	5.50944
11:36:34				889	10.65901	0.7107271	4.5267	15.4823	6.20269	5.5254
11:36:35				890	10.58143	0.7140978	4.5267	14.06593	6.69109	5.56526
11:36:35				891	10.51531	0.7006153	4.5267	11.72161	6.93529	5.46252
11:36:36				892	10.56612	0.6949987	4.5267	11.72161	6.49573	5.40808
11:36:36				893	10.45393	0.7632212	4.5267	14.31013	6.64225	5.99785
11:36:37				894	10.23579	0.7404255	4.5267	9.91453	6.54457	5.84059
11:36:37				895	10.20879	0.7192352	4.5267	10.30525	6.54457	5.66566
11:36:38				896	10.24156	0.6927517	4.4283	9.13309	6.49573	5.43739
11:36:38				897	10.03328	0.6858517	4.2315	7.32601	6.73993	5.41024
11:36:39				898	9.78365	0.6293684	3.9364	2.73504	6.73993	4.96851

**Table B-4. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Millennium
(7/15/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Dye Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:39				899	9.65464	0.6126842	3.838	1.51404	6.69109	4.84493
11:36:40				900	9.49324	0.5332897	3.7396	1.51404	7.66789	4.1956
11:36:40				901	9.4426	0.5105205	3.7396	1.51404	9.23077	4.01024
11:36:41				902	9.37432	0.4595418	3.7396	1.51404	9.76801	3.59138
11:36:41				903	9.32554	0.4866326	3.838	1.51404	9.32845	3.82274
11:36:42				904	9.32749	0.4908006	3.838	1.51404	9.18193	3.85747
11:36:42				905	9.34802	0.4834268	3.7396	1.51404	9.52381	3.79352
11:36:43				906	9.34802	0.4810221	3.838	1.4652	9.62149	3.77339
11:36:43				907	9.35484	0.4725262	3.7396	1.51404	9.32845	3.70166
11:36:44				908	9.35776	0.4624266	3.838	1.51404	9.23077	3.61707
11:36:44				909	9.35874	0.4605045	3.838	1.51404	9.91453	3.60095
11:36:45				910	9.34412	0.4694796	3.7396	1.51404	9.52381	3.67731
11:36:45				911	9.33529	0.466915	3.6412	1.4652	9.42613	3.65681
11:36:46				912	9.30994	0.4422316	3.1493	1.51404	9.67033	3.45361
11:36:46				913	9.30409	0.4257256	2.7558	1.51404	9.52381	3.31705
11:36:47				914	9.29922	0.4239621	2.3623	1.51404	9.76801	3.30289
11:36:47				915	9.2855	0.3850257	1.8703	1.51404	9.81685	2.98228
11:36:48				916	9.26599	0.3549096	1.4768	1.4652	10.45177	2.73651
11:36:48				917	9.25818	0.3480224	1.0833	1.51404	10.94017	2.68075
11:36:49				918	9.25721	0.347702	0.9849	1.51404	11.28205	2.6782
11:36:49				919	9.25526	0.3473816	0.9849	1.51404	12.11233	2.67573
11:36:50				920	9.25428	0.3475418	0.9849	1.51404	11.08669	2.67711
11:36:50				921	9.25428	0.3432164	0.9849	1.51404	11.42857	2.64175
11:36:51				922	9.25135	0.3409741	0.8865	1.4652	11.67277	2.62365
11:36:51				923	9.24647	0.3406536	0.7881	1.51404	11.23321	2.62139
11:36:52				924	9.24349	0.0454741	0.6898	1.4652	11.18437	0.31763
11:36:52				925	9.26014	0.3478622	0.5914	1.51404	13.18681	2.67931
11:36:53				926	9.26599	0.3419359	0.6898	0	0	2.63044
11:36:53				927	9.27672	0.3254395	0.5914	0	0	2.49523
11:36:54				928	9.31189	0.328322	0.5914	0	0	2.51622
11:36:54				929	9.34314	0.0740808	0.6898	0	0	0.52578
11:36:55				930	9.37822	0.0402008	0.6898	0	0	0.27861
11:36:55				931	9.41431	0.0362064	0.6898	0	0	0.24984
11:36:56				932	9.45135	0.0517068	0.6898	0	0	0.3608
11:36:56				933	9.49713	0.0421186	0.6898	0	0	0.29142
11:36:57				934	9.52921	0.0291766	0.6898	0	0	0.19945
11:36:57				935	9.56716	0.0278986	0.6898	0	0	0.1903
11:36:58				936	9.6012	0.028058	0.6898	0	0	0.19125
11:36:58				937	9.64009	0.0288575	0.6898	0	0	0.19664
11:36:59				938	9.67792	0.028698	0.6898	0	0	0.19534
11:36:59				939	9.69543	0.0216681	0.6898	0	0	0.14645
11:37:00	11:35:45 switch off			940	9.71772	0.0267805	0.6898	0	0	0.18177

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:02:32	10:02:30 switch on	10.0	270	7	8.94215	0.368633	1.2801	0	0	2.87491
10:02:33	no dye - background			8	8.93431	0.3676709	1.2801	0	0	2.86757
10:02:33				9	8.90777	0.368633	1.3784	0	0	2.87768
10:02:34				10	8.88318	0.3702369	1.3784	0	0	2.89298
10:02:34				11	8.88907	0.3771309	1.2801	0	0	2.94979
10:02:35				12	8.89501	0.3785738	1.2801	0	0	2.96129
10:02:35				13	8.88612	0.3792155	1.3784	0	0	2.96736
10:02:36				14	8.88907	0.3819412	1.3784	0	0	2.9898
10:02:36				15	8.87238	0.3830637	1.3784	0	0	3.00054
10:02:37				16	8.86944	0.382422	1.2801	0	0	2.99545
10:02:37				17	8.86355	0.3825828	1.3784	0	0	2.99728
10:02:38				18	8.86846	0.3837058	1.2801	0	0	3.00622
10:02:38				19	8.8714	0.384667	1.3784	0	0	3.01398
10:02:39				20	8.85956	0.3870733	1.2801	0	0	3.03504
10:02:39				21	8.8665	0.3881948	1.3784	0	0	3.0438
10:02:40				22	8.86846	0.3885161	1.3784	0	0	3.04631
10:02:40				23	8.86748	0.388676	1.3784	0	0	3.04773
10:02:41				24	8.86944	0.3885161	1.3784	0	0	3.04623
10:02:41				25	8.86453	0.388676	1.3784	0	0	3.04798
10:02:42				26	8.8665	0.3907604	1.3784	0	0	3.0652
10:02:42				27	8.8665	0.392524	1.3784	0	0	3.07992
10:02:43				28	8.86251	0.3965342	1.3784	0	0	3.11375
10:02:43				29	8.85466	0.3920432	1.3784	0	0	3.07692
10:02:44				30	8.83398	0.4008626	1.2801	0	0	3.15244
10:02:44				31	8.836	0.4003825	1.3784	0	0	3.14824
10:02:45				32	8.83993	0.4027876	1.2801	0	0	3.16802
10:02:45				33	8.8468	0.4016652	1.3784	0	0	3.15802
10:02:46				34	8.84975	0.3999009	1.3784	0	0	3.143
10:02:46				35	8.85171	0.4026279	1.3784	0	0	3.16564
10:02:47				36	8.8468	0.3990992	1.3784	0	0	3.13656
10:02:47				37	8.85073	0.3987789	1.3784	0	0	3.13353
10:02:48				38	8.8468	0.4011832	1.3784	0	0	3.15399
10:02:48				39	8.85171	0.4000619	1.3784	0	0	3.14417
10:02:49				40	8.86551	0.3987789	1.2801	0	0	3.13224
10:02:49				41	8.86551	0.3992601	1.2801	0	0	3.13626
10:02:50				42	8.86251	0.3979762	1.3784	0	0	3.12579
10:02:50				43	8.85466	0.4000619	1.3784	0	0	3.14392
10:02:51				44	8.86453	0.3999009	1.3784	0	0	3.1417
10:02:51				45	8.87631	0.3976561	1.3784	0	0	3.12191
10:02:52				46	8.88514	0.3990991	1.2801	0	0	3.13319
10:02:52				47	8.89207	0.3992601	1.3784	0	0	3.13393
10:02:53				48	8.89005	0.3984571	1.3784	0	0	3.1274
10:02:53				49	8.89599	0.3997398	1.3784	0	0	3.13759
10:02:54				50	8.88808	0.3987789	1.3784	0	0	3.13026
10:02:54				51	8.87337	0.3976561	1.3784	0	0	3.12217

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:02:55				52	8.8665	0.3989382	1.3784	0	0	3.13348
10:02:55				53	8.86551	0.3990992	1.2801	0	0	3.13492
10:02:56				54	8.86153	0.3982978	1.3784	0	0	3.12857
10:02:56				55	8.8468	0.3976562	1.3784	0	0	3.12449
10:02:57				56	8.84582	0.3978169	1.3784	0	0	3.12592
10:02:57				57	8.85564	0.3974954	1.3784	0	0	3.12238
10:02:58				58	8.85858	0.3976561	1.3784	0	0	3.12346
10:02:58				59	8.85662	0.3976561	1.2801	0	0	3.12364
10:02:59				60	8.85171	0.3978169	1.3784	0	0	3.12541
10:02:59				61	8.84778	0.3978169	1.3784	0	0	3.12575
10:03:00				62	8.84287	0.3974954	1.2801	0	0	3.1235
10:03:00				63	8.85269	0.3976561	1.3784	0	0	3.12398
10:03:01				64	8.84877	0.3982979	1.3784	0	0	3.12969
10:03:01				65	8.84189	0.3974954	1.3784	0	0	3.12358
10:03:02				66	8.84189	0.3966933	1.2801	0	0	3.11688
10:03:02				67	8.84877	0.3976562	1.3784	0	0	3.12432
10:03:03				68	8.85367	0.3971754	1.2801	0	0	3.11988
10:03:03				69	8.86551	0.3960522	1.3784	0	0	3.10946
10:03:04				70	8.86944	0.3965342	1.3784	0	0	3.11314
10:03:04				71	8.87435	0.3960522	1.3784	0	0	3.10869
10:03:05				72	8.86944	0.3949298	1.3784	0	0	3.09974
10:03:05				73	8.8714	0.3946088	1.3784	0	0	3.09689
10:03:06				74	8.88416	0.3946088	1.3784	0	0	3.09579
10:03:06				75	8.89501	0.3946088	1.3784	0	0	3.09485
10:03:07				76	8.9009	0.3944483	1.3784	0	0	3.093
10:03:07				77	8.89599	0.3946088	1.3784	0	0	3.09476
10:03:08				78	8.89501	0.3946088	1.3784	0	0	3.09485
10:03:08				79	8.88612	0.3936462	1.3784	0	0	3.08759
10:03:09				80	8.87925	0.3941274	1.3784	0	0	3.0922
10:03:09				81	8.8822	0.3942879	1.3784	0	0	3.09328
10:03:10				82	8.87925	0.3941274	1.3784	0	0	3.0922
10:03:10				83	8.88514	0.3942879	1.2801	0	0	3.09303
10:03:11				84	8.89305	0.3934858	1.3784	0	0	3.08565
10:03:11				85	8.89305	0.3941274	1.3784	0	0	3.091
10:03:12				86	8.88808	0.3941274	1.3784	0	0	3.09143
10:03:12				87	8.88808	0.3936462	1.2801	0	0	3.08742
10:03:13				88	8.88808	0.3938066	1.3784	0	0	3.08875
10:03:13				89	8.88024	0.3936462	1.3784	0	0	3.08809
10:03:14				90	8.87042	0.3936462	1.3784	0	0	3.08894
10:03:14				91	8.87238	0.3941274	1.3784	0	0	3.09279
10:03:15				92	8.88416	0.3936462	1.2801	0	0	3.08776
10:03:15				93	8.8871	0.3938066	1.3784	0	0	3.08884
10:03:16				94	8.87827	0.3941274	1.2801	0	0	3.09228
10:03:16				95	8.87533	0.3901186	1.3784	0	0	3.05909
10:03:17				96	8.87533	0.384828	1.3784	0.58608	0.29304	3.01499

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:03:17				97	8.86748	0.3840261	1.3784	0.39072	0.09768	3.00897
10:03:18				98	8.87238	0.384187	1.2801	1.4652	0.9768	3.0099
10:03:18				99	8.87238	0.384667	1.3784	1.41636	11.23321	3.0139
10:03:19				100	8.87337	0.3845075	1.3784	1.4652	10.98901	3.01249
10:03:19				101	8.87435	0.3843465	1.3784	1.41636	11.23321	3.01106
10:03:20				102	8.87533	0.3840261	1.2801	1.4652	11.23321	3.00831
10:03:20				103	8.87337	0.3843465	1.2801	1.41636	12.45421	3.01115
10:03:21				104	8.87238	0.382102	1.3784	1.4652	11.18437	2.99253
10:03:21				105	8.87238	0.3811392	1.3784	1.41636	10.79365	2.98452
10:03:22				106	8.87238	0.382422	1.3784	1.4652	12.01465	2.9952
10:03:22				107	8.87631	0.3804983	1.3784	1.4652	11.81929	2.97885
10:03:23				108	8.8714	0.3804983	1.3784	1.4652	10.74481	2.97926
10:03:23				109	8.87337	0.3816213	1.3784	1.41636	11.33089	2.98845
10:03:24				110	8.87827	0.3784134	1.2801	1.4652	10.84249	2.96135
10:03:24				111	8.87631	0.3769706	1.3784	1.4652	11.67277	2.9495
10:03:25				112	8.87631	0.3729622	1.3784	1.4652	11.67277	2.91617
10:03:25				113	8.87729	0.3755277	1.3784	1.4652	10.64713	2.93742
10:03:26				114	8.87827	0.3776117	1.3784	1.41636	10.10989	2.95467
10:03:26				115	8.87827	0.3699163	1.3784	1.4652	11.23321	2.89071
10:03:27				116	8.88024	0.3758479	1.2801	1.41636	11.47741	2.93985
10:03:27				117	8.8822	0.3753676	1.3784	1.41636	11.57509	2.93569
10:03:28				118	8.87925	0.3710379	1.2801	1.4652	12.21001	2.89995
10:03:28				119	8.88318	0.3715199	1.2801	1.4652	11.77045	2.90364
10:03:29				120	8.88514	0.3734433	1.3784	1.4652	10.74481	2.91945
10:03:29				121	8.88808	0.3747259	1.3784	1.4652	11.37973	2.92987
10:03:30				122	8.8871	0.3748859	1.3784	1.41636	11.37973	2.93128
10:03:30				123	8.88612	0.3766502	1.2801	1.4652	10.89133	2.94603
10:03:31				124	8.88514	0.379376	1.3784	1.41636	11.72161	2.96878
10:03:32				127	8.8887	0.3793775	1.3784	1.4652	10.98901	2.9685
10:03:33				128	8.87987	0.3785769	1.3784	1.4652	12.06349	2.96257
10:03:33				129	8.87889	0.3787373	1.3784	1.4652	11.72161	2.96398
10:03:34				130	8.87889	0.3798591	1.3784	1.4652	12.45421	2.97332
10:03:34				131	8.87692	0.3776148	1.3784	1.4652	11.08669	2.95481
10:03:35				132	8.87594	0.3787373	1.2801	1.4652	10.64713	2.96423
10:03:35				133	8.87594	0.381782	1.2801	1.4652	11.57509	2.98958
10:03:36				134	8.87196	0.3788977	1.2801	1.4652	12.16117	2.9659
10:03:36				135	8.87294	0.3788977	1.3784	1.4652	11.37973	2.96581
10:03:37				136	8.87294	0.3806604	1.2801	1.41636	11.91697	2.98049
10:03:37				137	8.87294	0.3785769	1.3784	1.4652	10.54945	2.96314
10:03:38				138	8.87294	0.380821	1.3784	1.4652	10.79365	2.98182
10:03:38				139	8.87398	0.3809801	1.3784	1.4652	12.11233	2.98306
10:03:39				140	8.87692	0.3809801	1.3784	1.41636	11.42857	2.98281
10:03:39				141	8.87594	0.3849875	1.3784	1.4652	10.10989	3.01627
10:03:40				142	8.87294	0.3840261	1.3784	1.4652	11.18437	3.00851
10:03:40				143	8.86999	0.3819428	1.3784	1.4652	10.84249	2.99141

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:03:41				144	8.87196	0.3905972	1.3784	1.4652	10.98901	3.06337
10:03:41				145	8.86901	0.3910791	1.3784	1.41636	12.11233	3.06764
10:03:42				146	8.86312	0.3905972	1.3784	1.4652	11.28205	3.06413
10:03:42				147	8.86018	0.3899571	1.2801	1.41636	11.23321	3.05905
10:03:43				148	8.86018	0.3893156	1.2801	1.4652	11.03785	3.05369
10:03:43				149	8.86312	0.3922003	1.3784	1.4652	11.52625	3.07751
10:03:44				150	8.85625	0.3915595	1.3784	1.4652	13.04029	3.07275
10:03:44				151	8.85625	0.3922004	1.3784	1.41636	12.50305	3.0781
10:03:45				152	8.86116	0.3926811	1.3784	1.41636	12.21001	3.08169
10:03:45				153	8.86312	0.3928414	1.3784	1.41636	11.77045	3.08286
10:03:46				154	8.86116	0.3922004	1.3784	1.41636	11.52625	3.07768
10:03:46				155	8.86018	0.3922004	1.3784	1.4652	11.77045	3.07776
10:03:47				156	8.86214	0.3955657	1.3784	1.4652	11.33089	3.10569
10:03:47				157	8.86312	0.3933224	1.2801	1.4652	12.11233	3.08688
10:03:48				158	8.86607	0.3978107	1.3784	1.4652	12.01465	3.1241
10:03:48				159	8.86508	0.3986118	1.3784	1.4652	11.37973	3.13088
10:03:49				160	8.86607	0.3978107	1.3784	1.4652	11.96581	3.1241
10:03:49				161	8.86312	0.3923606	1.3784	1.4652	11.37973	3.07884
10:03:50				162	8.8641	0.3902771	1.2801	1.4652	11.77045	3.06138
10:03:50				163	8.86803	0.3979699	1.3784	1.4652	11.81929	3.12526
10:03:51				164	8.86901	0.3913994	1.3784	1.4652	11.72161	3.07032
10:03:51				165	8.86607	0.3891557	1.3784	1.41636	12.30769	3.05185
10:03:52				166	8.87294	0.3853081	1.3784	1.4652	11.13553	3.01919
10:03:52				167	8.88183	0.3814621	1.3784	1.41636	12.74725	2.98641
10:03:53				168	8.88379	0.3713648	1.3784	1.4652	11.77045	2.90229
10:03:53				169	8.89066	0.3678394	1.3784	1.41636	11.62393	2.87247
10:03:54				170	8.89458	0.3540567	1.3784	1.4652	11.23321	2.75795
10:03:54	10:02:30 start transect	10	270	171	8.89458	0.3591854	1.2801	1.4652	11.03785	2.80041
10:03:55				172	8.89753	0.3609486	1.3784	1.4652	11.96581	2.81478
10:03:55				173	8.90734	0.354538	1.3784	1.4652	11.33089	2.76095
10:03:56				174	8.91524	0.3503726	1.3784	1.4652	11.42857	2.72591
10:03:56				175	8.92211	0.3450836	1.3784	1.4652	11.62393	2.68172
10:03:57				176	8.92015	0.3420402	1.2801	1.4652	11.08669	2.65676
10:03:57				177	8.92113	0.3439629	1.3784	1.4652	11.42857	2.67255
10:03:58				178	8.92309	0.3425207	1.3784	1.4652	11.28205	2.6605
10:03:58				179	8.92603	0.3460451	1.3784	1.4652	11.37973	2.68936
10:03:59				180	8.92603	0.3479684	1.2801	1.4652	11.86813	2.70524
10:03:59				181	8.92799	0.345725	1.3784	1.4652	11.37973	2.68657
10:04:00				182	8.92799	0.3436418	1.3784	1.4652	11.57509	2.66938
10:04:00				183	8.9329	0.3436418	1.3784	1.4652	11.47741	2.66902
10:04:01				184	8.93486	0.3595052	1.2801	1.4652	11.47741	2.79991
10:04:01				185	8.93878	0.3564615	1.3784	1.4652	11.28205	2.77442
10:04:02				186	8.93976	0.3646339	1.2801	1.4652	11.08669	2.84197
10:04:02				187	8.94074	0.3596667	1.3784	1.4652	11.91697	2.80078
10:04:03				188	8.93094	0.345405	1.3784	1.4652	11.33089	2.68371

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:04:03				189	8.93094	0.3394765	1.3784	1.4652	10.98901	2.63483
10:04:04				190	8.93192	0.3377127	1.3784	1.4652	11.72161	2.62023
10:04:04				191	8.94172	0.3248965	1.2801	1.41636	11.52625	2.51415
10:04:05				192	8.94864	0.2992644	1.3784	1.41636	12.01465	2.30389
10:04:05				193	8.96629	0.2883725	1.3784	1.41636	11.57509	2.21406
10:04:06				194	8.99476	0.2729963	1.3784	1.41636	11.37973	2.0876
10:04:06				195	9.00945	0.2584226	1.2801	1.4652	11.57509	1.96906
10:04:07				196	9.02714	0.2641874	1.3784	1.4652	11.08669	2.01456
10:04:07				197	9.04776	0.2505765	1.3784	1.4652	11.33089	1.90386
10:04:08				198	9.06734	0.2419292	1.3784	1.4652	10.69597	1.83348
10:04:08				199	9.09283	0.2428907	1.2801	1.4652	10.84249	1.83988
10:04:09				200	9.11239	0.238888	1.3784	1.4652	11.18437	1.80687
10:04:09				201	9.12126	0.2420903	1.3784	1.4652	11.23321	1.83202
10:04:10				202	9.12028	0.2392081	1.3784	1.4652	10.89133	1.80903
10:04:10				203	9.12126	0.238888	1.3784	1.4652	11.23321	1.80643
10:04:11				204	9.13397	0.233924	1.3784	1.4652	11.08669	1.76617
10:04:11				205	9.13788	0.2385679	1.3784	1.4652	11.91697	1.80304
10:04:12				206	9.13885	0.2312018	1.3784	1.4652	11.77045	1.74423
10:04:12				207	9.14374	0.2288003	1.3784	1.4652	11.37973	1.72487
10:04:13				208	9.1496	0.245292	1.3784	1.4652	11.18437	1.85618
10:04:13				209	9.14374	0.2411293	1.3784	1.4652	11.28205	1.8232
10:04:14				210	9.14569	0.2476937	1.3784	1.41636	11.28205	1.8756
10:04:14				211	9.15455	0.2516968	1.3784	1.41636	10.79365	1.90719
10:04:15				212	9.14569	0.2622662	1.2801	1.41636	10.89133	1.99248
10:04:15				213	9.14863	0.25442	1.3784	1.4652	10.84249	1.92933
10:04:16				214	9.1496	0.2507358	1.3784	1.4652	11.23321	1.89975
10:04:16				215	9.1369	0.2790818	1.3784	1.4652	10.94017	2.12845
10:04:17				216	9.12223	0.2878908	1.2801	1.4652	12.25885	2.20056
10:04:17				217	9.12517	0.2821254	1.3784	1.4652	11.47741	2.15374
10:04:18				218	9.10946	0.2768402	1.3784	1.4652	10.64713	2.11197
10:04:18				219	9.07614	0.3035897	1.3784	1.4652	11.33089	2.33089
10:04:19				220	9.06146	0.2883724	1.3784	1.4652	11.47741	2.20819
10:04:19				221	9.05853	0.3010257	1.3784	1.4652	12.06349	2.31117
10:04:20				222	9.034	0.3237745	1.3784	1.4652	11.18437	2.49849
10:04:20				223	9.01343	0.3191283	1.3784	1.41636	11.33089	2.46188
10:04:21				224	9.01637	0.3183279	1.2801	1.41636	10.94017	2.45514
10:04:21				225	9.01833	0.3212112	1.3784	1.4652	11.13553	2.47859
10:04:22				226	9.00064	0.3240944	1.3784	1.4652	11.08669	2.50343
10:04:22				227	9.00652	0.3224931	1.3784	1.4652	11.86813	2.48991
10:04:23				228	9.01343	0.311919	1.3784	1.4652	11.18437	2.40294
10:04:23				229	9.01539	0.3228126	1.3784	1.4652	11.57509	2.49191
10:04:24				230	8.99476	0.3234533	1.3784	1.4652	11.33089	2.49859
10:04:24				231	8.99084	0.3213716	1.2801	1.4652	11.18437	2.48181
10:04:25				232	8.99084	0.3236139	1.3784	1.4652	11.77045	2.50018
10:04:25				233	8.99182	0.3237746	1.3784	1.4652	11.72161	2.50143

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:04:26				234	8.98888	0.3237746	1.3784	1.41636	11.08669	2.50163
10:04:26				235	8.98203	0.3255366	1.3784	1.4652	11.37973	2.51656
10:04:27				236	8.97217	0.3289013	1.3784	1.4652	11.81929	2.54487
10:04:27				237	8.97021	0.3264974	1.3784	1.4652	11.13553	2.52528
10:04:28				238	8.96923	0.3231337	1.3784	1.4652	11.37973	2.49775
10:04:28				239	8.97217	0.3221722	1.3784	1.4652	11.96581	2.48966
10:04:29				240	8.97315	0.3263379	1.3784	1.41636	10.84249	2.52376
10:04:29				241	8.97021	0.3252165	1.3784	1.4652	11.37973	2.51477
10:04:30				242	8.97119	0.3240944	1.3784	1.51404	11.23321	2.50549
10:04:30				243	8.97707	0.324575	1.3784	1.41636	11.72161	2.50902
10:04:31				244	8.97315	0.3258568	1.3784	1.41636	11.57509	2.51981
10:04:32				247	8.97896	0.319238	1.3784	1.4652	11.67277	2.46515
10:04:33				248	8.97308	0.3203593	1.3784	1.4652	11.77045	2.47474
10:04:33				249	8.9721	0.3182761	1.3784	1.41636	11.52625	2.45775
10:04:34				250	8.97112	0.315233	1.3784	1.4652	11.67277	2.4329
10:04:34				251	8.97308	0.3166753	1.3784	1.4652	12.01465	2.44457
10:04:35				252	8.97014	0.3176362	1.3784	1.41636	12.11233	2.45264
10:04:35				253	8.9721	0.3141113	1.3784	1.4652	11.42857	2.42365
10:04:36				254	8.9819	0.309147	1.3784	1.4652	10.84249	2.3824
10:04:36				255	8.98484	0.3144319	1.3784	1.51404	11.28205	2.42541
10:04:37				256	8.98386	0.3144319	1.3784	1.4652	11.62393	2.42548
10:04:37				257	8.98092	0.3142723	1.3784	1.4652	11.57509	2.42437
10:04:38				258	8.98092	0.3118689	1.3784	1.4652	11.96581	2.40472
10:04:38				259	8.97994	0.3107483	1.3784	1.41636	12.06349	2.39562
10:04:39				260	8.9819	0.3104285	1.3784	1.4652	11.72161	2.39288
10:04:39				261	8.97798	0.3077049	1.3784	1.4652	11.86813	2.37088
10:04:40				262	8.9819	0.306423	1.3784	1.4652	11.81929	2.36016
10:04:40				263	8.98092	0.3062629	1.3784	1.4652	11.62393	2.35891
10:04:41				264	8.98582	0.3073843	1.3784	1.41636	10.89133	2.36775
10:04:41				265	8.98882	0.3062628	1.3784	1.4652	11.33089	2.35839
10:04:42				266	8.98582	0.3049822	1.3784	1.41636	11.72161	2.34814
10:04:42				267	8.98092	0.3033801	1.3784	1.4652	11.62393	2.33538
10:04:43				268	8.98582	0.3008179	1.3784	1.4652	11.18437	2.31417
10:04:43				269	8.98686	0.2995363	1.3784	1.4652	11.42857	2.30365
10:04:44				270	8.97994	0.3008179	1.3784	1.4652	11.42857	2.31455
10:04:44				271	8.97896	0.299377	1.3784	1.4652	11.37973	2.30286
10:04:45				272	8.97896	0.2980952	1.2801	1.4652	11.18437	2.29242
10:04:45				273	8.97798	0.2980953	1.3784	1.41636	11.47741	2.29248
10:04:46				274	8.98092	0.2888063	1.3784	1.4652	11.23321	2.21668
10:04:46				275	8.97994	0.2763153	1.3784	1.4652	10.98901	2.11535
10:04:47				276	9.00743	0.2582225	1.1817	1.51404	11.33089	1.96757
10:04:47				277	9.05155	0.2788787	1.2801	1.4652	11.28205	2.13187
10:04:48				278	9.07608	0.2683093	1.3784	1.4652	10.94017	2.04505
10:04:48				279	9.10151	0.2314867	1.2801	1.4652	11.57509	1.74832
10:04:49				280	9.13482	0.226204	1.2801	1.41636	11.13553	1.70463

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:04:49				281	9.173	0.2337276	1.2801	1.4652	11.42857	1.76269
10:04:50				282	9.15248	0.2708719	1.2801	1.4652	11.67277	2.06134
10:04:50				283	9.05253	0.2990567	1.2801	1.4652	11.67277	2.29554
10:04:51				284	9.00156	0.3101072	1.2801	1.4652	11.52625	2.38894
10:04:51				285	8.98092	0.3177961	1.2801	1.4652	11.52625	2.45321
10:04:52				286	8.96917	0.3248443	1.2801	1.41636	11.72161	2.51179
10:04:52				287	8.96525	0.324203	1.2801	1.4652	11.47741	2.5068
10:04:53				288	8.96034	0.3275676	1.2801	1.4652	11.86813	2.53476
10:04:53				289	8.95348	0.3306113	1.3784	1.4652	10.84249	2.56025
10:04:54				290	8.95054	0.3299704	1.3784	1.4652	11.13553	2.55519
10:04:54				291	8.94754	0.3304499	1.2801	1.4652	10.79365	2.55935
10:04:55				292	8.94754	0.3314109	1.3784	1.41636	11.42857	2.56725
10:04:55				293	8.94362	0.3350964	1.3784	1.4652	11.03785	2.59784
10:04:56				294	8.94166	0.3410226	1.3784	1.41636	12.01465	2.64678
10:04:56				295	8.93578	0.347592	1.3784	1.4652	11.67277	2.70139
10:04:57				296	8.92695	0.3634528	1.3784	1.4652	11.23321	2.8332
10:04:57				297	8.90924	0.3834829	1.4768	1.4652	12.30769	3.00093
10:04:58				298	8.88667	0.38781	1.6736	1.4652	12.25885	3.03886
10:04:58				299	8.86797	0.4012708	1.8703	1.4652	11.72161	3.15282
10:04:59				300	8.85226	0.4083235	1.9687	1.4652	11.03785	3.21323
10:04:59	10:0335 @ 6:00	10	180	301	8.83754	0.4378161	2.0671	1.4652	11.91697	3.46232
10:05:00				302	8.82569	0.4554498	2.3623	1.4652	11.81929	3.61229
10:05:00				303	8.82274	0.5234396	2.4606	1.4652	11.77045	4.19066
10:05:01				304	8.8395	0.5425257	2.559	1.41636	11.47741	4.35201
10:05:01				305	8.85619	0.5972311	2.7558	1.4652	11.08669	4.82049
10:05:02				306	8.89747	0.638472	2.8542	1.4652	11.42857	5.17161
10:05:02				307	8.94956	0.8094656	2.9526	1.4652	10.40293	6.66088
10:05:03				308	9.05547	0.8722783	3.1493	1.4652	9.32845	7.1967
10:05:03				309	9.09173	0.8875425	3.3461	1.4652	7.57021	7.3248
10:05:04				310	9.13482	0.9653265	3.4445	1.41636	6.54457	8.00847
10:05:04				311	9.60218	1.057766	3.5428	1.4652	6.44689	8.7238
10:05:05				312	9.90094	1.1402684	3.7396	1.4652	6.54457	9.38247
10:05:05				313	9.77597	1.0788313	3.838	1.4652	6.49573	8.86853
10:05:06				314	9.68379	1.0933064	3.9364	1.4652	5.95849	9.01999
10:05:06				315	9.71778	1.0912143	3.9364	1.41636	5.86081	8.99289
10:05:07				316	9.7236	1.1524949	3.9364	1.41636	5.81197	9.53781
10:05:07				317	9.64785	1.1531397	3.9364	1.4652	5.71429	9.56362
10:05:08				318	9.57784	1.1171082	3.9364	1.4652	5.32357	9.2593
10:05:08				319	9.56716	1.1513699	3.9364	1.4652	5.27473	9.56917
10:05:09				320	9.58464	1.1624686	3.9364	1.4652	5.90965	9.66416
10:05:09				321	9.54087	1.1623093	3.9364	1.41636	5.56777	9.67448
10:05:10				322	9.37329	1.2892639	4.0348	1.4652	5.71429	10.87242
10:05:10				323	9.04177	1.4006624	4.1331	1.4652	6.15385	12.00386
10:05:11				324	8.78634	1.5344928	4.3299	1.4652	5.81197	13.34788
10:05:11				325	8.55464	1.632606	4.5267	1.4652	5.27473	14.37068

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:05:12				326	8.43109	1.6567774	4.6251	1.41636	4.6398	14.65313
10:05:12				327	8.32011	1.748322	4.7234	1.4652	4.68864	15.58456
10:05:13				328	8.1981	1.7944241	4.9202	1.4652	4.59096	16.08789
10:05:13				329	8.09474	1.841342	5.0186	1.4652	4.24908	16.59512
10:05:14				330	8.00314	1.8469848	5.2153	1.4652	4.20024	16.69397
10:05:14				331	7.94937	1.8774609	5.3137	1.41636	4.05372	17.02034
10:05:15				332	7.90346	1.9530928	5.4121	1.4652	3.9072	17.79235
10:05:15				333	7.83161	1.9782549	5.4121	1.4652	3.95604	18.07959
10:05:16				334	7.74171	1.9561582	5.6089	1.4652	3.51648	17.90538
10:05:16				335	7.7087	1.9576108	5.6089	1.4652	3.36996	17.93683
10:05:17				336	7.72468	1.9551921	5.6089	1.41636	3.61416	17.90447
10:05:17				337	7.76865	1.9526108	5.6089	1.4652	3.76068	17.85619
10:05:18				338	7.75169	2.0082577	5.6089	1.41636	3.46764	18.42097
10:05:18				339	7.72168	2.0495546	5.6089	1.4652	3.51648	18.85099
10:05:19				340	7.62657	2.1257073	5.7073	1.4652	3.4188	19.67081
10:05:19				341	7.46709	2.1326481	5.904	1.41636	3.32112	19.8316
10:05:20				342	7.38266	2.152659	6.0024	1.4652	2.97924	20.08378
10:05:20				343	7.32129	2.1755745	6.1992	1.4652	2.88156	20.35352
10:05:21				344	7.26093	2.2028466	6.3959	1.51404	3.02808	20.66858
10:05:21				345	7.21555	2.2372259	6.5927	1.4652	2.97924	21.04919
10:05:22				346	7.14194	2.2719292	6.7895	1.41636	2.9304	21.45228
10:05:22				347	7.12576	2.3461854	6.9862	1.4652	2.73504	22.23155
10:05:23				348	7.07121	2.4477487	7.183	1.4652	2.78388	23.32534
10:05:23				349	6.91847	2.4621218	7.3798	1.4652	2.58852	23.57977
10:05:24				350	6.82524	2.4659981	7.4781	1.4652	2.24664	23.68455
10:05:24				351	6.78265	2.5532109	7.6749	1.41636	2.53968	24.63594
10:05:25				352	6.64345	2.56145	7.7733	1.4652	1.90476	24.82373
10:05:25				353	6.58749	2.5609658	7.9701	1.41636	1.75824	24.85909
10:05:26				354	6.52131	2.5695257	8.0684	1.4652	1.75824	24.99863
10:05:26				355	6.44482	2.5706571	8.1668	1.4652	1.80708	25.06671
10:05:27				356	6.40098	2.5708203	8.2652	1.41636	1.61172	25.10063
10:05:27				357	6.3948	2.6412519	8.3636	1.4652	1.61172	25.862
10:05:28				358	6.35704	2.6688777	8.5604	1.4652	1.75824	26.18849
10:05:28				359	6.1852	2.6759886	8.6587	1.4652	1.80708	26.39808
10:05:29				360	6.05702	2.6976383	8.8555	1.51404	1.56288	26.73374
10:05:29				361	6.00055	2.7032956	8.9539	1.41636	1.51404	26.84005
10:05:30				362	5.92762	2.706688	9.1506	1.4652	1.51404	26.93495
10:05:30				363	5.87823	2.7288258	9.249	1.4652	1.56288	27.21715
10:05:31				364	5.83805	2.7575876	9.3474	1.4652	1.61172	27.56583
10:05:32				367	5.6588	2.789898	9.6426	1.4652	1.31868	28.07034
10:05:33				368	5.6257	2.8012098	9.7409	1.4652	1.41636	28.22342
10:05:33				369	5.58852	2.821088	9.8393	1.4652	1.41636	28.47558
10:05:34				370	5.52959	2.8223827	10.0361	1.41636	1.36752	28.53986
10:05:34				371	5.51301	2.83418	10.1345	1.4652	1.31868	28.68547
10:05:35				372	5.48609	2.8351528	10.2329	1.4652	1.51404	28.71927

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:05:35				373	5.46124	2.8357983	10.3312	1.4652	1.31868	28.7477
10:05:36				374	5.46124	2.8378983	10.528	1.4652	1.07448	28.77108
10:05:36				375	5.44154	2.8412939	10.528	1.41636	1.17216	28.82594
10:05:37				376	5.40425	2.8409698	10.6264	1.4652	1.02564	28.85431
10:05:37				377	5.39074	2.8411338	10.7248	1.4652	1.07448	28.86773
10:05:38				378	5.38764	2.8417797	10.7248	1.4652	1.31868	28.87764
10:05:38				379	5.36792	2.8417799	10.8232	1.4652	1.221	28.89458
10:05:39				380	5.3773	2.840485	10.8232	1.4652	1.12332	28.87199
10:05:39				381	5.4177	2.8391931	10.8232	1.41636	1.12332	28.82278
10:05:40				382	5.43844	2.839193	10.8232	1.4652	1.07448	28.80497
10:05:40				383	5.42913	2.8401632	10.8232	1.4652	1.56288	28.82381
10:05:41				384	5.40632	2.8411337	10.8232	1.41636	1.12332	28.85428
10:05:41				385	5.39074	2.84097	10.8232	1.4652	1.07448	28.86585
10:05:42				386	5.38143	2.8412946	10.8232	1.4652	1.07448	28.8775
10:05:42				387	5.38868	2.8417797	10.8232	1.4652	1.12332	28.8767
10:05:43				388	5.38143	2.8414553	10.8232	1.4652	1.17216	28.8793
10:05:43				389	5.3804	2.8416191	10.8232	1.41636	1.12332	28.88203
10:05:44				390	5.40322	2.8417795	10.7248	1.4652	1.02564	28.86422
10:05:44				391	5.41149	2.8417795	10.8232	1.4652	1.12332	28.85706
10:05:45				392	5.39798	2.8416189	10.8232	1.4652	1.221	28.86689
10:05:45				393	5.38247	2.8419405	10.8232	1.4652	1.17216	28.88385
10:05:46				394	5.38661	2.841619	10.8232	1.4652	1.12332	28.87668
10:05:46				395	5.38661	2.841619	10.8232	1.4652	1.07448	28.87668
10:05:47				396	5.38661	2.8424257	10.8232	1.4652	1.12332	28.88572
10:05:47				397	5.39074	2.8430717	10.8232	1.4652	1.12332	28.88939
10:05:48				398	5.40005	2.8425863	10.8232	1.41636	1.41636	28.87594
10:05:48				399	5.3835	2.8417798	10.8232	1.4652	1.90476	28.88116
10:05:49				400	5.37937	2.8417798	10.7248	1.4652	1.221	28.88476
10:05:49				401	5.37626	2.842265	10.7248	1.4652	1.41636	28.89288
10:05:50				402	5.38661	2.8390327	10.528	1.4652	1.26984	28.84784
10:05:50				403	5.40425	2.8372533	10.2329	1.4652	1.26984	28.81288
10:05:51				404	5.42287	2.8332116	10.1345	1.41636	1.07448	28.75174
10:05:51				405	5.4343	2.830465	10.0361	1.4652	1.12332	28.71127
10:05:52				406	5.43844	2.8265849	10.0361	1.4652	1.17216	28.66437
10:05:52				407	5.4695	2.7991106	9.6426	1.41636	1.12332	28.33145
10:05:53				408	5.543	2.7907054	9.4458	1.4652	1.31868	28.17613
10:05:53				409	5.58233	2.7630711	9.3474	1.4652	1.31868	27.83646
10:05:54				410	5.59883	2.7362456	9.249	1.41636	1.56288	27.5256
10:05:54				411	5.6794	2.7609698	9.1506	1.4652	1.4652	27.7332
10:05:55				412	5.68358	2.7226711	9.0523	1.41636	1.56288	27.30663
10:05:55				413	5.77639	2.7116813	8.6587	1.4652	1.61172	27.11085
10:05:56				414	5.88247	2.6981079	8.462	1.4652	1.4652	26.87715
10:05:56				415	5.91852	2.6126413	8.2652	1.4652	1.4652	25.91487
10:05:57				416	6.00177	2.6014934	8.1668	1.41636	1.61172	25.7301
10:05:57				417	6.06847	2.6284708	8.1668	1.4652	1.75824	25.97239

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:05:58				418	6.07154	2.5764529	7.9701	1.4652	1.80708	25.40588
10:05:58				419	6.22019	2.5270232	7.7733	1.4652	1.85592	24.76262
10:05:59				420	6.42357	2.511194	7.5765	1.4652	1.90476	24.44618
10:05:59				421	6.52252	2.4540212	7.5765	1.41636	1.9536	23.76724
10:06:00				422	6.57339	2.4734003	7.4781	1.4652	2.24664	23.93763
10:06:00				423	6.64567	2.3942705	7.3798	1.4652	2.24664	23.05047
10:06:01				424	6.77677	2.3214533	7.0846	1.4652	2.63736	22.19866
10:06:01				425	6.91057	2.2773806	6.9862	1.4652	3.02808	21.65328
10:06:02				426	6.96222	2.2333122	6.8878	1.4652	2.73504	21.16346
10:06:02				427	7.00772	2.2323441	6.8878	1.4652	2.63736	21.12553
10:06:03				428	7.03704	2.2326674	6.7895	1.4652	2.97924	21.11096
10:06:03				429	7.07146	2.2102295	6.5927	1.4652	2.88156	20.85825
10:06:04				430	7.12595	2.1928002	6.3959	1.41636	2.78388	20.64591
10:06:04				431	7.12292	2.1877952	6.2976	1.4652	2.83272	20.59621
10:06:05				432	7.14615	2.1881186	6.3959	1.4652	3.02808	20.58567
10:06:05				433	7.1532	2.183922	6.2976	1.4652	2.9304	20.53835
10:06:06				434	7.19662	2.1500314	6.1008	1.4652	2.9304	20.16492
10:06:06				435	7.33661	2.0520898	5.8056	1.41636	2.97924	19.08644
10:06:07				436	7.33962	2.0449911	5.7073	1.4652	3.07692	19.01275
10:06:07				437	7.37789	2.0114338	5.8056	1.4652	3.1746	18.65187
10:06:08				438	7.43313	2.0075624	5.7073	1.4652	2.97924	18.58315
10:06:08				439	7.48237	2.0032063	5.7073	1.4652	3.02808	18.5129
10:06:09				440	7.53158	2.0003033	5.7073	1.4652	3.12576	18.4575
10:06:09				441	7.5436	1.9690103	5.7073	1.4652	3.07692	18.13646
10:06:10				442	7.57269	1.9682027	5.7073	1.4652	3.1746	18.11321
10:06:10				443	7.59176	2.039018	5.7073	1.4652	3.46764	18.81516
10:06:11				444	7.56468	2.0117557	5.5105	1.4652	3.27228	18.55525
10:06:11				445	7.55361	1.9814292	5.3137	1.41636	3.32112	18.25613
10:06:12				446	7.61476	1.9564274	5.117	1.51404	3.56532	17.97349
10:06:12				447	7.66487	1.9377168	5.117	1.4652	3.80952	17.76059
10:06:13				448	7.7019	1.8308021	5.117	1.4652	3.76068	16.67775
10:06:13				449	7.73191	1.8817549	5.117	1.4652	3.71184	17.16921
10:06:14				450	7.75893	1.8432161	5.0186	1.41636	3.9072	16.77355
10:06:14				451	7.82189	1.7846906	4.7234	1.4652	3.9072	16.16541
10:06:15				452	8.07208	1.5582598	4.6251	1.4652	4.1514	13.84959
10:06:15				453	8.12284	1.5933826	4.4283	1.41636	4.44444	14.16844
10:06:16				454	8.17945	1.4856122	4.3299	1.4652	5.32357	13.11029
10:06:16				455	8.34812	1.3384343	4.1331	1.4652	5.47009	11.65287
10:06:17				456	8.52826	1.3315111	4.0348	1.4652	5.56777	11.52871
10:06:17				457	8.70786	1.1020543	3.9364	1.51404	5.76313	9.34942
10:06:18				458	9.20755	1.0795368	3.6412	1.41636	5.76313	9.01618
10:06:18				459	9.28087	1.0177886	3.5428	1.4652	5.90965	8.44394
10:06:19				460	9.38041	0.9079998	3.5428	1.4652	6.69109	7.44636
10:06:19				461	9.42824	0.9792034	3.4445	1.4652	6.44689	8.06627
10:06:20				462	9.38041	0.9332314	3.2477	1.4652	6.64225	7.66937

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:20				463	9.23397	0.9009297	3.0509	1.4652	6.93529	7.41425
10:06:21				464	9.17623	0.8363374	3.0509	1.4652	7.17949	6.85517
10:06:21				465	9.15571	0.8408352	2.9526	1.4652	7.13065	6.89877
10:06:22				466	9.12144	0.7699975	2.7558	1.4652	6.54457	6.28241
10:06:22				467	9.06752	0.765502	2.4606	1.41636	6.98413	6.25249
10:06:23				468	9.05284	0.7438229	2.3623	1.4652	7.57021	6.06513
10:06:23				469	9.04501	0.7320992	2.2639	1.4652	8.49817	5.96393
10:06:24				470	9.03614	0.6897134	2.1655	1.4652	8.69353	5.59582
10:06:24				471	9.03222	0.7282468	2.1655	1.4652	8.59585	5.9324
10:06:25				472	9.03222	0.7030377	2.1655	1.41636	10.74481	5.71243
10:06:25				473	9.02635	0.6913191	2.1655	1.41636	10.64713	5.61132
10:06:26				474	9.01851	0.6688444	2.0671	1.4652	10.45177	5.41724
10:06:26				475	8.98711	0.6569662	1.8703	1.4652	10.54945	5.31892
10:06:27				476	8.95765	0.5786545	1.772	1.41636	10.40293	4.64712
10:06:27				477	8.94981	0.5943782	1.772	1.4652	10.45177	4.78336
10:06:28				478	8.93804	0.5886018	1.6736	1.4652	10.35409	4.73522
10:06:28				479	8.93412	0.5515414	1.5752	1.4652	11.18437	4.41767
10:06:29				480	8.91543	0.5255548	1.4768	1.4652	11.03785	4.19788
10:06:29				481	8.90072	0.5116021	1.2801	1.41636	10.79365	4.08069
10:06:30				482	8.90072	0.4541942	1.2801	1.4652	11.23321	3.59417
10:06:30				483	8.89287	0.4554771	1.2801	1.4652	11.33089	3.60578
10:06:31				484	8.89287	0.431431	1.2801	1.4652	11.13553	3.40333
10:06:32				487	8.90016	0.4578776	1.3784	1.4652	10.40293	3.6253
10:06:33				488	8.89624	0.4545108	1.2801	1.4652	11.67277	3.59729
10:06:33				489	8.89232	0.4532286	1.2801	1.4652	12.55189	3.58687
10:06:34				490	8.88545	0.4405633	1.3784	1.41636	11.13553	3.48083
10:06:34				491	8.89232	0.4258166	1.2801	1.4652	11.37973	3.35624
10:06:35				492	8.90997	0.4339906	1.2801	1.51404	11.37973	3.4232
10:06:35				493	8.92769	0.4323889	1.2801	1.4652	10.84249	3.40805
10:06:36				494	8.93063	0.4229317	1.3784	1.41636	11.13553	3.32845
10:06:36				495	8.93357	0.4266172	1.2801	1.4652	10.98901	3.35907
10:06:37				496	8.93455	0.4253354	1.2801	1.4652	11.18437	3.34824
10:06:37				497	8.93553	0.414435	1.2801	1.4652	10.54945	3.25687
10:06:38				498	8.93749	0.4149161	1.2801	1.4652	10.79365	3.26072
10:06:38				499	8.93455	0.4161993	1.2801	1.41636	10.89133	3.27172
10:06:39				500	8.93553	0.4219696	1.2801	1.4652	11.13553	3.31994
10:06:39				501	8.93063	0.4261374	1.2801	1.4652	12.11233	3.35533
10:06:40				502	8.92376	0.4266172	1.2801	1.4652	10.64713	3.36
10:06:40				503	8.91886	0.4133139	1.2801	1.4652	10.98901	3.24901
10:06:41				504	8.9169	0.4160383	1.2801	1.4652	10.84249	3.27199
10:06:41				505	8.90703	0.4238928	1.2801	1.4652	10.74481	3.33872
10:06:42				506	8.90605	0.4222897	1.3784	1.4652	10.98901	3.32536
10:06:42				507	8.90507	0.4283804	1.2801	1.4652	11.37973	3.37655
10:06:43				508	8.90311	0.432869	1.2801	1.41636	11.03785	3.41443
10:06:43				509	8.90213	0.4237326	1.2801	1.4652	11.42857	3.33783

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:44				510	8.90016	0.4192449	1.2801	1.51404	10.89133	3.30039
10:06:44				511	8.89918	0.4322279	1.2801	1.4652	11.03785	3.40942
10:06:45				512	8.89624	0.4344727	1.2801	1.41636	11.18437	3.42857
10:06:45				513	8.89624	0.4396021	1.1817	1.51404	11.57509	3.47171
10:06:46				514	8.89428	0.4317465	1.2801	1.4652	11.57509	3.40585
10:06:46				515	8.89428	0.4293431	1.3784	1.4652	12.30769	3.38565
10:06:47				516	8.8982	0.4266173	1.2801	1.4652	10.79365	3.3624
10:06:47				517	8.89918	0.4319075	1.2801	1.4652	10.94017	3.40673
10:06:48				518	8.89624	0.4306248	1.3784	1.4652	11.18437	3.39623
10:06:48				519	8.89918	0.4487403	1.2801	1.4652	10.69597	3.54835
10:06:49				520	8.89918	0.440403	1.2801	1.4652	10.98901	3.47815
10:06:49	10:05:25 continue transe	10	180	521	8.89722	0.4218096	1.2801	1.41636	10.64713	3.32216
10:06:50				522	8.89526	0.421328	1.2801	1.4652	10.64713	3.31831
10:06:50				523	8.89526	0.3972862	1.2801	1.4652	12.06349	3.11717
10:06:51				524	8.89428	0.4145959	1.2801	1.4652	11.08669	3.26198
10:06:51				525	8.90115	0.407384	1.2801	1.4652	11.08669	3.20101
10:06:52				526	8.9139	0.4299846	1.2801	1.4652	11.47741	3.38918
10:06:52				527	8.90997	0.4226099	1.2801	1.4652	11.72161	3.32769
10:06:53				528	8.90409	0.4096266	1.2801	1.4652	11.72161	3.2195
10:06:53				529	8.90605	0.4032167	1.2801	1.4652	11.33089	3.16574
10:06:54				530	8.90016	0.3972862	1.2801	1.41636	10.98901	3.11674
10:06:54				531	8.91592	0.4032166	1.2801	1.4652	11.08669	3.16487
10:06:55				532	8.91292	0.4049798	1.2801	1.4652	11.23321	3.17986
10:06:55				533	8.90605	0.4001713	1.2801	1.4652	11.57509	3.14031
10:06:56				534	8.90016	0.3990491	1.2801	1.4652	11.37973	3.13146
10:06:56				535	8.89722	0.4020939	1.2801	1.4652	10.74481	3.15715
10:06:57				536	8.88937	0.4020939	1.2801	1.4652	11.18437	3.15784
10:06:57				537	8.88839	0.4046584	1.2801	1.4652	11.13553	3.17936
10:06:58				538	8.88054	0.4048199	1.2801	1.4652	11.33089	3.18141
10:06:58				539	8.87956	0.4052998	1.2801	1.4652	11.47741	3.18551
10:06:59				540	8.87361	0.406902	1.2801	1.4652	11.03785	3.19945
10:06:59				541	8.87165	0.4075443	1.2801	1.4652	11.57509	3.205
10:07:00				542	8.8687	0.4088264	1.3784	1.4652	11.08669	3.21599
10:07:00				543	8.86674	0.4088264	1.2801	1.41636	12.30769	3.21617
10:07:01				544	8.86772	0.4099475	1.2801	1.4652	12.16117	3.22547
10:07:01				545	8.86674	0.4093075	1.2801	1.51404	11.33089	3.2202
10:07:02				546	8.86674	0.4096267	1.3784	1.4652	11.33089	3.22287
10:07:02				547	8.86282	0.4099475	1.2801	1.41636	11.47741	3.22591
10:07:03				548	8.86085	0.4145959	1.2801	1.4652	11.28205	3.26504
10:07:03				549	8.86282	0.4147569	1.3784	1.4652	11.42857	3.2662
10:07:04				550	8.86576	0.4189238	1.3784	1.4652	11.28205	3.30087
10:07:04				551	8.86576	0.421488	1.2801	1.4652	11.72161	3.32239
10:07:05				552	8.86085	0.4373585	1.2801	1.4652	11.77045	3.45625
10:07:05				553	8.85693	0.4320686	1.3784	1.4652	11.47741	3.41212
10:07:06				554	8.85104	0.4320686	1.2801	1.4652	11.18437	3.41268

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:07:06				555	8.85005	0.4280608	1.2801	1.4652	11.28205	3.37908
10:07:07				556	8.85104	0.4344728	1.2801	1.41636	11.33089	3.43291
10:07:07				557	8.85202	0.4295039	1.2801	1.4652	11.57509	3.39102
10:07:08				558	8.84907	0.4232521	1.2801	1.4652	11.57509	3.33876
10:07:08				559	8.85104	0.414596	1.3784	1.4652	11.47741	3.26593
10:07:09				560	8.85202	0.4056199	1.2801	1.4652	11.77045	3.19065
10:07:09				561	8.85496	0.4001713	1.2801	1.4652	11.77045	3.14481
10:07:10				562	8.86085	0.4077045	1.2801	1.4652	11.42857	3.20731
10:07:10				563	8.86085	0.4078647	1.3784	1.4652	10.89133	3.20865
10:07:11				564	8.86183	0.4056198	1.2801	1.41636	10.79365	3.18977
10:07:11				565	8.86085	0.4166795	1.2801	1.51404	11.77045	3.28251
10:07:12				566	8.85987	0.4134748	1.2801	1.4652	11.42857	3.25573
10:07:12				567	8.85791	0.4102685	1.2801	1.4652	11.96581	3.22905
10:07:13				568	8.85791	0.4033765	1.2801	1.51404	11.42857	3.17135
10:07:13				569	8.85889	0.3976077	1.2801	1.4652	11.57509	3.12304
10:07:14				570	8.85889	0.3969663	1.2801	1.4652	11.03785	3.11768
10:07:14				571	8.86282	0.3972862	1.2801	1.4652	11.42857	3.12001
10:07:15				572	8.86478	0.4000119	1.3784	1.4652	11.23321	3.14261
10:07:15				573	8.86674	0.3984087	1.2801	1.4652	11.37973	3.12904
10:07:16				574	8.86478	0.3964858	1.2801	1.4652	10.98901	3.11315
10:07:16				575	8.8638	0.3960039	1.2801	1.51404	10.74481	3.10921
10:07:17				576	8.8638	0.3934407	1.3784	1.4652	11.37973	3.0878
10:07:17				577	8.8687	0.3927994	1.2801	1.41636	11.62393	3.08203
10:07:18				578	8.8687	0.3929597	1.2801	1.4652	11.72161	3.08337
10:07:18				579	8.86772	0.3932804	1.2801	1.4652	11.42857	3.08613
10:07:19				580	8.86969	0.3910371	1.2801	1.4652	11.52625	3.06724
10:07:19				581	8.87165	0.3908754	1.3784	1.41636	11.28205	3.06572
10:07:20				582	8.87263	0.3915175	1.2801	1.4652	10.94017	3.07099
10:07:20				583	8.87067	0.3867089	1.3784	1.4652	11.03785	3.03106
10:07:21				584	8.87067	0.3762929	1.2801	1.4652	11.91697	2.94433
10:07:21				585	8.87956	0.3737293	1.2801	1.41636	10.94017	2.92229
10:07:22				586	8.8825	0.3761327	1.2801	1.4652	10.98901	2.94203
10:07:22				587	8.8776	0.3692431	1.2801	1.4652	10.98901	2.88518
10:07:23				588	8.88937	0.3681213	1.2801	1.4652	11.52625	2.87492
10:07:23				589	8.89722	0.3700436	1.2801	1.51404	10.74481	2.89024
10:07:24				590	8.89526	0.3716458	1.2801	1.41636	11.23321	2.9037
10:07:24				591	8.89428	0.3633139	1.2801	1.4652	11.77045	2.83465
10:07:25				592	8.89624	0.3620316	1.2801	1.4652	10.98901	2.82386
10:07:25				593	8.8982	0.3636346	1.2801	1.4652	10.79365	2.837
10:07:26				594	8.89918	0.3641158	1.2801	1.4652	11.13553	2.84091
10:07:26				595	8.90703	0.3642747	1.3784	1.4652	11.57509	2.8416
10:07:27				596	8.90997	0.366359	1.2801	1.51404	11.33089	2.85864
10:07:27				597	8.90899	0.3694025	1.2801	1.4652	11.33089	2.88397
10:07:28				598	8.90801	0.3708444	1.3784	1.41636	11.37973	2.89601
10:07:28				599	8.91193	0.361551	1.3784	1.4652	11.28205	2.81864

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:07:29				600	8.9169	0.3610705	1.2801	1.4652	10.84249	2.81427
10:07:29				601	8.91886	0.3602701	1.3784	1.4652	11.13553	2.80749
10:07:30				602	8.91292	0.3636346	1.2801	1.41636	11.37973	2.83583
10:07:30				603	8.92082	0.3641158	1.3784	1.4652	11.52625	2.83918
10:07:31				604	8.92573	0.3618713	1.2801	1.51404	11.08669	2.82021
10:07:32				607	8.93461	0.3645513	1.2801	1.4652	10.59829	2.8417
10:07:33				608	8.93167	0.3634299	1.2801	1.4652	10.79365	2.83264
10:07:33				609	8.93363	0.3610263	1.2801	1.4652	10.84249	2.81259
10:07:34				610	8.93363	0.3640715	1.2801	1.4652	11.57509	2.8378
10:07:34				611	8.93559	0.3632695	1.2801	1.4652	11.57509	2.83101
10:07:35				612	8.93363	0.3653524	1.2801	1.4652	11.57509	2.84841
10:07:35				613	8.92775	0.3672758	1.2801	1.4652	10.94017	2.86482
10:07:36				614	8.92873	0.3671151	1.2801	1.41636	11.42857	2.86341
10:07:36				615	8.93559	0.3502939	1.2801	1.4652	11.18437	2.72371
10:07:37				616	8.94246	0.357663	1.2801	1.4652	11.47741	2.78408
10:07:37				617	8.94834	0.3493327	1.3784	1.4652	10.98901	2.7148
10:07:38				618	8.9503	0.3373178	1.2801	1.4652	11.23321	2.61564
10:07:38				619	8.95226	0.3344356	1.2801	1.4652	11.13553	2.59178
10:07:39				620	8.96506	0.3337945	1.2801	1.4652	11.18437	2.58558
10:07:39				621	8.96996	0.3377997	1.2801	1.4652	11.33089	2.61816
10:07:40				622	8.96604	0.3387595	1.2801	1.4652	11.37973	2.62635
10:07:40				623	8.968	0.3411625	1.2801	1.4652	10.98901	2.64599
10:07:41				624	8.97094	0.3406825	1.2801	1.4652	10.98901	2.64182
10:07:41				625	8.97486	0.3432453	1.2801	1.4652	11.03785	2.66263
10:07:42				626	8.9778	0.3406825	1.2801	1.51404	11.67277	2.64131
10:07:42				627	8.97388	0.3381196	1.2801	1.4652	11.52625	2.62051
10:07:43				628	8.96996	0.3392404	1.2801	1.4652	11.18437	2.63002
10:07:43				629	8.9729	0.3374784	1.2801	1.4652	11.33089	2.61531
10:07:44				630	8.97094	0.3369981	1.2801	1.4652	11.52625	2.6115
10:07:44				631	8.9729	0.3379589	1.2801	1.41636	10.84249	2.61926
10:07:45				632	8.97094	0.3390811	1.2801	1.4652	10.25641	2.62864
10:07:45				633	8.97388	0.3403621	1.2801	1.4652	10.25641	2.63896
10:07:46				634	8.97094	0.3392404	1.2801	1.51404	10.84249	2.62995
10:07:46				635	8.96898	0.3403621	1.2801	1.4652	11.03785	2.63932
10:07:47				636	8.968	0.3475708	1.2801	1.4652	11.23321	2.69879
10:07:47				637	8.96702	0.3490119	1.2801	1.4652	11.62393	2.71074
10:07:48				638	8.96408	0.349493	1.2801	1.4652	11.18437	2.71494
10:07:48				639	8.9582	0.3464498	1.3784	1.4652	11.03785	2.69028
10:07:49				640	8.95722	0.3466099	1.2801	1.4652	11.13553	2.69167
10:07:49	10:0625 end transect	10	90	641	8.9582	0.3488515	1.3784	1.4652	10.74481	2.71009
10:07:50				642	8.95526	0.3506134	1.2801	1.51404	10.89133	2.72485
10:07:50				643	8.95526	0.3538184	1.3784	1.41636	11.86813	2.75131
10:07:51				644	8.95428	0.3534982	1.2801	1.4652	11.72161	2.74874
10:07:51				645	8.95428	0.3472504	1.2801	1.4652	11.33089	2.69718
10:07:52				646	8.9631	0.3493326	1.2801	1.51404	11.08669	2.71369

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:07:52				647	8.9582	0.3377997	1.1817	1.41636	11.08669	2.61903
10:07:53				648	8.96408	0.3371587	1.1817	1.4652	11.28205	2.61333
10:07:53				649	8.97878	0.3309116	1.1817	1.51404	11.42857	2.56091
10:07:54				650	8.99348	0.332193	1.0833	1.4652	11.47741	2.57039
10:07:54				651	8.99844	0.3285088	1.0833	1.41636	11.23321	2.5398
10:07:55				652	9.00137	0.3366784	1.0833	1.4652	11.52625	2.60666
10:07:55				653	8.99941	0.3371587	1.1817	1.4652	11.37973	2.61075
10:07:56				654	8.99746	0.3286685	1.1817	1.4652	12.01465	2.54117
10:07:56				655	9.00333	0.3246642	0.9849	1.41636	11.47741	2.50793
10:07:57				656	9.00921	0.3232228	0.6898	1.4652	13.13797	2.49572
10:07:57				657	9.01411	0.3259461	0.5914	1.4652	10.79365	2.5177
10:07:58				658	9.01998	0.3262664	0.5914	1.4652	4.884	2.51991
10:07:58				659	9.02488	0.3267476	0.493	1.4652	3.51648	2.52351
10:07:59				660	9.03271	0.3299509	0.493	1.4652	3.27228	2.54921
10:07:59				661	9.04158	0.3326732	0.493	1.51404	3.56532	2.5709
10:08:00				662	9.04843	0.3339546	0.5914	1.4652	3.12576	2.58091
10:08:00				663	9.06018	0.3345957	0.5914	1.4652	2.6862	2.58532
10:08:01				664	9.07094	0.3347561	0.5914	1.41636	2.6862	2.58586
10:08:01	10:06:45 switch off	10	90	665	9.08275	0.3347561	0.5914	1.4652	2.53968	2.58501
	10:07:45 start dye									
10:17:04	10:15:37 switch on	10	90	7	8.90679	0.4290327	1.1817	0	0	3.38187
10:17:05				8	8.89599	0.4293526	1.1817	0	0	3.38558
10:17:05				9	8.86846	0.4298334	1.1817	0	0	3.39223
10:17:06				10	8.84883	0.4336811	1.1817	0	0	3.42647
10:17:06				11	8.85766	0.4370467	1.2801	0	0	3.45394
10:17:07				12	8.87533	0.434642	1.2801	0	0	3.432
10:17:07				13	8.86355	0.4344824	1.2801	0	0	3.43179
10:17:08				14	8.85275	0.434963	1.2801	0	0	3.43687
10:17:08				15	8.84981	0.436086	1.2801	0	0	3.44661
10:17:09				16	8.85177	0.4364057	1.2801	0	0	3.44911
10:17:09				17	8.84588	0.436086	1.2801	0	0	3.44699
10:17:10				18	8.83502	0.4364057	1.2801	0	0	3.45073
10:17:10				19	8.83306	0.4368869	1.2801	0	0	3.45498
10:17:11				20	8.836	0.4370468	1.2801	0	0	3.45604
10:17:11				21	8.84195	0.436727	1.2801	0	0	3.45277
10:17:12				22	8.85766	0.4364057	1.3784	0	0	3.44854
10:17:12				23	8.85668	0.4362458	1.2801	0	0	3.44729
10:17:13				24	8.84294	0.4354438	1.2801	0	0	3.44187
10:17:13				25	8.84785	0.435284	1.2801	0	0	3.44005
10:17:14				26	8.8449	0.4354438	1.2801	0	0	3.44168
10:17:14				27	8.82913	0.4357649	1.2801	0	0	3.4459
10:17:15				28	8.81636	0.4357649	1.2801	0	0	3.44714
10:17:15				29	8.82225	0.4356051	1.2801	0	0	3.44522
10:17:16				30	8.83011	0.4362459	1.2801	0	0	3.44986
10:17:16				31	8.83698	0.4364057	1.2801	0	0	3.45054

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:17:17				32	8.83404	0.4364057	1.2801	0	0	3.45083
10:17:17				33	8.8252	0.4364057	1.2801	0	0	3.45168
10:17:18				34	8.82422	0.4364057	1.2801	0	0	3.45178
10:17:18				35	8.82716	0.4365656	1.2801	0	0	3.45284
10:17:19				36	8.83011	0.4365655	1.2801	0	0	3.45255
10:17:19				37	8.83698	0.4365655	1.2801	0	0	3.45189
10:17:20				38	8.84392	0.4365655	1.2801	0	0	3.45122
10:17:20				39	8.84588	0.436727	1.2801	0	0	3.45239
10:17:21				40	8.84686	0.4368869	1.2801	0	0	3.45364
10:17:21				41	8.84588	0.4370467	1.2801	0	0	3.45508
10:17:22				42	8.84294	0.4368869	1.2801	0	0	3.45402
10:17:22				43	8.84097	0.4368869	1.3784	0	0	3.4542
10:17:23				44	8.84097	0.4370467	1.2801	0	0	3.45555
10:17:23				45	8.84588	0.4370467	1.2801	0	0	3.45508
10:17:24				46	8.84785	0.4370467	1.2801	0	0	3.45489
10:17:24				47	8.84294	0.4368869	1.2801	0	0	3.45402
10:17:25				48	8.83999	0.4368869	1.2801	0	0	3.4543
10:17:25				49	8.84097	0.4370467	1.2801	0	0	3.45555
10:17:26				50	8.84981	0.4370467	1.2801	0	0	3.4547
10:17:26				51	8.85472	0.4368868	1.2801	0	0	3.45288
10:17:27				52	8.8557	0.4370467	1.3784	0	0	3.45412
10:17:27				53	8.85472	0.4368868	1.2801	0	0	3.45288
10:17:28				54	8.85374	0.4368868	1.2801	0	0	3.45297
10:17:28				55	8.85275	0.4370467	1.2801	0	0	3.45441
10:17:29				56	8.85472	0.4370467	1.2801	0	0	3.45422
10:17:29				57	8.85668	0.4370467	1.2801	0	0	3.45403
10:17:30				58	8.8557	0.4370467	1.2801	0	0	3.45413
10:17:30				59	8.85963	0.4370467	1.2801	0	0	3.45375
10:17:31				60	8.86551	0.4370467	1.2801	0	0	3.45318
10:17:31				61	8.86453	0.4370467	1.3784	0	0	3.45327
10:17:32				62	8.85864	0.4370467	1.2801	0	0	3.45384
10:17:32				63	8.86061	0.4370467	1.2801	0	0	3.45365
10:17:33				64	8.85668	0.4368868	1.2801	0	0	3.45269
10:17:33				65	8.8665	0.4370467	1.3784	0	0	3.45308
10:17:34				66	8.87042	0.4370467	1.2801	0	0	3.4527
10:17:34				67	8.86257	0.4370467	1.2801	0	0	3.45346
10:17:35				68	8.85766	0.4370467	1.2801	0	0	3.45394
10:17:35				69	8.85963	0.4368868	1.2801	0	0	3.4524
10:17:36				70	8.87042	0.4370467	1.2801	0	0	3.4527
10:17:36				71	8.87631	0.4370467	1.2801	0	0	3.45213
10:17:37				72	8.86944	0.4368868	1.2801	0	0	3.45145
10:17:37				73	8.86257	0.4368868	1.2801	0	0	3.45212
10:17:38				74	8.8665	0.4368868	1.2801	0	0	3.45174
10:17:38				75	8.87337	0.4368868	1.2801	0	0	3.45107
10:17:39				76	8.8714	0.4368868	1.2801	0	0	3.45126

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:17:39				77	8.86748	0.4368868	1.2801	0	0	3.45164
10:17:40				78	8.86061	0.4368868	1.2801	0	0	3.45231
10:17:40				79	8.86159	0.4368868	1.2801	0	0	3.45221
10:17:41				80	8.85864	0.4370467	1.2801	0	0	3.45384
10:17:41				81	8.85864	0.4368868	1.2801	0	0	3.4525
10:17:42				82	8.86257	0.4368868	1.4768	0	0	3.45211
10:17:42				83	8.86846	0.4367269	1.2801	0	0	3.4502
10:17:43				84	8.86846	0.4367269	1.2801	0	0	3.4502
10:17:43				85	8.87238	0.4367269	1.2801	0	0	3.44982
10:17:44				86	8.87533	0.4367269	1.2801	0	0	3.44954
10:17:44				87	8.88226	0.4367269	1.2801	0	0	3.44887
10:17:45				88	8.88815	0.4367269	1.2801	0	0	3.4483
10:17:45				89	8.89207	0.4367269	1.2801	0	0	3.44792
10:17:46				90	8.89305	0.4365655	1.2801	0	0	3.44647
10:17:46				91	8.89109	0.4365655	1.2801	0	0	3.44666
10:17:47				92	8.88618	0.4367269	1.2801	0	0	3.44849
10:17:47				93	8.87631	0.4365655	1.2801	0	0	3.44808
10:17:48				94	8.86748	0.436727	1.2801	0	0	3.4503
10:17:48				95	8.86748	0.4362458	1.2801	0	0	3.44625
10:17:49				96	8.86748	0.4509943	1.2801	0.58608	0.29304	3.57052
10:17:49				97	8.86257	0.4516361	1.2801	0.39072	0.09768	3.57642
10:17:50				98	8.8665	0.4495504	1.2801	1.4652	2.14896	3.55843
10:17:50				99	8.86748	0.4442606	1.3784	1.36752	11.03785	3.51373
10:17:51				100	8.86944	0.4389714	1.2801	1.4652	11.47741	3.469
10:17:51				101	8.86846	0.4384896	1.2801	1.4652	12.16117	3.46504
10:17:52				102	8.86944	0.4333604	1.2801	1.4652	12.60073	3.42179
10:17:52				103	8.87533	0.4394517	1.2801	1.4652	11.72161	3.47247
10:17:53				104	8.87833	0.4400923	1.3784	1.41636	11.96581	3.47756
10:17:53				105	8.87833	0.4396118	1.2801	1.4652	11.23321	3.47352
10:17:54				106	8.8803	0.437848	1.2801	1.41636	11.62393	3.45849
10:17:54				107	8.8803	0.4396118	1.2801	1.41636	11.57509	3.47333
10:17:55				108	8.87932	0.4402525	1.2801	1.4652	11.42857	3.47882
10:17:55				109	8.88128	0.4397719	1.2801	1.4652	11.47741	3.47458
10:17:56				110	8.88128	0.4394516	1.2801	1.4652	12.94261	3.47189
10:17:56				111	8.88128	0.4413758	1.2801	1.51404	11.86813	3.48809
10:17:57				112	8.87631	0.4426572	1.2801	1.4652	12.55189	3.49936
10:17:57				113	8.87042	0.4402525	1.2801	1.4652	11.91697	3.47969
10:17:58				114	8.87435	0.4404127	1.2801	1.4652	11.86813	3.48065
10:17:58				115	8.87337	0.4439395	1.2801	1.41636	11.57509	3.51045
10:17:59				116	8.87337	0.4413758	1.3784	1.4652	11.96581	3.48885
10:17:59				117	8.8714	0.4407347	1.2801	1.51404	12.06349	3.48365
10:18:00				118	8.86944	0.4447424	1.2801	1.4652	12.55189	3.51761
10:18:00				119	8.86846	0.4524362	1.2801	1.4652	11.81929	3.58258
10:18:01				120	8.86846	0.4506735	1.2801	1.51404	11.96581	3.56771
10:18:01				121	8.86748	0.4505123	1.2801	1.4652	11.28205	3.56645

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:02				122	8.85766	0.448589	1.2801	1.4652	12.01465	3.5512
10:18:02				123	8.85275	0.4490704	1.2801	1.4652	11.86813	3.55575
10:18:03				124	8.85275	0.4511539	1.2801	1.4652	11.62393	3.57334
10:18:04				127	8.84625	0.4530269	1.2801	1.41636	11.33089	3.5898
10:18:05				128	8.8433	0.4520651	1.2801	1.41636	11.72161	3.58198
10:18:05				129	8.84625	0.4527057	1.2801	1.4652	11.52625	3.58709
10:18:06				130	8.85018	0.4552719	1.2801	1.4652	11.62393	3.60837
10:18:06				131	8.85509	0.4559121	1.2801	1.4652	10.79365	3.61328
10:18:07				132	8.85509	0.4560721	1.2801	1.4652	11.77045	3.61463
10:18:07				133	8.85214	0.4552719	1.2801	1.4652	11.72161	3.60817
10:18:08				134	8.85214	0.4600804	1.2801	1.4652	11.67277	3.6488
10:18:08				135	8.8541	0.4600804	1.2801	1.41636	11.52625	3.6486
10:18:09				136	8.85312	0.4605618	1.2801	1.4652	11.33089	3.65277
10:18:09				137	8.85312	0.4613629	1.2801	1.4652	11.37973	3.65955
10:18:10				138	8.85214	0.4616841	1.2801	1.4652	11.81929	3.66236
10:18:10				139	8.8492	0.4620037	1.2801	1.41636	12.55189	3.66537
10:18:11				140	8.84527	0.4628054	1.2801	1.4652	12.11233	3.67255
10:18:11				141	8.84625	0.4652112	1.2801	1.4652	11.81929	3.69281
10:18:12				142	8.8492	0.4693792	1.2801	1.4652	12.60073	3.72778
10:18:12				143	8.8492	0.4677749	1.2801	1.41636	11.72161	3.7142
10:18:13				144	8.8492	0.4682569	1.2801	1.4652	10.84249	3.71828
10:18:13				145	8.84723	0.4684165	1.2801	1.4652	11.67277	3.71984
10:18:14				146	8.84723	0.4672948	1.2801	1.4652	11.81929	3.71034
10:18:14				147	8.84723	0.4671337	1.2801	1.4652	11.72161	3.70898
10:18:15				148	8.84821	0.4660128	1.2801	1.4652	11.57509	3.69939
10:18:15				149	8.84821	0.4648894	1.2801	1.4652	11.72161	3.68988
10:18:16				150	8.85116	0.4648894	1.3784	1.4652	11.81929	3.68957
10:18:16				151	8.85214	0.4644083	1.2801	1.4652	11.86813	3.6854
10:18:17				152	8.84625	0.4629661	1.2801	1.4652	11.57509	3.67381
10:18:17				153	8.84527	0.4616841	1.3784	1.4652	11.57509	3.66306
10:18:18				154	8.84821	0.4636075	1.2801	1.4652	11.23321	3.67903
10:18:18				155	8.8492	0.4668131	1.2801	1.4652	11.23321	3.70606
10:18:19				156	8.84625	0.467775	1.2801	1.41636	11.47741	3.71451
10:18:19				157	8.8492	0.4677749	1.2801	1.4652	11.52625	3.7142
10:18:20				158	8.84232	0.4668131	1.2801	1.4652	11.96581	3.70677
10:18:20				159	8.84036	0.4690583	1.2801	1.4652	11.62393	3.72599
10:18:21				160	8.8433	0.4719442	1.2801	1.4652	12.55189	3.75013
10:18:21				161	8.8492	0.4733874	1.2801	1.4652	12.25885	3.76174
10:18:22				162	8.8541	0.4722641	1.2801	1.4652	11.47741	3.7517
10:18:22	10:16:58 start transect	10	90	163	8.85018	0.4714629	1.2801	1.4652	11.42857	3.74533
10:18:23				164	8.84625	0.4685777	1.2801	1.4652	11.42857	3.72131
10:18:23				165	8.84723	0.467775	1.2801	1.4652	11.28205	3.71441
10:18:24				166	8.85018	0.4666537	1.2801	1.4652	11.72161	3.70461
10:18:24				167	8.85607	0.4644083	1.2801	1.41636	12.06349	3.685
10:18:25				168	8.85901	0.4650503	1.3784	1.4652	11.13553	3.69012

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:25				169	8.86588	0.4658517	1.2801	1.4652	12.35653	3.69619
10:18:26				170	8.86686	0.4664926	1.3784	1.4652	12.69841	3.70151
10:18:26				171	8.86294	0.4692179	1.2801	1.4652	11.33089	3.72498
10:18:27				172	8.85901	0.4697002	1.2801	1.4652	11.18437	3.72948
10:18:27				173	8.85705	0.4693792	1.2801	1.41636	11.57509	3.72696
10:18:28				174	8.85509	0.4711432	1.3784	1.4652	11.18437	3.7421
10:18:28				175	8.85116	0.4738676	1.2801	1.4652	11.42857	3.7656
10:18:29				176	8.8541	0.4757914	1.2801	1.4652	11.57509	3.78159
10:18:29				177	8.85312	0.4749903	1.2801	1.4652	11.23321	3.77491
10:18:30				178	8.84527	0.4773949	1.2801	1.4652	11.81929	3.79613
10:18:30				179	8.84232	0.4772345	1.2801	1.4652	11.72161	3.79508
10:18:31				180	8.83741	0.4822042	1.2801	1.41636	11.67277	3.83777
10:18:31				181	8.84429	0.4916641	1.2801	1.4652	11.67277	3.91739
10:18:32				182	8.86686	0.4988798	1.2801	1.4652	11.52625	3.97625
10:18:32				183	8.8738	0.49856	1.2801	1.4652	11.47741	3.97275
10:18:33				184	8.87281	0.4988798	1.2801	1.4652	11.33089	3.97558
10:18:33				185	8.86588	0.4777157	1.2801	1.4652	11.37973	3.79665
10:18:34				186	8.85705	0.4815642	1.2801	1.4652	11.42857	3.83023
10:18:34				187	8.85018	0.4796389	1.2801	1.4652	11.57509	3.81463
10:18:35				188	8.85018	0.4714629	1.2801	1.4652	12.11233	3.74533
10:18:35				189	8.84429	0.4576753	1.3784	1.41636	11.57509	3.62927
10:18:36				190	8.83545	0.455272	1.2801	1.4652	11.62393	3.60986
10:18:36				191	8.82753	0.4523862	1.2801	1.4652	11.91697	3.58628
10:18:37				192	8.82557	0.4531867	1.2801	1.4652	11.86813	3.59324
10:18:37				193	8.82851	0.459118	1.2801	1.4652	12.25885	3.64308
10:18:38				194	8.8295	0.458318	1.2801	1.4652	11.81929	3.63621
10:18:38				195	8.83048	0.4578356	1.2801	1.4652	11.81929	3.63203
10:18:39				196	8.83048	0.4644084	1.2801	1.41636	11.72161	3.68764
10:18:39				197	8.8325	0.4639275	1.2801	1.4652	12.50305	3.68336
10:18:40				198	8.83048	0.4587989	1.2801	1.41636	12.21001	3.64018
10:18:40				199	8.83152	0.4560722	1.2801	1.41636	12.11233	3.61702
10:18:41				200	8.8325	0.4559121	1.2801	1.4652	12.01465	3.61557
10:18:41				201	8.83152	0.4503012	1.2801	1.4652	12.01465	3.56826
10:18:42				202	8.8295	0.4503012	1.2801	1.4652	12.21001	3.56847
10:18:42				203	8.83048	0.4478969	1.2801	1.4652	12.21001	3.54807
10:18:43				204	8.82753	0.4440503	1.2801	1.4652	11.57509	3.5159
10:18:43				205	8.83048	0.4466148	1.2801	1.4652	11.77045	3.53725
10:18:44				206	8.8295	0.4403631	1.2801	1.4652	12.55189	3.48462
10:18:44				207	8.82753	0.4405233	1.2801	1.4652	11.67277	3.48616
10:18:45				208	8.82557	0.4397224	1.2801	1.41636	13.72405	3.4796
10:18:45				209	8.82655	0.4429284	1.2801	1.4652	12.55189	3.50654
10:18:46				210	8.82851	0.4434098	1.2801	1.4652	11.77045	3.5104
10:18:46				211	8.82753	0.43844	1.2801	1.4652	12.06349	3.4686
10:18:47				212	8.82655	0.4331514	1.2801	1.4652	11.67277	3.42414
10:18:47				213	8.83048	0.4310678	1.2801	1.41636	12.35653	3.40623

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:48				214	8.83938	0.4373186	1.2801	1.41636	11.57509	3.458
10:18:48				215	8.84429	0.4320287	1.2801	1.41636	11.91697	3.41299
10:18:49				216	8.84625	0.4283423	1.2801	1.4652	12.11233	3.3818
10:18:49				217	8.85214	0.4277014	1.2801	1.4652	12.16117	3.37586
10:18:50				218	8.85214	0.4238548	1.2801	1.4652	11.57509	3.34354
10:18:50				219	8.86196	0.4150393	1.2801	1.4652	11.86813	3.26865
10:18:51				220	8.88263	0.4105516	1.2801	1.4652	11.77045	3.22918
10:18:51				221	8.89244	0.4028596	1.2801	1.41636	11.81929	3.16397
10:18:52				222	8.91898	0.4049438	1.2801	1.4652	11.91697	3.17902
10:18:52				223	8.92291	0.4118345	1.2801	1.4652	11.81929	3.23627
10:18:53				224	8.91604	0.4118345	1.2801	1.4652	11.57509	3.23689
10:18:53				225	8.90421	0.414558	1.3784	1.4652	11.47741	3.26075
10:18:54				226	8.90421	0.4148799	1.2801	1.4652	11.62393	3.26345
10:18:54				227	8.8944	0.4132761	1.2801	1.4652	11.67277	3.25092
10:18:55				228	8.89048	0.4129562	1.2801	1.4652	11.62393	3.2486
10:18:55				229	8.89538	0.4135977	1.3784	1.4652	11.52625	3.25352
10:18:56				230	8.89636	0.4140786	1.2801	1.4652	11.72161	3.25746
10:18:56				231	8.89636	0.4142379	1.2801	1.4652	12.16117	3.25879
10:18:57				232	8.89734	0.4140786	1.2801	1.4652	11.96581	3.25737
10:18:57				233	8.89636	0.4052637	1.2801	1.4652	12.40537	3.18371
10:18:58				234	8.89538	0.4097509	1.2801	1.4652	11.86813	3.22133
10:18:58				235	8.90029	0.4092697	1.2801	1.4652	11.57509	3.21686
10:18:59				236	8.89931	0.4111937	1.2801	1.4652	11.81929	3.23305
10:18:59				237	8.90127	0.4126347	1.2801	1.4652	11.57509	3.24493
10:19:00				238	8.89832	0.4126347	1.3784	1.4652	10.79365	3.24519
10:19:00				239	8.89931	0.4110332	1.2801	1.4652	11.52625	3.2317
10:19:01				240	8.90029	0.3999759	1.2801	1.4652	11.57509	3.13919
10:19:01				241	8.93075	0.3940464	1.2801	1.4652	12.01465	3.08707
10:19:02				242	8.97492	0.3711329	1.2801	1.4652	12.69841	2.89299
10:19:02				243	9.03179	0.3725748	1.2801	1.4652	11.86813	2.90032
10:19:03				244	9.03675	0.3704914	1.2801	1.4652	10.84249	2.88269
10:19:04				247	9.07749	0.3671302	1.2801	1.4652	11.03785	2.85166
10:19:05				248	9.06281	0.3663297	1.2801	1.4652	11.57509	2.84622
10:19:05				249	9.05785	0.3685716	1.2801	1.4652	11.52625	2.86513
10:19:06				250	9.051	0.378987	1.2801	1.4652	11.13553	2.95183
10:19:06				251	9.04807	0.3783454	1.2801	1.51404	10.98901	2.94676
10:19:07				252	9.03828	0.3757815	1.2801	1.4652	11.33089	2.92633
10:19:07				253	9.02261	0.3818699	1.2801	1.4652	11.23321	2.97807
10:19:08				254	9.02261	0.3786662	1.2801	1.4652	11.81929	2.95151
10:19:08				255	9.0187	0.3813893	1.2801	1.4652	11.72161	2.97441
10:19:09				256	9.00492	0.3844346	1.3784	1.4652	11.18437	3.00081
10:19:09				257	9.00492	0.3810695	1.2801	1.4652	12.21001	2.9729
10:19:10				258	9.00492	0.3813894	1.3784	1.4652	11.18437	2.97555
10:19:10				259	9.00982	0.378987	1.2801	1.4652	11.62393	2.95522
10:19:11				260	9.0157	0.3770645	1.2801	1.51404	11.03785	2.93881

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:11				261	9.01674	0.376744	1.2801	1.4652	11.91697	2.93607
10:19:12				262	9.0187	0.380268	1.2801	1.51404	11.03785	2.96511
10:19:12				263	9.01276	0.3791459	1.2801	1.4652	11.13553	2.9563
10:19:13				264	9.01178	0.3797879	1.2801	1.41636	10.89133	2.9617
10:19:13				265	9.02065	0.3765838	1.2801	1.41636	10.98901	2.93442
10:19:14				266	9.02457	0.3703349	1.2801	1.41636	11.18437	2.88238
10:19:14				267	9.02947	0.3696937	1.2801	1.4652	12.45421	2.87668
10:19:15				268	9.03534	0.3692123	1.2801	1.4652	12.21001	2.87223
10:19:15				269	9.04317	0.3637658	1.2801	1.4652	10.94017	2.82661
10:19:16				270	9.05785	0.3671302	1.2801	1.4652	10.64713	2.85322
10:19:16				271	9.05198	0.3679312	1.3784	1.41636	10.89133	2.8603
10:19:17				272	9.03534	0.3733785	1.2801	1.4652	11.13553	2.90669
10:19:17				273	9.04219	0.3661691	1.2801	1.4652	11.08669	2.84653
10:19:18				274	9.05883	0.372097	1.2801	1.51404	11.28205	2.89418
10:19:18				275	9.05883	0.372097	1.2801	1.4652	11.67277	2.89418
10:19:19				276	9.05785	0.3717761	1.2801	1.4652	11.37973	2.89161
10:19:19				277	9.05492	0.3695327	1.2801	1.4652	11.08669	2.8733
10:19:20				278	9.06085	0.3708151	1.2801	1.4652	10.84249	2.88343
10:19:20				279	9.06672	0.3685716	1.2801	1.4652	10.74481	2.86442
10:19:21				280	9.07259	0.3682513	1.2801	1.4652	11.33089	2.86131
10:19:21				281	9.07162	0.3677703	1.2801	1.41636	10.98901	2.85741
10:19:22				282	9.06966	0.3740196	1.2801	1.41636	11.23321	2.9092
10:19:22				283	9.06477	0.374821	1.2801	1.4652	11.03785	2.91623
10:19:23				284	9.05492	0.3810695	1.2801	1.4652	10.89133	2.96875
10:19:23				285	9.05394	0.3805891	1.2801	1.4652	11.13553	2.96485
10:19:24				286	9.04317	0.3817107	1.2801	1.4652	11.52625	2.97504
10:19:24				287	9.04024	0.3894008	1.3784	1.4652	10.54945	3.03906
10:19:25				288	9.04317	0.3812302	1.2801	1.4652	10.40293	2.97105
10:19:25				289	9.03143	0.3780247	1.2801	1.4652	10.50061	2.94547
10:19:26				290	9.02947	0.3844345	1.2801	1.4652	10.94017	2.99876
10:19:26				291	9.02065	0.4015804	1.2801	1.4652	11.33089	3.14199
10:19:27				292	9.02163	0.3934078	1.2801	1.4652	10.79365	3.07393
10:19:27				293	9.02947	0.4095919	1.2801	1.41636	11.23321	3.20794
10:19:28				294	9.0187	0.421773	1.2801	1.41636	11.03785	3.31059
10:19:28				295	9.00492	0.4135991	1.2801	1.41636	11.08669	3.24358
10:19:29				296	8.99611	0.4187276	1.2801	1.4652	11.13553	3.28722
10:19:29				297	9.00003	0.4296262	1.3784	1.4652	11.23321	3.37802
10:19:30				298	9.00003	0.4267411	1.2801	1.4652	12.16117	3.35387
10:19:30	10:18:06 @ 6:00	10	180	299	9.00003	0.4113558	1.2801	1.4652	10.84249	3.2253
10:19:31				300	9.00297	0.4251384	1.2801	1.4652	11.03785	3.34019
10:19:31				301	8.99807	0.4249781	1.2801	1.4652	11.23321	3.3393
10:19:32				302	8.99709	0.4320301	1.2801	1.4652	11.03785	3.39844
10:19:32				303	8.98631	0.4395636	1.2801	1.4652	10.84249	3.46263
10:19:33				304	8.97847	0.4379598	1.2801	1.41636	10.98901	3.44993
10:19:33				305	8.98239	0.4269016	1.2801	1.4652	10.74481	3.35687

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:34				306	8.98337	0.4325117	1.2801	1.4652	11.18437	3.40378
10:19:34				307	8.98239	0.445814	1.2801	1.4652	11.28205	3.5155
10:19:35				308	8.98239	0.4361977	1.2801	1.4652	10.64713	3.43477
10:19:35				309	8.98043	0.4368387	1.2801	1.51404	10.59829	3.44034
10:19:36				310	8.97749	0.4376399	1.2801	1.4652	11.03785	3.44734
10:19:36				311	8.97553	0.4496614	1.2801	1.4652	10.74481	3.54852
10:19:37				312	8.97945	0.4511038	1.2801	1.4652	10.54945	3.56026
10:19:37				313	8.97847	0.4448531	1.2801	1.41636	10.84249	3.50781
10:19:38				314	8.97553	0.445814	1.3784	1.41636	10.35409	3.51617
10:19:38				315	8.97351	0.4389216	1.2801	1.4652	10.50061	3.45849
10:19:39				316	8.97351	0.4371585	1.2801	1.4652	10.84249	3.44369
10:19:39				317	8.96959	0.4405247	1.2801	1.4652	10.59829	3.47232
10:19:40				318	8.96665	0.4461355	1.2801	1.51404	11.08669	3.51975
10:19:40				319	8.96861	0.4515859	1.2801	1.4652	10.59829	3.56539
10:19:41				320	8.96371	0.4474172	1.2801	1.4652	10.64713	3.53082
10:19:41				321	8.96469	0.4475781	1.2801	1.4652	10.69597	3.53207
10:19:42				322	8.96371	0.4581575	1.2801	1.41636	11.28205	3.62121
10:19:42				323	8.96469	0.4519053	1.2801	1.4652	10.74481	3.56847
10:19:43				324	8.96959	0.4482186	1.2801	1.4652	10.40293	3.53697
10:19:43				325	8.97253	0.43732	1.2801	1.4652	10.30525	3.44514
10:19:44				326	8.97847	0.4315488	1.2801	1.4652	10.89133	3.39617
10:19:44				327	8.98533	0.4244972	1.3784	1.4652	10.45177	3.33646
10:19:45				328	8.99023	0.4206501	1.2801	1.4652	10.89133	3.30383
10:19:45				329	8.99709	0.4328322	1.2801	1.4652	10.79365	3.40516
10:19:46				330	9.0059	0.4203303	1.2801	1.41636	10.40293	3.29971
10:19:46				331	9.01674	0.4188873	1.3784	1.4652	10.54945	3.28665
10:19:47				332	9.04219	0.4313893	1.3784	1.4652	10.45177	3.38879
10:19:47				333	9.05883	0.4148812	1.2801	1.4652	10.59829	3.24938
10:19:48				334	9.06966	0.3942082	1.2801	1.4652	11.13553	3.07645
10:19:48				335	9.08923	0.3890809	1.2801	1.4652	11.23321	3.03225
10:19:49				336	9.09803	0.3773849	1.2801	1.4652	11.77045	2.93471
10:19:49				337	9.10298	0.3765837	1.4768	1.41636	10.74481	2.92767
10:19:50				338	9.10983	0.3789869	1.2801	1.41636	11.08669	2.94699
10:19:50				339	9.10494	0.3898822	1.2801	1.4652	10.69597	3.03757
10:19:51				340	9.09803	0.3759415	1.3784	1.41636	11.72161	2.92278
10:19:51				341	9.08825	0.3794668	1.2801	1.4652	11.08669	2.95273
10:19:52				342	9.08336	0.3847549	1.3784	1.4652	11.28205	2.9969
10:19:52				343	9.08825	0.4055866	1.2801	1.4652	11.28205	3.16936
10:19:53				344	9.08825	0.4233755	1.2801	1.41636	10.94017	3.31753
10:19:53				345	9.07847	0.4152015	1.2801	1.4652	11.28205	3.25027
10:19:54				346	9.0157	0.415683	1.2801	1.4652	11.57509	3.26
10:19:54				347	8.97155	0.4150407	1.2801	1.4652	11.96581	3.25865
10:19:55				348	8.98141	0.3998179	1.2801	1.4652	11.23321	3.13075
10:19:55				349	8.99611	0.4382814	1.2801	1.4652	11.77045	3.45093
10:19:56				350	9.00199	0.4597609	1.2801	1.4652	11.81929	3.63083

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:56				351	8.98533	0.4302663	1.2801	1.4652	11.62393	3.38477
10:19:57				352	8.96861	0.4281831	1.2801	1.4652	12.30769	3.3689
10:19:57				353	8.95783	0.451265	1.2801	1.4652	12.50305	3.56377
10:19:58				354	8.94901	0.457837	1.2801	1.4652	11.77045	3.62
10:19:58				355	8.94509	0.4448532	1.2801	1.4652	11.42857	3.51109
10:19:59				356	8.93627	0.4451729	1.3784	1.51404	11.77045	3.51464
10:19:59				357	8.95489	0.4440518	1.2801	1.41636	11.86813	3.50339
10:20:00				358	8.94803	0.440685	1.2801	1.4652	11.42857	3.47577
10:20:00				359	8.94901	0.4333124	1.2801	1.4652	11.67277	3.41377
10:20:01				360	8.94117	0.4259389	1.2801	1.4652	11.81929	3.35267
10:20:01				361	8.94019	0.4246576	1.2801	1.4652	11.28205	3.34203
10:20:02				362	8.9264	0.4246576	1.2801	1.4652	11.81929	3.34332
10:20:02				363	8.91855	0.4235359	1.2801	1.41636	11.47741	3.33465
10:20:03				364	8.91954	0.4208117	1.2801	1.4652	11.52625	3.31173
10:20:04				367	8.9234	0.4190424	1.2801	1.4652	11.77045	3.29655
10:20:05				368	8.92438	0.416959	1.2801	1.4652	11.91697	3.27901
10:20:05				369	8.92536	0.4182406	1.2801	1.41636	11.96581	3.28965
10:20:06				370	8.92438	0.4195233	1.3784	1.4652	11.42857	3.30048
10:20:06				371	8.92536	0.4193619	1.2801	1.4652	11.72161	3.29904
10:20:07				372	8.92536	0.4244909	1.2801	1.4652	11.52625	3.34202
10:20:07				373	8.92144	0.4280162	1.2801	1.4652	11.57509	3.37195
10:20:08				374	8.91457	0.4220869	1.2801	1.4652	11.37973	3.32287
10:20:08				375	8.91555	0.4262534	1.2801	1.4652	11.81929	3.35772
10:20:09				376	8.92046	0.42962	1.2801	1.4652	11.96581	3.3855
10:20:09				377	8.91163	0.4328259	1.2801	1.4652	11.77045	3.41326
10:20:10				378	8.90274	0.4336268	1.2801	1.4652	12.01465	3.42083
10:20:10				379	8.90078	0.4294592	1.2801	1.4652	12.45421	3.38602
10:20:11				380	8.90274	0.4347489	1.2801	1.4652	12.94261	3.43026
10:20:11				381	8.8998	0.4358702	1.2801	1.41636	12.01465	3.43997
10:20:12				382	8.889	0.430902	1.3784	1.4652	12.06349	3.39925
10:20:12				383	8.88312	0.42385	1.2801	1.4652	11.72161	3.3406
10:20:13				384	8.8841	0.4190424	1.2801	1.4652	11.67277	3.30018
10:20:13				385	8.88802	0.4185617	1.3784	1.4652	11.23321	3.29578
10:20:14				386	8.89195	0.4179198	1.2801	1.41636	11.77045	3.29004
10:20:14				387	8.89587	0.4179198	1.2801	1.4652	11.91697	3.28968
10:20:15				388	8.89685	0.4151954	1.2801	1.4652	11.81929	3.26677
10:20:15				389	8.9047	0.4127923	1.2801	1.51404	11.86813	3.24593
10:20:16				390	8.90967	0.4119904	1.2801	1.4652	12.35653	3.23877
10:20:16				391	8.91555	0.4116692	1.2801	1.4652	12.01465	3.23555
10:20:17				392	8.91457	0.4119904	1.3784	1.41636	11.72161	3.23832
10:20:17				393	8.91849	0.415036	1.2801	1.4652	12.21001	3.26346
10:20:18				394	8.92732	0.4131122	1.2801	1.4652	12.30769	3.24655
10:20:18				395	8.9283	0.4042978	1.2801	1.4652	11.86813	3.1728
10:20:19				396	8.92536	0.407984	1.2801	1.4652	11.86813	3.20386
10:20:19				397	8.92928	0.4233693	1.2801	1.41636	11.96581	3.33225

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:20				398	8.9332	0.4331449	1.2801	1.4652	11.72161	3.41387
10:20:20				399	8.9283	0.4301008	1.3784	1.4652	11.18437	3.38879
10:20:21				400	8.92536	0.422407	1.2801	1.4652	11.67277	3.32455
10:20:21				401	8.9332	0.4291393	1.2801	1.4652	11.81929	3.38026
10:20:22				402	8.92732	0.4265743	1.2801	1.41636	11.23321	3.3593
10:20:22				403	8.92634	0.4222469	1.2801	1.4652	11.42857	3.32312
10:20:23				404	8.92046	0.4184003	1.2801	1.4652	12.06349	3.29144
10:20:23				405	8.92634	0.4015743	1.2801	1.4652	11.91697	3.15024
10:20:24				406	8.9332	0.4063808	1.3784	1.4652	11.18437	3.18975
10:20:24				407	8.94105	0.4081443	1.2801	1.41636	11.18437	3.20379
10:20:25				408	8.94497	0.4063808	1.2801	1.4652	11.37973	3.18871
10:20:25				409	8.94693	0.4095857	1.2801	1.4652	11.47741	3.2153
10:20:26				410	8.94497	0.4142346	1.2801	1.4652	11.33089	3.25434
10:20:26				411	8.9381	0.4192021	1.2801	1.4652	11.57509	3.29653
10:20:27				412	8.93418	0.4214452	1.2801	1.41636	11.28205	3.31567
10:20:27				413	8.92732	0.4156768	1.3784	1.4652	11.33089	3.26801
10:20:28				414	8.92634	0.4281768	1.2801	1.4652	11.67277	3.37283
10:20:28				415	8.92046	0.4203241	1.3784	1.4652	12.01465	3.30755
10:20:29				416	8.92928	0.4175989	1.2801	1.4652	11.91697	3.28392
10:20:29				417	8.93418	0.4159972	1.3784	1.41636	12.01465	3.27006
10:20:30				418	8.93222	0.4256133	1.2801	1.4652	11.96581	3.35078
10:20:30				419	8.92634	0.4328259	1.2801	1.4652	11.03785	3.41185
10:20:31				420	8.92242	0.4341071	1.3784	1.4652	11.18437	3.42298
10:20:31				421	8.92242	0.4315425	1.2801	1.4652	11.47741	3.40145
10:20:32				422	8.92242	0.4331449	1.2801	1.41636	11.77045	3.4149
10:20:32				423	8.91163	0.4270559	1.2801	1.4652	11.18437	3.36482
10:20:33				424	8.91751	0.4270559	1.2801	1.4652	12.94261	3.36426
10:20:33				425	8.92242	0.423049	1.2801	1.4652	11.67277	3.33021
10:20:34				426	8.92536	0.4281768	1.2801	1.4652	10.54945	3.37293
10:20:34				427	8.93222	0.4292984	1.2801	1.4652	10.35409	3.38169
10:20:35				428	8.93124	0.4304209	1.2801	1.4652	10.89133	3.3912
10:20:35				429	8.9332	0.4265743	1.2801	1.51404	11.18437	3.35875
10:20:36				430	8.94595	0.3986897	1.2801	1.4652	10.15873	3.12445
10:20:36				431	8.98619	0.3644015	1.2801	1.41636	11.33089	2.83637
10:20:37				432	9.05094	0.3644014	1.2801	1.4652	11.37973	2.83124
10:20:37				433	9.09797	0.3523862	1.2801	1.4652	11.23321	2.72859
10:20:38				434	9.11954	0.362158	1.3784	1.4652	11.03785	2.80734
10:20:38				435	9.10188	0.36392	1.2801	1.51404	11.28205	2.82325
10:20:39				436	9.09992	0.3594349	1.2801	1.41636	11.33089	2.78645
10:20:39				437	9.10286	0.3607166	1.2801	1.4652	11.18437	2.79678
10:20:40				438	9.09112	0.3674456	1.2801	1.4652	11.42857	2.85318
10:20:40				439	9.08134	0.3932412	1.2801	1.4652	11.28205	3.06743
10:20:41				440	9.07743	0.3829861	1.2801	1.4652	11.08669	2.98275
10:20:41				441	9.05486	0.3756167	1.2801	1.41636	10.98901	2.92362
10:20:42				442	9.04703	0.3605566	1.2801	1.4652	10.89133	2.79982

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:42				443	9.06562	0.3525454	1.2801	1.4652	11.08669	2.73237
10:20:43				444	9.09014	0.3573525	1.2801	1.4652	10.74481	2.77006
10:20:43				445	9.10482	0.3589536	1.2801	1.41636	10.79365	2.78211
10:20:44				446	9.09992	0.3615172	1.2801	1.4652	11.13553	2.8036
10:20:44				447	9.09503	0.3629594	1.2801	1.4652	11.08669	2.81587
10:20:45				448	9.09112	0.3672848	1.2801	1.4652	12.06349	2.85185
10:20:45				449	9.08525	0.3698486	1.2801	1.4652	11.52625	2.87348
10:20:46				450	9.0784	0.383147	1.2801	1.4652	11.03785	2.984
10:20:46				451	9.0392	0.3852289	1.2801	1.4652	10.89133	3.00453
10:20:47				452	9.02053	0.407343	1.2801	1.4652	11.28205	3.19
10:20:47				453	9.02151	0.3991708	1.2801	1.51404	11.23321	3.12186
10:20:48				454	9.02053	0.3879541	1.2801	1.41636	11.96581	3.02872
10:20:48	10:19:24 end transect	10	270	455	9.02445	0.3889148	1.3784	1.4652	11.81929	3.03636
10:20:49				456	9.02249	0.386191	1.3784	1.4652	10.84249	3.01392
10:20:49				457	9.02249	0.3873119	1.3784	1.4652	11.18437	3.02322
10:20:50				458	9.01955	0.4150359	1.3784	1.4652	11.91697	3.25424
10:20:50				459	8.99899	0.412151	1.3784	1.4652	12.60073	3.23202
10:20:51				460	8.98129	0.407984	1.4768	1.4652	13.33333	3.19884
10:20:51				461	8.96953	0.4017339	1.5752	1.4652	11.77045	3.14775
10:20:52				462	8.96757	0.3906779	1.6736	1.4652	12.55189	3.05584
10:20:52				463	8.97051	0.383947	1.5752	1.4652	12.40537	2.99964
10:20:53				464	9.00192	0.3940432	1.772	1.4652	12.45421	3.08088
10:20:53				465	9.0313	0.5383211	1.9687	1.51404	12.01465	4.2929
10:20:54				466	9.01564	0.5203605	2.1655	1.4652	10.89133	4.14191
10:20:54				467	8.99011	0.6316864	2.2639	1.41636	10.45177	5.09957
10:20:55				468	8.98325	0.7560843	2.3623	1.4652	10.45177	6.18454
10:20:55				469	9.01368	0.748859	2.4606	1.51404	9.86569	6.1159
10:20:56				470	9.05584	0.765719	2.559	1.4652	8.74237	6.25643
10:20:56				471	9.06562	0.7663605	2.559	1.4652	8.35165	6.26034
10:20:57				472	9.05877	0.7300737	2.559	1.4652	7.32601	5.94391
10:20:57				473	9.05584	0.7082425	2.559	1.4652	7.27717	5.75395
10:20:58				474	9.05877	0.8042597	2.559	1.4652	7.32601	6.5947
10:20:58				475	9.05192	0.9920825	2.559	1.4652	8.25397	8.26716
10:20:59				476	9.07938	1.1295524	2.6574	1.4652	8.25397	9.50204
10:20:59				477	9.24178	1.1586625	2.7558	1.4652	7.76557	9.72252
10:21:00				478	9.5207	1.1620406	2.7558	1.4652	6.54457	9.67766
10:21:00				479	9.68404	1.1647735	2.7558	1.51404	6.34921	9.65837
10:21:01				480	9.81886	1.1842362	2.8542	1.41636	6.05617	9.79621
10:21:01				481	9.94852	1.1929227	2.8542	1.4652	6.44689	9.83858
10:21:02				482	10.01429	1.1906713	2.8542	1.4652	6.00733	9.80073
10:21:02				483	10.02394	1.1647722	2.9526	1.4652	6.00733	9.56803
10:21:03				484	9.92051	1.1794114	2.9526	18.9011	5.56777	9.72573
10:21:04				487	9.62074	1.1836453	2.9526	28.47375	5.22589	9.84479
10:21:05				488	9.62462	1.0982497	2.9526	30.37851	5.32357	9.07903
10:21:05				489	9.60133	1.1014664	2.9526	32.23443	5.17705	9.11362

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:06				490	9.6285	1.1479412	2.9526	34.33455	5.47009	9.52232
10:21:06				491	9.65767	1.1564647	2.9526	34.48107	5.27473	9.59095
10:21:07				492	9.73916	1.1654707	2.9526	34.38339	5.27473	9.64984
10:21:07				493	9.72172	1.1744767	2.9526	34.09035	5.61661	9.73513
10:21:08				494	9.71203	1.1402213	2.9526	34.13919	5.22589	9.43131
10:21:08				495	9.74982	1.157751	2.9526	33.94383	5.22589	9.57799
10:21:09				496	9.81094	1.1717432	2.9526	33.55311	4.98168	9.6867
10:21:09				497	9.81577	1.1770495	2.9526	33.16239	5.07937	9.73281
10:21:10				498	9.85937	1.1878278	2.9526	32.77167	5.22589	9.81731
10:21:10				499	9.90094	1.1884707	2.9526	32.67399	5.37241	9.81177
10:21:11				500	9.94545	1.1868609	2.9526	32.47863	5.07937	9.78539
10:21:11				501	9.97834	1.1883096	2.9526	32.08791	4.98168	9.78941
10:21:12				502	9.97641	1.1883096	2.9526	25.78755	5.27473	9.78993
10:21:12				503	9.95124	1.1924905	2.9526	26.61783	5.51893	9.83398
10:21:13				504	9.97061	1.184449	2.9526	27.39927	5.37241	9.75712
10:21:13				505	9.98413	1.1936175	2.9526	27.54579	5.37241	9.8351
10:21:14				506	10.00054	1.1881488	2.9526	25.93407	5.32357	9.78199
10:21:14	10:19:50 start transect	10	270	507	10.02086	1.1839671	2.9526	25.59219	5.32357	9.73933
10:21:15				508	10.02569	1.1805884	2.9526	24.22466	5.47009	9.70801
10:21:15				509	10.03147	1.1725465	2.9526	23.63858	5.37241	9.63504
10:21:16				510	10.0334	1.1593578	3.0509	20.1221	5.56777	9.5175
10:21:16				511	10.00826	1.1371638	2.9526	18.21734	5.42125	9.32735
10:21:17				512	9.98027	1.1249428	2.9526	14.65201	5.56777	9.22627
10:21:17				513	9.93772	1.1234953	2.9526	11.28205	5.51893	9.22427
10:21:18				514	9.93385	1.1206	2.9526	8.00977	5.56777	9.19959
10:21:18				515	9.93965	1.1095055	2.9526	6.39805	5.81197	9.09985
10:21:19				516	9.96965	1.1051631	2.9526	5.17705	5.61661	9.05391
10:21:19				517	9.91936	1.093425	2.8542	4.78632	5.76313	8.96261
10:21:20				518	9.81868	1.089407	2.9526	2.39316	5.81197	8.95192
10:21:20				519	9.74207	1.0707568	2.9526	1.4652	5.66545	8.80531
10:21:21				520	9.76441	1.0181885	2.9526	1.41636	5.86081	8.33486
10:21:21				521	9.54585	0.9831499	2.9526	1.4652	5.90965	8.07492
10:21:22				522	9.27977	0.913251	2.9526	1.4652	6.20269	7.51383
10:21:22				523	9.12822	0.8934892	2.9526	1.4652	6.20269	7.37014
10:21:23				524	9.06159	0.8991133	2.9526	1.4652	6.49573	7.43392
10:21:23				525	9.03418	0.9087523	2.9526	1.4652	6.20269	7.52549
10:21:24				526	9.04103	0.9134119	2.9526	1.4652	6.05617	7.56558
10:21:24				527	9.04788	0.9183927	2.9526	1.4652	6.00733	7.60853
10:21:25				528	9.0381	0.9122867	2.9526	1.4652	6.20269	7.55617
10:21:25				529	9.02629	0.914215	2.9526	1.4652	6.10501	7.57587
10:21:26				530	9.02433	0.9174279	2.9526	1.4652	6.05617	7.60495
10:21:26				531	9.03026	0.9280323	2.9526	1.4652	6.34921	7.69834
10:21:27				532	9.04005	0.9193559	2.9526	1.4652	6.30037	7.61879
10:21:27				533	9.05669	0.937513	2.9526	1.4652	6.39805	7.77729
10:21:28				534	9.06061	0.9601702	2.9526	1.4652	6.25153	7.97902

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:28				535	9.09002	0.9876513	2.9526	1.4652	6.00733	8.21855
10:21:29				536	9.15364	1.0328173	2.9526	1.4652	6.05617	8.60906
10:21:29				537	9.33541	1.0260667	2.9526	1.51404	6.15385	8.50514
10:21:30				538	9.38224	1.0493755	2.9526	1.4652	6.00733	8.70231
10:21:30				539	9.26416	1.0511435	2.8542	1.41636	6.15385	8.74689
10:21:31				540	9.20254	1.0638456	2.9526	1.4652	6.10501	8.8762
10:21:31				541	9.30415	1.05886	2.9526	1.51404	6.25153	8.80632
10:21:32				542	9.37737	1.045356	2.9526	1.4652	6.44689	8.66754
10:21:32				543	9.32079	1.0622367	2.9526	1.4652	6.44689	8.83252
10:21:33				544	9.29538	1.0487321	2.9526	1.4652	6.05617	8.71764
10:21:33				545	9.28855	1.0527521	2.9526	1.4652	6.05617	8.75535
10:21:34				546	9.2866	1.0313719	2.9526	1.4652	6.05617	8.56421
10:21:34				547	9.24166	1.0279957	2.9526	1.4652	5.86081	8.5447
10:21:35				548	9.2084	1.0316921	2.9526	1.51404	6.00733	8.5858
10:21:35				549	9.19278	1.0315311	2.9526	1.4652	6.10501	8.5881
10:21:36				550	9.16243	1.0210844	2.9526	1.41636	6.20269	8.50157
10:21:36				551	9.14777	0.9892592	2.9526	1.4652	6.10501	8.21968
10:21:37				552	9.11936	0.9796168	2.9526	1.4652	6.10501	8.13985
10:21:37				553	9.09589	0.9792947	2.9526	1.51404	6.30037	8.14231
10:21:38				554	9.07437	0.9661169	2.9526	1.41636	6.30037	8.02917
10:21:38				555	9.06159	0.9163029	2.9526	1.4652	5.90965	7.58699
10:21:39				556	9.04984	0.9113241	2.9526	1.4652	5.90965	7.54511
10:21:39				557	9.0332	0.9193559	2.9526	1.4652	6.15385	7.62026
10:21:40				558	9.0067	0.9151787	2.9526	1.4652	6.00733	7.58863
10:21:40				559	8.98907	0.8931697	2.9526	1.51404	6.20269	7.39606
10:21:41				560	8.97725	0.8928479	2.9526	1.4652	5.81197	7.39564
10:21:41				561	8.96941	0.8930088	2.9526	1.41636	5.66545	7.39871
10:21:42				562	8.95961	0.8938116	2.9526	1.4652	5.90965	7.4079
10:21:42				563	8.95765	0.8936507	2.9526	1.51404	5.71429	7.40687
10:21:43				564	8.95863	0.8923652	2.9526	1.4652	5.71429	7.3952
10:21:43				565	8.95569	0.891402	2.9526	1.41636	5.95849	7.38722
10:21:44				566	8.95471	0.8901156	2.9526	1.4652	6.00733	7.37596
10:21:44				567	8.95275	0.8930088	2.9526	1.4652	5.76313	7.40216
10:21:45				568	8.94883	0.8918846	2.9526	1.4652	5.90965	7.39295
10:21:45				569	8.94491	0.8973458	2.9526	1.4652	5.76313	7.44249
10:21:46				570	8.94785	0.8984705	2.9526	1.51404	5.61661	7.45191
10:21:46				571	8.94785	0.9058617	2.9526	1.4652	5.81197	7.51791
10:21:47				572	8.94589	0.9220891	2.9526	1.41636	5.76313	7.66338
10:21:47				573	8.94687	0.9158222	2.9526	1.4652	5.66545	7.60712
10:21:48				574	8.94687	0.9111623	2.9526	1.4652	5.61661	7.56547
10:21:48				575	8.94785	0.9052189	2.9526	1.4652	5.76313	7.51216
10:21:49				576	8.94883	0.908111	2.9526	1.4652	5.81197	7.53779
10:21:49				577	8.94687	0.8901157	2.9526	1.4652	5.95849	7.37758
10:21:50				578	8.94393	0.8629678	2.9526	1.4652	5.66545	7.13641
10:21:50				579	8.95079	0.8502796	2.9526	1.4652	5.81197	7.02229

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:51				580	8.96255	0.8391955	2.9526	1.4652	5.61661	6.92164
10:21:51				581	8.98215	0.7815434	2.9526	1.51404	5.56777	6.40854
10:21:52				582	8.99984	0.7701433	2.8542	1.51404	5.51893	6.3051
10:21:52				583	9.01747	0.7675743	2.9526	1.4652	5.76313	6.27941
10:21:53				584	9.02726	0.8167108	2.9526	1.4652	6.05617	6.71033
10:21:53				585	9.02433	0.8099669	2.9526	1.4652	5.71429	6.65136
10:21:54				586	9.03026	0.804346	2.9526	1.41636	6.30037	6.60069
10:21:54				587	9.03418	0.8128573	2.9526	1.4652	6.39805	6.67503
10:21:55				588	9.01258	0.8359843	2.9526	1.51404	6.69109	6.88351
10:21:55				589	8.99005	0.8395183	2.9526	1.51404	6.64225	6.91916
10:21:56				590	8.98117	0.8268289	2.9526	1.4652	6.73993	6.80851
10:21:56				591	8.99495	0.8143029	2.9526	1.4652	6.83761	6.69514
10:21:57				592	9.0116	0.8109301	2.9526	1.4652	6.83761	6.66224
10:21:57				593	9.0067	0.8310049	2.9526	1.4652	6.93529	6.84058
10:21:58				594	8.97921	0.8281143	2.9526	1.4652	7.37485	6.82026
10:21:58				595	8.97431	0.8093252	2.9526	1.4652	7.52137	6.65502
10:21:59				596	8.99495	0.7834718	2.9526	1.4652	6.59341	6.42322
10:21:59				597	9.01551	0.7346626	2.9526	1.4652	6.69109	5.99122
10:22:00				598	9.03124	0.7385166	2.9526	1.4652	7.13065	6.0223
10:22:00				599	9.03712	0.7566572	2.9526	1.4652	8.25397	6.18018
10:22:01				600	9.0381	0.7555338	2.9526	1.41636	7.47253	6.17016
10:22:01				601	9.03907	0.7521611	2.9526	1.4652	8.10745	6.14044
10:22:02				602	9.03712	0.7423696	2.9526	1.4652	8.64469	6.05502
10:22:02				603	9.03907	0.7497543	2.9526	1.4652	8.49817	6.11935
10:22:03				604	9.03907	0.7298472	2.9526	1.4652	8.74237	5.94517
10:22:04				607	9.02096	0.7715159	2.9526	1.41636	7.81441	6.31342
10:22:05				608	9.01209	0.7647704	2.9526	1.4652	7.71673	6.25573
10:22:05				609	9.01411	0.7784192	2.9526	1.51404	7.57021	6.37532
10:22:06				610	9.01411	0.7670193	2.9526	1.51404	7.57021	6.27512
10:22:06				611	9.03075	0.7479115	2.9526	1.41636	7.81441	6.10463
10:22:07				612	9.03467	0.753692	2.9526	1.4652	7.91209	6.15461
10:22:07				613	9.03761	0.7613993	2.9526	1.4652	7.61905	6.22168
10:22:08				614	9.03956	0.7615594	2.9526	1.41636	7.91209	6.22274
10:22:08				615	9.03956	0.7336224	2.9526	1.4652	8.00977	5.97809
10:22:09				616	9.04446	0.7347463	2.9526	1.51404	7.96093	5.9871
10:22:09				617	9.04446	0.7357087	2.9526	1.4652	8.40049	5.99551
10:22:10				618	9.04544	0.7328188	2.9526	1.4652	8.25397	5.97008
10:22:10				619	9.04348	0.7394023	2.9526	1.4652	8.79121	6.02798
10:22:11				620	9.0425	0.7455035	2.9526	1.4652	8.00977	6.08154
10:22:11				621	9.03467	0.7915886	2.9526	1.4652	8.30281	6.48749
10:22:12				622	9.019	0.7633264	2.9526	1.4652	7.96093	6.24184
10:22:12				623	9.02684	0.7390815	2.9526	1.4652	8.30281	6.02798
10:22:13				624	9.03761	0.7668588	2.8542	1.51404	8.05861	6.2696
10:22:13				625	9.03761	0.802027	2.9526	1.4652	8.64469	6.57889
10:22:14				626	9.01998	0.8033128	2.9526	1.51404	8.79121	6.59347

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:14				627	8.98858	0.8025099	2.9526	1.4652	8.84005	6.59219
10:22:15				628	8.97388	0.7952822	2.9526	1.41636	8.88889	6.53113
10:22:15				629	8.95226	0.8078098	2.9526	1.4652	7.13065	6.64574
10:22:16				630	8.94638	0.8352736	2.9526	1.4652	7.13065	6.89
10:22:16				631	8.94932	0.8534251	2.9526	1.4652	6.44689	7.05052
10:22:17				632	8.92971	0.8572818	2.9526	1.51404	6.10501	7.08868
10:22:17				633	8.93657	0.8452344	2.9526	1.51404	6.69109	6.98028
10:22:18				634	8.94638	0.8433068	2.9526	1.4652	6.78877	6.96126
10:22:18				635	8.9552	0.8410576	2.9526	1.4652	6.64225	6.93958
10:22:19				636	8.96206	0.8319008	2.9526	1.4652	6.20269	6.85708
10:22:19				637	8.96794	0.8180874	2.9526	1.4652	6.44689	6.73368
10:22:20				638	8.9699	0.7992971	2.9526	1.4652	6.15385	6.56728
10:22:20				639	8.9778	0.7975297	2.9526	1.4652	5.81197	6.55023
10:22:21				640	8.9827	0.7996185	2.9526	1.4652	5.66545	6.56776
10:22:21				641	8.97976	0.7989756	2.9526	1.4652	5.56777	6.56263
10:22:22				642	8.98074	0.793033	2.9526	1.4652	5.95849	6.51003
10:22:22				643	8.99544	0.7878953	2.9526	1.4652	6.59341	6.46208
10:22:23				644	9.00229	0.7948008	2.9526	1.4652	6.73993	6.52168
10:22:23				645	8.99152	0.7997792	2.9526	1.41636	6.69109	6.56756
10:22:24				646	8.98074	0.7949613	2.9526	1.4652	7.37485	6.52704
10:22:24	10:21:00 @ 6:00	10	180	647	8.98662	0.7981722	2.9526	1.4652	7.42369	6.55428
10:22:25				648	8.9876	0.803633	2.9526	1.41636	7.66789	6.60229
10:22:25				649	8.97486	0.803794	2.9526	1.4652	7.37485	6.60607
10:22:26				650	8.96598	0.8041161	2.9526	1.4652	7.17949	6.61056
10:22:26				651	8.96892	0.8050788	2.8542	1.4652	7.32601	6.61852
10:22:27				652	8.96794	0.8089333	2.9526	1.4652	7.03297	6.65275
10:22:27				653	8.9601	0.8139122	2.9526	1.4652	7.27717	6.69823
10:22:28				654	8.95618	0.8182494	2.9526	1.4652	6.93529	6.73733
10:22:28				655	8.95618	0.8190518	2.9526	1.41636	6.93529	6.74443
10:22:29				656	8.95814	0.8206574	2.9526	1.4652	7.08181	6.75827
10:22:29				657	8.96402	0.8103784	2.9526	1.4652	7.32601	6.66625
10:22:30				658	8.97094	0.8137524	2.9526	1.4652	7.42369	6.69478
10:22:30				659	8.97682	0.8129479	2.9526	1.4652	7.57021	6.68656
10:22:31				660	8.97486	0.8132693	2.9526	1.51404	6.83761	6.68977
10:22:31				661	8.9778	0.8047585	2.9526	1.4652	7.37485	6.61404
10:22:32				662	8.97584	0.8058826	2.9526	1.4652	7.37485	6.62433
10:22:32				663	8.98074	0.8002616	2.9526	1.4652	7.17949	6.5738
10:22:33				664	8.9827	0.7986542	2.9526	1.4652	7.32601	6.55925
10:22:33				665	8.98564	0.7880552	2.9526	1.41636	7.13065	6.46527
10:22:34				666	8.98956	0.7520862	2.9526	1.4652	7.86325	6.1483
10:22:34				667	9.00033	0.7239899	2.9526	1.4652	7.57021	5.9004
10:22:35				668	9.01606	0.6612279	2.9526	1.4652	7.32601	5.35146
10:22:35				669	9.02684	0.6028205	2.9526	1.4652	6.64225	4.84552
10:22:36				670	9.019	0.5928733	2.9526	1.51404	7.03297	4.76108
10:22:36				671	9.00817	0.5858135	2.9526	1.4652	7.81441	4.70189

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:37				672	8.99935	0.5781135	2.9526	1.4652	7.71673	4.63697
10:22:37				673	8.99348	0.5753867	2.8542	1.4652	7.91209	4.61436
10:22:38				674	8.99054	0.5742636	2.9526	1.4652	8.10745	4.6051
10:22:38				675	8.97976	0.5723398	2.9526	1.41636	8.40049	4.58999
10:22:39				676	8.9778	0.5707346	2.9526	1.41636	8.40049	4.57648
10:22:39				677	8.96598	0.5676881	2.9526	1.4652	9.18193	4.55187
10:22:40				678	8.9454	0.5664045	2.9526	1.4652	9.27961	4.54349
10:22:40				679	8.93853	0.5668855	2.9526	1.4652	9.27961	4.54849
10:22:41				680	8.93559	0.5676881	2.9526	1.51404	9.18193	4.55575
10:22:41				681	8.9454	0.5681677	2.9526	1.4652	9.86569	4.55861
10:22:42				682	8.9454	0.5708948	2.9526	1.4652	9.91453	4.58201
10:22:42				683	8.94834	0.5737826	2.9526	1.51404	9.62149	4.60641
10:22:43				684	8.95422	0.5858136	2.9526	1.4652	10.98901	4.709
10:22:43				685	8.96598	0.6015367	2.9526	1.41636	10.54945	4.84273
10:22:44				686	8.9827	0.5941569	2.9526	1.4652	10.69597	4.77696
10:22:44				687	8.99348	0.5936744	2.9526	1.4652	10.15873	4.77137
10:22:45				688	9.00327	0.598168	2.9526	1.41636	10.30525	4.8087
10:22:45				689	9.00131	0.5964021	2.9526	1.4652	10.50061	4.79377
10:22:46				690	9.00131	0.5983269	2.9526	1.51404	10.79365	4.81033
10:22:46				691	9.00915	0.5978468	2.9526	1.4652	9.81685	4.80514
10:22:47				692	9.01313	0.6024986	2.8542	1.4652	9.86569	4.84462
10:22:47				693	9.01606	0.6013757	2.9526	1.51404	9.62149	4.83456
10:22:48				694	9.02096	0.6049056	2.9526	1.51404	9.42613	4.86426
10:22:48				695	9.02488	0.6562532	2.9526	1.4652	9.76801	5.30703
10:22:49				696	9.02586	0.6841794	2.9526	1.4652	9.76801	5.54923
10:22:49				697	9.02096	0.7182104	2.9526	1.4652	10.35409	5.84651
10:22:50				698	9.01209	0.7140368	2.9526	1.41636	9.71917	5.81152
10:22:50				699	9.01111	0.7231879	2.9526	1.4652	9.71917	5.89161
10:22:51				700	8.99641	0.7432551	2.9526	1.4652	9.91453	6.06969
10:22:51				701	9.00327	0.7186927	2.9526	1.4652	9.91453	5.85362
10:22:52				702	8.99935	0.7222234	2.9526	1.4652	9.76801	5.88512
10:22:52				703	8.99348	0.7263974	2.9526	1.51404	10.10989	5.92259
10:22:53				704	8.99348	0.7138764	2.9526	1.51404	9.96337	5.81315
10:22:53				705	8.99446	0.7305718	2.9526	1.4652	8.93773	5.95895
10:22:54				706	8.99054	0.7166054	2.9526	1.4652	9.13309	5.83747
10:22:54				707	8.99348	0.6984659	2.9526	1.4652	7.81441	5.67869
10:22:55				708	9.00033	0.6846616	2.9526	1.41636	7.61905	5.5574
10:22:55				709	9.01313	0.6599449	2.9526	1.4652	8.30281	5.34077
10:22:56				710	9.02292	0.6305775	2.9526	1.4652	9.13309	5.08526
10:22:56				711	9.02586	0.6041035	2.9526	1.4652	8.74237	4.85669
10:22:57				712	9.0239	0.5978468	2.9526	1.4652	8.79121	4.80316
10:22:57				713	9.02194	0.5968835	2.9526	1.4652	8.98657	4.79514
10:22:58				714	9.02292	0.5997712	2.9526	1.4652	8.69353	4.81983
10:22:58				715	9.019	0.6037831	2.9526	1.4652	8.59585	4.85487
10:22:59				716	9.01606	0.5943172	2.9526	1.51404	9.67033	4.77388

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:59				717	9.01411	0.5915888	2.9526	1.4652	8.54701	4.7507
10:23:00				718	9.00915	0.5895036	2.9526	1.4652	8.54701	4.73345
10:23:00				719	9.00523	0.5888624	2.9526	1.4652	8.64469	4.72846
10:23:01				720	9.00033	0.5898252	2.9526	1.4652	9.13309	4.73738
10:23:01				721	9.00033	0.5869364	2.9526	1.4652	9.23077	4.71256
10:23:02				722	8.99935	0.5813218	2.9526	1.4652	9.13309	4.6645
10:23:02				723	8.99641	0.5877385	2.9526	1.4652	9.08425	4.71997
10:23:03				724	8.99544	0.5984875	2.9526	1.4652	10.40293	4.8125
10:23:04				727	9.0157	0.6223794	2.9526	1.4652	9.18193	5.01553
10:23:05				728	9.01374	0.6440417	2.9526	1.4652	9.03541	5.20295
10:23:05				729	9.01668	0.646448	2.9526	1.4652	9.13309	5.22334
10:23:06				730	9.01668	0.6669901	2.9526	1.4652	9.03541	5.40135
10:23:06				731	9.02059	0.6671508	2.9526	1.4652	8.93773	5.40215
10:23:07				732	9.02255	0.6692365	2.8542	1.51404	9.42613	5.41996
10:23:07				733	9.02647	0.6498181	2.9526	1.51404	9.32845	5.25107
10:23:08				734	9.02549	0.6161206	2.9526	1.4652	8.79121	4.9602
10:23:08				735	9.02647	0.6143565	2.9526	1.4652	9.13309	4.94487
10:23:09				736	9.02549	0.6129122	2.9526	1.4652	9.08425	4.93256
10:23:09				737	9.02451	0.6093824	2.9526	1.41636	9.42613	4.9023
10:23:10				738	9.02255	0.6153193	2.9526	1.4652	9.18193	4.95371
10:23:10				739	9.02353	0.6259088	2.9526	1.4652	8.74237	5.04487
10:23:11				740	9.02549	0.6374624	2.9526	1.41636	8.79121	5.14436
10:23:11				741	9.02843	0.6231816	2.9526	1.4652	8.93773	5.02066
10:23:12				742	9.02353	0.6284766	2.9526	1.4652	9.27961	5.06703
10:23:12				743	9.02157	0.6302405	2.9526	1.4652	8.88889	5.08254
10:23:13				744	9.01864	0.6275129	2.9526	1.4652	9.03541	5.05941
10:23:13				745	9.01961	0.6247853	2.9526	1.4652	9.23077	5.03573
10:23:14				746	9.02157	0.619491	2.9526	1.4652	9.23077	4.9898
10:23:14				747	9.01864	0.6166032	2.9526	1.4652	9.23077	4.96531
10:23:15				748	9.01864	0.610666	2.9526	1.4652	8.88889	4.91416
10:23:15				749	9.01472	0.6218971	2.9526	1.4652	9.32845	5.01151
10:23:16				750	9.00884	0.6098634	2.9526	1.4652	9.57265	4.9086
10:23:16				751	9.00786	0.5888467	2.9526	1.4652	9.62149	4.72797
10:23:17				752	9.00394	0.5938207	2.9526	1.4652	10.06105	4.77123
10:23:17				753	8.99611	0.5883655	2.9526	1.4652	10.10989	4.7254
10:23:18				754	8.98723	0.6222187	2.9526	1.4652	9.96337	5.01814
10:23:18				755	8.97939	0.614999	2.9526	1.4652	9.96337	4.95693
10:23:19				756	8.98037	0.6129123	2.9526	1.41636	9.76801	4.9388
10:23:19				757	8.98135	0.6215757	2.9526	1.4652	9.32845	5.01342
10:23:20				758	8.97449	0.6685953	2.9526	1.4652	10.30525	5.42168
10:23:20				759	8.97155	0.6687561	2.9526	1.4652	10.01221	5.42352
10:23:21				760	8.97253	0.653027	2.9526	1.4652	10.01221	5.28683
10:23:21				761	8.97743	0.6519049	2.9526	1.4652	9.91453	5.27638
10:23:22				762	8.98037	0.653669	2.9526	1.4652	9.81685	5.29124
10:23:22				763	8.98527	0.640672	2.9526	1.4652	10.30525	5.17793

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:23:23				764	8.98723	0.6515841	2.9526	1.51404	9.62149	5.27215
10:23:23				765	8.98331	0.6443614	2.9526	1.51404	8.93773	5.21015
10:23:24				766	8.98723	0.6501387	2.9526	1.4652	9.03541	5.25962
10:23:24				767	8.98821	0.6620147	2.9526	1.4652	8.84005	5.36246
10:23:25				768	8.98821	0.6490163	2.9526	1.4652	8.74237	5.24975
10:23:25				769	8.99017	0.6576814	2.9526	1.4652	8.69353	5.32457
10:23:26				770	8.98919	0.6772626	2.9526	1.51404	8.64469	5.49477
10:23:26				771	8.98625	0.6939547	2.9526	1.4652	8.84005	5.64052
10:23:27				772	8.97057	0.7047084	2.9526	1.41636	9.13309	5.73681
10:23:27				773	8.96763	0.6990905	3.0509	1.4652	8.40049	5.68825
10:23:28				774	8.97449	0.6865714	2.9526	1.4652	8.20513	5.57805
10:23:28				775	8.97057	0.6896206	2.9526	1.41636	8.59585	5.60523
10:23:29				776	8.97155	0.7074372	2.9526	1.4652	9.03541	5.76048
10:23:29	10:22:05 end transect	10	90	777	8.96959	0.7098454	3.0509	1.4652	8.10745	5.78182
10:23:30				778	8.97645	0.7104879	2.9526	1.41636	7.86325	5.78633
10:23:30				779	8.97743	0.7010165	2.9526	1.4652	7.61905	5.70349
10:23:31				780	8.97155	0.7162676	2.9526	1.51404	7.42369	5.83763
10:23:31				781	8.95091	0.7231695	2.9526	1.4652	7.96093	5.9014
10:23:32				782	8.93719	0.7239733	2.9526	1.51404	8.20513	5.91071
10:23:32				783	8.93032	0.7135373	2.9526	1.4652	7.86325	5.82049
10:23:33				784	8.94307	0.7153043	2.9526	1.4652	8.25397	5.83386
10:23:33				785	8.94111	0.7286276	2.9526	1.4652	8.35165	5.95083
10:23:34				786	8.93424	0.7382614	2.9526	1.4652	7.96093	6.03645
10:23:34				787	8.91954	0.80233	2.9526	1.4652	7.71673	6.60338
10:23:35				788	8.9215	0.8498734	3.0509	1.4652	7.17949	7.02444
10:23:35				789	8.96371	0.9440261	3.2477	1.4652	6.73993	7.85589
10:23:36				790	9.03724	1.0996361	3.4445	1.4652	6.78877	9.24143
10:23:36				791	9.34832	1.1599453	3.7396	1.4652	6.20269	9.70512
10:23:37				792	9.33364	1.1512598	3.9364	1.4652	5.86081	9.63055
10:23:37				793	9.2741	1.2387734	4.0348	1.4652	5.81197	10.44142
10:23:38				794	9.28873	1.3308202	4.2315	1.41636	5.90965	11.27875
10:23:38				795	9.39021	1.3622071	4.4283	1.4652	5.32357	11.53437
10:23:39				796	9.41851	1.3626896	4.5267	1.4652	5.17705	11.52968
10:23:39				797	9.23696	1.3709006	4.6251	13.77289	6.25153	11.66383
10:23:40				798	9.01766	1.3956914	4.8218	5.61661	4.78632	11.96566
10:23:40				799	8.94601	1.3852282	4.9202	1.4652	4.98168	11.89235
10:23:41				800	8.89005	1.4171046	4.9202	1.4652	4.98168	12.20834
10:23:41				801	8.78486	1.4357806	5.117	1.4652	4.44444	12.41947
10:23:42				802	8.71887	1.4311137	5.117	1.51404	4.49328	12.39873
10:23:42				803	8.68929	1.4409333	5.2153	1.4652	4.10256	12.50138
10:23:43				804	8.66665	1.4447987	5.2153	1.4652	4.1514	12.54574
10:23:43				805	8.66468	1.4486634	5.3137	1.51404	4.24908	12.58281
10:23:44				806	8.67157	1.4504344	5.4121	1.51404	4.3956	12.59702
10:23:44				807	8.68732	1.4496284	5.5105	1.4652	4.10256	12.58383
10:23:45				808	8.70011	1.4483401	5.5105	1.51404	3.76068	12.56717

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:23:45				809	8.70313	1.4464086	5.4121	1.51404	3.85836	12.54795
10:23:46				810	8.70411	1.4488249	5.4121	1.4652	3.71184	12.57033
10:23:46				811	8.70706	1.4493074	5.5105	1.4652	3.80952	12.57381
10:23:47				812	8.70805	1.4512403	5.4121	1.51404	3.71184	12.59166
10:23:47				813	8.70509	1.4501133	5.5105	1.4652	3.71184	12.58209
10:23:48				814	8.70411	1.4504342	5.5105	1.4652	3.56532	12.58546
10:23:48				815	8.70411	1.4512404	5.5105	1.51404	3.61416	12.59304
10:23:49				816	8.69618	1.4522061	5.5105	1.41636	3.80952	12.60494
10:23:49				817	8.69323	1.4510787	5.4121	1.4652	3.56532	12.5954
10:23:50				818	8.68929	1.4528485	5.4121	1.4652	3.71184	12.61346
10:23:50				819	8.68929	1.4526891	5.4121	1.41636	3.9072	12.61196
10:23:51				820	8.6824	1.4526891	5.4121	1.4652	3.85836	12.61441
10:23:51				821	8.68339	1.4531721	5.5105	1.4652	3.76068	12.61858
10:23:52				822	8.68043	1.4536552	5.4121	1.41636	3.85836	12.6242
10:23:52				823	8.66961	1.4541384	5.5105	1.4652	3.61416	12.63259
10:23:53				824	8.65478	1.4552644	5.5105	1.4652	3.71184	12.64848
10:23:53				825	8.65379	1.4563931	5.4121	1.41636	4.05372	12.65949
10:23:54				826	8.65379	1.4562311	5.4121	1.4652	3.95604	12.65796
10:23:54	10:22:30 start transect	10	90	827	8.65281	1.4580034	5.4121	1.4652	3.95604	12.67502
10:23:55				828	8.65478	1.4575197	5.4121	1.4652	3.80952	12.66976
10:23:55				829	8.65379	1.4588064	5.5105	1.4652	3.85836	12.68222
10:23:56				830	8.65478	1.459774	5.4121	1.51404	3.76068	12.69101
10:23:56				831	8.65379	1.4588064	5.4121	1.4652	3.85836	12.68224
10:23:57				832	8.65478	1.459774	5.4121	1.4652	3.80952	12.69101
10:23:57				833	8.65379	1.4652487	5.5105	1.51404	4.20024	12.74296
10:23:58				834	8.64887	1.4676631	5.5105	1.4652	4.1514	12.76751
10:23:58				835	8.64099	1.4668582	5.5105	1.51404	4.05372	12.76275
10:23:59				836	8.63311	1.4689509	5.5105	1.51404	3.9072	12.78534
10:23:59				837	8.63311	1.4691134	5.5105	1.51404	3.76068	12.78687
10:24:00				838	8.63508	1.470722	5.4121	1.4652	3.61416	12.80137
10:24:00				839	8.63508	1.470722	5.4121	1.51404	3.9072	12.80137
10:24:01				840	8.62425	1.4713676	5.4121	1.51404	3.80952	12.81138
10:24:01				841	8.6035	1.4723339	5.4121	1.4652	3.71184	12.82801
10:24:02				842	8.59463	1.4723339	5.4121	1.51404	3.9072	12.83122
10:24:02				843	8.61631	1.4721736	5.4121	1.4652	3.95604	12.82186
10:24:03				844	8.61729	1.4716905	5.4121	1.4652	4.05372	12.81694
10:24:04				847	8.60633	1.4716403	5.4121	1.4652	3.61416	12.82043
10:24:05				848	8.59451	1.4729295	5.4121	1.4652	3.663	12.8369
10:24:05				849	8.59451	1.4755044	5.4121	1.4652	3.76068	12.86124
10:24:06				850	8.59155	1.4767925	5.4121	1.4652	4.24908	12.87449
10:24:06				851	8.58169	1.4763113	5.4121	1.4652	4.05372	12.87352
10:24:07				852	8.58564	1.4764717	5.4121	1.4652	3.85836	12.8736
10:24:07				853	8.59155	1.4808201	5.4121	1.41636	3.95604	12.91258
10:24:08				854	8.57578	1.4822684	5.4121	1.4652	4.00488	12.93203
10:24:08				855	8.5491	1.4874208	5.4121	1.4652	3.9072	12.99058

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:09				856	8.53332	1.4877427	5.4121	1.4652	3.85836	12.99943
10:24:09				857	8.53227	1.4914479	5.4121	1.4652	4.05372	13.03494
10:24:10				858	8.5155	1.493059	5.5105	1.4652	3.9072	13.05638
10:24:10				859	8.50958	1.4903207	5.5105	1.41636	4.00488	13.03258
10:24:11				860	8.51057	1.4875819	5.5105	1.4652	3.71184	13.00624
10:24:11				861	8.51846	1.4909648	5.5105	1.4652	4.10256	13.03542
10:24:12				862	8.51846	1.4877428	5.5105	1.4652	4.29792	13.00487
10:24:12				863	8.51945	1.4943459	5.5105	1.4652	4.1514	13.06713
10:24:13				864	8.52142	1.4938623	5.5105	1.4652	3.9072	13.06181
10:24:13				865	8.53227	1.494507	5.4121	1.4652	4.20024	13.06394
10:24:14				866	8.52832	1.5096443	5.4121	1.4652	4.00488	13.20903
10:24:14				867	8.5007	1.5236563	5.4121	1.4652	4.1514	13.35254
10:24:15				868	8.49182	1.5333202	5.4121	1.4652	4.00488	13.44785
10:24:15				869	8.47892	1.5421777	5.4121	1.4652	4.10256	13.53712
10:24:16				870	8.45121	1.5656943	5.5105	1.51404	4.34676	13.77213
10:24:16				871	8.42751	1.5660155	5.5105	1.51404	4.44444	13.78444
10:24:17				872	8.41466	1.5756798	5.4121	1.4652	4.54212	13.8819
10:24:17				873	8.3978	1.5864716	5.4121	1.51404	4.1514	13.99185
10:24:18				874	8.38297	1.5805137	5.4121	1.51404	4.1514	13.94065
10:24:18				875	8.36512	1.5748742	5.4121	1.4652	4.34676	13.89368
10:24:19				876	8.36611	1.5747145	5.4121	1.51404	4.44444	13.89176
10:24:19				877	8.36512	1.5748742	5.4121	1.51404	4.49328	13.89368
10:24:20				878	8.36017	1.5866344	5.4121	1.4652	4.1514	14.00834
10:24:20				879	8.35127	1.6170795	5.4121	1.51404	4.59096	14.30415
10:24:21				880	8.34731	1.6087038	5.4121	1.51404	4.34676	14.22528
10:24:21				881	8.34929	1.6088648	5.4121	1.4652	4.34676	14.22602
10:24:22				882	8.35424	1.6431788	5.4121	1.51404	4.44444	14.55394
10:24:22				883	8.34336	1.6776586	5.4121	1.4652	4.68864	14.89076
10:24:23				884	8.30174	1.6908719	5.4121	1.41636	4.34676	15.03605
10:24:23				885	8.25316	1.6940966	5.4121	1.4652	4.3956	15.08802
10:24:24				886	8.23923	1.6847488	5.4121	1.4652	4.24908	15.00346
10:24:24				887	8.23427	1.6675086	5.4121	1.41636	4.3956	14.83871
10:24:25				888	8.23824	1.6671868	5.4121	1.4652	4.3956	14.83393
10:24:25				889	8.25316	1.6323859	5.4121	1.4652	4.29792	14.49158
10:24:26				890	8.26901	1.6228791	5.4121	1.41636	4.29792	14.39343
10:24:26				891	8.27594	1.6385065	5.4121	1.4652	4.1514	14.54123
10:24:27				892	8.29079	1.5996832	5.4121	1.4652	4.29792	14.16134
10:24:27				893	8.30966	1.5866347	5.4121	1.4652	4.1514	14.02842
10:24:28				894	8.33445	1.5392781	5.5105	1.4652	4.3956	13.56486
10:24:28				895	8.37605	1.5214028	5.4121	1.4652	4.20024	13.37822
10:24:29				896	8.40571	1.5170534	5.3137	1.41636	4.29792	13.32555
10:24:29				897	8.43047	1.5098066	5.4121	1.4652	4.1514	13.24718
10:24:30				898	8.44331	1.5064237	5.5105	1.4652	4.00488	13.21016
10:24:30				899	8.45121	1.5054583	5.4121	1.41636	4.20024	13.19804
10:24:31				900	8.4572	1.5028822	5.4121	1.4652	4.29792	13.17131

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:31				901	8.46411	1.4930592	5.4121	1.4652	4.29792	13.07539
10:24:32				902	8.46708	1.4901599	5.4121	1.41636	4.29792	13.04675
10:24:32				903	8.46806	1.4899989	5.4121	1.4652	4.49328	13.04486
10:24:33				904	8.47596	1.4882282	5.4121	1.4652	4.34676	13.02513
10:24:33				905	8.47991	1.4848453	5.4121	1.41636	4.44444	12.99157
10:24:34				906	8.47497	1.4824295	5.3137	1.4652	4.1514	12.97048
10:24:34				907	8.46708	1.4806577	5.4121	1.4652	4.29792	12.95654
10:24:35				908	8.46313	1.4803365	5.4121	1.41636	4.24908	12.95494
10:24:35				909	8.45918	1.4809813	5.4121	1.4652	4.54212	12.96251
10:24:36				910	8.45819	1.4796918	5.4121	1.4652	4.3956	12.95063
10:24:36				911	8.46016	1.4804971	5.4121	1.4652	4.44444	12.95755
10:24:37				912	8.45819	1.4814632	5.4121	1.4652	4.34676	12.96744
10:24:37				913	8.45226	1.4832355	5.4121	1.4652	4.24908	12.98645
10:24:38				914	8.45121	1.4833962	5.4121	1.4652	4.59096	12.98836
10:24:38				915	8.44924	1.4832355	5.4121	1.4652	4.34676	12.98756
10:24:39				916	8.44726	1.4832355	5.4121	1.51404	4.54212	12.98828
10:24:39				917	8.44233	1.4837178	5.4121	1.51404	4.24908	12.99468
10:24:40				918	8.44035	1.4825904	5.4121	1.4652	4.49328	12.9847
10:24:40				919	8.43936	1.481787	5.4121	1.51404	4.20024	12.97743
10:24:41				920	8.4364	1.4824297	5.4121	1.51404	4.24908	12.98462
10:24:41				921	8.42948	1.4813027	5.4121	1.4652	4.24908	12.97646
10:24:42				922	8.42356	1.4800155	5.4121	1.51404	4.10256	12.9664
10:24:42				923	8.4196	1.4784053	5.4121	1.4652	4.54212	12.95255
10:24:43				924	8.42158	1.4769562	5.4121	1.4652	4.44444	12.93806
10:24:43				925	8.42454	1.474701	5.5105	1.4652	4.49328	12.91553
10:24:44				926	8.46609	1.472447	5.4121	1.4652	4.54212	12.87899
10:24:44				927	8.51451	1.4719636	5.4121	1.4652	4.3956	12.85679
10:24:45				928	8.51846	1.4743774	5.4121	1.51404	4.1514	12.87822
10:24:45				929	8.49774	1.4774372	5.4121	1.4652	4.34676	12.91477
10:24:46				930	8.47695	1.4756677	5.4121	1.51404	4.10256	12.90558
10:24:46				931	8.46905	1.4766327	5.4121	1.51404	4.34676	12.91762
10:24:47				932	8.47201	1.4771164	5.4121	1.51404	4.59096	12.92113
10:24:47				933	8.46905	1.4837176	5.2153	1.51404	4.54212	12.9849
10:24:48				934	8.47102	1.4858126	5.4121	1.4652	4.3956	13.00402
10:24:48				935	8.46905	1.488711	5.4121	1.4652	4.3956	13.03226
10:24:49				936	8.47497	1.4961172	5.4121	1.4652	4.54212	13.10042
10:24:49				937	8.47991	1.5030412	5.4121	1.4652	4.34676	13.16436
10:24:50				938	8.47695	1.5267149	5.4121	1.4652	4.29792	13.39062
10:24:50				939	8.4572	1.5502303	5.4121	1.4652	4.24908	13.62223
10:24:51				940	8.41466	1.5547396	5.4121	1.4652	4.10256	13.68171
10:24:51				941	8.38891	1.5482977	5.4121	1.4652	4.34676	13.63013
10:24:52				942	8.38792	1.551681	5.4121	1.4652	4.20024	13.66284
10:24:52				943	8.38989	1.549264	5.4121	1.4652	4.05372	13.63898
10:24:53				944	8.39088	1.5478146	5.4121	1.4652	3.95604	13.62475
10:24:53				945	8.43245	1.5355743	5.5105	1.41636	4.1514	13.49193

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:54	10:23:30 @ 6:00	10	180	946	8.46609	1.5326739	5.4121	1.4652	4.20024	13.45148
10:24:54				947	8.48386	1.526232	5.4121	1.4652	3.95604	13.38341
10:24:55				948	8.49872	1.5265546	5.4121	1.4652	3.9072	13.38085
10:24:55				949	8.50859	1.5346086	5.4121	1.4652	3.85836	13.45373
10:24:56				950	8.50169	1.5288093	5.4121	1.4652	3.85836	13.40118
10:24:56				951	8.5007	1.5273602	5.4121	1.4652	4.05372	13.38777
10:24:57				952	8.50366	1.5334806	5.4121	1.4652	3.95604	13.44487
10:24:57				953	8.49971	1.5400831	5.4121	1.4652	3.9072	13.50922
10:24:58				954	8.46905	1.55603	5.4121	1.4652	4.05372	13.67298
10:24:58				955	8.46411	1.5292926	5.4121	1.4652	3.80952	13.42003
10:24:59				956	8.49478	1.5214022	5.4121	1.4652	3.9072	13.33334
10:24:59				957	8.51353	1.5180187	5.4121	1.41636	4.29792	13.29411
10:25:00				958	8.51649	1.5159252	5.4121	1.4652	4.24908	13.27311
10:25:00				959	8.52043	1.5170528	5.4121	1.4652	4.20024	13.28234
10:25:01				960	8.51254	1.5133492	5.4121	1.4652	4.34676	13.25012
10:25:01				961	8.50366	1.5099681	5.4121	1.4652	4.10256	13.22132
10:25:02				962	8.50267	1.5091613	5.4121	1.4652	4.05372	13.21402
10:25:02				963	8.5007	1.4988548	5.4121	1.4652	4.05372	13.11688
10:25:03				964	8.49576	1.5001437	5.4121	1.4652	4.1514	13.13095
10:25:04				967	8.50865	1.4877548	5.4121	1.4652	3.95604	13.00861
10:25:05				968	8.52049	1.4855003	5.4121	1.51404	4.10256	12.98288
10:25:05				969	8.52943	1.4851763	5.4121	1.4652	4.24908	12.97653
10:25:06				970	8.53141	1.4856611	5.4121	1.4652	4.20024	12.9804
10:25:06				971	8.53141	1.4855003	5.4121	1.51404	4.34676	12.97888
10:25:07				972	8.52647	1.4851763	5.4121	1.4652	4.1514	12.97761
10:25:07				973	8.52746	1.4859828	5.4121	1.4652	4.20024	12.9849
10:25:08				974	8.52049	1.4875915	5.4121	1.4652	4.24908	13.00271
10:25:08				975	8.52444	1.4871088	5.4121	1.51404	4.1514	12.99668
10:25:09				976	8.53141	1.4879156	5.4121	1.4652	3.9072	13.00177
10:25:09				977	8.53437	1.4875914	5.3137	1.51404	4.10256	12.99763
10:25:10				978	8.53733	1.4874305	5.4121	1.51404	4.1514	12.995
10:25:10				979	8.53733	1.4898471	5.4121	1.4652	4.34676	13.0179
10:25:11				980	8.54127	1.4893641	5.4121	1.51404	4.1514	13.01187
10:25:11				981	8.5462	1.4904911	5.4121	1.51404	4.10256	13.02074
10:25:12				982	8.54226	1.4921018	5.4121	1.4652	4.10256	13.03746
10:25:12				983	8.52845	1.4904912	5.4121	1.51404	4.24908	13.02727
10:25:13				984	8.51063	1.4908134	5.4121	1.51404	4.05372	13.03689
10:25:13				985	8.49879	1.4916187	5.3137	1.4652	4.10256	13.04892
10:25:14				986	8.48596	1.4930687	5.3137	1.51404	4.34676	13.06742
10:25:14				987	8.47504	1.4938722	5.4121	1.51404	4.34676	13.07907
10:25:15				988	8.4701	1.4956455	5.2153	1.51404	4.54212	13.09778
10:25:15				989	8.45825	1.4964495	5.3137	1.51404	4.59096	13.10979
10:25:16				990	8.4464	1.4969334	5.4121	1.51404	4.44444	13.11877
10:25:16				991	8.43942	1.498383	5.4121	1.4652	4.3956	13.13515
10:25:17				992	8.43547	1.4975763	5.4121	1.51404	4.20024	13.12894

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:25:17				993	8.4335	1.5022482	5.4121	1.51404	4.29792	13.17412
10:25:18				994	8.4335	1.5083671	5.4121	1.4652	4.3956	13.23235
10:25:18				995	8.44337	1.509978	5.4121	1.51404	4.34676	13.24398
10:25:19				996	8.44936	1.5128757	5.5105	1.4652	4.29792	13.26929
10:25:19				997	8.44739	1.5104612	5.4121	1.4652	4.3956	13.24707
10:25:20				998	8.4464	1.5154537	5.4121	1.4652	4.24908	13.29496
10:25:20				999	8.44936	1.5199635	5.4121	1.4652	4.49328	13.33678
10:25:21				1000	8.45726	1.5310752	5.4121	1.4652	4.3956	13.43961
10:25:21				1001	8.46714	1.5624824	5.4121	1.4652	4.34676	13.73529
10:25:22				1002	8.4701	1.5938919	5.4121	1.4652	4.29792	14.03419
10:25:22				1003	8.4414	1.5969542	5.4121	1.4652	4.1514	14.0749
10:25:23				1004	8.39094	1.5996925	5.4121	1.51404	4.00488	14.12127
10:25:23				1005	8.38007	1.6274013	5.4121	1.51404	4.20024	14.39162
10:25:24				1006	8.35034	1.6518893	5.4121	1.41636	4.49328	14.63941
10:25:24				1007	8.29982	1.6665531	5.4121	1.4652	3.9072	14.80191
10:25:25				1008	8.26412	1.7071589	5.4121	1.4652	4.1514	15.20983
10:25:25				1009	8.22542	1.7165063	5.4121	1.41636	4.10256	15.31725
10:25:26				1010	8.18571	1.7356822	5.4121	1.4652	4.24908	15.52097
10:25:26				1011	8.16085	1.7563131	5.4121	1.4652	4.10256	15.7329
10:25:27				1012	8.14101	1.7611478	5.4121	1.41636	3.9072	15.78894
10:25:27				1013	8.13407	1.7614691	5.4121	1.4652	3.80952	15.79519
10:25:28				1014	8.11416	1.7700117	5.4121	1.4652	3.80952	15.88757
10:25:28				1015	8.09331	1.7716245	5.4121	1.41636	3.80952	15.91276
10:25:29				1016	8.08729	1.7687243	5.4121	1.4652	3.85836	15.88714
10:25:29				1017	8.09927	1.7493819	5.4121	1.4652	3.95604	15.69283
10:25:30				1018	8.12011	1.7332662	5.4121	1.41636	3.80952	15.5264
10:25:30				1019	8.15093	1.7227913	5.4121	1.4652	3.95604	15.41085
10:25:31				1020	8.18769	1.6945903	5.4121	1.51404	3.9072	15.12089
10:25:31				1021	8.23632	1.6767042	5.4121	1.41636	4.10256	14.92682
10:25:32				1022	8.29289	1.6821821	5.4121	1.4652	4.05372	14.95581
10:25:32				1023	8.27798	1.6778328	5.4121	1.4652	4.05372	14.92009
10:25:33				1024	8.25916	1.6976527	5.4121	1.41636	3.95604	15.11988
10:25:33				1025	8.276	1.7052254	5.4121	1.4652	4.49328	15.18598
10:25:34				1026	8.28893	1.6894338	5.4121	1.4652	4.20024	15.02761
10:25:34				1027	8.29091	1.6728359	5.5105	1.4652	3.9072	14.86631
10:25:35				1028	8.2919	1.6773489	5.4121	1.4652	3.71184	14.90952
10:25:35				1029	8.27897	1.6826666	5.4121	1.4652	3.80952	14.9664
10:25:36				1030	8.29289	1.6900782	5.4121	1.4652	3.80952	15.03215
10:25:36				1031	8.31071	1.7156996	5.4121	1.51404	3.85836	15.2724
10:25:37				1032	8.2919	1.7337479	5.4121	1.4652	3.85836	15.45547
10:25:37				1033	8.29091	1.7453532	5.4121	1.4652	3.85836	15.56849
10:25:38				1034	8.27798	1.7345551	5.4121	1.4652	3.76068	15.46941
10:25:38				1035	8.25421	1.7516373	5.5105	1.51404	3.9072	15.64575
10:25:39				1036	8.21848	1.7879019	5.4121	1.4652	3.80952	16.01485
10:25:39				1037	8.1678	1.8162717	5.4121	1.51404	3.663	16.31517

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:25:40				1038	8.14697	1.8459331	5.4121	1.51404	3.56532	16.61538
10:25:40				1039	8.12607	1.8604423	5.3137	1.51404	3.51648	16.76768
10:25:41				1040	8.08729	1.8855949	5.4121	1.51404	3.51648	17.03359
10:25:41				1041	8.01868	1.9268723	5.5105	1.51404	3.46764	17.4745
10:25:42				1042	7.94794	1.9342887	5.4121	1.4652	3.61416	17.5833
10:25:42				1043	7.92698	1.9394507	5.5105	1.4652	3.46764	17.64499
10:25:43				1044	7.89605	1.9360634	5.4121	1.51404	3.46764	17.62698
10:25:43				1045	7.86511	1.952511	5.4121	1.51404	3.27228	17.80606
10:25:44				1046	7.85415	1.9639616	5.4121	1.4652	3.4188	17.92559
10:25:44				1047	7.82619	1.9687985	5.4121	1.51404	3.36996	17.98812
10:25:45				1048	7.83622	1.964607	5.4121	1.51404	3.32112	17.94121
10:25:45				1049	7.84519	1.9488032	5.4121	1.4652	3.32112	17.77932
10:25:46				1050	7.85615	1.9196156	5.4121	1.51404	3.51648	17.48371
10:25:46				1051	7.87414	1.9117151	5.4121	1.51404	3.4188	17.39634
10:25:47				1052	7.90807	1.9013975	5.4121	1.4652	3.71184	17.27728
10:25:47				1053	7.93196	1.8917225	5.4121	1.51404	3.76068	17.16977
10:25:48				1054	7.92599	1.8952684	5.4121	1.4652	3.61416	17.20778
10:25:48				1055	7.91603	1.9015566	5.5105	1.4652	3.46764	17.2749
10:25:49				1056	7.89307	1.9057501	5.4121	1.51404	3.36996	17.32781
10:25:49				1057	7.85515	1.9230018	5.4121	1.51404	3.27228	17.51783
10:25:50				1058	7.83223	1.9204228	5.5105	1.4652	3.32112	17.50366
10:25:50				1059	7.81721	1.9225197	5.4121	1.4652	3.32112	17.53205
10:25:51				1060	7.82619	1.9333224	5.4121	1.4652	3.27228	17.63495
10:25:51				1061	7.83123	1.9233245	5.5105	1.4652	3.36996	17.53299
10:25:52				1062	7.83422	1.910426	5.5105	1.4652	3.46764	17.40337
10:25:52				1063	7.86717	1.8959152	5.5105	1.51404	3.663	17.2431
10:25:53				1064	7.89904	1.9112311	5.4121	1.4652	3.4188	17.37917
10:25:53				1065	7.922	1.8957532	5.5105	1.4652	3.46764	17.21451
10:25:54				1066	7.93096	1.8810803	5.4121	1.4652	3.4188	17.06503
10:25:54				1067	7.93693	1.8617345	5.4121	1.4652	3.76068	16.87103
10:25:55				1068	7.94794	1.8343277	5.5105	1.4652	3.51648	16.59545
10:25:55				1069	7.96784	1.8212709	5.5105	1.4652	3.56532	16.4575
10:25:56				1070	7.9868	1.8162728	5.5105	1.4652	3.61416	16.39946
10:25:56				1071	8.01669	1.7996707	5.4121	1.4652	3.56532	16.22252
10:25:57				1072	8.03359	1.804507	5.5105	1.4652	3.95604	16.26213
10:25:57				1073	8.03557	1.8070857	5.4121	1.4652	4.05372	16.28653
10:25:58				1074	8.04253	1.812081	5.4121	1.4652	4.10256	16.33232
10:25:58				1075	8.05048	1.7982186	5.5105	1.4652	4.05372	16.19265
10:25:59				1076	8.06445	1.7769433	5.4121	1.4652	3.80952	15.97789
10:25:59				1077	8.08928	1.7672723	5.4121	1.4652	3.80952	15.87205
10:26:00				1078	8.13903	1.7625977	5.5105	1.4652	4.10256	15.80395
10:26:00				1079	8.18472	1.7132826	5.4121	1.4652	4.00488	15.30365
10:26:01				1080	8.17678	1.7298811	5.4121	1.4652	3.76068	15.46847
10:26:01				1081	8.13407	1.7308486	5.5105	1.4652	3.71184	15.49667
10:26:02				1082	8.13208	1.7235965	5.5105	1.4652	4.00488	15.42693

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:26:02				1083	8.16879	1.7068371	5.5105	1.4652	4.10256	15.24793
10:26:03				1084	8.21947	1.6866956	5.5105	1.4652	3.80952	15.03071
10:26:04				1087	8.37408	1.5465438	5.4121	1.4652	4.1514	13.61909
10:26:05				1088	8.42257	1.5320472	5.5105	1.4652	4.10256	13.46206
10:26:05				1089	8.4572	1.5434838	5.4121	1.4652	4.34676	13.55789
10:26:06				1090	8.46708	1.523191	5.5105	1.4652	3.9072	13.36079
10:26:06				1091	8.47997	1.5341419	5.4121	1.4652	3.85836	13.46018
10:26:07				1092	8.48787	1.5075676	5.3137	1.4652	4.10256	13.20443
10:26:07				1093	8.48984	1.5149769	5.3137	1.4652	3.95604	13.27412
10:26:08				1094	8.50267	1.5151365	5.4121	1.4652	3.95604	13.2708
10:26:08				1095	8.50859	1.5230284	5.4121	1.4652	4.00488	13.34359
10:26:09				1096	8.50465	1.5188419	5.4121	1.51404	4.05372	13.30528
10:26:09				1097	8.50465	1.5217414	5.3137	1.51404	3.95604	13.33286
10:26:10				1098	8.50563	1.544127	5.4121	1.4652	4.00488	13.54546
10:26:10				1099	8.50563	1.5705424	5.4121	1.51404	3.95604	13.7972
10:26:11				1100	8.49675	1.5508917	5.4121	1.51404	4.10256	13.6133
10:26:11				1101	8.49774	1.5259287	5.4121	1.4652	3.9072	13.37527
10:26:12				1102	8.5007	1.5265716	5.4121	1.51404	3.85836	13.38027
10:26:12				1103	8.50859	1.519486	5.4121	1.51404	4.10256	13.30991
10:26:13				1104	8.51155	1.5186796	5.4121	1.51404	4.34676	13.30114
10:26:13				1105	8.51155	1.5167479	5.4121	1.51404	4.29792	13.28278
10:26:14				1106	8.51457	1.5157824	5.5105	1.51404	4.00488	13.27245
10:26:14				1107	8.51457	1.5135257	5.4121	1.4652	3.9072	13.25103
10:26:15				1108	8.51457	1.5122395	5.4121	1.51404	4.00488	13.23881
10:26:15				1109	8.51457	1.5111109	5.4121	1.51404	4.10256	13.22809
10:26:16				1110	8.51655	1.5123991	5.4121	1.4652	4.1514	13.23959
10:26:16				1111	8.51753	1.5117561	5.4121	1.51404	4.05372	13.23311
10:26:17				1112	8.51655	1.5119156	5.5105	1.51404	3.71184	13.23498
10:26:17				1113	8.51057	1.5117561	5.4121	1.4652	3.95604	13.23572
10:26:18				1114	8.50958	1.5117561	5.4121	1.4652	3.85836	13.23609
10:26:18				1115	8.50958	1.5122396	5.4121	1.4652	3.80952	13.24068
10:26:19				1116	8.50859	1.5122396	5.4121	1.4652	4.05372	13.24105
10:26:19				1117	8.50859	1.5112728	5.5105	1.4652	3.85836	13.23185
10:26:20				1118	8.50366	1.5096613	5.5105	1.4652	3.9072	13.21838
10:26:20				1119	8.50267	1.508857	5.4121	1.41636	3.85836	13.21113
10:26:21				1120	8.49774	1.508374	5.4121	1.4652	4.05372	13.20839
10:26:21				1121	8.49379	1.5077293	5.4121	1.4652	4.1514	13.20373
10:26:22				1122	8.48491	1.5088571	5.4121	1.41636	4.34676	13.21777
10:26:22				1123	8.48787	1.5078912	5.5105	1.4652	4.1514	13.20746
10:26:23				1124	8.49379	1.5078911	5.5105	1.4652	3.9072	13.20525
10:26:23	10:24:59 end transect	10	270	1125	8.49379	1.5077293	5.4121	1.41636	4.49328	13.20373
10:26:24				1126	8.49774	1.5077293	5.5105	1.4652	4.20024	13.20224
10:26:24				1127	8.50366	1.508374	5.5105	1.4652	4.1514	13.20615
10:26:25				1128	8.50465	1.5085334	5.5105	1.41636	4.05372	13.2073
10:26:25				1129	8.50761	1.5086952	5.5105	1.4652	3.85836	13.20773

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:26:26				1130	8.50761	1.507891	5.4121	1.4652	4.00488	13.20011
10:26:26				1131	8.49576	1.5075676	5.5105	1.41636	3.85836	13.20144
10:26:27				1132	8.48096	1.5064404	5.5105	1.4652	4.1514	13.19626
10:26:27				1133	8.47898	1.5024143	5.5105	1.4652	4.00488	13.15873
10:26:28				1134	8.46708	1.5104684	5.5105	1.4652	4.3956	13.23974
10:26:28				1135	8.45918	1.5088572	5.6089	1.4652	4.34676	13.22736
10:26:29				1136	8.46016	1.5114326	5.6089	1.4652	4.20024	13.25148
10:26:29				1137	8.46016	1.5128829	5.7073	1.4652	4.20024	13.26526
10:26:30				1138	8.46806	1.5119159	5.8056	1.51404	4.34676	13.25308
10:26:30				1139	8.47306	1.514815	5.8056	1.4652	4.20024	13.27878
10:26:31				1140	8.47898	1.5220615	5.904	1.4652	4.29792	13.34546
10:26:31				1141	8.49675	1.5259288	6.0024	1.4652	4.00488	13.37552
10:26:32				1142	8.50563	1.5206124	6.0024	1.51404	3.9072	13.32161
10:26:32				1143	8.50465	1.5599118	6.1008	1.4652	4.10256	13.69607
10:26:33				1144	8.49182	1.5357517	6.1992	1.51404	4.3956	13.47083
10:26:33				1145	8.48293	1.5383282	6.2976	1.51404	3.9072	13.49873
10:26:34				1146	8.47306	1.5415494	6.2976	1.4652	4.00488	13.53319
10:26:34				1147	8.47602	1.5315636	6.3959	1.51404	3.95604	13.43693
10:26:35				1148	8.48688	1.5204527	6.3959	1.51404	3.663	13.32708
10:26:35				1149	8.49478	1.7439056	6.3959	1.51404	4.05372	15.46465
10:26:36				1150	8.47898	1.7111925	6.4943	1.4652	4.05372	15.15611
10:26:36				1151	8.40874	1.6436785	6.5927	1.51404	3.85836	14.53602
10:26:37				1152	8.40182	1.7070035	6.5927	1.51404	3.95604	15.14879
10:26:37				1153	8.35826	1.8483565	6.5927	1.51404	3.85836	16.53933
10:26:38				1154	8.19364	1.9125243	6.6911	1.51404	4.05372	17.24629
10:26:38				1155	8.06141	2.0988043	6.9862	1.51404	3.80952	19.15897
10:26:39				1156	7.93494	2.1617256	6.9862	1.4652	3.663	19.85894
10:26:39				1157	7.70127	2.1630179	7.0846	1.4652	3.27228	20.00514
10:26:40				1158	7.68922	2.190769	7.183	1.4652	3.1746	20.29289
10:26:40				1159	7.4597	2.2114252	7.2814	1.4652	2.9304	20.63778
10:26:41				1160	7.29781	2.224983	7.3798	1.51404	3.02808	20.87332
10:26:41				1161	7.25754	2.1991628	7.4781	1.4652	2.97924	20.63246
10:26:42				1162	7.22228	2.1946448	7.4781	1.4652	2.88156	20.60708
10:26:42				1163	7.21724	2.1954535	7.4781	1.4652	3.02808	20.61838
10:26:43				1164	7.2767	2.2019071	7.4781	1.51404	2.88156	20.64919
10:26:43				1165	7.32198	2.1941624	7.5765	1.4652	2.88156	20.5429
10:26:44				1166	7.34113	2.168991	7.5765	1.4652	2.83272	20.27417
10:26:44				1167	7.31897	2.1602773	7.5765	1.4652	2.9304	20.19805
10:26:45				1168	7.34113	2.1791548	7.4781	1.4652	2.6862	20.37809
10:26:45				1169	7.33102	2.1794779	7.4781	1.4652	2.83272	20.38733
10:26:46				1170	7.30289	2.1802844	7.5765	1.4652	2.97924	20.4121
10:26:46				1171	7.29278	2.1857716	7.4781	1.4652	2.88156	20.47428
10:26:47				1172	7.32801	2.1857713	7.4781	1.4652	2.9304	20.45348
10:26:47				1173	7.35217	2.187383	7.4781	1.4652	2.88156	20.45572
10:26:48				1174	7.30591	2.2225606	7.4781	1.4652	2.88156	20.84356

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:26:48				1175	7.26357	2.2040039	7.5765	1.4652	2.88156	20.6785
10:26:49				1176	7.24346	2.1936784	7.5765	1.4652	2.58852	20.58453
10:26:49				1177	7.23642	2.1954534	7.5765	1.4652	2.83272	20.60693
10:26:50				1178	7.23541	2.2102992	7.4781	1.4652	2.78388	20.76001
10:26:50				1179	7.22932	2.2251451	7.4781	1.51404	2.53968	20.91626
10:26:51				1180	7.22228	2.2438628	7.4781	1.4652	2.9304	21.11313
10:26:51				1181	7.20215	2.2349884	7.4781	1.4652	2.83272	21.03401
10:26:52				1182	7.18599	2.2285331	7.5765	1.4652	2.58852	20.97732
10:26:52				1183	7.18095	2.2391838	7.5765	1.51404	2.6862	21.0901
10:26:53				1184	7.18196	2.2212728	7.5765	1.4652	2.9304	20.90501
10:26:53				1185	7.19505	2.2251453	7.4781	1.51404	2.9304	20.93699
10:26:54				1186	7.18297	2.2265966	7.4781	1.51404	2.63736	20.95924
10:26:54	10:25:30 start transect	10	270	1187	7.17894	2.2401529	7.4781	1.51404	2.78388	21.10134
10:26:55				1188	7.15874	2.2459626	7.4781	1.51404	2.97924	21.17359
10:26:55				1189	7.14968	2.2293416	7.5765	1.51404	2.83272	21.00769
10:26:56				1190	7.15169	2.2154625	7.4781	1.4652	2.73504	20.86348
10:26:56				1191	7.18498	2.2282098	7.4781	1.51404	2.73504	20.97463
10:26:57				1192	7.17592	2.2417675	7.3798	1.51404	2.88156	21.11986
10:26:57				1193	7.12443	2.2717837	7.4781	1.4652	2.83272	21.46142
10:26:58				1194	7.08507	2.3008345	7.4781	1.51404	2.73504	21.78684
10:26:58				1195	7.05173	2.2732369	7.4781	1.51404	2.6862	21.5217
10:26:59				1196	7.0639	2.2662974	7.3798	1.4652	2.73504	21.44228
10:26:59				1197	7.05986	2.2533861	7.3798	1.51404	2.73504	21.31112
10:27:00				1198	7.07297	2.2474145	7.3798	1.51404	2.83272	21.24126
10:27:00				1199	7.09313	2.2349891	7.3798	1.4652	2.9304	21.10048
10:27:01				1200	7.10428	2.2327295	7.3798	1.4652	2.73504	21.07034
10:27:01				1201	7.11033	2.2277283	7.3798	1.4652	2.73504	21.01503
10:27:02				1202	7.11637	2.2346653	7.3798	1.4652	2.78388	21.08295
10:27:02				1203	7.12343	2.2298239	7.3798	1.51404	3.02808	21.02869
10:27:03				1204	7.1204	2.2238537	7.3798	1.4652	2.9304	20.96894
10:27:04				1207	7.11524	2.2462133	7.4781	1.4652	2.9304	21.20284
10:27:05				1208	7.10919	2.224106	7.4781	1.41636	2.73504	20.97831
10:27:05				1209	7.092	2.2310469	7.4781	1.51404	2.78388	21.06042
10:27:06				1210	7.08797	2.2717125	7.4781	1.4652	2.73504	21.48335
10:27:06				1211	7.07688	2.2918873	7.4781	1.41636	2.63736	21.69925
10:27:07				1212	7.07486	2.2391136	7.4781	1.4652	2.63736	21.15424
10:27:07				1213	7.07083	2.2336266	7.4781	1.4652	2.53968	21.1
10:27:08				1214	7.07486	2.2541211	7.4781	1.41636	2.63736	21.30943
10:27:08				1215	7.0668	2.274295	7.4781	1.4652	2.97924	21.52327
10:27:09				1216	7.06579	2.2484734	7.4781	1.4652	2.58852	21.2566
10:27:09				1217	7.06068	2.2479895	7.4781	1.41636	2.49084	21.25474
10:27:10				1218	7.06068	2.2567036	7.3798	1.4652	2.49084	21.34495
10:27:10				1219	7.06881	2.2670315	7.3798	1.4652	2.58852	21.44683
10:27:11				1220	7.07285	2.24573	7.4781	1.41636	2.6862	21.22388
10:27:11				1221	7.05766	2.2463759	7.4781	1.4652	2.49084	21.23991

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:12				1222	7.06068	2.2544461	7.4781	1.51404	2.63736	21.32155
10:27:12				1223	7.07486	2.241211	7.3798	1.4652	2.58852	21.17596
10:27:13				1224	7.06881	2.235242	7.4781	1.4652	2.53968	21.11793
10:27:13				1225	7.0678	2.2384686	7.3798	1.51404	2.63736	21.15193
10:27:14				1226	7.08595	2.2552525	7.3798	1.51404	2.73504	21.31432
10:27:14				1227	7.09912	2.2433091	7.4781	1.51404	2.78388	21.18273
10:27:15				1228	7.08696	2.2250752	7.4781	1.51404	2.53968	21.00183
10:27:15				1229	7.06982	2.235242	7.3798	1.51404	2.58852	21.11734
10:27:16				1230	7.08192	2.2484733	7.4781	1.4652	2.78388	21.24667
10:27:16				1231	7.08293	2.2646124	7.4781	1.51404	2.78388	21.41299
10:27:17				1232	7.08595	2.2347564	7.3798	1.4652	2.58852	21.10246
10:27:17				1233	7.07184	2.2392755	7.4781	1.4652	2.63736	21.15777
10:27:18				1234	7.07486	2.2487978	7.3798	1.4652	2.6862	21.2544
10:27:18				1235	7.0799	2.2268496	7.4781	1.4652	2.83272	21.02445
10:27:19				1236	7.09912	2.220557	7.3798	1.4652	2.6862	20.94784
10:27:19				1237	7.11423	2.2186205	7.4781	1.4652	2.78388	20.91867
10:27:20				1238	7.12129	2.21281	7.3798	1.4652	2.63736	20.85453
10:27:20				1239	7.12532	2.2108737	7.3798	1.4652	2.6862	20.83214
10:27:21				1240	7.13344	2.211682	7.3798	1.4652	2.83272	20.83557
10:27:21				1241	7.14552	2.2086159	7.3798	1.4652	2.83272	20.79671
10:27:22				1242	7.15056	2.2032906	7.3798	1.4652	2.9304	20.73886
10:27:22				1243	7.15358	2.2011914	7.3798	1.4652	3.02808	20.71544
10:27:23				1244	7.15962	2.200709	7.3798	1.4652	2.88156	20.70685
10:27:23				1245	7.16365	2.2000631	7.3798	1.4652	2.88156	20.6978
10:27:24				1246	7.16566	2.1978045	7.3798	1.4652	2.83272	20.67336
10:27:24	10:26:00 @ 6:00			1247	7.16667	2.1969983	7.3798	1.4652	2.9304	20.66446
10:27:25				1248	7.16975	2.1969982	7.3798	1.4652	2.97924	20.66262
10:27:25				1249	7.17177	2.1961893	7.3798	1.4652	2.97924	20.6531
10:27:26				1250	7.17479	2.1961893	7.3798	1.51404	2.9304	20.6513
10:27:26				1251	7.17479	2.1963528	7.3798	1.51404	2.88156	20.65298
10:27:27				1252	7.1758	2.1952227	7.3798	1.4652	2.9304	20.64076
10:27:27				1253	7.1758	2.195544	7.3798	1.51404	2.78388	20.64406
10:27:28				1254	7.17479	2.1971589	7.3798	1.51404	2.9304	20.66127
10:27:28				1255	7.17781	2.1971588	7.3798	1.4652	2.88156	20.65946
10:27:29				1256	7.18083	2.1968347	7.3798	1.51404	2.88156	20.65432
10:27:29				1257	7.18083	2.1961893	7.3798	1.51404	2.73504	20.64769
10:27:30				1258	7.1768	2.2021617	7.3798	1.4652	2.83272	20.71151
10:27:30				1259	7.1758	2.2016765	7.3798	1.4652	2.83272	20.70713
10:27:31				1260	7.1758	2.1999022	7.3798	1.4652	2.83272	20.68888
10:27:31				1261	7.16566	2.2028051	7.3798	1.4652	2.83272	20.7248
10:27:32				1262	7.15257	2.2026444	7.3798	1.4652	2.83272	20.731
10:27:32				1263	7.14855	2.2055488	7.3798	1.4652	2.88156	20.76331
10:27:33				1264	7.15056	2.2028052	7.3798	1.41636	2.88156	20.73386
10:27:33				1265	7.15257	2.2018374	7.3798	1.4652	2.9304	20.72269
10:27:34				1266	7.14653	2.2026444	7.3798	1.4652	2.88156	20.73462

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:34				1267	7.14351	2.2060345	7.3798	1.41636	2.9304	20.77134
10:27:35				1268	7.14653	2.2097459	7.2814	1.4652	2.9304	20.80778
10:27:35				1269	7.15157	2.2108734	7.2814	1.4652	2.9304	20.81636
10:27:36				1270	7.14653	2.2057097	7.3798	1.4652	2.88156	20.76618
10:27:36				1271	7.13545	2.2103903	7.3798	1.51404	2.83272	20.82105
10:27:37				1272	7.12935	2.2128099	7.3798	1.51404	2.83272	20.84967
10:27:37				1273	7.13237	2.2128099	7.3798	1.4652	2.83272	20.84784
10:27:38				1274	7.13847	2.2144245	7.3798	1.4652	2.88156	20.8608
10:27:38				1275	7.12229	2.2155532	7.3798	1.51404	2.97924	20.8822
10:27:39				1276	7.12129	2.2166848	7.3798	1.4652	2.88156	20.89448
10:27:39				1277	7.12632	2.2184591	7.2814	1.4652	2.83272	20.90975
10:27:40				1278	7.12129	2.2186204	7.3798	1.4652	3.02808	20.91443
10:27:40				1279	7.11222	2.2181365	7.3798	1.4652	3.12576	20.91493
10:27:41				1280	7.11625	2.2257212	7.3798	1.4652	2.88156	20.99073
10:27:41				1281	7.11524	2.2381444	7.3798	1.4652	2.73504	21.11955
10:27:42				1282	7.11222	2.2386302	7.3798	1.4652	2.88156	21.12642
10:27:42				1283	7.10113	2.2521864	7.3798	1.4652	2.97924	21.27326
10:27:43				1284	7.09401	2.2597691	7.3798	1.4652	2.6862	21.35605
10:27:43				1285	7.06478	2.2565439	7.3798	1.4652	2.63736	21.34076
10:27:44				1286	7.03244	2.2704207	7.3798	1.4652	2.83272	21.50457
10:27:44				1287	7.02632	2.3209378	7.3798	1.4652	2.78388	22.03287
10:27:45				1288	7.01522	2.3133517	7.3798	1.4652	2.63736	21.96109
10:27:45				1289	7.02128	2.28866	7.3798	1.51404	2.6862	21.70076
10:27:46				1290	7.00412	2.3080267	7.3798	1.4652	2.58852	21.91279
10:27:46				1291	6.99094	2.3159342	7.3798	1.51404	2.53968	22.00342
10:27:47				1292	6.99195	2.3227158	7.3798	1.4652	2.73504	22.07335
10:27:47				1293	6.98791	2.3228746	7.3798	1.4652	2.73504	22.07759
10:27:48				1294	6.98589	2.3244913	7.3798	1.51404	2.53968	22.09571
10:27:48				1295	6.98185	2.3243296	7.3798	1.51404	2.58852	22.09661
10:27:49				1296	6.9768	2.3249736	7.3798	1.41636	2.39316	22.10656
10:27:49				1297	6.97377	2.3264262	7.3798	1.4652	2.58852	22.12363
10:27:50				1298	6.96973	2.3341755	7.3798	1.4652	2.39316	22.20696
10:27:50				1299	6.96973	2.3574197	7.3798	1.41636	2.78388	22.44933
10:27:51				1300	6.9657	2.3382091	7.3798	1.4652	2.58852	22.2516
10:27:51				1301	6.95755	2.3377258	7.2814	1.51404	2.63736	22.25185
10:27:52				1302	6.94341	2.3332068	7.3798	1.4652	2.49084	22.21383
10:27:52				1303	6.93836	2.3364352	7.3798	1.4652	2.49084	22.25076
10:27:53				1304	6.93533	2.396807	7.3798	1.51404	2.53968	22.88353
10:27:53				1305	6.88264	2.4003573	7.3798	1.51404	2.442	22.95579
10:27:54				1306	6.87658	2.3577429	7.4781	1.4652	2.58852	22.51348
10:27:54				1307	6.84718	2.3496703	7.3798	1.51404	2.39316	22.44825
10:27:55				1308	6.83807	2.3751744	7.3798	1.4652	2.34432	22.72138
10:27:55				1309	6.82998	2.463647	7.3798	1.4652	2.39316	23.65655
10:27:56				1310	6.79038	2.451859	7.3798	1.4652	2.24664	23.55955
10:27:56				1311	6.77721	2.4260291	7.3798	1.4652	2.24664	23.29642

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:57				1312	6.76607	2.4263498	7.3798	1.4652	2.00244	23.30735
10:27:57				1313	6.7427	2.4286121	7.3798	1.4652	2.00244	23.34706
10:27:58				1314	6.73257	2.4604188	7.4781	1.4652	2.14896	23.68959
10:27:58				1315	6.70717	2.462677	7.4781	1.4652	2.14896	23.731
10:27:59				1316	6.68378	2.4529915	7.4781	1.4652	2.14896	23.64475
10:27:59				1317	6.63705	2.4591267	7.4781	1.51404	2.34432	23.74197
10:28:00				1318	6.62176	2.4822144	7.3798	1.51404	2.442	23.99737
10:28:00				1319	6.61668	2.5106342	7.3798	1.4652	2.1978	24.30267
10:28:01				1320	6.61364	2.494003	7.3798	1.51404	2.1978	24.12818
10:28:01				1321	6.60247	2.4796311	7.4781	1.4652	2.14896	23.98343
10:28:02				1322	6.576	2.4720452	7.4781	1.4652	1.90476	23.92143
10:28:02				1323	6.57701	2.479471	7.4781	1.4652	1.9536	23.99957
10:28:03				1324	6.5892	2.4862524	7.3798	1.4652	1.9536	24.06307
10:28:04				1327	6.58819	2.5026228	7.4781	1.51404	2.00244	24.23769
10:28:05				1328	6.58616	2.5037526	7.4781	1.4652	2.1978	24.25113
10:28:05				1329	6.57905	2.4956792	7.4781	1.4652	1.9536	24.17034
10:28:06				1330	6.56787	2.4916438	7.4781	1.4652	2.05128	24.13533
10:28:06				1331	6.56787	2.49584	7.3798	1.51404	1.9536	24.17998
10:28:07				1332	6.57498	2.4884138	7.4781	1.4652	2.00244	24.09599
10:28:07				1333	6.5699	2.4824405	7.4781	1.4652	2.00244	24.0361
10:28:08				1334	6.57092	2.4950332	7.3798	1.4652	1.9536	24.16925
10:28:08				1335	6.55866	2.4997176	7.3798	1.4652	1.90476	24.22773
10:28:09				1336	6.56069	2.480825	7.4781	1.4652	1.9536	24.0254
10:28:09				1337	6.54139	2.4816329	7.4781	1.4652	2.00244	24.04755
10:28:10				1338	6.53116	2.4830854	7.4781	1.4652	1.90476	24.07019
10:28:10				1339	6.53834	2.491644	7.3798	1.51404	2.05128	24.15621
10:28:11				1340	6.54444	2.4871208	7.4781	1.51404	2.05128	24.10376
10:28:11				1341	6.55155	2.4837299	7.4781	1.51404	2.05128	24.0627
10:28:12				1342	6.56273	2.4777555	7.4781	1.4652	2.24664	23.99136
10:28:12				1343	6.576	2.4730741	7.4781	1.51404	2.10012	23.93235
10:28:13				1344	6.58819	2.4696826	7.3798	1.51404	2.10012	23.88788
10:28:13				1345	6.5953	2.4680676	7.4781	1.4652	2.10012	23.86575
10:28:14				1346	6.59631	2.4675847	7.4781	1.4652	2.39316	23.85992
10:28:14				1347	6.59942	2.4675847	7.4781	1.4652	2.24664	23.85775
10:28:15				1348	6.59942	2.4708147	7.4781	1.41636	2.14896	23.89201
10:28:15				1349	6.60348	2.4753339	7.4781	1.51404	2.05128	23.93712
10:28:16				1350	6.60348	2.4824403	7.4781	1.51404	2.10012	24.01254
10:28:16				1351	6.60856	2.4754971	7.4781	1.4652	2.10012	23.93531
10:28:17				1352	6.61059	2.4780786	7.4781	1.51404	2.10012	23.96127
10:28:17				1353	6.61262	2.483569	7.4781	1.51404	2.00244	24.01811
10:28:18				1354	6.61161	2.4795331	7.4781	1.4652	2.10012	23.976
10:28:18				1355	6.61567	2.4708146	7.4781	1.4652	2.05128	23.88068
10:28:19				1356	6.61059	2.4679075	7.4781	1.4652	2.00244	23.85339
10:28:19				1357	6.61567	2.4700054	7.4781	1.4652	2.05128	23.8721
10:28:20				1358	6.62074	2.4648389	7.4781	1.4652	2.24664	23.8138

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:20				1359	6.62277	2.4648389	7.4781	1.4652	2.10012	23.81239
10:28:21				1360	6.6248	2.4716209	7.4781	1.4652	2.1978	23.88286
10:28:21				1361	6.62379	2.4708146	7.4781	1.51404	2.10012	23.87502
10:28:22				1362	6.61668	2.464679	7.4781	1.4652	2.00244	23.81493
10:28:22				1363	6.60958	2.4712979	7.4781	1.51404	1.9536	23.89006
10:28:23				1364	6.60958	2.4813087	7.4781	1.51404	2.05128	23.99626
10:28:23				1365	6.6177	2.4801773	7.4781	1.4652	1.85592	23.97857
10:28:24				1366	6.62074	2.4764642	7.4781	1.4652	1.85592	23.93705
10:28:24				1367	6.61973	2.4753338	7.4781	1.4652	2.00244	23.92577
10:28:25				1368	6.61668	2.4843771	7.4781	1.41636	1.90476	24.02384
10:28:25				1369	6.61668	2.476304	7.5765	1.4652	1.80708	23.93815
10:28:26				1370	6.61161	2.4669388	7.4781	1.4652	1.90476	23.84242
10:28:26				1371	6.59631	2.4706517	7.4781	1.51404	1.85592	23.89245
10:28:27				1372	6.60247	2.4793699	7.4781	1.51404	1.9536	23.98066
10:28:27				1373	6.60551	2.4792096	7.4781	1.51404	1.9536	23.97683
10:28:28				1374	6.60551	2.4721043	7.4781	1.51404	2.10012	23.90144
10:28:28				1375	6.60247	2.4727507	7.4781	1.4652	1.85592	23.91043
10:28:29				1376	6.60247	2.480501	7.4781	1.4652	1.9536	23.99267
10:28:29				1377	6.6045	2.4698455	7.4781	1.4652	1.90476	23.87819
10:28:30				1378	6.61364	2.4638708	7.4781	1.4652	1.9536	23.80848
10:28:30				1379	6.62379	2.4590262	7.3798	1.4652	1.9536	23.75013
10:28:31				1380	6.63603	2.4646789	7.3798	1.51404	2.10012	23.80152
10:28:31				1381	6.64415	2.4646788	7.3798	1.51404	2.10012	23.79588
10:28:32				1382	6.63806	2.4666157	7.3798	1.4652	2.05128	23.82063
10:28:32				1383	6.634	2.4651615	7.3798	1.4652	2.00244	23.80804
10:28:33				1384	6.634	2.4619317	7.3798	1.51404	2.10012	23.77382
10:28:33				1385	6.63908	2.459671	7.3798	1.4652	2.00244	23.74636
10:28:34				1386	6.64618	2.4520847	7.3798	1.4652	2.10012	23.66113
10:28:34				1387	6.67161	2.4486938	7.3798	1.4652	2.442	23.60773
10:28:35				1388	6.69088	2.4515998	7.4781	1.4652	2.29548	23.62515
10:28:35				1389	6.69494	2.454342	7.4781	1.51404	2.1978	23.65134
10:28:36				1390	6.69088	2.4422338	7.4781	1.51404	2.05128	23.52617
10:28:36				1391	6.70007	2.4367447	7.4781	1.4652	2.1978	23.4619
10:28:37				1392	6.70818	2.438843	7.4781	1.4652	2.05128	23.47851
10:28:37				1393	6.70919	2.4398128	7.4781	1.4652	2.14896	23.48805
10:28:38				1394	6.70818	2.4307724	7.4781	1.4652	2.29548	23.39332
10:28:38				1395	6.71933	2.4317407	7.4781	1.4652	2.14896	23.39593
10:28:39				1396	6.73156	2.4367445	7.3798	1.4652	2.1978	23.44042
10:28:39				1397	6.71832	2.428833	7.4781	1.51404	2.29548	23.36595
10:28:40				1398	6.72339	2.4233452	7.4781	1.51404	2.49084	23.30462
10:28:40				1399	6.72845	2.4241506	7.4781	1.4652	2.34432	23.30968
10:28:41				1400	6.73358	2.4725895	7.4781	1.4652	2.29548	23.81747
10:28:41				1401	6.72034	2.4763032	7.4781	1.51404	2.1978	23.86592
10:28:42				1402	6.71224	2.4454641	7.5765	1.4652	2.34432	23.54561
10:28:42				1403	6.7244	2.4328683	7.4781	1.4652	2.14896	23.40438

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:43				1404	6.74068	2.4307721	7.4781	1.51404	2.29548	23.37118
10:28:43				1405	6.7346	2.4596702	7.4781	1.51404	2.14896	23.68028
10:28:44				1406	6.70007	2.4816317	7.5765	1.51404	2.29548	23.93638
10:28:44				1407	6.6543	2.4612865	7.6749	1.4652	2.00244	23.75281
10:28:45				1408	6.65836	2.4501468	7.5765	1.4652	2.1978	23.63215
10:28:45				1409	6.68175	2.4517595	7.6749	1.4652	2.00244	23.63305
10:28:46				1410	6.69905	2.4498216	7.5765	1.4652	2.05128	23.60069
10:28:46				1411	6.67567	2.4249596	7.5765	1.4652	2.10012	23.35407
10:28:47				1412	6.71021	2.4084912	7.5765	1.4652	2.1978	23.15691
10:28:47				1413	6.78329	2.406553	7.2814	1.4652	2.05128	23.0874
10:28:48				1414	6.86343	2.2829078	7.0846	1.51404	2.1978	21.74054
10:28:48				1415	6.96058	2.2574056	6.7895	1.51404	2.29548	21.41446
10:28:49				1416	7.10214	2.2259365	6.3959	1.4652	2.6862	21.00184
10:28:49				1417	7.13747	2.1997951	6.1992	1.4652	2.63736	20.7111
10:28:50				1418	7.1415	2.1967304	6.1008	1.4652	2.9304	20.67717
10:28:50	10:2726 end transect	10	90	1419	7.15056	2.1985035	6.0024	1.4652	2.83272	20.69002
10:28:51				1420	7.20404	2.0686293	5.7073	1.51404	2.83272	19.32832
10:28:51				1421	7.51575	1.7637224	5.4121	1.51404	2.88156	16.09935
10:28:52				1422	7.97866	1.7397069	5.0186	1.51404	3.32112	15.65222
10:28:52				1423	8.28677	1.558129	4.6251	1.4652	3.80952	13.76407
10:28:53				1424	8.46695	1.5653754	4.2315	1.4652	3.95604	13.76322
10:28:53				1425	8.63385	1.4384772	3.9364	1.4652	4.00488	12.49805
10:28:54				1426	8.88784	1.2622329	3.5428	1.4652	4.20024	10.77138
10:28:54				1427	9.13012	0.993664	3.1493	1.4652	4.93284	8.26318
10:28:55				1428	9.05957	0.9422356	2.7558	1.51404	5.27473	7.81887
10:28:55				1429	8.95171	0.7539812	2.3623	1.51404	5.37241	6.17153
10:28:56				1430	8.92517	0.5124966	1.9687	1.4652	6.20269	4.08546
10:28:56				1431	8.98797	0.4919741	1.6736	1.51404	7.57021	3.90425
10:28:57				1432	9.04684	0.3796212	1.2801	1.51404	9.57265	2.95742
10:28:57				1433	9.07522	0.3648829	1.0833	1.4652	10.15873	2.8333
10:28:58				1434	9.08703	0.3671256	0.9849	1.4652	10.25641	2.85088
10:28:58				1435	9.09289	0.32708	0.9849	1.51404	10.10989	2.52143
10:28:59				1436	9.11246	0.3424557	0.9849	1.51404	9.91453	2.64596
10:28:59				1437	9.14087	0.3414949	0.9849	1.51404	9.91453	2.63599
10:29:00				1438	9.14967	0.3456599	0.9849	1.4652	10.79365	2.66948
10:29:00				1439	9.14478	0.1257451	0.8865	1.4652	10.94017	0.91887
10:29:01				1440	9.1438	0.0477313	0.6898	1.4652	14.55433	0.33487
10:29:01				1441	9.15651	0.2006087	0.6898	0	0	1.5009
10:29:02				1442	9.16237	0.2342164	0.6898	0	0	1.76713
10:29:02				1443	9.17214	0.1993296	0.6898	0	0	1.49017
10:29:03	10:27:46 switch off	10	90	1444	9.18783	0.064193	0.6898	0	0	0.45488
10:32:16	10:30:49 switch on	7.5	90	7	9.09094	0.3806107	1.2801	0	0	2.96197
10:32:17				8	9.08898	0.3806107	1.2801	0	0	2.96213
10:32:17				9	9.09192	0.3807713	1.2801	0	0	2.96322

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:18				10	9.09192	0.3809304	1.2801	0	0	2.96454
10:32:18				11	9.09387	0.3804501	1.2801	0	0	2.9604
10:32:19				12	9.09289	0.3802895	1.2801	0	0	2.95915
10:32:19				13	9.09094	0.3802895	1.3784	0	0	2.95931
10:32:20				14	9.08996	0.3801305	1.2801	0	0	2.95808
10:32:20				15	9.09192	0.3804501	1.2801	0	0	2.96056
10:32:21				16	9.09387	0.3801305	1.3784	0	0	2.95775
10:32:21				17	9.09485	0.3801305	1.2801	0	0	2.95768
10:32:22				18	9.09192	0.3801305	1.2801	0	0	2.95792
10:32:22				19	9.08996	0.3802895	1.3784	0	0	2.95939
10:32:23				20	9.08703	0.3804501	1.2801	0	0	2.96097
10:32:23				21	9.09192	0.3804501	1.2801	0	0	2.96056
10:32:24				22	9.09192	0.3802895	1.3784	0	0	2.95923
10:32:24				23	9.09485	0.3801305	1.3784	0	0	2.95767
10:32:25				24	9.08996	0.3801305	1.2801	0	0	2.95808
10:32:25				25	9.09094	0.37997	1.2801	0	0	2.95667
10:32:26				26	9.09192	0.3798094	1.3784	0	0	2.95526
10:32:26				27	9.09094	0.3798094	1.3784	0	0	2.95534
10:32:27				28	9.09094	0.3788481	1.3784	0	0	2.94739
10:32:27				29	9.09192	0.3788481	1.3784	0	0	2.94731
10:32:28				30	9.09289	0.3788481	1.2801	0	0	2.94723
10:32:28				31	9.09192	0.3788481	1.3784	0	0	2.94731
10:32:29				32	9.08898	0.3788481	1.2801	0	0	2.94755
10:32:29				33	9.09485	0.3788481	1.3784	0	0	2.94706
10:32:30				34	9.09583	0.3790085	1.3784	0	0	2.94831
10:32:30				35	9.09485	0.379169	1.3784	0	0	2.94972
10:32:31				36	9.09779	0.3790085	1.2801	0	0	2.94815
10:32:31				37	9.09583	0.3790085	1.3784	0	0	2.94831
10:32:32				38	9.09876	0.379169	1.3784	0	0	2.9494
10:32:32				39	9.09876	0.3790085	1.4768	0	0	2.94806
10:32:33				40	9.09779	0.3785273	1.2801	0	0	2.94417
10:32:33				41	9.09974	0.3786877	1.2801	0	0	2.94534
10:32:34				42	9.09779	0.3790085	1.2801	0	0	2.94815
10:32:34				43	9.10072	0.3786877	1.2801	0	0	2.94526
10:32:35				44	9.09779	0.3786877	1.3784	0	0	2.9455
10:32:35				45	9.09876	0.3788481	1.3784	0	0	2.94674
10:32:36				46	9.09974	0.3785273	1.3784	0	0	2.94401
10:32:36				47	9.10268	0.3785273	1.2801	0	0	2.94377
10:32:37				48	9.10371	0.3788481	1.2801	0	0	2.94634
10:32:37				49	9.09779	0.3788481	1.3784	0	0	2.94682
10:32:38				50	9.10072	0.3788481	1.3784	0	0	2.94658
10:32:38				51	9.09779	0.3786877	1.3784	0	0	2.9455
10:32:39				52	9.09779	0.3785273	1.3784	0	0	2.94417
10:32:39				53	9.09779	0.3790085	1.3784	0	0	2.94815
10:32:40				54	9.09192	0.3788481	1.3784	0	0	2.94731

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:32:40				55	9.09094	0.3783669	1.3784	0	0	2.94341
10:32:41				56	9.09289	0.3783669	1.3784	0	0	2.94325
10:32:41				57	9.09289	0.3790085	1.3784	0	0	2.94855
10:32:42				58	9.09094	0.3788481	1.3784	0	0	2.94739
10:32:42				59	9.08898	0.3785273	1.3784	0	0	2.94489
10:32:43				60	9.088	0.3786877	1.3784	0	0	2.9463
10:32:43				61	9.0792	0.3786877	1.2801	0	0	2.94703
10:32:44				62	9.07333	0.3790086	1.3784	0	0	2.95016
10:32:44				63	9.07333	0.3788481	1.3784	0	0	2.94883
10:32:45				64	9.07137	0.379169	1.3784	0	0	2.95165
10:32:45				65	9.07039	0.3790086	1.2801	0	0	2.95041
10:32:46				66	9.07431	0.3790086	1.3784	0	0	2.95008
10:32:46				67	9.06941	0.3790086	1.3784	0	0	2.95048
10:32:47				68	9.06648	0.379169	1.3784	0	0	2.95205
10:32:47				69	9.05565	0.3793295	1.3784	0	0	2.95428
10:32:48				70	9.04782	0.3790086	1.3784	0	0	2.95226
10:32:48				71	9.04391	0.3791691	1.3784	0	0	2.95392
10:32:49				72	9.0488	0.3794885	1.2801	0	0	2.95616
10:32:49				73	9.0537	0.3802896	1.3784	0	0	2.96239
10:32:50				74	9.0488	0.3793295	1.3784	0	0	2.95484
10:32:50				75	9.03999	0.3798095	1.3784	0	0	2.95954
10:32:51				76	9.03999	0.3828547	1.3784	0	0	2.98478
10:32:51				77	9.0488	0.3834951	1.3784	0	0	2.98935
10:32:52				78	9.0488	0.3807714	1.2801	0	0	2.96679
10:32:52				79	9.03999	0.3804502	1.3784	0	0	2.96485
10:32:53				80	9.03901	0.3825331	1.3784	0	0	2.98219
10:32:53				81	9.03608	0.3833342	1.3784	0	0	2.98908
10:32:54				82	9.03118	0.3823738	1.3784	0	0	2.98153
10:32:54				83	9.02824	0.3818931	1.3784	0	0	2.97778
10:32:55				84	9.02629	0.3825331	1.3784	0	0	2.98325
10:32:55				85	9.02824	0.3838154	1.3784	0	0	2.99372
10:32:56				86	9.03118	0.3823738	1.3784	0	0	2.98153
10:32:56				87	9.02922	0.3809305	1.3784	0	0	2.96972
10:32:57				88	9.02629	0.383014	1.3784	0	0	2.98724
10:32:57				89	9.02433	0.3839764	1.3784	0	0	2.99539
10:32:58				90	9.02433	0.3822131	1.3784	0	0	2.98076
10:32:58				91	9.02433	0.3818931	1.3784	0	0	2.97811
10:32:59				92	9.02531	0.3825331	1.3784	0	0	2.98334
10:32:59				93	9.02041	0.3836545	1.3784	0	0	2.99304
10:33:00				94	9.02041	0.3820523	1.3784	0	0	2.97976
10:33:00				95	9.01643	0.3863786	1.3784	0	0	3.01598
10:33:01				96	9.02041	0.3950325	1.3784	0.63492	0.29304	3.08753
10:33:01				97	9.01447	0.3955125	1.3784	0.39072	0.09768	3.09204
10:33:02				98	9.01839	0.3958337	1.2801	1.4652	0.9768	3.09437
10:33:02				99	9.01741	0.3972751	1.3784	1.41636	0.92796	3.10644

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:03				100	9.01643	0.3977558	1.3784	1.41636	0.9768	3.11053
10:33:03				101	9.01643	0.3977558	1.3784	1.4652	10.84249	3.11053
10:33:04				102	9.01251	0.3985569	1.3784	1.4652	11.57509	3.11753
10:33:04				103	9.00958	0.4016024	1.3784	1.4652	11.81929	3.14314
10:33:05				104	9.00566	0.4012816	1.3784	1.51404	10.98901	3.14081
10:33:05				105	9.0037	0.4009609	1.3784	1.4652	11.42857	3.13831
10:33:06				106	9.00664	0.4027248	1.3784	1.51404	11.91697	3.15275
10:33:06				107	9.00468	0.4022441	1.3784	1.51404	10.94017	3.14892
10:33:07				108	9.00664	0.4019232	1.3784	1.4652	11.33089	3.14607
10:33:07				109	9.00762	0.4038464	1.3784	1.51404	11.08669	3.162
10:33:08				110	9.00762	0.4046473	1.3784	1.51404	11.77045	3.16868
10:33:08				111	9.00468	0.4030442	1.3784	1.51404	10.64713	3.15558
10:33:09				112	9.0037	0.4049672	1.3784	1.4652	11.08669	3.17169
10:33:09				113	9.0037	0.4051287	1.2801	1.4652	11.18437	3.17304
10:33:10				114	9.00174	0.4088137	1.4768	1.4652	10.84249	3.20393
10:33:10				115	8.99782	0.4097759	1.3784	1.4652	10.89133	3.21231
10:33:11				116	8.99195	0.4086534	1.3784	1.4652	10.84249	3.20347
10:33:11				117	8.99195	0.4068909	1.3784	1.4652	11.52625	3.18877
10:33:12				118	8.98999	0.4064105	1.3784	1.4652	11.67277	3.18494
10:33:12				119	8.98803	0.4060904	1.3784	1.4652	11.96581	3.18244
10:33:13				120	8.98803	0.4075316	1.3784	1.4652	11.57509	3.19446
10:33:13				121	8.98607	0.4088137	1.3784	1.41636	10.64713	3.20534
10:33:14				122	8.98607	0.4080122	1.3784	1.4652	10.89133	3.19865
10:33:14				123	8.98509	0.4059288	1.3784	1.4652	11.03785	3.18136
10:33:15				124	8.98705	0.4072112	1.3784	1.4652	10.30525	3.19188
10:33:16				127	8.9876	0.4071641	1.3784	1.4652	11.08669	3.19144
10:33:17				128	8.9846	0.4098892	1.3784	1.4652	11.03785	3.21444
10:33:17				129	8.9876	0.4130932	1.2801	1.4652	11.52625	3.24093
10:33:18				130	8.98264	0.4145358	1.3784	1.51404	11.81929	3.25342
10:33:18				131	8.96892	0.4156578	1.3784	1.4652	11.72161	3.26405
10:33:19				132	8.97284	0.414375	1.3784	1.41636	11.28205	3.25297
10:33:19				133	8.96598	0.415017	1.3784	1.4652	11.03785	3.25896
10:33:20				134	8.96108	0.4161377	1.3784	1.4652	11.28205	3.26877
10:33:20				135	8.95618	0.4164583	1.3784	1.4652	11.37973	3.2719
10:33:21				136	8.95324	0.4172591	1.3784	1.4652	11.96581	3.27887
10:33:21				137	8.95226	0.4166194	1.3784	1.4652	11.33089	3.27361
10:33:22				138	8.95128	0.4162988	1.2801	1.51404	11.28205	3.27102
10:33:22				139	8.95226	0.4162988	1.3784	1.4652	11.62393	3.27093
10:33:23				140	8.9552	0.4164583	1.3784	1.41636	11.18437	3.27199
10:33:23				141	8.95422	0.4140548	1.2801	1.4652	11.77045	3.25199
10:33:24				142	8.9552	0.4134132	1.3784	1.51404	11.37973	3.24653
10:33:24				143	8.95814	0.4114912	1.3784	1.4652	11.37973	3.23021
10:33:25				144	8.95814	0.4102085	1.3784	1.4652	11.18437	3.21949
10:33:25				145	8.96304	0.4137348	1.2801	1.51404	10.79365	3.24851
10:33:26				146	8.96108	0.4140548	1.3784	1.4652	10.74481	3.25136

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:26				147	8.9552	0.4129325	1.3784	1.4652	11.33089	3.24252
10:33:27				148	8.95716	0.4126126	1.3784	1.4652	11.47741	3.23966
10:33:27				149	8.95618	0.413254	1.2801	1.41636	11.42857	3.24512
10:33:28				150	8.9552	0.4129325	1.3784	1.4652	11.33089	3.24252
10:33:28				151	8.95324	0.4130932	1.3784	1.4652	11.18437	3.24404
10:33:29				152	8.95324	0.413254	1.2801	1.4652	11.13553	3.24539
10:33:29				153	8.95128	0.4108506	1.3784	1.4652	11.62393	3.22547
10:33:30				154	8.95226	0.4050817	1.2801	1.4652	11.72161	3.17722
10:33:30				155	8.95814	0.4034782	1.3784	1.51404	11.57509	3.16331
10:33:31				156	8.97088	0.4028375	1.2801	1.4652	11.18437	3.15685
10:33:31				157	8.9748	0.4021972	1.3784	1.4652	11.47741	3.15116
10:33:32				158	8.98068	0.4023568	1.3784	1.4652	11.86813	3.15197
10:33:32				159	8.98858	0.4052416	1.3784	1.41636	11.08669	3.17532
10:33:33				160	8.99348	0.4081253	1.3784	1.4652	11.28205	3.19893
10:33:33				161	8.99054	0.4129324	1.3784	1.4652	10.69597	3.23931
10:33:34				162	8.98858	0.4148561	1.3784	1.51404	10.54945	3.25555
10:33:34				163	8.9846	0.4268746	1.3784	1.4652	10.74481	3.35643
10:33:35				164	8.98362	0.4263947	1.3784	1.4652	11.28205	3.35251
10:33:35				165	8.98656	0.4238308	1.3784	1.4652	11.28205	3.33077
10:33:36				166	8.98858	0.4182216	1.3784	1.51404	11.86813	3.28368
10:33:36	10:32:12 start transect	7.5	90	167	8.97676	0.4196641	1.3784	1.4652	11.62393	3.29682
10:33:37				168	8.96304	0.4191831	1.3784	1.4652	10.98901	3.29407
10:33:37				169	8.9699	0.4190233	1.3784	1.4652	10.84249	3.2921
10:33:38				170	8.97088	0.4199837	1.3784	1.4652	10.98901	3.30004
10:33:38				171	8.96794	0.4222278	1.3784	1.4652	11.03785	3.31909
10:33:39				172	8.96794	0.4252734	1.3784	1.41636	11.37973	3.34459
10:33:39				173	8.9552	0.422548	1.3784	1.51404	11.18437	3.32295
10:33:40				174	8.95324	0.4222279	1.3784	1.4652	12.01465	3.32045
10:33:40				175	8.95128	0.4259134	1.3784	1.51404	11.77045	3.35151
10:33:41				176	8.94932	0.4271957	1.3784	1.4652	11.33089	3.36244
10:33:41				177	8.94344	0.4292793	1.2801	1.4652	11.33089	3.38047
10:33:42				178	8.93847	0.4286381	1.3784	1.4652	11.28205	3.37555
10:33:42				179	8.93749	0.4307219	1.3784	1.4652	10.98901	3.39312
10:33:43				180	8.93945	0.4254323	1.3784	1.4652	11.37973	3.34858
10:33:43				181	8.94141	0.4252735	1.3784	1.4652	11.37973	3.34707
10:33:44				182	8.94043	0.4358494	1.3784	1.4652	11.72161	3.43588
10:33:44				183	8.93749	0.4350491	1.3784	1.4652	12.01465	3.42944
10:33:45				184	8.94141	0.4294401	1.3784	1.51404	11.18437	3.382
10:33:45				185	8.95128	0.4294401	1.3784	1.4652	11.03785	3.38107
10:33:46				186	8.9552	0.430561	1.3784	1.4652	11.77045	3.39009
10:33:46				187	8.94141	0.4342476	1.3784	1.4652	10.79365	3.42234
10:33:47				188	8.94043	0.4321641	1.3784	1.4652	11.47741	3.40495
10:33:47				189	8.94239	0.4323236	1.3784	1.41636	10.98901	3.4061
10:33:48				190	8.94442	0.4356896	1.2801	1.51404	11.18437	3.43416
10:33:48				191	8.94239	0.4276758	1.3784	1.4652	11.08669	3.36711

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:49				192	8.95324	0.4191831	1.3784	1.4652	11.42857	3.29497
10:33:49				193	8.97088	0.4263947	1.3784	1.51404	11.03785	3.3537
10:33:50				194	8.9748	0.4255926	1.3784	1.51404	11.42857	3.34662
10:33:50				195	8.97676	0.4177411	1.3784	1.4652	10.84249	3.28074
10:33:51				196	8.98656	0.4068438	1.3784	1.4652	11.13553	3.18886
10:33:51				197	8.99837	0.4015554	1.3784	1.4652	10.94017	3.14373
10:33:52				198	9.00229	0.4063634	1.3784	1.51404	11.08669	3.18345
10:33:52				199	9.00425	0.4047602	1.3784	1.4652	11.23321	3.16992
10:33:53				200	9.00425	0.4046003	1.3784	1.4652	11.42857	3.16858
10:33:53				201	9.00719	0.4034781	1.3784	1.4652	10.98901	3.15897
10:33:54				202	9.00621	0.4070039	1.3784	1.4652	10.94017	3.18844
10:33:54				203	9.00523	0.3970691	1.3784	1.51404	11.13553	3.10579
10:33:55				204	9.01698	0.3975498	1.3784	1.4652	11.03785	3.10876
10:33:55				205	9.02482	0.3991521	1.3784	1.4652	11.23321	3.12141
10:33:56				206	9.02482	0.407965	1.3784	1.4652	11.37973	3.19479
10:33:56				207	9.016	0.410048	1.3784	1.4652	10.98901	3.21295
10:33:57				208	9.01698	0.4057216	1.3784	1.51404	11.08669	3.1768
10:33:57				209	9.02482	0.4078048	1.3784	1.51404	10.94017	3.19346
10:33:58				210	9.02971	0.4065235	1.3784	1.51404	11.33089	3.18235
10:33:58				211	9.02873	0.4029988	1.3784	1.4652	11.33089	3.15308
10:33:59				212	9.03565	0.4009155	1.3784	1.4652	11.42857	3.13514
10:33:59				213	9.03663	0.3972298	1.3784	1.4652	11.33089	3.1044
10:34:00				214	9.03565	0.4005949	1.3784	1.4652	10.98901	3.13247
10:34:00				215	9.03271	0.3997928	1.3784	1.4652	11.13553	3.12605
10:34:01				216	9.03271	0.3981914	1.3784	1.4652	11.28205	3.11273
10:34:01				217	9.03956	0.3964279	1.3784	1.4652	11.28205	3.09748
10:34:02				218	9.04446	0.3961081	1.3784	1.4652	11.03785	3.0944
10:34:02				219	9.04837	0.3959475	1.3784	1.4652	11.13553	3.09272
10:34:03				220	9.04837	0.3956279	1.2801	1.4652	10.98901	3.09007
10:34:03				221	9.0562	0.3951462	1.3784	1.4652	10.64713	3.08539
10:34:04				222	9.05718	0.3946662	1.3784	1.4652	10.64713	3.08132
10:34:04				223	9.06012	0.3929034	1.3784	1.4652	11.08669	3.06643
10:34:05				224	9.06208	0.3921021	1.2801	1.4652	10.69597	3.05962
10:34:05				225	9.05914	0.389859	1.3784	1.4652	11.03785	3.04125
10:34:06				226	9.05914	0.389859	1.3784	1.41636	11.03785	3.04125
10:34:06				227	9.05816	0.389699	1.3784	1.41636	11.23321	3.04001
10:34:07				228	9.05522	0.389699	1.3784	1.41636	10.94017	3.04026
10:34:07				229	9.05131	0.3888977	1.3784	1.4652	10.94017	3.03394
10:34:08				230	9.05229	0.3885779	1.3784	1.41636	11.03785	3.03121
10:34:08				231	9.05914	0.3882567	1.3784	1.41636	10.79365	3.02796
10:34:09				232	9.06012	0.3877757	1.3784	1.41636	11.13553	3.02389
10:34:09				233	9.0611	0.3877757	1.3784	1.41636	11.08669	3.02381
10:34:10				234	9.05914	0.3869754	1.3784	1.41636	11.18437	3.01734
10:34:10				235	9.05914	0.3860143	1.3784	1.4652	10.84249	3.00937
10:34:11				236	9.0611	0.3860143	1.3784	1.41636	11.13553	3.0092

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:11				237	9.06403	0.3869754	1.3784	1.4652	10.84249	3.01692
10:34:12				238	9.06599	0.3864948	1.3784	1.41636	11.03785	3.01277
10:34:12				239	9.06697	0.3858532	1.3784	1.4652	11.28205	3.00737
10:34:13				240	9.06697	0.3853729	1.3784	1.41636	11.28205	3.00339
10:34:13				241	9.06795	0.3850523	1.3784	1.4652	10.59829	3.00066
10:34:14				242	9.06795	0.3848928	1.3784	1.4652	10.84249	2.99933
10:34:14				243	9.06795	0.3850523	1.3784	1.4652	10.84249	3.00066
10:34:15				244	9.06893	0.3837705	1.3784	1.4652	10.89133	2.98995
10:34:16				247	9.06997	0.3853698	1.3784	1.4652	11.08669	3.00312
10:34:17				248	9.06899	0.3856905	1.3784	1.4652	10.79365	3.00586
10:34:17				249	9.06605	0.3861708	1.3784	1.4652	11.23321	3.01008
10:34:18				250	9.06801	0.3872933	1.3784	1.4652	11.18437	3.01922
10:34:18				251	9.06605	0.3868126	1.3784	1.4652	11.33089	3.0154
10:34:19				252	9.06605	0.3858501	1.3784	1.4652	10.94017	3.00743
10:34:19				253	9.06997	0.3850492	1.2801	1.51404	11.03785	3.00047
10:34:20				254	9.07975	0.3818451	1.2801	1.51404	10.84249	2.97311
10:34:20				255	9.09742	0.3783206	1.3784	1.51404	11.03785	2.94249
10:34:21				256	9.10818	0.3749564	1.3784	1.51404	11.67277	2.91381
10:34:21				257	9.11796	0.365184	1.3784	1.4652	11.28205	2.8324
10:34:22				258	9.14734	0.3578149	1.3784	1.4652	11.42857	2.76944
10:34:22	10:32:58 @ 6:00	7.5	180	259	9.17373	0.3558927	1.3784	1.4652	10.89133	2.75162
10:34:23				260	9.18252	0.3573341	1.3784	1.4652	10.35409	2.76278
10:34:23				261	9.19626	0.3531702	1.3784	1.51404	10.69597	2.72756
10:34:24				262	9.20602	0.3493248	1.3784	1.51404	10.94017	2.6953
10:34:24				263	9.22067	0.3472426	1.3784	1.4652	11.03785	2.67715
10:34:25				264	9.2275	0.3435585	1.3784	1.4652	10.94017	2.6465
10:34:25				265	9.2236	0.3438796	1.3784	1.41636	10.84249	2.64941
10:34:26				266	9.2275	0.3446804	1.3784	1.4652	10.25641	2.65567
10:34:26				267	9.22945	0.3450003	1.3784	1.4652	10.15873	2.65815
10:34:27				268	9.22945	0.3456417	1.3784	1.51404	10.45177	2.66339
10:34:27				269	9.23043	0.3456417	1.3784	1.4652	10.45177	2.66332
10:34:28				270	9.2275	0.3453202	1.3784	1.4652	11.13553	2.66091
10:34:28				271	9.22848	0.344519	1.3784	1.4652	11.62393	2.65428
10:34:29				272	9.22945	0.3443592	1.3784	1.51404	11.03785	2.6529
10:34:29				273	9.21481	0.3587753	1.3784	1.51404	10.64713	2.77213
10:34:30				274	9.19235	0.3507661	1.3784	1.4652	10.15873	2.70814
10:34:30				275	9.19626	0.3474028	1.3784	1.4652	10.40293	2.68028
10:34:31				276	9.2109	0.3400355	1.3784	1.4652	10.45177	2.61891
10:34:31				277	9.22653	0.3405152	1.3784	1.51404	10.50061	2.62169
10:34:32				278	9.23043	0.3400354	1.3784	1.4652	10.45177	2.61748
10:34:32				279	9.23043	0.3485245	1.2801	1.4652	10.59829	2.68692
10:34:33				280	9.22067	0.3456417	1.3784	1.41636	10.20757	2.66404
10:34:33				281	9.23141	0.334269	1.3784	1.4652	10.59829	2.57032
10:34:34				282	9.24123	0.3352295	1.3784	1.4652	10.59829	2.57746
10:34:34				283	9.2422	0.3475629	1.3784	1.4652	10.40293	2.67817

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:35				284	9.25294	0.3339484	1.3784	1.4652	10.74481	2.56617
10:34:35				285	9.24513	0.3313867	1.3784	1.51404	10.50061	2.54584
10:34:36				286	9.22945	0.3376328	1.3784	1.4652	10.30525	2.59793
10:34:36				287	9.23342	0.3337882	1.3784	1.4652	10.35409	2.56626
10:34:37				288	9.24416	0.3337882	1.3784	1.4652	10.50061	2.56549
10:34:37				289	9.25392	0.3361906	1.3784	1.51404	10.79365	2.58439
10:34:38				290	9.25294	0.3384332	1.3784	1.4652	10.84249	2.60276
10:34:38				291	9.23244	0.3422778	1.3784	1.41636	10.54945	2.63566
10:34:39				292	9.22653	0.3413157	1.3784	1.4652	9.86569	2.62823
10:34:39				293	9.22164	0.3443592	1.3784	1.4652	10.50061	2.65348
10:34:40				294	9.21774	0.3462818	1.3784	1.4652	10.59829	2.6695
10:34:40				295	9.21383	0.3488452	1.3784	1.51404	10.50061	2.69078
10:34:41				296	9.20407	0.3488452	1.3784	1.51404	10.89133	2.69151
10:34:41				297	9.20212	0.3523679	1.3784	1.4652	11.03785	2.72053
10:34:42				298	9.20212	0.3494852	1.3784	1.4652	10.59829	2.6969
10:34:42				299	9.20309	0.3498061	1.3784	1.51404	11.23321	2.69946
10:34:43				300	9.19626	0.3494852	1.3784	1.41636	11.18437	2.69734
10:34:43				301	9.19528	0.3542902	1.3784	1.4652	11.47741	2.73682
10:34:44				302	9.18942	0.3512478	1.3784	1.4652	10.54945	2.71231
10:34:44				303	9.18844	0.3491644	1.3784	1.4652	10.45177	2.6953
10:34:45				304	9.1904	0.3474028	1.3784	1.4652	10.40293	2.68072
10:34:45				305	9.18942	0.3470824	1.4768	1.4652	10.10989	2.67816
10:34:46				306	9.17959	0.3488452	1.3784	1.4652	10.50061	2.69335
10:34:46				307	9.18447	0.352048	1.3784	1.4652	11.18437	2.71925
10:34:47				308	9.18942	0.3525286	1.3784	1.4652	10.20757	2.72281
10:34:47				309	9.18942	0.3526894	1.3784	1.41636	10.10989	2.72413
10:34:48				310	9.1943	0.3467622	1.3784	1.4652	10.74481	2.67518
10:34:48				311	9.19528	0.3498061	1.3784	1.4652	10.50061	2.70005
10:34:49				312	9.19528	0.3441993	1.3784	1.4652	10.50061	2.65412
10:34:49				313	9.18942	0.3470824	1.3784	1.51404	9.81685	2.67817
10:34:50				314	9.18447	0.3499666	1.3784	1.4652	10.25641	2.70217
10:34:50				315	9.17471	0.3568535	1.3784	1.4652	10.15873	2.75944
10:34:51				316	9.16396	0.359898	1.3784	1.4652	10.35409	2.78528
10:34:51				317	9.15907	0.3574939	1.3784	1.4652	10.98901	2.7659
10:34:52				318	9.16298	0.3618192	1.3784	1.4652	11.18437	2.80116
10:34:52				319	9.14637	0.3664658	1.3784	1.4652	10.69597	2.84071
10:34:53				320	9.14148	0.3655036	1.3784	1.4652	10.50061	2.83317
10:34:53				321	9.14246	0.3639016	1.3784	1.51404	10.35409	2.8199
10:34:54				322	9.14734	0.3685485	1.3784	1.4652	10.98901	2.85779
10:34:54				323	9.13751	0.3728728	1.3784	1.51404	10.59829	2.89423
10:34:55				324	9.12284	0.3728728	1.3784	1.4652	10.74481	2.89542
10:34:55				325	9.11796	0.3715917	1.3784	1.4652	10.50061	2.88524
10:34:56				326	9.12676	0.3723934	1.3784	1.4652	10.84249	2.89115
10:34:56				327	9.12871	0.3733538	1.3784	1.4652	10.59829	2.89891
10:34:57				328	9.12676	0.373835	1.3784	1.51404	10.74481	2.90304

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:57				329	9.12578	0.3733538	1.3784	1.4652	10.84249	2.89915
10:34:58				330	9.12578	0.3749564	1.3784	1.4652	10.54945	2.91238
10:34:58				331	9.1248	0.3799221	1.3784	1.4652	10.59829	2.95348
10:34:59				332	9.13067	0.3773586	1.3784	1.4652	10.89133	2.93182
10:34:59				333	9.12578	0.3799221	1.3784	1.51404	10.59829	2.9534
10:35:00				334	9.10622	0.3703102	1.3784	1.4652	10.84249	2.87561
10:35:00				335	9.12187	0.3733539	1.3784	1.51404	10.98901	2.89947
10:35:01				336	9.13164	0.3656642	1.3784	1.4652	10.79365	2.83527
10:35:01				337	9.1493	0.3606982	1.3784	1.4652	10.79365	2.793
10:35:02				338	9.16884	0.3690282	1.3784	1.4652	10.45177	2.86003
10:35:02				339	9.16787	0.361659	1.3784	1.4652	10.35409	2.79946
10:35:03				340	9.16298	0.3539699	1.3784	1.4652	10.59829	2.73665
10:35:03				341	9.1904	0.3406762	1.3784	1.51404	10.50061	2.62564
10:35:04				342	9.22653	0.3727129	1.3784	1.4652	10.64713	2.88575
10:35:04				343	9.17275	0.3691891	1.3784	1.51404	10.54945	2.86105
10:35:05				344	9.15223	0.3719126	1.3784	1.4652	10.45177	2.88513
10:35:05				345	9.13952	0.3788018	1.3784	1.4652	10.84249	2.94301
10:35:06				346	9.11991	0.3864916	1.3784	1.4652	11.52625	3.00822
10:35:06				347	9.09149	0.3892144	1.3784	1.4652	10.45177	3.03317
10:35:07				348	9.07486	0.3898558	1.3784	1.4652	11.37973	3.03989
10:35:07				349	9.07779	0.3802432	1.3784	1.4652	11.18437	2.96001
10:35:08				350	9.08366	0.3770382	1.3784	1.4652	11.47741	2.93301
10:35:08				351	9.09644	0.3747964	1.3784	1.4652	10.84249	2.91344
10:35:09				352	9.11307	0.3691892	1.3784	1.4652	10.45177	2.86581
10:35:09				353	9.13164	0.3650234	1.3784	1.4652	10.79365	2.82999
10:35:10				354	9.15125	0.3653445	1.3784	1.4652	11.52625	2.83109
10:35:10				355	9.16591	0.3658247	1.3784	1.4652	11.03785	2.83389
10:35:11				356	9.16591	0.3690282	1.3784	1.4652	10.74481	2.86027
10:35:11				357	9.16591	0.3613386	1.3784	1.4652	10.50061	2.79698
10:35:12				358	9.17764	0.3594166	1.3784	1.4652	10.64713	2.78027
10:35:12				359	9.19626	0.3672663	1.3784	1.51404	10.50061	2.84335
10:35:13				360	9.1904	0.3735136	1.3784	1.4652	10.64713	2.89525
10:35:13				361	9.1708	0.3663051	1.3784	1.4652	10.94017	2.83746
10:35:14				362	9.1708	0.3783205	1.2801	1.4652	10.59829	2.93648
10:35:14				363	9.13555	0.3690282	1.2801	1.4652	11.37973	2.86269
10:35:15				364	9.13849	0.3695096	1.2801	1.4652	10.59829	2.86642
10:35:16				367	9.21512	0.3262677	1.2801	1.51404	10.15873	2.50623
10:35:17				368	9.30403	0.2958413	1.2801	1.41636	10.20757	2.25357
10:35:17				369	9.42988	0.2897566	1.2801	1.51404	9.96337	2.19682
10:35:18				370	9.47956	0.3051285	1.1817	1.4652	10.06105	2.31732
10:35:18				371	9.4474	0.3094513	1.2801	1.51404	10.10989	2.35422
10:35:19				372	9.36842	0.3281891	1.1817	1.4652	10.25641	2.51118
10:35:19				373	9.34698	0.3221034	1.1817	1.41636	10.45177	2.46327
10:35:20				374	9.37627	0.3040074	1.1817	1.4652	10.20757	2.31491
10:35:20				375	9.42015	0.3142556	1.1817	1.4652	10.10989	2.3948

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:21				376	9.44935	0.2971222	1.1817	1.51404	10.30525	2.25481
10:35:21				377	9.46102	0.2932795	1.2801	1.4652	9.47497	2.22321
10:35:22				378	9.47762	0.2974419	1.0833	1.51404	9.62149	2.25562
10:35:22				379	9.47373	0.2734262	1.1817	1.4652	10.15873	2.06345
10:35:23				380	9.57298	0.2766283	1.2801	1.4652	10.74481	2.08331
10:35:23				381	9.60211	0.28095	1.2801	1.51404	10.84249	2.11608
10:35:24				382	9.57784	0.3174593	1.2801	1.4652	11.03785	2.41016
10:35:24				383	9.53504	0.3469279	1.1817	1.51404	10.94017	2.65135
10:35:25				384	9.45907	0.3139364	1.1817	1.4652	10.69597	2.38965
10:35:25				385	9.39964	0.3147359	1.1817	1.4652	10.79365	2.40005
10:35:26				386	9.4367	0.3100921	1.1817	1.51404	9.27961	2.36009
10:35:26				387	9.44643	0.3104133	1.2801	1.4652	9.62149	2.36205
10:35:27				388	9.46394	0.299204	1.2801	1.4652	9.57265	2.27064
10:35:27				389	9.50679	0.286554	1.2801	1.4652	9.42613	2.1665
10:35:28				390	9.54961	0.2841526	1.1817	1.4652	9.47497	2.14474
10:35:28				391	9.58075	0.2931193	1.2801	1.4652	9.42613	2.21458
10:35:29				392	9.57298	0.290076	1.1817	1.4652	9.67033	2.1907
10:35:29				393	9.59726	0.2960014	1.2801	1.51404	9.52381	2.23663
10:35:30				394	9.63906	0.2739054	1.1817	1.4652	9.42613	2.05786
10:35:30				395	9.67501	0.2815907	1.1817	1.4652	9.67033	2.11693
10:35:31				396	9.66428	0.2719847	1.2801	1.51404	9.96337	2.04117
10:35:31				397	9.64391	0.2742256	1.2801	1.51404	9.57265	2.06012
10:35:32				398	9.65846	0.2883152	1.2801	1.4652	9.86569	2.17149
10:35:32				399	9.65943	0.2979222	1.1817	1.4652	9.62149	2.24816
10:35:33				400	9.64973	0.2721453	1.2801	1.4652	9.37729	2.04326
10:35:33	10:34:09 end transect	7.5	270	401	9.6604	0.2767879	1.2801	1.51404	8.84005	2.07956
10:35:34				402	9.66428	0.2851131	1.2801	1.4652	9.57265	2.14561
10:35:34				403	9.62256	0.3006446	1.2801	1.4652	9.96337	2.27224
10:35:35				404	9.56321	0.3341143	1.2801	1.4652	9.47497	2.54554
10:35:35				405	9.44351	0.4005975	1.3784	1.4652	9.57265	3.09713
10:35:36				406	9.22488	0.3983536	1.4768	1.56288	10.94017	3.09743
10:35:36				407	9.13983	0.3796087	1.6736	1.51404	11.37973	2.94964
10:35:37				408	9.12902	0.3871381	1.772	1.4652	10.69597	3.01279
10:35:37				409	9.13885	0.3988348	1.772	1.51404	11.03785	3.10884
10:35:38				410	9.0987	0.3882597	1.9687	1.4652	11.23321	3.02462
10:35:38				411	9.07908	0.3890607	1.9687	1.4652	10.84249	3.03291
10:35:39				412	9.08397	0.3893821	1.9687	1.51404	10.89133	3.03516
10:35:39				413	9.1075	0.3778458	1.9687	1.41636	11.37973	2.93771
10:35:40				414	9.09675	0.3672726	2.0671	1.51404	10.45177	2.85127
10:35:40				415	9.11728	0.3575016	2.2639	1.51404	10.69597	2.76915
10:35:41				416	9.17306	0.3679142	2.3623	1.4652	11.67277	2.85048
10:35:41				417	9.19754	0.4865061	2.3623	1.4652	10.79365	3.83542
10:35:42				418	9.19949	0.900587	2.4606	1.4652	10.54945	7.41842
10:35:42				419	9.18484	0.7952205	2.559	1.4652	11.18437	6.49218
10:35:43				420	9.17013	0.8302291	2.6574	1.4652	7.17949	6.80257

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:43				421	9.17208	1.0222407	2.6574	1.51404	7.52137	8.50969
10:35:44				422	9.18679	0.9585929	2.7558	1.4652	7.96801	7.93686
10:35:44				423	9.19656	1.0040756	2.8542	1.51404	7.81441	8.34106
10:35:45				424	9.19656	0.9950751	2.8542	1.51404	7.17949	8.26051
10:35:45				425	9.2034	0.9966833	2.9526	1.4652	7.13065	8.2733
10:35:46				426	9.20242	1.0690215	2.8542	3.85836	7.08181	8.92284
10:35:46				427	9.2239	1.0862247	2.9526	2.00244	6.64225	9.07242
10:35:47				428	9.23568	1.089923	2.9526	1.4652	6.34921	9.10277
10:35:47				429	9.25715	1.0844569	3.0509	1.4652	6.59341	9.04807
10:35:48				430	9.27575	1.0937818	3.0509	2.14896	6.39805	9.12732
10:35:48				431	9.30598	1.097481	2.9526	4.34676	6.59341	9.15293
10:35:49				432	9.32651	1.0912092	3.0509	7.32601	5.66545	9.09127
10:35:49				433	9.32456	1.0653234	3.0509	8.59585	5.81197	8.85927
10:35:50				434	9.32359	1.0712711	2.9526	11.81929	5.66545	8.9129
10:35:50				435	9.32359	1.0650018	2.9526	13.04029	5.61661	8.85664
10:35:51				436	9.33626	1.1045544	2.9526	15.04274	5.66545	9.20885
10:35:51				437	9.36062	1.1111484	3.0509	11.28205	5.51893	9.2619
10:35:52				438	9.38698	1.0994101	2.9526	8.54701	5.76313	9.14962
10:35:52				439	9.38698	1.1061623	3.0509	8.05861	5.61661	9.21028
10:35:53				440	9.38211	1.1014993	2.9526	8.98657	5.66545	9.16963
10:35:53				441	9.38406	1.0994101	2.9526	10.69597	5.56777	9.15036
10:35:54				442	9.39185	1.1240129	3.0509	10.40293	5.61661	9.36956
10:35:54				443	9.39867	1.1143636	3.0509	10.15873	5.37241	9.28099
10:35:55				444	9.39477	1.1024651	3.0509	9.71917	5.51893	9.17506
10:35:55				445	9.3938	1.0905646	3.0509	9.81685	5.61661	9.06846
10:35:56				446	9.37627	1.0969975	2.9526	10.15873	5.81197	9.13067
10:35:56				447	9.37237	1.1072884	2.9526	10.89133	5.81197	9.22416
10:35:57				448	9.39185	1.110826	2.9526	13.77289	5.56777	9.25096
10:35:57				449	9.3938	1.0963539	3.0509	11.77045	5.51893	9.12043
10:35:58				450	9.39867	1.0896004	3.0509	10.10989	5.56777	9.05858
10:35:58				451	9.39185	1.0817219	3.0509	11.23321	5.86081	8.98962
10:35:59				452	9.38114	1.092496	2.9526	13.04029	5.86081	9.08901
10:35:59				453	9.38893	1.0945846	3.0509	11.86813	5.47009	9.10578
10:36:00				454	9.39477	1.0944243	3.0509	11.91697	5.32357	9.10286
10:36:00				455	9.3977	1.0949071	3.0509	11.03785	5.56777	9.10645
10:36:01				456	9.39477	1.0854211	3.0509	10.25641	5.90965	9.02207
10:36:01				457	9.38796	1.0949072	2.9526	10.20757	5.76313	9.10893
10:36:02				458	9.38991	1.0968371	3.0509	10.50061	5.37241	9.12575
10:36:02				459	9.38796	1.0968371	2.9526	10.25641	5.56777	9.12626
10:36:03				460	9.39283	1.0979618	3.0509	9.37729	5.56777	9.13511
10:36:03				461	9.40159	1.0963539	3.0509	9.57265	5.71429	9.11845
10:36:04				462	9.40354	1.0809179	3.0509	9.37729	5.42125	8.97949
10:36:04				463	9.39185	1.0786669	3.0509	9.62149	5.47009	8.96223
10:36:05				464	9.36549	1.052139	2.9526	10.10989	5.42125	8.7311
10:36:05	10:34:41 start transect	7.5	270	465	9.3577	1.0582499	3.0509	7.86325	5.71429	8.78771

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:36:06				466	9.33236	1.0577668	3.0509	4.49328	5.86081	8.78959
10:36:06				467	9.31963	1.0297939	3.0509	5.07937	5.86081	8.5422
10:36:07				468	9.31865	1.018061	3.0509	4.83516	6.00733	8.43754
10:36:07				469	9.30208	1.0166131	2.9526	3.4188	6.05617	8.42851
10:36:08				470	9.28257	0.8350474	2.9526	3.51648	6.44689	6.82353
10:36:08				471	9.22884	0.8286229	2.9526	2.05128	6.69109	6.77727
10:36:09				472	9.19949	0.9055675	2.9526	2.00244	6.69109	7.46252
10:36:09				473	9.1584	0.915048	3.0509	1.4652	7.57021	7.5553
10:36:10				474	9.18093	0.898659	3.0509	1.51404	7.61905	7.4051
10:36:10				475	9.17306	0.8626746	2.9526	1.51404	7.32601	7.08818
10:36:11				476	9.1496	0.8480587	2.9526	1.41636	7.66789	6.9637
10:36:11				477	9.13195	1.0741664	2.7558	1.51404	7.91209	8.98689
10:36:12				478	9.26593	1.1068061	3.0509	1.51404	7.47253	9.24722
10:36:12				479	9.36647	0.9921825	3.1493	1.51404	6.59341	8.19565
10:36:13				480	9.2972	0.996844	3.0509	1.4652	6.59341	8.25309
10:36:13				481	9.24349	0.9896111	2.9526	2.58852	6.93529	8.20087
10:36:14				482	9.30208	1.0561597	2.8542	2.58852	6.93529	8.78262
10:36:14				483	9.36647	1.0320449	2.9526	1.51404	6.88645	8.55118
10:36:15				484	9.37919	1.0400816	3.0509	1.4652	6.69109	8.61994
10:36:16				487	9.21316	0.8911134	3.0509	2.83272	6.59341	7.33162
10:36:17				488	9.17312	0.929192	2.9526	1.51404	6.44689	7.67794
10:36:17				489	9.12908	0.9446171	2.9526	1.51404	6.44689	7.8249
10:36:18				490	9.0781	0.9206747	2.9526	1.4652	7.81441	7.62243
10:36:18				491	9.04091	0.9057337	3.0509	1.4652	7.42369	7.49717
10:36:19				492	9.0242	0.8654095	3.0509	1.4652	6.25153	7.14203
10:36:19				493	9.0242	0.9195506	3.0509	1.4652	6.34921	7.6239
10:36:20				494	9.0007	0.8146553	2.9526	1.51404	7.03297	6.69717
10:36:20				495	8.97811	0.839388	2.9526	1.41636	7.08181	6.92033
10:36:21				496	8.96243	0.8328047	3.0509	1.4652	7.32601	6.86501
10:36:21				497	8.95655	0.7765974	3.0509	1.51404	7.42369	6.36955
10:36:22				498	8.95851	0.7566875	3.0509	1.4652	7.76557	6.19406
10:36:22				499	8.96439	0.7305198	3.0509	1.4652	7.71673	5.96351
10:36:23				500	8.96439	0.7754737	2.9526	1.4652	7.71673	6.35827
10:36:23				501	8.96145	0.8286275	2.9526	1.4652	8.35165	6.8282
10:36:24				502	8.95067	0.8740845	2.9526	1.4652	7.47253	7.23397
10:36:24				503	8.94276	0.9153733	2.9526	1.4652	7.37485	7.60398
10:36:25				504	8.93884	0.9205145	3.0509	1.51404	7.13065	7.6508
10:36:25				505	8.93786	0.9324057	3.0509	1.4652	7.17949	7.75746
10:36:26				506	8.9359	0.9375477	3.0509	1.41636	7.47253	7.80396
10:36:26				507	8.9359	0.8915947	2.9526	1.4652	7.17949	7.39305
10:36:27				508	8.93394	0.8813132	2.9526	1.51404	7.22833	7.30177
10:36:27				509	8.93296	0.9626171	2.9526	1.51404	7.27717	8.0296
10:36:28				510	8.92413	0.9513672	3.0509	1.4652	6.93529	7.93053
10:36:28				511	8.92413	0.9475106	2.9526	1.4652	6.73993	7.89592
10:36:29				512	8.92904	0.9523322	3.0509	1.51404	6.54457	7.9381

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:36:29				513	8.931	0.9163374	2.9526	1.51404	6.69109	7.61512
10:36:30				514	8.93002	0.9140891	2.9526	1.4652	6.88645	7.59522
10:36:30				515	8.92707	0.9124812	2.9526	1.51404	6.88645	7.58147
10:36:31				516	8.92609	0.929513	2.9526	1.51404	6.49573	7.73412
10:36:31				517	8.92511	0.9226035	2.9526	1.4652	6.54457	7.67246
10:36:32				518	8.92021	0.872799	2.9526	1.51404	6.54457	7.2287
10:36:32				519	8.91531	0.8716757	2.9526	1.51404	6.78877	7.21969
10:36:33				520	8.91334	0.7870349	2.9526	1.4652	6.78877	6.46938
10:36:33				521	8.9104	0.7517114	2.9526	1.4652	6.78877	6.15867
10:36:34				522	8.9055	0.7513908	2.9526	1.4652	6.83761	6.15669
10:36:34				523	8.90256	0.7721025	2.9526	1.4652	6.59341	6.33958
10:36:35				524	8.90157	0.7680881	3.0509	1.51404	6.98413	6.30436
10:36:35				525	8.90256	0.7449672	3.0509	1.4652	6.88645	6.10072
10:36:36				526	8.90452	0.7467347	3.0509	1.51404	6.54457	6.11592
10:36:36				527	8.90354	0.7269874	3.0509	1.4652	6.39805	5.94271
10:36:37				528	8.90059	0.7143063	2.9526	1.41636	6.78877	5.83208
10:36:37				529	8.90256	0.7131834	2.9526	1.4652	6.25153	5.82192
10:36:38				530	8.89759	0.7179982	2.9526	1.51404	6.44689	5.86491
10:36:38				531	8.89759	0.7133438	3.0509	1.4652	6.49573	5.82413
10:36:39				532	8.89661	0.708528	3.0509	1.4652	6.69109	5.78213
10:36:39				533	8.89366	0.7066028	3.0509	1.4652	6.49573	5.76576
10:36:40				534	8.89366	0.7000214	3.0509	1.4652	6.88645	5.7082
10:36:40				535	8.89661	0.6947244	2.9526	1.4652	7.08181	5.66144
10:36:41				536	8.89759	0.6927984	2.9526	1.4652	6.98413	5.64446
10:36:41				537	8.89759	0.6833284	2.9526	1.51404	6.83761	5.56179
10:36:42				538	8.90157	0.6865388	2.9526	1.51404	7.17949	5.58918
10:36:42				539	8.90256	0.692477	2.9526	1.4652	7.08181	5.64087
10:36:43				540	8.90354	0.6876628	3.0509	1.51404	7.03297	5.59868
10:36:43				541	8.90452	0.6833284	3.0509	1.51404	7.13065	5.5607
10:36:44				542	8.90157	0.6828484	2.9526	1.41636	7.57021	5.55699
10:36:44				543	8.90256	0.679638	2.9526	1.4652	7.13065	5.52884
10:36:45				544	8.90157	0.6722543	2.9526	1.4652	6.83761	5.46464
10:36:45				545	8.9055	0.6719341	2.9526	1.4652	6.88645	5.46125
10:36:46				546	8.90157	0.6703301	2.9526	1.4652	7.42369	5.44788
10:36:46				547	8.90157	0.6677612	3.0509	1.51404	7.32601	5.4255
10:36:47				548	8.90648	0.6597383	3.0509	1.4652	6.78877	5.35496
10:36:47				549	8.90942	0.6594163	3.0509	1.4652	7.03297	5.35171
10:36:48				550	8.91138	0.6549232	2.9526	1.4652	7.32601	5.31238
10:36:48				551	8.91629	0.6550847	2.9526	1.51404	7.47253	5.31305
10:36:49				552	8.91629	0.6538001	2.9526	1.51404	7.22833	5.30189
10:36:49				553	8.91629	0.653158	2.9526	1.4652	7.71673	5.29631
10:36:50				554	8.91433	0.6529985	2.9526	1.51404	7.71673	5.29522
10:36:50				555	8.90844	0.6529985	2.9526	1.4652	7.86325	5.29609
10:36:51				556	8.90844	0.6533194	2.9526	1.41636	7.76557	5.29888
10:36:51				557	8.90452	0.6526776	2.9526	1.51404	7.32601	5.29389

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:36:52				558	8.90746	0.6517151	2.9526	1.51404	7.37485	5.28509
10:36:52				559	8.90059	0.6512332	3.0509	1.4652	7.37485	5.28191
10:36:53				560	8.89759	0.6517151	3.0509	1.51404	7.96093	5.28654
10:36:53				561	8.89465	0.6520359	2.9526	1.51404	7.32601	5.28978
10:36:54				562	8.89563	0.6486658	2.9526	1.4652	7.17949	5.26035
10:36:54				563	8.90648	0.6472205	2.9526	1.4652	7.27717	5.2462
10:36:55				564	8.90942	0.6504307	2.9526	1.4652	7.66789	5.27364
10:36:55				565	8.90844	0.6520359	2.9526	1.51404	7.57021	5.28773
10:36:56				566	8.90942	0.6552445	3.0509	1.51404	7.47253	5.31545
10:36:56				567	8.89072	0.6563684	3.0509	1.4652	7.52137	5.32801
10:36:57				568	8.88483	0.6425678	3.0509	1.51404	7.57021	5.20898
10:36:57				569	8.88974	0.6390383	2.9526	1.4652	6.93529	5.17764
10:36:58				570	8.88778	0.6412837	2.9526	1.4652	6.88645	5.19741
10:36:58				571	8.88582	0.6521954	2.9526	1.4652	6.98413	5.29247
10:36:59				572	8.876	0.6666385	2.9526	1.4652	7.13065	5.41963
10:36:59				573	8.86324	0.6839706	2.9526	1.4652	7.17949	5.57277
10:37:00				574	8.85736	0.6830085	2.9526	1.51404	7.13065	5.56528
10:37:00				575	8.85539	0.6839706	2.9526	1.51404	7.13065	5.574
10:37:01				576	8.84159	0.691033	2.9526	1.51404	6.69109	5.6379
10:37:01	10:35:37 @ 6:00	7.5	180	577	8.83766	0.6969707	3.0509	1.4652	6.15385	5.69047
10:37:02				578	8.83766	0.7009839	2.9526	1.51404	6.15385	5.72562
10:37:02				579	8.8406	0.7051568	2.9526	1.4652	5.95849	5.7617
10:37:03				580	8.84551	0.7062812	2.9526	1.4652	6.05617	5.77075
10:37:03				581	8.8514	0.7041945	2.9526	1.4652	6.15385	5.75152
10:37:04				582	8.84944	0.7041945	3.0509	1.51404	6.20269	5.75183
10:37:04				583	8.84355	0.6972928	2.9526	1.51404	6.10501	5.69236
10:37:05				584	8.82882	0.6801193	2.9526	1.4652	5.90965	5.5445
10:37:05				585	8.82784	0.6767498	2.9526	1.51404	6.00733	5.51522
10:37:06				586	8.82882	0.6761063	2.9526	1.51404	6.15385	5.50944
10:37:06				587	8.82489	0.6724155	2.9526	1.41636	6.10501	5.47782
10:37:07				588	8.82391	0.6708112	3.0509	1.4652	5.86081	5.46396
10:37:07				589	8.82882	0.6687239	2.9526	1.51404	5.95849	5.445
10:37:08				590	8.83275	0.6667992	3.0509	1.4652	5.71429	5.42761
10:37:08				591	8.8357	0.6676006	2.9526	1.4652	5.71429	5.43415
10:37:09				592	8.8357	0.6692062	2.9526	1.51404	6.15385	5.44816
10:37:09				593	8.8406	0.6659963	3.0509	1.51404	5.90965	5.41941
10:37:10				594	8.84453	0.6557257	2.9526	1.4652	5.86081	5.32934
10:37:10				595	8.85539	0.6600586	3.0509	1.51404	6.00733	5.36543
10:37:11				596	8.86324	0.656047	3.0509	1.4652	6.54457	5.32933
10:37:11				597	8.86619	0.656047	2.9526	1.4652	6.64225	5.3289
10:37:12				598	8.86815	0.6507514	2.9526	1.4652	6.73993	5.28254
10:37:12				599	8.876	0.6452957	3.0509	1.4652	6.39805	5.23396
10:37:13				600	8.88287	0.6555658	2.9526	1.4652	6.69109	5.32222
10:37:13				601	8.88189	0.6542827	2.9526	1.4652	6.78877	5.3112
10:37:14				602	8.88582	0.6406419	2.9526	1.51404	6.93529	5.19212

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:14				603	8.8917	0.6467396	2.9526	1.51404	6.69109	5.2442
10:37:15				604	8.8917	0.6400003	3.0509	1.4652	6.78877	5.18569
10:37:16				607	8.90427	0.6348784	3.0509	1.4652	7.17949	5.13945
10:37:17				608	8.90427	0.6239685	3.0509	1.4652	7.42369	5.04496
10:37:17				609	8.91016	0.6196359	3.0509	1.4652	7.66789	5.00664
10:37:18				610	8.91806	0.6050354	3.0509	1.4652	8.05861	4.87941
10:37:18				611	8.91414	0.6068001	2.9526	1.4652	7.96093	4.89519
10:37:19				612	8.91114	0.6069615	3.0509	1.51404	7.86325	4.89699
10:37:19				613	8.91316	0.604876	2.9526	1.51404	8.93773	4.87872
10:37:20				614	8.91806	0.600383	3.0509	1.51404	8.44933	4.83928
10:37:20				615	8.91806	0.6032722	3.0509	1.51404	8.93773	4.8642
10:37:21				616	8.92101	0.598458	2.9526	1.51404	8.79121	4.82229
10:37:21				617	8.92493	0.599422	3.0509	1.4652	8.64469	4.83006
10:37:22				618	8.92983	0.6050354	2.9526	1.4652	8.84005	4.87781
10:37:22				619	8.93179	0.598458	2.9526	1.4652	8.59585	4.82083
10:37:23				620	8.93081	0.6167479	2.9526	1.4652	8.79121	4.97879
10:37:23				621	8.92983	0.6218814	3.0509	1.4652	9.08425	5.02329
10:37:24				622	8.92787	0.6117749	3.0509	1.51404	8.74237	4.93624
10:37:24				623	8.93081	0.6117749	3.0509	1.51404	8.84005	4.93583
10:37:25				624	8.93277	0.6072823	3.0509	1.4652	8.59585	4.89679
10:37:25				625	8.9367	0.6079242	2.9526	1.51404	9.08425	4.90179
10:37:26				626	8.93866	0.6103307	3.0509	1.51404	8.69353	4.92228
10:37:26				627	8.93473	0.6193148	2.9526	1.4652	8.69353	5.00043
10:37:27				628	8.92885	0.607121	3.0509	1.51404	8.84005	4.89593
10:37:27				629	8.93081	0.6037535	2.9526	1.51404	8.74237	4.86662
10:37:28				630	8.92983	0.5750383	2.8542	1.41636	9.03541	4.6196
10:37:28				631	8.92591	0.5445641	2.7558	1.4652	9.27961	4.3589
10:37:29				632	8.91708	0.5594789	2.8542	1.4652	9.67033	4.4877
10:37:29				633	8.9161	0.5763207	2.8542	1.4652	10.45177	4.6324
10:37:30				634	8.92101	0.5793687	2.9526	1.51404	10.69597	4.65795
10:37:30				635	8.91316	0.599422	2.9526	1.51404	9.91453	4.83166
10:37:31				636	8.91905	0.614501	2.9526	1.51404	10.01221	4.96102
10:37:31				637	8.92689	0.6122548	2.9526	1.4652	10.15873	4.94053
10:37:32				638	8.92199	0.6140206	2.9526	1.51404	9.91453	4.95646
10:37:32				639	8.91708	0.6197965	3.0509	1.4652	9.13309	5.00706
10:37:33				640	8.91708	0.6340768	3.0509	1.4652	8.64469	5.13066
10:37:33				641	8.92101	0.6332739	3.0509	1.4652	8.54701	5.12314
10:37:34				642	8.92395	0.6326328	3.0509	1.4652	8.59585	5.11717
10:37:34				643	8.92199	0.6334355	3.0509	1.4652	9.42613	5.1244
10:37:35				644	8.92395	0.6305458	3.0509	1.4652	9.13309	5.09909
10:37:35				645	8.92199	0.6265356	3.0509	1.4652	9.71917	5.06466
10:37:36				646	8.92101	0.6276583	3.0509	1.4652	9.67033	5.07452
10:37:36				647	8.92199	0.6215618	3.1493	1.51404	9.23077	5.02163
10:37:37				648	8.92101	0.6239685	3.1493	1.51404	10.06105	5.04258
10:37:37				649	8.92297	0.627979	3.0509	1.51404	9.37729	5.07701

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:38				650	8.92591	0.6258931	3.0509	1.4652	9.47497	5.05855
10:37:38				651	8.92493	0.6173893	3.0509	1.51404	9.27961	4.98515
10:37:39				652	8.92297	0.593004	3.0509	1.51404	9.18193	4.77502
10:37:39				653	8.92003	0.599422	3.0509	1.4652	8.98657	4.83073
10:37:40				654	8.92297	0.602469	3.0509	1.4652	9.27961	4.8566
10:37:40				655	8.92493	0.599422	3.0509	1.51404	9.52381	4.83006
10:37:41				656	8.92493	0.5965331	3.0509	1.4652	9.52381	4.80516
10:37:41				657	8.92297	0.5989399	3.0509	1.4652	9.08425	4.82617
10:37:42				658	8.92493	0.6007046	3.0509	1.51404	9.08425	4.84112
10:37:42				659	8.92591	0.6018271	3.0509	1.4652	8.69353	4.85067
10:37:43				660	8.92689	0.6034315	3.1493	1.4652	8.59585	4.86436
10:37:43				661	8.92689	0.6047148	3.1493	1.51404	8.79121	4.87543
10:37:44				662	8.92591	0.6178705	3.2477	1.51404	8.98657	4.98916
10:37:44	10:3620 end transect	7.5	90	663	8.92689	0.616267	3.3461	1.51404	9.23077	4.97515
10:37:45				664	8.92689	0.6072823	3.3461	1.51404	8.64469	4.89757
10:37:45				665	8.92689	0.6310283	3.4445	1.51404	8.25397	5.10282
10:37:46				666	8.92689	0.6246104	3.4445	1.51404	8.93773	5.04728
10:37:46				667	8.92885	0.650925	3.5428	1.4652	8.00977	5.27501
10:37:47				668	8.92493	0.6624794	3.6412	1.51404	8.40049	5.37596
10:37:47				669	8.92591	0.6695403	3.7396	1.4652	8.10745	5.43722
10:37:48				670	8.93081	0.6640848	3.9364	1.4652	7.91209	5.38901
10:37:48				671	8.92983	0.6896025	3.9364	1.4652	7.47253	5.61139
10:37:49				672	8.91806	0.7229901	4.1331	1.4652	7.32601	5.90515
10:37:49				673	8.89937	0.7353517	4.3299	1.4652	6.73993	6.01668
10:37:50				674	8.89544	0.8781212	4.5267	1.4652	6.73993	7.281
10:37:50				675	8.92689	0.8018263	4.8218	1.4652	6.25153	6.59737
10:37:51				676	8.92101	0.7962053	4.7234	1.51404	5.95849	6.54879
10:37:51				677	8.91512	0.8821363	4.8218	1.4652	6.05617	7.31275
10:37:52				678	8.96812	1.0512058	4.9202	1.4652	6.05617	8.81992
10:37:52				679	9.02206	1.0804666	5.117	1.51404	5.95849	9.07131
10:37:53				680	8.99262	1.0679255	5.3137	1.51404	6.20269	8.96512
10:37:53				681	8.96518	1.0968688	5.4121	1.51404	5.95849	9.23468
10:37:54				682	8.95636	1.0992814	5.5105	1.51404	5.76313	9.25889
10:37:54				683	8.97106	1.0912406	5.6089	1.51404	5.61661	9.18201
10:37:55				684	8.97302	1.0922053	5.6089	1.51404	5.86081	9.19027
10:37:55				685	8.97008	1.0409159	5.6089	1.4652	5.95849	8.72626
10:37:56				686	8.96714	1.0536171	5.6089	1.51404	5.66545	8.84189
10:37:56				687	8.95832	1.0560283	5.6089	1.51404	5.86081	8.86591
10:37:57				688	8.95434	1.0825576	5.6089	1.4652	5.90965	9.10746
10:37:57				689	8.95734	1.0809495	5.5105	1.4652	5.71429	9.09211
10:37:58				690	8.96224	1.0828789	5.5105	1.4652	5.95849	9.10837
10:37:58				691	8.97008	1.0888281	5.6089	1.4652	5.95849	9.16036
10:37:59				692	8.97204	1.0894721	5.6089	1.4652	5.61661	9.1657
10:37:59				693	8.99948	1.0885061	5.6089	1.4652	5.81197	9.14989
10:38:00				694	9.0201	1.0912404	5.6089	1.4652	6.00733	9.16939

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:00				695	9.02892	1.090276	5.6089	1.51404	5.66545	9.15839
10:38:01				696	9.02794	1.1021754	5.5105	1.51404	5.61661	9.26658
10:38:01				697	9.01521	1.1068373	5.6089	1.4652	5.86081	9.31221
10:38:02				698	8.99752	1.103943	5.6089	1.51404	6.59341	9.29053
10:38:02				699	9.00639	1.1047467	5.6089	1.51404	5.86081	9.29552
10:38:03				700	9.01031	1.1053919	5.5105	1.51404	5.76313	9.30037
10:38:03				701	9.00835	1.1068374	5.5105	1.51404	5.90965	9.31401
10:38:04				702	9.00737	1.1060331	5.6089	1.51404	5.86081	9.30695
10:38:04				703	9.00541	1.1063548	5.6089	1.51404	6.30037	9.31038
10:38:05				704	9.00541	1.1082857	5.6089	1.4652	5.81197	9.32792
10:38:05				705	9.00639	1.1073201	5.6089	1.51404	5.90965	9.31889
10:38:06				706	9.00443	1.1081247	5.6089	1.51404	5.81197	9.32671
10:38:06	10:36:42 start transect	7.5	90	707	9.0015	1.1095715	5.6089	1.4652	6.10501	9.34063
10:38:07				708	8.99654	1.1082857	5.6089	1.4652	6.25153	9.33024
10:38:07				709	8.99752	1.1082857	5.6089	1.4652	5.86081	9.32999
10:38:08				710	8.99654	1.1106967	5.6089	1.4652	5.86081	9.35216
10:38:08				711	8.99556	1.1113411	5.6089	1.51404	5.90965	9.35827
10:38:09				712	8.99066	1.1455944	5.6089	1.4652	5.95849	9.67143
10:38:09				713	8.98478	1.1298341	5.6089	1.4652	6.20269	9.52939
10:38:10				714	8.98282	1.1288702	5.6089	1.4652	5.71429	9.52114
10:38:10				715	9.01912	1.1390012	5.6089	1.4652	5.86081	9.60366
10:38:11				716	9.05932	1.1357856	5.6089	1.4652	5.81197	9.56361
10:38:11				717	9.10243	1.1330515	5.5105	1.4652	5.95849	9.52726
10:38:12				718	9.13177	1.1320865	5.5105	1.4652	5.66545	9.51069
10:38:12				719	9.11319	1.1275822	5.6089	1.4652	6.00733	9.47474
10:38:13				720	9.09656	1.1298337	5.6089	1.4652	5.61661	9.49959
10:38:13				721	9.11025	1.1293516	5.6089	1.51404	5.81197	9.49158
10:38:14				722	9.10439	1.1332116	5.5105	1.51404	5.66545	9.52819
10:38:14				723	9.09461	1.1484892	5.6089	1.4652	5.66545	9.66963
10:38:15				724	9.09363	1.1599094	5.6089	1.51404	5.56777	9.77379
10:38:16				727	9.05945	1.1357553	5.6089	1.51404	5.66545	9.5633
10:38:17				728	9.05357	1.1433139	5.5105	1.51404	5.76313	9.63365
10:38:17				729	9.05259	1.1524801	5.6089	1.51404	5.86081	9.71735
10:38:18				730	9.05455	1.1499075	5.6089	1.51404	5.56777	9.69339
10:38:18				731	9.05455	1.1589144	5.6089	1.51404	5.56777	9.77543
10:38:19				732	9.05749	1.161809	5.6089	1.4652	5.90965	9.801
10:38:19				733	9.05945	1.1497465	5.6089	1.51404	5.42125	9.69059
10:38:20				734	9.05259	1.1418662	5.6089	1.51404	5.32357	9.62073
10:38:20				735	9.03791	1.1470133	5.6089	1.4652	5.71429	9.67155
10:38:21				736	9.03002	1.1521602	5.6089	1.51404	5.71429	9.72058
10:38:21				737	9.04281	1.1581094	5.5105	1.51404	5.56777	9.77132
10:38:22				738	9.05847	1.1606844	5.5105	1.4652	5.86081	9.7905
10:38:22				739	9.09962	1.1716213	5.6089	1.51404	5.22589	9.8788
10:38:23				740	9.16029	1.1786965	5.6089	1.51404	5.42125	9.92641
10:38:23				741	9.16029	1.1630952	5.6089	1.4652	5.71429	9.78453

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:24				742	9.11624	1.1926925	5.5105	1.51404	5.56777	10.06625
10:38:24				743	9.19748	1.1820752	5.5105	1.4652	5.76313	9.94683
10:38:25				744	9.24245	1.1851319	5.6089	1.41636	5.61661	9.96209
10:38:25				745	9.21017	1.1957482	5.6089	1.4652	5.56777	10.06763
10:38:26				746	9.19162	1.1989641	5.5105	1.4652	5.71429	10.10215
10:38:26				747	9.25709	1.2142457	5.5105	1.4652	5.76313	10.22269
10:38:27				748	9.31963	1.2332298	5.6089	1.4652	5.86081	10.37746
10:38:27				749	9.37913	1.2311375	5.5105	14.35897	5.47009	10.34128
10:38:28				750	9.42885	1.199929	5.5105	17.53358	5.07937	10.04426
10:38:28				751	9.37036	1.2037888	5.5105	22.85714	5.12821	10.09562
10:38:29				752	9.33815	1.2200369	5.5105	22.36874	5.12821	10.2522
10:38:29				753	9.37036	1.2284023	5.5105	20.02442	4.98168	10.31896
10:38:30				754	9.44247	1.2311372	5.5105	19.43834	5.03053	10.32305
10:38:30				755	9.54081	1.2153705	5.5105	20.80586	5.12821	10.1524
10:38:31				756	9.49992	1.2224506	5.5105	21.78266	5.07937	10.22797
10:38:31				757	9.49701	1.2449734	5.5105	21.00122	4.98168	10.43273
10:38:32				758	9.56904	1.227436	5.6089	19.3895	5.22589	10.25335
10:38:32				759	9.60788	1.220681	5.5105	20.3663	5.32357	10.18139
10:38:33				760	9.59817	1.2129591	5.5105	19.19414	5.12821	10.1145
10:38:33				761	9.61085	1.2042726	5.5105	16.75214	5.27473	10.0327
10:38:34				762	9.61376	1.2076499	5.5105	16.4591	5.27473	10.0623
10:38:34				763	9.59817	1.2121535	5.5105	6.54457	5.37241	10.10724
10:38:35				764	9.62735	1.2111883	5.6089	8.69353	5.47009	10.09035
10:38:35				765	9.6584	1.2089374	5.6089	16.36142	5.32357	10.06142
10:38:36				766	9.67688	1.2203581	5.5105	18.85226	5.07937	10.15901
10:38:36				767	9.77972	1.2168181	5.5105	20.3663	5.32357	10.09836
10:38:37				768	9.80489	1.2097394	5.5105	21.24542	5.03053	10.02789
10:38:37				769	9.76326	1.2058794	5.5105	22.51526	5.22589	10.00482
10:38:38				770	9.66137	1.2163364	5.5105	22.90598	5.42125	10.12718
10:38:38				771	9.72057	1.2200354	5.5105	22.75946	5.47009	10.14382
10:38:39				772	9.84655	1.2258278	5.5105	22.46642	5.27473	10.16042
10:38:39				773	9.85913	1.2415935	5.5105	21.78266	5.12821	10.29822
10:38:40				774	9.82914	1.2465818	5.4121	22.5641	5.22589	10.35156
10:38:40				775	9.93754	1.2467406	5.5105	24.71306	5.07937	10.32202
10:38:41				776	10.03515	1.2523718	5.5105	25.39683	5.17705	10.34457
10:38:41				777	10.10655	1.2748972	5.5105	25.44567	5.37241	10.52527
10:38:42				778	10.18462	1.2713568	5.6089	25.98291	5.03053	10.47113
10:38:42				779	10.17595	1.2739313	5.6089	29.35287	5.12821	10.49657
10:38:43				780	10.20585	1.3133559	5.6089	31.69719	4.98168	10.83962
10:38:43				781	10.28668	1.3077233	5.6089	32.86935	5.03053	10.76539
10:38:44				782	10.14611	1.2819772	5.5105	37.46032	4.884	10.577
10:38:44				783	9.79811	1.3365322	5.6089	42.63736	4.6398	11.17172
10:38:45				784	9.49603	1.4329531	5.6089	41.31868	4.83516	12.14878
10:38:45				785	9.14466	1.4983267	5.6089	24.46886	4.98168	12.87652
10:38:46				786	8.92015	1.426839	5.5105	10.69597	4.49328	12.28876

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:46				787	9.07804	1.4690205	5.5105	2.14896	4.34676	12.6271
10:38:47				788	8.93094	1.5806265	5.3137	2.1978	4.34676	13.72798
10:38:47				789	8.68997	1.5669359	5.6089	1.51404	4.24908	13.69134
10:38:48				790	8.5637	1.5269935	5.6089	1.51404	4.00488	13.36043
10:38:48				791	8.66235	1.5413267	5.6089	1.51404	4.44444	13.45907
10:38:49				792	8.57159	1.5670983	5.5105	1.51404	4.3956	13.7387
10:38:49				793	8.45597	1.5719294	5.6089	1.51404	4.24908	13.8298
10:38:50				794	8.44905	1.5645205	5.6089	1.51404	4.29792	13.76174
10:38:50				795	8.4293	1.5770855	5.5105	1.51404	4.20024	13.88957
10:38:51				796	8.39762	1.5795001	5.5105	1.4652	4.20024	13.92515
10:38:51				797	8.3768	1.5893259	5.5105	1.4652	4.20024	14.02751
10:38:52				798	8.36493	1.6171937	5.5105	1.51404	4.05372	14.29968
10:38:52				799	8.33915	1.6376551	5.6089	1.51404	4.10256	14.50694
10:38:53				800	8.29159	1.630243	5.6089	1.51404	4.20024	14.45509
10:38:53				801	8.30248	1.6353975	5.6089	1.51404	4.73748	14.50028
10:38:54				802	8.28268	1.6492536	5.5105	1.51404	4.29792	14.64208
10:38:54				803	8.24994	1.6505428	5.5105	1.51404	4.20024	14.66815
10:38:55				804	8.22814	1.6507032	5.6089	1.51404	4.20024	14.67875
10:38:55				805	8.22715	1.6481253	5.5105	1.4652	4.05372	14.65428
10:38:56				806	8.22913	1.6534429	5.6089	1.51404	3.9072	14.70482
10:38:56				807	8.23013	1.6574707	5.6089	1.51404	4.05372	14.74334
10:38:57				808	8.23805	1.6589204	5.5105	1.4652	3.95604	14.75406
10:38:57				809	8.23607	1.6658498	5.6089	1.51404	4.05372	14.82187
10:38:58				810	8.23211	1.6598863	5.6089	1.51404	4.05372	14.76587
10:38:58				811	8.23211	1.6590809	5.5105	1.51404	4.29792	14.7581
10:38:59				812	8.23508	1.6571497	5.5105	1.51404	4.29792	14.73819
10:38:59	10:37:35 @ 6:00	7.5	180	813	8.22814	1.6614975	5.6089	1.51404	4.00488	14.78311
10:39:00				814	8.21223	1.6605313	5.6089	1.51404	4.54212	14.78045
10:39:00				815	8.20727	1.6556983	5.6089	1.51404	4.10256	14.73577
10:39:01				816	8.19537	1.6574709	5.6089	1.51404	4.00488	14.75791
10:39:01				817	8.19141	1.6577944	5.3137	1.56288	4.34676	14.76277
10:39:02				818	8.17548	1.6692337	5.6089	1.51404	4.3956	14.88019
10:39:02				819	8.1735	1.6759992	5.6089	1.4652	3.95604	14.94661
10:39:03				820	8.17251	1.6792222	5.6089	1.51404	4.29792	14.97828
10:39:03				821	8.16755	1.6832501	5.6089	1.51404	4.44444	15.01946
10:39:04				822	8.17152	1.6869561	5.7073	1.4652	4.54212	15.05369
10:39:04				823	8.17449	1.6890503	5.6089	1.51404	4.1514	15.07276
10:39:05				824	8.17449	1.6858272	5.6089	1.51404	4.20024	15.04149
10:39:05				825	8.16854	1.6822838	5.6089	1.51404	4.24908	15.00966
10:39:06				826	8.16457	1.6727762	5.6089	1.51404	4.24908	14.91915
10:39:06				827	8.16061	1.6561824	5.6089	1.51404	4.24908	14.76002
10:39:07				828	8.14969	1.6505434	5.6089	1.4652	4.29792	14.70997
10:39:07				829	8.13673	1.6465149	5.6089	1.4652	4.24908	14.67637
10:39:08				830	8.1278	1.6440998	5.6089	1.51404	4.1514	14.6567
10:39:08				831	8.1417	1.6423279	5.6089	1.4652	4.29792	14.63375

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:09				832	8.16457	1.6397503	5.5105	1.51404	4.1514	14.59932
10:39:09				833	8.15862	1.637978	5.6089	1.4652	4.10256	14.58462
10:39:10				834	8.14969	1.6381378	5.6089	1.4652	4.05372	14.58987
10:39:10				835	8.16259	1.6371719	5.6089	1.4652	4.10256	14.57517
10:39:11				836	8.16457	1.6363661	5.6089	1.51404	4.00488	14.56655
10:39:11				837	8.16259	1.6360443	5.6089	1.4652	4.20024	14.56426
10:39:12				838	8.18348	1.6349168	5.6089	1.4652	4.20024	14.54472
10:39:12				839	8.19637	1.6339492	5.5105	1.4652	4.1514	14.53006
10:39:13				840	8.18348	1.6336277	5.6089	1.4652	4.10256	14.53226
10:39:13				841	8.1735	1.6324985	5.5105	1.4652	4.00488	14.52549
10:39:14				842	8.17846	1.6315341	5.6089	1.51404	4.1514	14.51409
10:39:14				843	8.18744	1.6316935	5.6089	1.4652	4.1514	14.51193
10:39:15				844	8.18143	1.6312102	5.6089	1.4652	4.20024	14.50974
10:39:16				847	8.1774	1.6307169	5.5105	1.4652	4.49328	14.50665
10:39:17				848	8.16749	1.6332937	5.4121	1.51404	4.68864	14.53568
10:39:17				849	8.1655	1.634261	5.5105	1.4652	4.34676	14.54583
10:39:18				850	8.17443	1.6345827	5.6089	1.4652	4.1514	14.54523
10:39:18				851	8.18137	1.6345826	5.6089	1.4652	4.29792	14.54236
10:39:19				852	8.18038	1.636356	5.6089	1.4652	4.44444	14.55991
10:39:19				853	8.1784	1.636356	5.6089	1.4652	4.10256	14.56073
10:39:20				854	8.18335	1.6371593	5.5105	1.51404	4.05372	14.56647
10:39:20				855	8.18732	1.6334556	5.5105	1.41636	4.05372	14.52903
10:39:21				856	8.18831	1.6361938	5.5105	1.4652	4.10256	14.55509
10:39:21				857	8.19036	1.6344205	5.6089	1.4652	4.34676	14.53708
10:39:22				858	8.18831	1.6357099	5.6089	1.4652	4.44444	14.55039
10:39:22				859	8.18534	1.6392559	5.6089	1.4652	4.24908	14.5859
10:39:23				860	8.17344	1.6426376	5.6089	1.51404	4.1514	14.62354
10:39:23				861	8.16352	1.6371594	5.5105	1.4652	4.1514	14.57469
10:39:24				862	8.16154	1.6347448	5.6089	1.4652	4.24908	14.55213
10:39:24				863	8.1655	1.6284605	5.6089	1.4652	4.3956	14.48972
10:39:25				864	8.16848	1.6260436	5.6089	1.4652	4.20024	14.46514
10:39:25				865	8.1774	1.6252399	5.6089	1.51404	4.24908	14.4537
10:39:26				866	8.19432	1.6245955	5.5105	1.51404	4.05372	14.44055
10:39:26				867	8.21018	1.6247546	5.5105	1.4652	4.10256	14.43558
10:39:27				868	8.2082	1.6245954	5.5105	1.51404	4.20024	14.43486
10:39:27				869	8.20919	1.6249163	5.6089	1.51404	4.05372	14.43753
10:39:28				870	8.21712	1.6253989	5.5105	1.4652	4.20024	14.43895
10:39:28				871	8.22307	1.6239511	5.6089	1.51404	4.00488	14.42252
10:39:29				872	8.22406	1.6250779	5.6089	1.51404	4.05372	14.43299
10:39:29				873	8.23105	1.6255606	5.7073	1.4652	4.1514	14.43475
10:39:30				874	8.23105	1.6247545	5.6089	1.51404	4.10256	14.427
10:39:30				875	8.23006	1.625884	5.6089	1.51404	4.1514	14.4383
10:39:31				876	8.21514	1.6271732	5.5105	1.4652	4.1514	14.45689
10:39:31				877	8.22108	1.6278154	5.5105	1.51404	4.10256	14.46065
10:39:32				878	8.22901	1.627656	5.5105	1.51404	4.00488	14.45586

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:32				879	8.23105	1.6279772	5.5105	1.4652	4.20024	14.45811
10:39:33				880	8.22901	1.6278154	5.5105	1.51404	4.24908	14.45739
10:39:33				881	8.23006	1.6265285	5.6089	1.51404	4.20024	14.44452
10:39:34				882	8.23105	1.6273324	5.5105	1.4652	4.1514	14.45189
10:39:34				883	8.22604	1.6271731	5.5105	1.51404	4.24908	14.45242
10:39:35				884	8.23105	1.6257222	5.5105	1.51404	4.1514	14.43636
10:39:35				885	8.2479	1.6212111	5.5105	1.51404	4.20024	14.38596
10:39:36				886	8.26473	1.6051033	5.5105	1.51404	4.00488	14.22395
10:39:36				887	8.29153	1.5901204	5.5105	1.4652	4.05372	14.0691
10:39:37				888	8.32821	1.5807797	5.5105	1.4652	4.00488	13.96484
10:39:37				889	8.35096	1.5638668	5.6089	1.51404	4.10256	13.79376
10:39:38				890	8.36685	1.5619344	5.6089	1.51404	3.9072	13.76906
10:39:38				891	8.37377	1.5548474	5.6089	1.4652	4.20024	13.69856
10:39:39				892	8.39057	1.5469559	5.5105	1.51404	3.9072	13.61664
10:39:39				893	8.40645	1.5369707	5.5105	1.51404	4.1514	13.51519
10:39:40				894	8.42127	1.5042788	5.6089	1.51404	3.95604	13.19797
10:39:40				895	8.47966	1.4284408	5.6089	1.4652	3.80952	12.45737
10:39:41				896	8.60208	1.3925422	5.5105	1.4652	3.95604	12.07662
10:39:41				897	8.69384	1.3795032	5.5105	1.4652	4.00488	11.92327
10:39:42				898	8.74997	1.3804683	5.5105	1.51404	4.05372	11.91345
10:39:42				899	8.77258	1.3403897	5.6089	1.4652	4.29792	11.53195
10:39:43				900	8.78148	1.3276762	5.5105	1.4652	4.6398	11.41072
10:39:43				901	8.7864	1.356324	5.5105	1.51404	4.59096	11.67595
10:39:44				902	8.78934	1.3056291	5.5105	1.4652	4.68864	11.20328
10:39:44				903	8.78738	1.3016052	5.6089	1.4652	4.93284	11.16651
10:39:45				904	8.77553	1.2843886	5.5105	1.51404	4.93284	11.01046
10:39:45				905	8.76963	1.2565514	5.5105	1.4652	4.884	10.75431
10:39:46				906	8.77258	1.2425542	5.5105	1.4652	4.884	10.62393
10:39:46				907	8.76766	1.248347	5.5105	1.4652	5.32357	10.67898
10:39:47				908	8.76275	1.2386928	5.5105	1.4652	5.47009	10.59116
10:39:47				909	8.76865	1.2502772	5.6089	1.4652	5.42125	10.69652
10:39:48				910	8.76373	1.2639533	5.5105	1.4652	5.76313	10.82465
10:39:48				911	8.76766	1.2359579	5.5105	1.4652	5.37241	10.56441
10:39:49				912	8.78738	1.2351532	5.5105	1.4652	5.56777	10.55112
10:39:49				913	8.81391	1.240785	5.5105	1.4652	5.51893	10.59524
10:39:50				914	8.83263	1.2380505	5.6089	1.4652	5.37241	10.56441
10:39:50				915	8.83557	1.2214784	5.5105	1.4652	5.07937	10.41075
10:39:51				916	8.88373	1.2227669	5.5105	1.51404	5.32357	10.40853
10:39:51				917	8.93284	1.2208349	5.5105	1.4652	5.37241	10.37643
10:39:52				918	8.93774	1.2034608	5.5105	1.4652	5.47009	10.21548
10:39:52				919	9.05253	1.2115033	5.3137	1.51404	5.27473	10.25626
10:39:53				920	9.06917	1.1997602	5.2153	1.4652	5.32357	10.14414
10:39:53				921	9.08091	1.1902697	5.117	1.4652	5.42125	10.05415
10:39:54				922	9.16512	1.1811017	5.117	1.4652	5.47009	9.94703
10:39:54				923	9.20523	1.1630884	5.117	6.83761	5.42125	9.77226

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:55				924	9.2619	1.1473254	5.117	7.22833	5.47009	9.61405
10:39:55				925	9.31366	1.1671085	5.117	2.78388	5.66545	9.77912
10:39:56				926	9.37712	1.1659818	5.2153	2.78388	5.66545	9.75164
10:39:56				927	9.38297	1.1674298	5.3137	2.78388	5.61661	9.76312
10:39:57				928	9.33517	1.1640516	5.4121	12.25885	5.71429	9.74556
10:39:57				929	9.29026	1.1627648	5.4121	9.86569	5.47009	9.74612
10:39:58				930	9.29611	1.1635688	5.4121	10.10989	5.51893	9.75181
10:39:58				931	9.36927	1.1564923	5.5105	10.54945	5.61661	9.668
10:39:59				932	9.40731	1.1497387	5.5105	10.94017	5.47009	9.59686
10:39:59				933	9.41218	1.1425007	5.5105	11.08669	5.47009	9.53033
10:40:00				934	9.38102	1.1471641	5.5105	9.91453	5.71429	9.58066
10:40:00				935	9.36829	1.1539185	5.5105	8.30281	5.71429	9.64503
10:40:01				936	9.40244	1.1587451	5.5105	6.78877	5.66545	9.6794
10:40:01				937	9.42781	1.1569739	5.5105	6.73993	5.56777	9.6566
10:40:02				938	9.43657	1.1661434	5.5105	7.91209	5.51893	9.73692
10:40:02				939	9.44533	1.1687163	5.4121	8.40049	5.37241	9.75777
10:40:03				940	9.45701	1.1872131	5.5105	9.57265	5.32357	9.9215
10:40:03				941	9.43949	1.1831911	5.5105	10.25641	5.32357	9.89001
10:40:04				942	9.41121	1.1820656	5.5105	11.67277	5.17705	9.88762
10:40:04				943	9.38881	1.1823888	5.5105	12.35653	5.37241	9.89671
10:40:05				944	9.36732	1.1802968	5.5105	11.77045	5.37241	9.88371
10:40:05				945	9.3605	1.184962	5.5105	10.98901	5.22589	9.92782
10:40:06				946	9.35173	1.1901078	5.5105	10.35409	5.32357	9.97685
10:40:06				947	9.34101	1.2105373	5.5105	8.79121	5.61661	10.16512
10:40:07				948	9.23653	1.2285567	5.5105	8.88889	5.86081	10.35896
10:40:07	10:38:43 end transect	7.5	270	949	9.09662	1.2383694	5.7073	1.51404	5.42125	10.48937
10:40:08				950	9.03192	1.2419104	5.6089	1.51404	5.42125	10.54091
10:40:08				951	8.98974	1.2802032	5.7073	1.51404	5.47009	10.90578
10:40:09				952	8.95244	1.2927544	5.7073	1.4652	5.47009	11.03306
10:40:09				953	8.88079	1.3008001	5.8056	1.4652	5.22589	11.12974
10:40:10				954	8.85324	1.32848	5.7073	1.4652	5.17705	11.39515
10:40:10				955	8.81587	1.4145943	5.8056	1.4652	5.12821	12.21017
10:40:11				956	8.7657	1.5118444	5.904	1.4652	4.93284	13.14154
10:40:11				957	8.67016	1.5078203	6.1008	1.4652	4.73748	13.13887
10:40:12				958	8.59518	1.4870461	6.1992	1.41636	4.29792	12.96998
10:40:12				959	8.58139	1.5305258	6.1008	1.4652	3.85836	13.38718
10:40:13				960	8.5142	1.6241089	6.2976	1.4652	4.05372	14.30539
10:40:13				961	8.43115	1.629266	6.3959	1.4652	4.20024	14.38849
10:40:14				962	8.41732	1.6427988	6.3959	1.4652	4.24908	14.52408
10:40:14				963	8.33909	1.6320044	6.5927	1.4652	4.10256	14.45236
10:40:15				964	8.29549	1.6463442	6.6911	1.4652	4.10256	14.60844
10:40:16				967	8.28367	1.6541343	7.0846	1.4652	4.05372	14.68841
10:40:17				968	8.29654	1.6757242	7.183	1.51404	4.05372	14.89145
10:40:17				969	8.28961	1.7027936	7.2814	1.51404	4.00488	15.15614
10:40:18				970	8.27668	1.6644455	7.4781	1.41636	4.05372	14.7908

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:18				971	8.28664	1.6691177	7.3798	1.51404	4.05372	14.83176
10:40:19				972	8.27569	1.7880494	7.4781	1.51404	4.10256	15.98978
10:40:19				973	8.24895	1.7015062	7.6749	1.4652	3.663	15.16107
10:40:20				974	8.24796	1.705373	7.5765	1.51404	3.61416	15.199
10:40:20				975	8.26579	1.7040844	7.5765	1.51404	3.51648	15.17882
10:40:21				976	8.26579	1.7024719	7.5765	1.4652	3.61416	15.1632
10:40:21				977	8.23997	1.7094009	7.5765	1.51404	3.663	15.24149
10:40:22				978	8.23205	1.6882923	7.5765	1.51404	3.71184	15.04033
10:40:22				979	8.23105	1.6939326	7.5765	1.4652	3.85836	15.0954
10:40:23				980	8.237	1.6744352	7.5765	1.51404	3.85836	14.90408
10:40:23				981	8.25291	1.680397	7.5765	1.51404	3.61416	14.95502
10:40:24				982	8.26183	1.6895808	7.5765	1.51404	3.85836	15.04009
10:40:24				983	8.25885	1.6915146	7.5765	1.51404	3.95604	15.06008
10:40:25				984	8.25687	1.6770118	7.5765	1.51404	3.71184	14.92059
10:40:25				985	8.25984	1.68104	7.5765	1.4652	3.76068	14.95829
10:40:26				986	8.26183	1.6805583	7.5765	1.51404	3.61416	14.95279
10:40:26				987	8.25786	1.6841029	7.5765	1.51404	3.76068	14.98877
10:40:27				988	8.24994	1.7018281	7.5765	1.4652	4.44444	15.16379
10:40:27				989	8.24895	1.7016659	7.5765	1.51404	3.76068	15.16264
10:40:28				990	8.25291	1.7340575	7.4781	1.4652	3.80952	15.4751
10:40:28	10:39:04 start transect	7.5	270	991	8.23799	1.7467882	7.4781	1.4652	3.80952	15.60535
10:40:29				992	8.20126	1.7561361	7.5765	1.4652	3.95604	15.7126
10:40:29				993	8.17548	1.7458229	7.5765	1.4652	3.80952	15.62367
10:40:30				994	8.17647	1.7424384	7.5765	1.4652	3.61416	15.59028
10:40:30				995	8.18044	1.7351844	7.5765	1.4652	3.95604	15.51793
10:40:31				996	8.18936	1.7245495	7.5765	1.4652	3.76068	15.41059
10:40:31				997	8.20225	1.7276111	7.5765	1.4652	3.80952	15.4347
10:40:32				998	8.20225	1.7134302	7.5765	1.4652	4.05372	15.29695
10:40:32				999	8.20225	1.7239047	7.5765	1.4652	3.76068	15.39869
10:40:33				1000	8.20126	1.7451774	7.5765	1.4652	3.76068	15.60594
10:40:33				1001	8.17647	1.7677406	7.4781	1.51404	3.85836	15.83679
10:40:34				1002	8.16253	1.7633899	7.5765	1.4652	4.00488	15.80062
10:40:34				1003	8.15261	1.7524308	7.5765	1.51404	3.9072	15.69822
10:40:35				1004	8.15757	1.7406654	7.5765	1.51404	3.80952	15.58139
10:40:35				1005	8.16054	1.7435647	7.4781	1.4652	3.85836	15.60833
10:40:36				1006	8.15856	1.7472728	7.4781	1.51404	3.85836	15.64533
10:40:36				1007	8.15955	1.7367969	7.4781	1.51404	3.9072	15.54287
10:40:37				1008	8.15757	1.7313184	7.5765	1.51404	3.80952	15.4904
10:40:37				1009	8.15558	1.7243891	7.4781	1.51404	3.76068	15.42386
10:40:38				1010	8.16054	1.7195527	7.4781	1.51404	4.00488	15.37465
10:40:38				1011	8.16953	1.7134304	7.4781	1.51404	3.85836	15.31121
10:40:39				1012	8.1854	1.7079516	7.5765	1.51404	3.80952	15.25107
10:40:39				1013	8.19333	1.7123019	7.4781	1.51404	3.76068	15.2899
10:40:40				1014	8.19928	1.7166518	7.4781	1.51404	3.71184	15.32955
10:40:40				1015	8.19928	1.7200361	7.4781	1.51404	3.9072	15.36243

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:41				1016	8.19829	1.7463043	7.5765	1.51404	3.95604	15.61823
10:40:41				1017	8.19432	1.7603254	7.4781	1.51404	4.1514	15.75652
10:40:42				1018	8.19036	1.7533977	7.5765	1.51404	3.71184	15.6908
10:40:42				1019	8.18837	1.7514636	7.5765	1.4652	3.61416	15.67285
10:40:43				1020	8.19333	1.7670971	7.5765	1.51404	3.80952	15.82291
10:40:43				1021	8.19432	1.7593593	7.5765	1.51404	3.80952	15.74708
10:40:44				1022	8.19829	1.7424383	7.5765	1.4652	3.85836	15.58061
10:40:44				1023	8.20529	1.7322856	7.5765	1.51404	3.663	15.4788
10:40:45				1024	8.21223	1.7869197	7.5765	1.51404	3.51648	16.00758
10:40:45				1025	8.2152	1.8312487	7.5765	1.4652	3.22344	16.43902
10:40:46				1026	8.2043	1.8243172	7.5765	1.4652	3.07692	16.37634
10:40:46				1027	8.19432	1.8243173	7.5765	1.51404	3.32112	16.38099
10:40:47				1028	8.18738	1.8538171	7.5765	1.4652	3.12576	16.67297
10:40:47				1029	8.15261	1.8862215	7.5765	1.4652	3.46764	17.00755
10:40:48				1030	8.08804	1.8875123	7.5765	1.4652	3.4188	17.05153
10:40:48				1031	8.04924	1.855753	7.5765	1.4652	3.4188	16.75768
10:40:49				1032	8.04824	1.9028297	7.5765	1.4652	3.27228	17.2219
10:40:49				1033	8.03626	1.945882	7.4781	1.51404	3.36996	17.65317
10:40:50				1034	7.99444	1.9994229	7.5765	1.4652	3.32112	18.2053
10:40:50				1035	7.94763	2.0205501	7.5765	1.4652	3.1746	18.43992
10:40:51				1036	7.93868	2.05055	7.5765	1.51404	3.22344	18.74376
10:40:51				1037	7.88877	2.0507119	7.5765	1.4652	3.71184	18.77211
10:40:52				1038	7.73198	2.051036	7.5765	1.51404	3.22344	18.85973
10:40:52				1039	7.65294	2.0495856	7.5765	1.51404	3.1746	18.88791
10:40:53				1040	7.62589	2.0481326	7.5765	1.4652	3.02808	18.88794
10:40:53				1041	7.62089	2.0632962	7.5765	1.51404	2.83272	19.0434
10:40:54				1042	7.59989	2.1078174	7.5765	1.51404	3.07692	19.50438
10:40:54				1043	7.56581	2.098946	7.5765	1.4652	2.97924	19.43373
10:40:55				1044	7.5297	2.1024947	7.4781	1.56288	2.88156	19.48986
10:40:55				1045	7.5046	2.109433	7.5765	1.51404	2.83272	19.57422
10:40:56				1046	7.48651	2.0991069	7.5765	1.51404	3.32112	19.4797
10:40:56				1047	7.49859	2.0879772	7.3798	1.56288	3.12576	19.36025
10:40:57				1048	7.51662	2.1147551	7.4781	1.51404	2.78388	19.62143
10:40:57				1049	7.51362	2.1084633	7.5765	1.4652	2.97924	19.55932
10:40:58				1050	7.49358	2.0892684	7.5765	1.51404	2.88156	19.37605
10:40:58				1051	7.50661	2.1024948	7.5765	1.51404	2.88156	19.50277
10:40:59				1052	7.51863	2.1020106	7.5765	1.4652	3.61416	19.49113
10:40:59				1053	7.50661	2.0876544	7.5765	1.51404	3.02808	19.35246
10:41:00				1054	7.49459	2.0852332	7.5765	1.51404	2.9304	19.33463
10:41:00				1055	7.49358	2.0852332	7.5765	1.51404	3.1746	19.33518
10:41:01				1056	7.5016	2.0858783	7.5765	1.4652	3.02808	19.33726
10:41:01				1057	7.50861	2.0826531	7.5765	1.4652	3.02808	19.30072
10:41:02				1058	7.51562	2.0839429	7.5765	1.4652	3.02808	19.30988
10:41:02				1059	7.52163	2.0794273	7.5765	1.51404	3.07692	19.26086
10:41:03				1060	7.5267	2.0803939	7.5765	1.4652	2.88156	19.26783

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:03				1061	7.5297	2.07362	7.5765	1.4652	3.02808	19.19767
10:41:04				1062	7.54072	2.0708784	7.5765	1.51404	2.9304	19.16389
10:41:04				1063	7.5608	2.0642629	7.4781	1.4652	3.07692	19.08607
10:41:05				1064	7.56981	2.0584571	7.5765	1.4652	2.73504	19.02251
10:41:05				1065	7.57981	2.0332945	7.5765	1.4652	3.27228	18.76341
10:41:06				1066	7.59482	2.0242623	7.5765	1.4652	3.27228	18.66442
10:41:06				1067	7.59582	2.0086174	7.5765	1.4652	3.12576	18.50652
10:41:07				1068	7.60789	2.0160352	7.5765	1.4652	2.97924	18.57468
10:41:07				1069	7.62189	1.991522	7.5765	1.4652	3.12576	18.32101
10:41:08				1070	7.64195	2.0053912	7.5765	1.51404	3.4188	18.44965
10:41:08				1071	7.64195	2.0087772	7.5765	1.4652	3.46764	18.48365
10:41:09				1072	7.64794	2.0100693	7.5765	1.4652	3.46764	18.49344
10:41:09				1073	7.65894	2.0129723	7.5765	1.51404	3.12576	18.51675
10:41:10				1074	7.67699	2.0210362	7.5765	1.4652	3.1746	18.58809
10:41:10				1075	7.67599	2.0234558	7.5765	1.4652	3.36996	18.61291
10:41:11				1076	7.67399	2.0232925	7.5765	1.51404	3.22344	18.61234
10:41:11				1077	7.66693	2.0282934	7.5765	1.4652	3.07692	18.66633
10:41:12				1078	7.65894	2.0271653	7.5765	1.4652	3.1746	18.65928
10:41:12				1079	7.65394	2.0402281	7.5765	1.51404	3.22344	18.79325
10:41:13				1080	7.65394	2.0434555	7.4781	1.51404	3.80952	18.82573
10:41:13				1081	7.65794	2.0458754	7.5765	1.4652	3.4188	18.84788
10:41:14				1082	7.66094	2.051198	7.5765	1.51404	3.22344	18.8998
10:41:14				1083	7.65394	2.0529726	7.4781	1.51404	2.9304	18.92147
10:41:15				1084	7.64295	2.054263	7.5765	1.4652	3.1746	18.9404
10:41:16				1087	7.64819	2.0531288	7.4781	1.51404	2.97924	18.92616
10:41:17				1088	7.65819	2.0534519	7.5765	1.51404	2.88156	18.92396
10:41:17				1089	7.66924	2.0550629	7.5765	1.51404	3.02808	18.93417
10:41:18				1090	7.66924	2.0634524	7.5765	1.51404	3.27228	19.01858
10:41:18				1091	7.65019	2.0684535	7.5765	1.51404	3.02808	19.07934
10:41:19				1092	7.6322	2.021676	7.5765	1.51404	3.27228	18.61841
10:41:19				1093	7.66418	2.0361919	7.5765	1.51404	3.02808	18.74716
10:41:20				1094	7.68523	2.0765162	7.4781	1.51404	2.9304	19.14136
10:41:20				1095	7.65819	2.0868425	7.5765	1.51404	3.22344	19.26023
10:41:21				1096	7.61914	2.072808	7.5765	1.51404	3.71184	19.14025
10:41:21				1097	7.59413	2.0570011	7.5765	1.51404	3.51648	18.99455
10:41:22				1098	7.58107	2.0758729	7.4781	1.51404	2.97924	19.19214
10:41:22				1099	7.55905	2.0782925	7.4781	1.51404	3.12576	19.22873
10:41:23				1100	7.54397	2.08394	7.5765	1.51404	3.4188	19.29413
10:41:23	10:39:59 @ 6:00	7.5	180	1101	7.53096	2.0752294	7.5765	1.4652	3.02808	19.21325
10:41:24				1102	7.53196	2.0778082	7.5765	1.51404	2.83272	19.23877
10:41:24				1103	7.54698	2.0792618	7.4781	1.51404	3.22344	19.2452
10:41:25				1104	7.53997	2.0879714	7.5765	1.4652	2.97924	19.33712
10:41:25				1105	7.52695	2.0884543	7.5765	1.4652	2.9304	19.34924
10:41:26				1106	7.51587	2.072487	7.5765	1.51404	2.83272	19.19385
10:41:26				1107	7.51587	2.086358	7.4781	1.4652	3.02808	19.33421

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:27				1108	7.50686	2.0860355	7.4781	1.4652	3.02808	19.33596
10:41:27				1109	7.49684	2.0799066	7.4781	1.51404	3.02808	19.27947
10:41:28				1110	7.50285	2.0805511	7.5765	1.4652	2.9304	19.28264
10:41:28				1111	7.51086	2.0782929	7.5765	1.4652	3.02808	19.25534
10:41:29				1112	7.51187	2.0836149	7.5765	1.51404	3.02808	19.30865
10:41:29				1113	7.50986	2.1170105	7.5765	1.4652	2.9304	19.64808
10:41:30				1114	7.49584	2.121366	7.4781	1.4652	2.88156	19.70022
10:41:30				1115	7.46872	2.1331412	7.5765	1.51404	2.97924	19.83517
10:41:31				1116	7.44567	2.1371764	7.5765	1.4652	2.9304	19.88937
10:41:31				1117	7.42454	2.1345947	7.4781	1.4652	2.88156	19.87522
10:41:32				1118	7.41652	2.1368535	7.4781	1.51404	3.12576	19.90281
10:41:32				1119	7.40944	2.1324986	7.5765	1.4652	3.1746	19.86251
10:41:33				1120	7.40442	2.135887	7.4781	1.51404	3.02808	19.8999
10:41:33				1121	7.40342	2.1365304	7.4781	1.51404	2.9304	19.90703
10:41:34				1122	7.3994	2.1365305	7.5765	1.4652	2.88156	19.9093
10:41:34				1123	7.3984	2.1358871	7.5765	1.4652	3.12576	19.90332
10:41:35				1124	7.40041	2.1321758	7.5765	1.51404	2.88156	19.86439
10:41:35				1125	7.40141	2.1350794	7.5765	1.4652	2.83272	19.89337
10:41:36				1126	7.40542	2.1426623	7.5765	1.4652	2.97924	19.96829
10:41:36				1127	7.40442	2.1546016	7.4781	1.4652	2.83272	20.09054
10:41:37				1128	7.3974	2.1715423	7.4781	1.4652	2.78388	20.26738
10:41:37				1129	7.37632	2.1731554	7.5765	1.4652	2.83272	20.29613
10:41:38				1130	7.35117	2.1520196	7.5765	1.51404	2.83272	20.09501
10:41:38				1131	7.34414	2.1886464	7.4781	1.4652	2.6862	20.47338
10:41:39				1132	7.33403	2.1976821	7.4781	1.4652	2.97924	20.57182
10:41:39				1133	7.30082	2.2065558	7.4781	1.51404	3.07692	20.68248
10:41:40				1134	7.26055	2.2042975	7.5765	1.4652	2.9304	20.68332
10:41:40				1135	7.25754	2.1896152	7.4781	1.4652	2.83272	20.53453
10:41:41				1136	7.26256	2.1902597	7.4781	1.4652	2.58852	20.53815
10:41:41				1137	7.28273	2.2101067	7.4781	1.4652	2.6862	20.7297
10:41:42				1138	7.25653	2.2118818	7.5765	1.4652	2.88156	20.76357
10:41:42				1139	7.2334	2.1960677	7.5765	1.51404	3.02808	20.61504
10:41:43				1140	7.22831	2.1957465	7.5765	1.41636	2.97924	20.61477
10:41:43				1141	7.23133	2.2160786	7.4781	1.4652	2.53968	20.82185
10:41:44				1142	7.22932	2.203815	7.4781	1.51404	2.78388	20.69706
10:41:44				1143	7.22831	2.1962312	7.4781	1.4652	2.6862	20.61978
10:41:45				1144	7.2334	2.1952618	7.4781	1.4652	2.78388	20.60679
10:41:45				1145	7.2273	2.1897759	7.5765	1.51404	2.73504	20.55408
10:41:46				1146	7.22429	2.180417	7.4781	1.4652	2.88156	20.45986
10:41:46				1147	7.23843	2.1705758	7.4781	1.4652	2.9304	20.35061
10:41:47				1148	7.25251	2.1576674	7.4781	1.51404	2.9304	20.21013
10:41:47				1149	7.25854	2.1554078	7.4781	1.4652	2.9304	20.18348
10:41:48				1150	7.27369	2.1376624	7.4781	1.4652	3.02808	19.99319
10:41:48				1151	7.29178	2.1331424	7.5765	1.51404	2.97924	19.93656
10:41:49				1152	7.3039	2.1316922	7.4781	1.4652	2.88156	19.91481

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:49				1153	7.31696	2.1224949	7.4781	1.4652	2.83272	19.81348
10:41:50				1154	7.34313	2.1160433	7.4781	1.4652	2.88156	19.73279
10:41:50				1155	7.36823	2.1124935	7.5765	1.4652	3.02808	19.68235
10:41:51				1156	7.37124	2.1197536	7.5765	1.4652	2.97924	19.75455
10:41:51				1157	7.36221	2.1194289	7.5765	1.4652	3.07692	19.75639
10:41:52				1158	7.35518	2.1223335	7.4781	1.4652	3.22344	19.79001
10:41:52				1159	7.3592	2.1463732	7.5765	1.4652	3.07692	20.03275
10:41:53				1160	7.35619	2.1655719	7.5765	1.4652	2.83272	20.23045
10:41:53				1161	7.35518	2.1605709	7.4781	1.4652	2.83272	20.18
10:41:54				1162	7.35719	2.1733183	7.4781	1.4652	2.88156	20.30902
10:41:54				1163	7.3592	2.1933255	7.5765	1.4652	2.83272	20.51231
10:41:55				1164	7.36121	2.1989731	7.4781	1.4652	2.63736	20.56891
10:41:55				1165	7.35719	2.2055897	7.4781	1.4652	2.83272	20.639
10:41:56				1166	7.35317	2.2017147	7.5765	1.4652	2.6862	20.6017
10:41:56				1167	7.34113	2.198649	7.5765	1.41636	2.78388	20.57747
10:41:57				1168	7.34916	2.1741236	7.4781	1.4652	2.6862	20.32195
10:41:57				1169	7.37325	2.1752544	7.3798	1.51404	2.6862	20.31942
10:41:58				1170	7.34012	2.1813855	7.3798	1.4652	2.83272	20.40152
10:41:58				1171	7.327	2.17138	7.2814	1.4652	2.88156	20.30694
10:41:59				1172	7.32399	2.1618615	7.2814	1.51404	2.83272	20.2114
10:41:59				1173	7.32399	2.1989734	7.2814	1.4652	2.83272	20.59106
10:42:00				1174	7.30691	2.1879995	7.3798	1.4652	2.97924	20.48877
10:42:00				1175	7.29278	2.2297944	7.4781	1.51404	3.02808	20.9257
10:42:01				1176	7.23441	2.2493205	7.4781	1.4652	2.88156	21.16191
10:42:01				1177	7.19706	2.267719	7.4781	1.51404	2.83272	21.37446
10:42:02				1178	7.14867	2.2988681	7.5765	1.51404	2.9304	21.7264
10:42:02				1179	7.08003	2.2796611	7.5765	1.4652	2.6862	21.57056
10:42:03				1180	7.076	2.2614269	7.5765	1.51404	2.58852	21.38429
10:42:03				1181	7.09011	2.2599717	7.5765	1.51404	2.73504	21.3605
10:42:04				1182	7.11436	2.2630392	7.5765	1.51404	2.53968	21.37722
10:42:04				1183	7.12853	2.2435109	7.6749	1.51404	2.53968	21.16673
10:42:05				1184	7.11335	2.2356052	7.6749	1.51404	2.73504	21.0944
10:42:05				1185	7.11033	2.2273739	7.6749	1.51404	2.83272	21.01128
10:42:06				1186	7.12343	2.2226951	7.6749	1.51404	2.58852	20.95506
10:42:06				1187	7.13659	2.227697	7.6749	1.51404	2.78388	20.99866
10:42:07				1188	7.14263	2.2291488	7.6749	1.4652	2.83272	21.00995
10:42:07				1189	7.15673	2.2118825	7.6749	1.51404	2.73504	20.82351
10:42:08				1190	7.17693	2.2060738	7.6749	1.51404	2.78388	20.75159
10:42:08				1191	7.20014	2.1928422	7.5765	1.51404	2.78388	20.60172
10:42:09				1192	7.22529	2.2123654	7.5765	1.51404	2.83272	20.78728
10:42:09				1193	7.22127	2.2201116	7.5765	1.51404	2.9304	20.86933
10:42:10				1194	7.19913	2.2133354	7.5765	1.51404	2.73504	20.81298
10:42:10				1195	7.19404	2.2113989	7.5765	1.51404	2.73504	20.79612
10:42:11				1196	7.19203	2.2012335	7.4781	1.51404	2.9304	20.69283
10:42:11				1197	7.21423	2.1884841	7.3798	1.51404	2.83272	20.54864

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:12				1198	7.26765	2.1723509	7.183	1.4652	2.78388	20.35172
10:42:12	10:40:48 end transect	7.5	90	1199	7.27469	2.1520201	7.183	1.51404	2.73504	20.13951
10:42:13				1200	7.2968	2.1513746	7.2814	1.51404	3.07692	20.12003
10:42:13				1201	7.30289	2.1297557	7.0846	1.4652	3.07692	19.89574
10:42:14				1202	7.39439	2.0602271	6.5927	1.51404	2.97924	19.13697
10:42:14				1203	7.57506	2.0403868	6.1992	1.51404	3.07692	18.83784
10:42:15				1204	7.64819	1.9970011	5.904	1.4652	3.12576	18.36263
10:42:16				1207	8.09418	1.752287	4.9202	1.4652	3.4188	15.72358
10:42:17				1208	8.15081	1.640779	4.6251	1.4652	3.95604	14.61519
10:42:17				1209	8.17269	1.6175794	4.4283	1.51404	4.1514	14.38189
10:42:18				1210	8.22133	1.6219294	4.1331	1.4652	4.00488	14.40405
10:42:18				1211	8.26894	1.6146795	3.838	1.4652	4.10256	14.31482
10:42:19				1212	8.27191	1.5967991	3.5428	1.51404	4.20024	14.14159
10:42:19				1213	8.263	1.5976046	3.6412	1.4652	4.05372	14.1529
10:42:20				1214	8.26597	1.5568523	3.4445	1.4652	3.95604	13.7602
10:42:20				1215	8.43837	1.4500809	3.0509	1.51404	4.29792	12.67739
10:42:21				1216	8.80924	1.3221048	2.7558	1.51404	4.73748	11.35051
10:42:21				1217	8.97235	0.8607831	2.3623	1.4652	4.68864	7.11138
10:42:22				1218	8.98019	0.910426	2.0671	4.10256	5.37241	7.55193
10:42:22				1219	8.95961	0.6502944	1.6736	4.10256	5.37241	5.26515
10:42:23				1220	8.99005	0.5771339	1.3784	1.51404	8.98657	4.62989
10:42:23				1221	9.11252	0.5205179	1.1817	1.51404	9.52381	4.13211
10:42:24				1222	9.12333	0.4241717	0.9849	1.51404	9.71917	3.32093
10:42:24				1223	9.13604	0.3445418	0.9849	1.51404	9.57265	2.66132
10:42:25				1224	9.22701	0.3032201	0.9849	1.51404	9.67033	2.31815
10:42:25				1225	9.3969	0.2897697	0.8865	1.56288	9.23077	2.19895
10:42:26				1226	9.46898	0.3900386	0.9849	1.4652	8.93773	3.00827
10:42:26				1227	9.42027	0.1836506	0.7881	1.51404	9.13309	1.35759
10:42:27				1228	9.46023	0.3091451	0.6898	1.51404	10.98901	2.35094
10:42:27				1229	9.45342	0.0562034	0.5914	1.41636	10.94017	0.39337
10:42:28				1230	9.45828	0.0747442	0.5914	2.88156	4.93284	0.52902
10:42:28				1231	9.47482	0.3275626	0.5914	0	0	2.49873
10:42:29				1232	9.49725	0.3541516	0.5914	0	0	2.71288
10:42:29				1233	9.51183	0.3422986	0.6898	0	0	2.61551
10:42:30				1234	9.53321	0.3411769	0.6898	0	0	2.60487
10:42:30				1235	9.56825	0.3432597	0.6898	0	0	2.61921
10:42:31	10:41:14 switch off	7.5	90	1236	9.62074	0.3445412	0.6898	0	0	2.62578
10:46:02	10:44:36 switch on	5	90	7	9.20688	0.4495306	1.4768	0	0	3.52457
10:46:03				8	9.20199	0.453698	1.4768	0	0	3.55988
10:46:03				9	9.20395	0.4554605	1.4768	0	0	3.57443
10:46:04				10	9.16481	0.4668435	1.4768	0	0	3.67373
10:46:04				11	9.12077	0.4771031	1.4768	0	0	3.76451
10:46:05				12	9.10115	0.4865638	1.4768	0	0	3.84629
10:46:05				13	9.08745	0.4947406	1.4768	0	0	3.91678

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:06				14	9.06691	0.4965052	1.4768	0	0	3.93395
10:46:06				15	9.04923	0.4955425	1.4768	0	0	3.92775
10:46:07				16	9.03455	0.493138	1.4768	0	0	3.90902
10:46:07				17	9.02769	0.4958634	1.4768	0	0	3.93283
10:46:08				18	9.02573	0.4992308	1.4768	0	0	3.96155
10:46:08				19	9.01294	0.5030794	1.4768	0	0	3.99558
10:46:09				20	8.99825	0.5064471	1.4768	0	0	4.02579
10:46:09				21	8.99335	0.505484	1.4768	0	0	4.01817
10:46:10				22	8.99335	0.5040412	1.4768	0	0	4.00593
10:46:10				23	8.99433	0.507409	1.3784	0	0	4.0344
10:46:11				24	8.99531	0.507409	1.4768	0	0	4.03428
10:46:11				25	9.00021	0.5003531	1.4768	0	0	3.97389
10:46:12				26	9.00315	0.4993916	1.4768	0	0	3.96542
10:46:12				27	9.00217	0.5078901	1.4768	0	0	4.03759
10:46:13				28	9.00119	0.5094926	1.4768	0	0	4.0513
10:46:13				29	9.00707	0.5088511	1.4768	0	0	4.04519
10:46:14				30	9.02769	0.5074089	1.4768	0	0	4.03063
10:46:14				31	9.0365	0.5037205	1.4768	0	0	3.99838
10:46:15				32	9.04238	0.5027589	1.4768	0	0	3.98958
10:46:15				33	9.04042	0.5021165	1.4768	0	0	3.98436
10:46:16				34	9.04727	0.5025979	1.4768	0	0	3.98767
10:46:16				35	9.04923	0.501315	1.4768	0	0	3.97659
10:46:17				36	9.05608	0.501154	1.4768	0	0	3.97447
10:46:17				37	9.06489	0.5013149	1.4768	0	0	3.97485
10:46:18				38	9.07767	0.5021164	1.4768	0	0	3.98021
10:46:18				39	9.07865	0.501154	1.4768	0	0	3.97196
10:46:19				40	9.07571	0.5014759	1.4768	0	0	3.97501
10:46:19				41	9.07571	0.5017961	1.4768	0	0	3.97772
10:46:20				42	9.08158	0.5013149	1.4768	0	0	3.973
10:46:20				43	9.08354	0.5005138	1.4768	0	0	3.96601
10:46:21				44	9.09137	0.500673	1.4768	0	0	3.96648
10:46:21				45	9.09919	0.5009947	1.4768	0	0	3.96834
10:46:22				46	9.10702	0.5013149	1.4768	0	0	3.97018
10:46:22				47	9.10702	0.4993914	1.4768	0	0	3.95392
10:46:23				48	9.10903	0.4995505	1.4768	0	0	3.95504
10:46:23				49	9.10702	0.5000312	1.4768	0	0	3.95933
10:46:24				50	9.10903	0.4995505	1.4768	0	0	3.95504
10:46:24				51	9.10903	0.496985	1.4768	0	0	3.93337
10:46:25				52	9.10702	0.496985	1.4768	0	0	3.9336
10:46:25				53	9.10702	0.4985895	1.4768	0	0	3.94715
10:46:26				54	9.10903	0.4981075	1.4768	0	0	3.94285
10:46:26				55	9.11588	0.4944199	1.4768	0	0	3.91097
10:46:27				56	9.10903	0.4945802	1.4768	0	0	3.91307
10:46:27				57	9.10506	0.4965051	1.4768	0	0	3.92976
10:46:28				58	9.10408	0.4974667	1.4768	0	0	3.93799

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:28				59	9.11001	0.4929777	1.4768	0	0	3.89944
10:46:29				60	9.11197	0.4862429	1.4768	0	0	3.84242
10:46:29				61	9.11783	0.4926557	1.4768	0	0	3.89587
10:46:30				62	9.11392	0.4940993	1.4768	0	0	3.90847
10:46:30				63	9.11294	0.4880057	1.4768	0	0	3.85718
10:46:31				64	9.11588	0.4854403	1.4768	0	0	3.83523
10:46:31				65	9.11979	0.4844786	1.4768	0	0	3.82671
10:46:32				66	9.1237	0.4820741	1.4768	0	0	3.80604
10:46:32				67	9.12761	0.4864025	1.4768	0	0	3.84209
10:46:33				68	9.13348	0.4923354	1.4768	0	0	3.89146
10:46:33				69	9.13739	0.4820741	1.4768	0	0	3.80459
10:46:34				70	9.13543	0.4732563	1.4768	0	0	3.73062
10:46:34				71	9.1325	0.4835174	1.4768	0	0	3.81726
10:46:35				72	9.13054	0.4881671	1.4768	0	0	3.85664
10:46:35				73	9.12957	0.4785472	1.4768	0	0	3.77573
10:46:36				74	9.13348	0.471332	1.4768	0	0	3.71465
10:46:36				75	9.13445	0.4803106	1.4768	0	0	3.79006
10:46:37				76	9.1325	0.4836767	1.4768	0	0	3.8186
10:46:37				77	9.12761	0.4804713	1.4768	0	0	3.79213
10:46:38				78	9.12566	0.4758205	1.4768	0	0	3.7532
10:46:38				79	9.12663	0.4774239	1.4768	0	0	3.76659
10:46:39				80	9.12761	0.4785473	1.4768	0	0	3.77594
10:46:39				81	9.12174	0.4753397	1.4768	0	0	3.74957
10:46:40				82	9.1149	0.4790273	1.4768	0	0	3.78132
10:46:40				83	9.07865	0.4804714	1.4768	0	0	3.79732
10:46:41				84	9.06293	0.4769428	1.4768	0	0	3.76924
10:46:41				85	9.05314	0.4796698	1.4768	0	0	3.79327
10:46:42				86	9.06097	0.4788668	1.4768	0	0	3.78567
10:46:42				87	9.06789	0.4791879	1.4768	0	0	3.78764
10:46:43				88	9.07865	0.4771032	1.4768	0	0	3.76894
10:46:43				89	9.08745	0.4730963	1.4768	0	0	3.73428
10:46:44				90	9.07082	0.4798287	1.4768	0	0	3.79273
10:46:44				91	9.0551	0.4819134	1.4768	0	0	3.81199
10:46:45				92	9.04336	0.4748592	1.4768	0	0	3.75374
10:46:45				93	9.04629	0.4730964	1.4768	0	0	3.73857
10:46:46				94	9.03944	0.4812718	1.4768	0	0	3.80824
10:46:46				95	9.03455	0.4743787	1.3784	0	0	3.75062
10:46:47				96	9.04531	0.4844787	1.4768	0.63492	0.29304	3.83468
10:46:47				97	9.04042	0.4992308	1.4768	0.39072	0.09768	3.95993
10:46:48				98	9.03944	0.5211988	1.4768	1.51404	1.02564	4.14632
10:46:48				99	9.0228	0.5149452	1.4768	1.51404	11.23321	4.09513
10:46:49				100	8.99629	0.5149452	1.4768	1.51404	10.15873	4.09817
10:46:49				101	8.98846	0.5167095	1.4768	1.51404	9.86569	4.11406
10:46:50				102	8.9737	0.5211989	1.4768	1.4652	9.76801	4.15395
10:46:50				103	8.9688	0.5210396	1.4768	1.4652	10.06105	4.15317

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:51				104	8.9688	0.5191154	1.4768	1.4652	9.96337	4.13679
10:46:51				105	8.96586	0.5226436	1.4768	1.4652	9.81685	4.16716
10:46:52				106	8.96096	0.5264913	1.4768	1.4652	9.76801	4.20051
10:46:52				107	8.95508	0.5187938	1.4768	1.4652	9.76801	4.13564
10:46:53				108	8.9639	0.5088511	1.4768	1.4652	9.96337	4.05008
10:46:53				109	8.97566	0.5110965	1.4768	1.51404	9.32845	4.06783
10:46:54				110	8.9865	0.5110965	1.4768	1.51404	9.52381	4.06659
10:46:54				111	8.99237	0.5086912	1.4768	1.51404	9.71917	4.0455
10:46:55				112	8.99531	0.4993916	1.4768	1.51404	9.96337	3.96629
10:46:55				113	8.99433	0.4969852	1.4768	1.4652	9.91453	3.94601
10:46:56				114	8.99727	0.4918553	1.4768	1.4652	10.06105	3.90224
10:46:56				115	9.00119	0.4897705	1.4768	1.4652	10.01221	3.88417
10:46:57				116	9.00707	0.4862431	1.4768	1.51404	10.59829	3.8537
10:46:57				117	9.01001	0.4841583	1.4768	1.51404	10.20757	3.83576
10:46:58				118	9.02176	0.4886482	1.4768	1.4652	10.35409	3.87245
10:46:58				119	9.02476	0.4873654	1.4768	1.41636	10.01221	3.86128
10:46:59				120	9.02176	0.4902518	1.4768	1.51404	9.81685	3.88601
10:46:59				121	9.01784	0.4934584	1.4768	1.51404	10.10989	3.91356
10:47:00				122	9.01686	0.488327	1.4768	1.4652	9.81685	3.87026
10:47:00				123	9.03063	0.4867235	1.4768	1.4652	9.76801	3.85522
10:47:01				124	9.04727	0.4783869	1.4768	1.4652	9.86569	3.78307
10:47:02				127	9.05969	0.4669413	1.4768	1.41636	10.30525	3.68535
10:47:03				128	9.05773	0.4656596	1.4768	1.51404	10.10989	3.67477
10:47:03				129	9.06856	0.4693463	1.4768	1.51404	9.96337	3.70468
10:47:04				130	9.05382	0.4736745	1.4768	1.4652	10.30525	3.74266
10:47:04				131	9.04011	0.47656	1.4768	1.4652	10.30525	3.76842
10:47:05				132	9.03228	0.4836144	1.4768	1.51404	10.30525	3.82878
10:47:05				133	9.03228	0.4799271	1.4768	1.4652	9.62149	3.79765
10:47:06				134	9.02934	0.4772015	1.4768	1.51404	10.35409	3.77496
10:47:06				135	9.02341	0.4747971	1.4768	1.4652	10.50061	3.75531
10:47:07				136	9.03424	0.4730344	1.4768	1.4652	10.06105	3.73931
10:47:07				137	9.04011	0.4775223	1.4768	1.4652	10.20757	3.77653
10:47:08				138	9.03228	0.4839348	1.4768	1.4652	10.06105	3.83149
10:47:08				139	9.02641	0.4941953	1.4768	1.4652	10.10989	3.91886
10:47:09				140	9.0097	0.5046179	1.4768	1.4652	10.20757	4.00899
10:47:09				141	8.98129	0.5042972	1.4768	1.4652	10.40293	4.00946
10:47:10				142	8.98521	0.4946763	1.4768	1.51404	10.06105	3.92745
10:47:10				143	8.98815	0.5119924	1.4768	1.51404	10.54945	4.07401
10:47:11				144	8.98031	0.5054192	1.4768	1.51404	10.79365	4.01909
10:47:11				145	8.97927	0.4956385	1.4768	1.4652	10.35409	3.93626
10:47:12				146	8.98717	0.4933941	1.4768	1.4652	10.30525	3.91637
10:47:12				147	9.00088	0.4881031	1.4768	1.51404	10.20757	3.8701
10:47:13				148	9.0048	0.4881031	1.4768	1.4652	10.10989	3.86967
10:47:13				149	9.00578	0.4898677	1.4768	1.51404	10.74481	3.88449
10:47:14				150	8.99795	0.4906691	1.4768	1.4652	10.25641	3.89213

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:14				151	8.99501	0.4906691	1.4768	1.51404	10.54945	3.89245
10:47:15				152	8.98815	0.4889053	1.4768	1.41636	10.45177	3.87827
10:47:15				153	8.99207	0.4927533	1.4768	1.51404	10.40293	3.91041
10:47:16				154	8.99011	0.4913091	1.4768	1.4652	10.50061	3.8984
10:47:16				155	8.98423	0.4876223	1.4768	1.51404	9.96337	3.86783
10:47:17				156	8.98325	0.4908291	1.4768	1.4652	10.40293	3.89508
10:47:17				157	8.98717	0.4909891	1.4768	1.4652	10.10989	3.89601
10:47:18				158	8.99599	0.4903475	1.4768	1.4652	10.06105	3.88962
10:47:18				159	9.00186	0.4966013	1.4768	1.4652	10.40293	3.94192
10:47:19				160	9.00186	0.4953177	1.4768	1.51404	10.50061	3.93105
10:47:19				161	8.99893	0.4911491	1.4768	1.4652	10.25641	3.89608
10:47:20				162	8.99795	0.4858582	1.4768	1.51404	10.10989	3.85143
10:47:20				163	8.99795	0.4848963	1.4768	1.51404	10.35409	3.8433
10:47:21				164	8.9999	0.4786441	1.4768	1.4652	10.30525	3.79026
10:47:21				165	8.99893	0.4826521	1.4768	1.51404	10.50061	3.82422
10:47:22				166	8.99697	0.4635764	1.4768	1.41636	11.52625	3.66347
10:47:22				167	8.99011	0.4741566	1.4768	1.51404	10.74481	3.7534
10:47:23				168	8.98423	0.4780037	1.4768	1.4652	10.35409	3.78651
10:47:23				169	8.98521	0.4848963	1.4768	1.4652	10.69597	3.84467
10:47:24				170	8.98521	0.4877782	1.4768	1.51404	10.10989	3.86908
10:47:24	10:46:00 start transect	5	90	171	8.97633	0.4946763	1.4768	1.51404	10.35409	3.92843
10:47:25				172	8.97437	0.4898678	1.4768	1.4652	10.40293	3.88791
10:47:25				173	8.97535	0.4860194	1.4768	1.4652	10.20757	3.85523
10:47:26				174	8.98325	0.4735146	1.4768	1.4652	11.28205	3.7487
10:47:26				175	8.99305	0.4816903	1.4768	1.41636	10.74481	3.81672
10:47:27				176	8.99501	0.466782	1.4768	1.4652	10.10989	3.69068
10:47:27				177	9.04305	0.4574841	1.4768	1.51404	10.20757	3.60752
10:47:28				178	9.06954	0.4512326	1.4768	1.51404	10.06105	3.55237
10:47:28				179	9.05284	0.4404941	1.4768	1.4652	10.25641	3.46399
10:47:29				180	9.05675	0.4318403	1.4768	1.51404	11.08669	3.39118
10:47:29				181	9.07834	0.4428992	1.3784	1.51404	10.74481	3.48166
10:47:30				182	9.09106	0.4486692	1.4768	1.4652	10.06105	3.52875
10:47:30				183	9.11753	0.4496306	1.4768	1.4652	10.20757	3.5342
10:47:31				184	9.12926	0.4435394	1.4768	1.4652	10.40293	3.48207
10:47:31				185	9.14588	0.4507521	1.4768	1.51404	10.69597	3.54079
10:47:32				186	9.13122	0.4550792	1.4768	1.4652	10.25641	3.57849
10:47:32				187	9.10671	0.4513938	1.4768	1.4652	9.91453	3.55004
10:47:33				188	9.08813	0.4579647	1.4768	1.4652	9.86569	3.60701
10:47:33				189	9.07443	0.4659799	1.4768	1.51404	10.15873	3.67575
10:47:34				190	9.07541	0.4654986	1.4768	1.51404	9.96337	3.6716
10:47:34				191	9.04109	0.4656596	1.4768	1.51404	10.15873	3.67648
10:47:35				192	9.03326	0.4722328	1.4768	1.4652	10.40293	3.73266
10:47:35				193	9.0097	0.4733545	1.4768	1.4652	10.15873	3.74458
10:47:36				194	9.00382	0.46598	1.4768	1.4652	10.45177	3.68301
10:47:36				195	9.00774	0.4457834	1.4768	1.51404	10.59829	3.51274

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:37				196	9.03522	0.4664614	1.4768	1.51404	10.35409	3.68383
10:47:37				197	9.00774	0.4706292	1.4768	1.51404	10.25641	3.7218
10:47:38				198	8.98815	0.4611713	1.4768	1.51404	10.50061	3.64411
10:47:38				199	8.99109	0.4592474	1.4768	1.4652	10.20757	3.62761
10:47:39				200	8.99697	0.4533172	1.4768	1.4652	10.54945	3.57711
10:47:39				201	9.01558	0.4435396	1.4768	1.4652	10.59829	3.49314
10:47:40				202	9.03522	0.438731	1.4768	1.4652	10.79365	3.45092
10:47:40				203	9.01264	0.4521956	1.4768	1.4652	10.98901	3.56612
10:47:41				204	8.97927	0.4526765	1.4768	1.51404	11.28205	3.57349
10:47:41				205	8.95183	0.4526765	1.4768	1.51404	11.42857	3.57624
10:47:42				206	8.93216	0.4616531	1.4768	1.51404	11.47741	3.65389
10:47:42				207	8.89882	0.4725529	1.4768	1.4652	11.42857	3.74944
10:47:43				208	8.91059	0.4568435	1.4768	1.4652	11.47741	3.61551
10:47:43				209	8.92236	0.4664616	1.4768	1.4652	11.52625	3.69549
10:47:44				210	8.92236	0.4722233	1.4768	1.4652	11.86813	3.74426
10:47:44				211	8.89685	0.4781644	1.4768	1.4652	11.67277	3.79714
10:47:45				212	8.87619	0.4751177	1.4768	1.4652	11.52625	3.77353
10:47:45				213	8.88306	0.4709507	1.4768	1.4652	11.42857	3.73753
10:47:46				214	8.88109	0.4770413	1.4768	1.4652	12.40537	3.78931
10:47:46				215	8.87422	0.4773621	1.4768	1.4652	12.30769	3.79276
10:47:47				216	8.86441	0.4775226	1.4768	1.4652	11.81929	3.79516
10:47:47				217	8.85754	0.472553	1.4768	1.4652	11.72161	3.75378
10:47:48				218	8.87226	0.4746372	1.4768	1.4652	11.57509	3.76988
10:47:48				219	8.86245	0.4760793	1.4768	1.4652	12.01465	3.78314
10:47:49				220	8.85165	0.4744771	1.4768	1.4652	12.40537	3.7707
10:47:49				221	8.84766	0.4722331	1.2801	1.51404	11.96581	3.75212
10:47:50				222	8.85067	0.4707893	1.4768	1.4652	12.25885	3.73956
10:47:50				223	8.8487	0.4683855	1.4768	1.4652	12.30769	3.71941
10:47:51				224	8.84177	0.4661413	1.4768	1.4652	12.45421	3.70113
10:47:51				225	8.84079	0.4648585	1.4768	1.4652	12.11233	3.69038
10:47:52				226	8.84177	0.4651787	1.4768	1.4652	12.21001	3.69298
10:47:52				227	8.83981	0.4589269	1.4768	1.4652	12.25885	3.6403
10:47:53				228	8.84079	0.4507525	1.4768	1.51404	12.21001	3.57114
10:47:53				229	8.87128	0.4420974	1.4768	1.51404	11.96581	3.49513
10:47:54				230	8.89587	0.4374497	1.4768	1.51404	11.81929	3.45362
10:47:54				231	8.92039	0.446425	1.4768	1.4652	11.47741	3.52674
10:47:55				232	8.93614	0.4441803	1.4768	1.4652	11.23321	3.5063
10:47:55				233	8.97927	0.4334432	1.4768	1.4652	11.42857	3.41196
10:47:56				234	9.0048	0.4294352	1.4768	1.4652	11.91697	3.37596
10:47:56				235	9.0048	0.4201404	1.4768	1.4652	11.57509	3.29821
10:47:57				236	9.03522	0.4222246	1.4768	1.51404	11.03785	3.31282
10:47:57				237	9.03522	0.4279937	1.4768	1.51404	11.13553	3.36104
10:47:58				238	9.01068	0.4292761	1.4768	1.51404	11.62393	3.37408
10:47:58				239	9.00186	0.4241465	1.4768	1.51404	11.13553	3.33198
10:47:59				240	8.99501	0.4267109	1.4768	1.4652	11.86813	3.35408

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:47:59				241	8.98619	0.4278332	1.4768	1.4652	12.01465	3.3643
10:48:00				242	8.98913	0.4302377	1.4768	1.4652	11.28205	3.38416
10:48:00				243	8.98423	0.430878	1.4768	1.51404	12.01465	3.38999
10:48:01				244	8.95673	0.4355267	1.4768	1.4652	12.35653	3.4316
10:48:02				247	8.91469	0.4350412	1.4768	1.4652	12.06349	3.43156
10:48:03				248	8.91665	0.430714	1.4768	1.4652	11.77045	3.39503
10:48:03				249	8.93234	0.4318357	1.4768	1.4652	11.81929	3.40295
10:48:04				250	8.94803	0.4329583	1.4768	1.4652	12.01465	3.41088
10:48:04				251	8.95097	0.4350411	1.4768	1.51404	13.38217	3.42808
10:48:05				252	8.95195	0.4324766	1.4768	1.4652	11.33089	3.40646
10:48:05				253	8.95593	0.4276695	1.4768	1.4652	11.47741	3.36578
10:48:06				254	8.97161	0.4267078	1.3784	1.4652	11.13553	3.35625
10:48:06				255	8.99121	0.4097209	1.3784	1.51404	10.69597	3.21245
10:48:07				256	9.07651	0.4170915	1.3784	1.51404	10.45177	3.2662
10:48:07				257	9.08825	0.419656	1.2801	1.51404	10.50061	3.28651
10:48:08				258	9.06477	0.400107	1.2801	1.51404	10.74481	3.12587
10:48:08				259	9.10396	0.3988254	1.3784	1.4652	10.45177	3.11181
10:48:09				260	9.14117	0.3997864	1.3784	1.51404	10.45177	3.11655
10:48:09				261	9.14997	0.401549	1.3784	1.51404	10.35409	3.1304
10:48:10				262	9.13629	0.4018698	1.3784	1.4652	10.25641	3.13426
10:48:10				263	9.12058	0.4045939	1.2801	1.4652	10.35409	3.15826
10:48:11				264	9.12352	0.4061953	1.3784	1.51404	10.59829	3.1713
10:48:11				265	9.13525	0.4073178	1.3784	1.4652	10.30525	3.17958
10:48:12				266	9.14802	0.4061953	1.3784	1.4652	10.15873	3.16913
10:48:12				267	9.14704	0.4071576	1.3784	1.4652	9.96337	3.17721
10:48:13				268	9.14508	0.4251049	1.3784	1.51404	10.40293	3.32667
10:48:13				269	9.13427	0.4416127	1.3784	1.51404	10.54945	3.46548
10:48:14				270	9.13036	0.4286298	1.3784	1.4652	11.03785	3.35743
10:48:14				271	9.12352	0.4284708	1.3784	1.51404	11.37973	3.35675
10:48:15				272	9.1108	0.425586	1.3784	1.51404	11.37973	3.33387
10:48:15				273	9.08042	0.425105	1.3784	1.4652	11.47741	3.33268
10:48:16				274	9.07259	0.4342394	1.3784	1.41636	12.30769	3.40974
10:48:16				275	9.0677	0.4289513	1.3784	1.51404	12.01465	3.366
10:48:17				276	9.0677	0.4339202	1.3784	1.51404	11.62393	3.40754
10:48:17				277	9.07357	0.4340798	1.3784	1.4652	11.13553	3.40831
10:48:18				278	9.07455	0.4335994	1.3784	1.51404	11.91697	3.4042
10:48:18				279	9.0814	0.4299127	1.3784	1.51404	11.96581	3.37274
10:48:19				280	9.09027	0.4265471	1.3784	1.51404	11.77045	3.3438
10:48:19				281	9.09418	0.4273481	1.3784	1.4652	11.91697	3.35012
10:48:20				282	9.09124	0.4262262	1.3784	1.51404	11.77045	3.34103
10:48:20				283	9.08629	0.4265471	1.3784	1.41636	11.72161	3.34417
10:48:21				284	9.08531	0.425105	1.3784	1.4652	11.86813	3.33223
10:48:21				285	9.09027	0.4297519	1.3784	1.51404	11.28205	3.37056
10:48:22				286	9.0932	0.4283102	1.3784	1.4652	10.64713	3.35825
10:48:22				287	9.08629	0.4286299	1.3784	1.51404	10.59829	3.36157

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:23				288	9.09027	0.4275087	1.3784	1.51404	10.84249	3.35183
10:48:23				289	9.0932	0.4252653	1.3784	1.4652	11.23321	3.33283
10:48:24				290	9.09418	0.4241432	1.3784	1.51404	10.64713	3.32338
10:48:24				291	9.10298	0.4257465	1.3784	1.51404	10.89133	3.33594
10:48:25				292	9.102	0.424624	1.3784	1.4652	10.45177	3.32666
10:48:25				293	9.10689	0.4286299	1.3784	1.51404	10.79365	3.35963
10:48:26				294	9.11961	0.4243034	1.3784	1.4652	11.28205	3.32236
10:48:26				295	9.11667	0.4241432	1.3784	1.4652	11.62393	3.32129
10:48:27				296	9.11569	0.4247843	1.3784	1.51404	10.45177	3.32673
10:48:27				297	9.11569	0.4188555	1.3784	1.4652	10.35409	3.27732
10:48:28				298	9.11961	0.4177733	1.3784	1.51404	11.23321	3.26761
10:48:28				299	9.11961	0.4196559	1.3784	1.4652	11.37973	3.28363
10:48:29				300	9.12058	0.4172526	1.3784	1.4652	11.13553	3.26352
10:48:29				301	9.12938	0.4178942	1.3784	1.4652	10.74481	3.26806
10:48:30				302	9.12743	0.419175	1.3784	1.4652	11.03785	3.27891
10:48:30				303	9.12254	0.4214196	1.3784	1.51404	10.54945	3.29805
10:48:31				304	9.12352	0.4210981	1.3784	1.51404	10.45177	3.29528
10:48:31				305	9.11765	0.4204568	1.3784	1.51404	11.03785	3.29048
10:48:32				306	9.11276	0.4209381	1.3784	1.51404	10.59829	3.29494
10:48:32				307	9.12156	0.4188555	1.3784	1.4652	10.74481	3.27678
10:48:33				308	9.11961	0.4166112	1.3784	1.4652	10.50061	3.25827
10:48:33				309	9.12645	0.4084394	1.3784	1.4652	10.45177	3.18969
10:48:34				310	9.16365	0.4036315	1.3784	1.51404	10.50061	3.14648
10:48:34				311	9.21548	0.4029907	1.3784	1.51404	10.40293	3.13663
10:48:35				312	9.24385	0.4108423	1.3784	1.51404	10.84249	3.19918
10:48:35				313	9.25166	0.4052335	1.3784	1.4652	10.35409	3.15204
10:48:36				314	9.23312	0.4020293	1.3784	1.4652	10.94017	3.12714
10:48:36				315	9.21451	0.3996253	1.3784	1.4652	10.79365	3.10886
10:48:37				316	9.22427	0.4020293	1.3784	1.4652	10.69597	3.12791
10:48:37				317	9.23702	0.4066755	1.3784	1.51404	11.03785	3.16526
10:48:38				318	9.24288	0.4033118	1.3784	1.4652	10.84249	3.1369
10:48:38				319	9.23116	0.4049136	1.3784	1.51404	11.62393	3.15118
10:48:39				320	9.22921	0.3949792	1.3784	1.4652	9.86569	3.06917
10:48:39				321	9.25166	0.3925748	1.3784	1.4652	9.76801	3.04739
10:48:40				322	9.27117	0.3975432	1.3784	1.4652	10.06105	3.08676
10:48:40				323	9.25947	0.3943388	1.3784	1.51404	10.45177	3.0613
10:48:41				324	9.24678	0.3930557	1.3784	1.51404	9.91453	3.05178
10:48:41				325	9.25361	0.3909729	1.3784	1.51404	10.15873	3.03401
10:48:42				326	9.25751	0.3946582	1.3784	1.4652	10.84249	3.0641
10:48:42	10:47:18 @ 6:00	5	180	327	9.24971	0.3909729	1.3784	1.4652	11.23321	3.03434
10:48:43				328	9.23214	0.386648	1.3784	1.4652	10.84249	3.00012
10:48:43				329	9.22921	0.3845643	1.3784	1.4652	10.30525	2.98317
10:48:44				330	9.25849	0.3856856	1.3784	1.51404	10.98901	2.98999
10:48:44				331	9.26825	0.3930557	1.3784	1.51404	11.28205	3.04996
10:48:45				332	9.25459	0.3978633	1.3784	1.4652	11.08669	3.09083

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:48:45				333	9.26239	0.3608536	1.3784	1.4652	11.18437	2.7855
10:48:46				334	9.3337	0.3803989	1.4768	1.4652	11.47741	2.94027
10:48:46				335	9.44193	0.3829625	1.3784	1.4652	11.42857	2.95246
10:48:47				336	9.48965	0.3810396	1.3784	1.4652	10.89133	2.93282
10:48:47				337	9.49646	0.3252948	1.3784	1.4652	10.54945	2.47887
10:48:48				338	9.51104	0.3142452	1.3784	1.51404	10.64713	2.38869
10:48:48				339	9.53151	0.3232134	1.3784	1.4652	9.96337	2.45966
10:48:49				340	9.55095	0.3318619	1.3784	1.4652	9.67033	2.52818
10:48:49				341	9.53734	0.3441944	1.3784	1.51404	9.96337	2.629
10:48:50				342	9.52471	0.3382692	1.3784	1.4652	10.06105	2.58189
10:48:50				343	9.51596	0.3695045	1.3784	1.51404	10.45177	2.83648
10:48:51				344	9.48382	0.4089183	1.3784	1.41636	10.59829	3.16209
10:48:51				345	9.4283	0.4166108	1.3784	1.51404	10.50061	3.2304
10:48:52				346	9.34345	0.4225411	1.3784	1.4652	10.40293	3.28711
10:48:52				347	9.31512	0.4074777	1.3784	1.51404	11.03785	3.16502
10:48:53				348	9.34053	0.4146884	1.3784	1.51404	11.13553	3.22239
10:48:53				349	9.3376	0.4246237	1.3784	1.4652	11.08669	3.3049
10:48:54				350	9.34832	0.4214193	1.3784	1.4652	10.64713	3.27738
10:48:54				351	9.32785	0.4183745	1.3784	1.4652	11.13553	3.25403
10:48:55				352	9.28294	0.4034715	1.3784	1.51404	11.33089	3.13473
10:48:55				353	9.26825	0.420778	1.3784	1.4652	11.77045	3.27936
10:48:56				354	9.26044	0.4180537	1.3784	1.51404	10.40293	3.25747
10:48:56				355	9.23897	0.4172524	1.3784	1.4652	10.50061	3.25277
10:48:57				356	9.22329	0.4185343	1.3784	1.51404	10.74481	3.26484
10:48:57				357	9.20474	0.4138874	1.3784	1.4652	10.94017	3.22793
10:48:58				358	9.19302	0.4132458	1.3784	1.4652	10.35409	3.22366
10:48:58				359	9.18911	0.4113224	1.3784	1.51404	9.91453	3.20804
10:48:59				360	9.18716	0.412124	1.3784	1.4652	9.86569	3.21487
10:48:59				361	9.18521	0.411483	1.3784	1.4652	10.98901	3.20972
10:49:00				362	9.18911	0.4119649	1.3784	1.4652	11.47741	3.21338
10:49:00				363	9.194	0.4134065	1.3784	1.51404	11.62393	3.22491
10:49:01				364	9.18618	0.4130866	1.3784	1.51404	10.30525	3.22295
10:49:02				367	9.18051	0.4092426	1.4768	1.4652	9.62149	3.19154
10:49:03				368	9.18246	0.4041141	1.3784	1.51404	10.35409	3.14883
10:49:03				369	9.18838	0.4037944	1.3784	1.51404	10.84249	3.14566
10:49:04				370	9.19913	0.4013909	1.3784	1.4652	10.06105	3.12481
10:49:04				371	9.21084	0.3989878	1.3784	1.4652	10.45177	3.1039
10:49:05				372	9.2128	0.3972249	1.3784	1.51404	11.28205	3.08914
10:49:05				373	9.2333	0.3954624	1.3784	1.4652	10.89133	3.07281
10:49:06				374	9.24507	0.3967443	1.3784	1.51404	10.74481	3.0824
10:49:06				375	9.24019	0.3940195	1.3784	1.4652	10.45177	3.0603
10:49:07				376	9.24117	0.3930588	1.3784	1.51404	10.30525	3.05228
10:49:07				377	9.24898	0.4042755	1.3784	1.51404	10.06105	3.14434
10:49:08				378	9.26264	0.410043	1.3784	1.4652	10.35409	3.19088
10:49:08				379	9.26849	0.4069988	1.3784	1.51404	9.91453	3.16517

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:09				380	9.27142	0.4045952	1.3784	1.4652	10.54945	3.14502
10:49:09				381	9.28904	0.399147	1.3784	1.4652	10.30525	3.09847
10:49:10				382	9.33395	0.3802414	1.3784	1.51404	9.52381	2.93896
10:49:10				383	9.4373	0.3557313	1.3784	1.4652	9.91453	2.73023
10:49:11				384	9.44606	0.3703083	1.3784	1.4652	9.37729	2.84855
10:49:11				385	9.45676	0.3627788	1.3784	1.4652	9.47497	2.78622
10:49:12				386	9.44801	0.3587735	1.3784	1.4652	9.27961	2.75422
10:49:12				387	9.41388	0.3810428	1.3784	1.51404	9.71917	2.93902
10:49:13				388	9.39733	0.3653427	1.3784	1.51404	9.76801	2.81177
10:49:13				389	9.39733	0.366464	1.4768	1.41636	9.23077	2.82094
10:49:14				390	9.40804	0.3643811	1.3784	1.51404	9.08425	2.80308
10:49:14				391	9.41388	0.3707886	1.3784	1.51404	8.93773	2.85502
10:49:15				392	9.40707	0.401231	1.3784	1.4652	9.27961	3.10548
10:49:15				393	9.38954	0.3962636	1.3784	1.51404	9.47497	3.06609
10:49:16				394	9.38662	0.3922572	1.2801	1.4652	10.06105	3.03338
10:49:16				395	9.40999	0.4010699	1.3784	1.4652	10.20757	3.1039
10:49:17				396	9.41291	0.3925777	1.3784	1.51404	9.37729	3.03379
10:49:17				397	9.4168	0.3818432	1.3784	1.51404	9.71917	2.94534
10:49:18				398	9.4412	0.3725513	1.3784	1.4652	9.23077	2.86727
10:49:18				399	9.45385	0.3885728	1.3784	1.51404	8.98657	2.99749
10:49:19				400	9.40609	0.3909758	1.3784	1.51404	9.32845	3.0212
10:49:19				401	9.3798	0.3808822	1.3784	1.51404	9.27961	2.94048
10:49:20				402	9.38662	0.3696672	1.3784	1.51404	9.47497	2.848
10:49:20				403	9.42264	0.3802413	1.3784	1.4652	9.32845	2.93173
10:49:21				404	9.44606	0.3581342	1.3784	1.4652	9.47497	2.74915
10:49:21				405	9.45676	0.3531683	1.2801	1.51404	9.03541	2.70788
10:49:22				406	9.45482	0.3526875	1.1817	1.51404	9.67033	2.70412
10:49:22				407	9.45093	0.3547697	1.1817	1.4652	9.86569	2.72137
10:49:23				408	9.4519	0.3602162	1.2801	1.4652	9.37729	2.76569
10:49:23				409	9.44509	0.3557313	1.2801	1.51404	9.62149	2.72964
10:49:24				410	9.45093	0.3547697	1.3784	1.4652	9.81685	2.72136
10:49:24				411	9.45676	0.3542883	1.2801	1.4652	9.52381	2.717
10:49:25				412	9.45871	0.3534885	1.3784	1.51404	9.18193	2.71034
10:49:25				413	9.45968	0.3562115	1.3784	1.51404	9.18193	2.73245
10:49:26				414	9.45968	0.357813	1.3784	1.4652	9.23077	2.7455
10:49:26				415	9.4626	0.3538087	1.3784	1.4652	9.18193	2.71265
10:49:27				416	9.4626	0.3544493	1.2801	1.4652	9.37729	2.71788
10:49:27				417	9.47531	0.3525268	1.3784	1.4652	9.32845	2.70127
10:49:28				418	9.48309	0.3443574	1.3784	1.4652	9.18193	2.63428
10:49:28				419	9.49767	0.333466	1.2801	1.51404	8.93773	2.54491
10:49:29				420	9.52593	0.3289813	1.3784	1.41636	8.69353	2.50664
10:49:29				421	9.57845	0.3150491	1.3784	1.51404	8.88889	2.39071
10:49:30				422	9.62511	0.3164897	1.3784	1.51404	8.84005	2.39921
10:49:30				423	9.64548	0.3254585	1.3784	1.51404	9.23077	2.47
10:49:31				424	9.65227	0.3243377	1.3784	1.4652	8.98657	2.46051

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:31				425	9.64451	0.3177717	1.3784	1.4652	8.98657	2.40823
10:49:32				426	9.62019	0.3121662	1.3784	1.51404	9.08425	2.3648
10:49:32				427	9.61728	0.3113653	1.3784	1.51404	8.69353	2.35855
10:49:33				428	9.63093	0.3128067	1.3784	1.41636	8.88889	2.36924
10:49:33				429	9.63287	0.3152087	1.2801	1.51404	8.74237	2.38841
10:49:34				430	9.62802	0.3152087	1.3784	1.51404	9.08425	2.38872
10:49:34				431	9.63384	0.3144091	1.3784	1.51404	8.64469	2.38192
10:49:35				432	9.63384	0.315849	1.3784	1.4652	8.84005	2.39349
10:49:35				433	9.63287	0.3124864	1.3784	1.4652	8.79121	2.36654
10:49:36				434	9.63675	0.3112061	1.3784	1.51404	9.23077	2.35601
10:49:36				435	9.64354	0.3019183	1.2801	1.51404	9.13309	2.28112
10:49:37				436	9.6513	0.3088034	1.3784	1.4652	9.13309	2.33579
10:49:37				437	9.64839	0.3105648	1.3784	1.51404	8.44933	2.35011
10:49:38				438	9.64936	0.3104042	1.3784	1.51404	8.40049	2.34875
10:49:38				439	9.6513	0.3145686	1.3784	1.51404	8.49817	2.38205
10:49:39				440	9.64839	0.3174504	1.3784	1.4652	8.44933	2.40539
10:49:39	10:48:15 end transect	5	270	441	9.62802	0.3182517	1.3784	1.4652	8.79121	2.41319
10:49:40				442	9.61243	0.3240178	1.3784	1.51404	8.49817	2.46064
10:49:40				443	9.60855	0.3236966	1.4768	1.51404	8.30281	2.45832
10:49:41				444	9.59884	0.3228967	1.5752	1.4652	8.15629	2.45253
10:49:41				445	9.59204	0.3225757	1.5752	1.51404	8.05861	2.4504
10:49:42				446	9.58525	0.3230558	1.6736	1.51404	8.44933	2.45473
10:49:42				447	9.58719	0.3238572	1.6736	1.51404	8.25397	2.46106
10:49:43				448	9.58719	0.3610164	1.772	1.4652	8.40049	2.76183
10:49:43				449	9.5833	0.361657	1.772	1.4652	8.88889	2.76734
10:49:44				450	9.57159	0.3669444	1.8703	1.51404	8.69353	2.81125
10:49:44				451	9.54925	0.3935395	1.8703	1.51404	8.79121	3.03021
10:49:45				452	9.42264	0.3930586	1.9687	1.4652	9.42613	3.0369
10:49:45				453	9.35831	0.3938605	1.9687	1.4652	8.84005	3.04893
10:49:46				454	9.31146	0.4081202	1.9687	1.51404	8.59585	3.17063
10:49:46				455	9.27825	0.3938606	2.0671	1.51404	8.88889	3.05572
10:49:47				456	9.26166	0.3888928	2.1655	1.4652	9.27961	3.01613
10:49:47				457	9.27532	0.5336378	2.2639	1.4652	9.18193	4.22413
10:49:48				458	9.22744	0.4834515	2.3623	1.51404	10.25641	3.80656
10:49:48				459	9.15315	0.4884208	2.3623	1.51404	10.06105	3.85629
10:49:49				460	9.08849	0.5535229	2.4606	1.4652	9.86569	4.41545
10:49:49				461	9.04146	0.8485314	2.4606	1.4652	9.91453	6.98904
10:49:50				462	9.016	0.8597748	2.559	1.4652	9.03541	7.09371
10:49:50				463	9.02286	0.9516756	2.559	1.4652	7.52137	7.91142
10:49:51				464	9.06795	0.9601925	2.6574	1.51404	7.08181	7.97761
10:49:51				465	9.1424	0.9945841	2.6574	1.51404	6.64225	8.26865
10:49:52				466	9.15803	1.0256061	2.6574	1.4652	6.78877	8.54326
10:49:52				467	9.23726	1.1037425	2.7558	1.4652	6.54457	9.22702
10:49:53				468	9.29001	1.107441	2.8542	1.4652	6.25153	9.24676
10:49:53				469	9.49378	1.0836429	2.8542	14.35897	5.81197	8.98137

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:49:54				470	9.71827	1.108242	2.8542	18.11966	5.95849	9.14447
10:49:54				471	9.85399	1.1529494	2.8542	28.91331	5.76313	9.50767
10:49:55				472	9.95752	1.1526267	2.9526	42.34432	5.56777	9.47765
10:49:55				473	10.00778	1.1521432	3.0509	44.20024	5.32357	9.46022
10:49:56				474	9.98847	1.151501	2.9526	44.93284	4.98168	9.45957
10:49:56				475	9.9962	1.1523043	2.9526	44.884	5.17705	9.46468
10:49:57				476	10.02804	1.15343	3.0509	44.6398	5.07937	9.46635
10:49:57				477	10.06475	1.1542337	3.0509	43.32112	5.32357	9.4639
10:49:58				478	10.09854	1.1542336	3.0509	37.94872	5.32357	9.4551
10:49:58				479	10.12263	1.1539132	3.0509	36.87424	4.98168	9.446
10:49:59				480	10.12648	1.1539132	3.0509	35.55556	5.32357	9.445
10:49:59				481	10.12167	1.1513395	3.1493	35.3602	5.42125	9.42348
10:50:00				482	10.11011	1.1508563	3.0509	34.77411	5.22589	9.42222
10:50:00				483	10.1024	1.1521428	3.0509	34.52991	5.07937	9.4356
10:50:01				484	10.09758	1.1516617	3.0509	33.65079	5.37241	9.43259
10:50:02				487	10.09276	1.1520666	3.0509	33.45543	5.07937	9.43743
10:50:03				488	10.09854	1.1531924	3.0509	34.38339	5.27473	9.44588
10:50:03				489	10.09565	1.1520666	3.1493	34.77411	5.42125	9.43666
10:50:04				490	10.09469	1.1512634	3.0509	34.52991	5.17705	9.42982
10:50:04				491	10.08601	1.1527111	3.0509	35.16484	5.47009	9.44488
10:50:05				492	10.07541	1.1543186	3.0509	36.337	5.17705	9.46187
10:50:05				493	10.04739	1.1551228	3.0509	36.04396	5.27473	9.4763
10:50:06				494	10.03485	1.153515	3.0509	33.55311	5.56777	9.46532
10:50:06				495	10.02617	1.1539964	3.0509	32.72283	5.51893	9.47186
10:50:07				496	10.02617	1.1552841	3.0509	32.28327	5.37241	9.48327
10:50:07				497	10.02231	1.1573748	3.0509	32.42979	5.27473	9.50282
10:50:08				498	10.01459	1.1556045	3.0509	31.79487	5.42125	9.48914
10:50:08				499	10.0117	1.1546413	3.0509	31.50183	5.32357	9.48135
10:50:09				500	10.00591	1.1541577	3.0509	31.84371	5.17705	9.47858
10:50:09				501	10.02231	1.1533538	3.0509	33.55311	5.17705	9.46717
10:50:10				502	10.03967	1.1560883	3.0509	35.21368	5.27473	9.48687
10:50:10				503	10.05125	1.1564088	3.0509	35.3602	5.76313	9.48669
10:50:11				504	10.04546	1.1548003	3.1493	35.94628	5.42125	9.47393
10:50:11				505	10.04064	1.1530314	3.1493	35.3602	5.32357	9.45952
10:50:12				506	10.04353	1.155284	2.9526	32.57631	5.17705	9.47875
10:50:12	10:48:48 start transect	5	270	507	10.03389	1.1539964	3.1493	35.31136	5.27473	9.46983
10:50:13				508	10.02134	1.1549616	3.0509	39.85348	5.17705	9.48167
10:50:13				509	10.01073	1.1552842	3.0509	37.94872	5.17705	9.48731
10:50:14				510	10.00301	1.1554455	3.0509	35.99512	5.17705	9.49076
10:50:14				511	9.99523	1.1538353	3.0509	36.63004	5.07937	9.47851
10:50:15				512	9.9933	1.1523892	3.0509	37.65568	5.42125	9.46618
10:50:15				513	10.00687	1.1519059	3.0509	40.19536	5.22589	9.45835
10:50:16				514	10.00591	1.1527114	3.0509	39.7558	5.42125	9.46575
10:50:16				515	9.98847	1.1485291	3.0509	39.21856	5.17705	9.43319
10:50:17				516	10.00977	1.146277	3.0509	39.65812	5.12821	9.40769

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:17				517	10.04546	1.1469201	3.0509	40.39072	5.27473	9.40414
10:50:18				518	10.11787	1.1474024	3.0509	40.9768	5.22589	9.38967
10:50:18				519	10.16121	1.1475631	3.1493	42.05128	5.32357	9.37989
10:50:19				520	10.15929	1.1372716	3.0509	43.46764	5.47009	9.28959
10:50:19				521	10.14581	1.1327683	3.0509	42.9304	5.37241	9.2533
10:50:20				522	10.16506	1.132448	3.0509	43.36996	5.32357	9.24558
10:50:20				523	10.2094	1.1232808	3.0509	44.73748	5.42125	9.15364
10:50:21				524	10.20459	1.1179755	3.0509	47.47253	5.12821	9.10817
10:50:21				525	10.20459	1.1141155	3.0509	48.54701	5.17705	9.07423
10:50:22				526	10.24408	1.1182962	3.1493	48.20513	5.47009	9.1011
10:50:22				527	10.26908	1.1261763	3.1493	49.81685	5.47009	9.16407
10:50:23				528	10.26235	1.1155628	3.0509	57.58242	5.07937	9.07255
10:50:23				529	10.20555	1.1107393	3.0509	49.62149	5.12821	9.04431
10:50:24				530	10.24312	1.1162061	3.0509	48.20513	5.17705	9.08299
10:50:24				531	10.27485	1.1131521	3.0509	44.6398	4.98168	9.04829
10:50:25				532	10.28158	1.1109002	3.0509	45.95849	5.42125	9.02686
10:50:25				533	10.27773	1.1073624	3.1493	45.71429	5.03053	8.99677
10:50:26				534	10.29893	1.1049518	3.0509	40.04884	5.22589	8.97043
10:50:26				535	10.29989	1.1051126	3.1493	40.34188	5.27473	8.97159
10:50:27				536	10.29119	1.1041481	3.0509	41.02564	5.47009	8.96529
10:50:27				537	10.27773	1.1063971	3.0509	43.56532	5.71429	8.98832
10:50:28				538	10.25947	1.1182961	3.0509	44.34676	5.47009	9.09727
10:50:28				539	10.23543	1.1121872	3.0509	45.03053	5.56777	9.04961
10:50:29				540	10.271	1.1007703	3.0509	47.42369	5.27473	8.94064
10:50:29				541	10.27485	1.103021	3.0509	48.25397	5.32357	8.95943
10:50:30				542	10.31046	1.1007702	3.0509	47.76557	5.12821	8.93097
10:50:30				543	10.32199	1.0946603	3.0509	45.61661	5.47009	8.87467
10:50:31				544	10.26427	1.0985191	3.0509	48.00977	5.47009	8.92255
10:50:31				545	10.25274	1.0961072	3.0509	48.40049	5.32357	8.90423
10:50:32				546	10.31911	1.1086498	3.0509	50.25641	5.32357	8.99786
10:50:32				547	10.32679	1.1036636	3.0509	55.67766	5.37241	8.9523
10:50:33				548	10.26908	1.1110613	3.0509	52.50305	5.27473	9.03137
10:50:33				549	10.28926	1.1144377	3.0509	50.45177	5.51893	9.05599
10:50:34				550	10.23927	1.1176546	3.0509	49.13309	5.42125	9.09668
10:50:34				551	10.16025	1.0912852	3.0509	47.52137	5.27473	8.8845
10:50:35				552	10.0918	1.1012526	3.0509	43.71184	5.47009	8.98903
10:50:35				553	9.8211	1.102862	3.0509	41.66056	5.51893	9.07069
10:50:36				554	9.54056	1.1076869	3.0509	33.60195	5.32357	9.18466
10:50:36				555	9.57851	1.1107416	3.1493	29.40171	5.32357	9.20229
10:50:37				556	9.59404	1.1128321	3.1493	23.49206	5.61661	9.21701
10:50:37				557	9.53279	1.1174957	3.0509	19.97558	5.42125	9.27449
10:50:38				558	9.63972	1.1184599	3.0509	21.48962	5.56777	9.25562
10:50:38				559	9.75133	1.112189	3.0509	27.98535	5.47009	9.1712
10:50:39				560	9.88209	1.0949845	3.0509	30.08547	5.47009	8.98562
10:50:39				561	10.00494	1.099164	3.0509	29.30403	5.56777	8.99211

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:50:40				562	10.04835	1.1023792	3.0509	27.35043	5.37241	9.00972
10:50:40				563	10.09276	1.0838898	3.0509	28.86447	5.27473	8.83594
10:50:41				564	10.13521	1.0626671	3.0509	35.21368	5.27473	8.63933
10:50:41				565	10.25947	1.0943401	3.0509	36.48352	5.37241	8.8871
10:50:42				566	10.24216	1.1052736	3.0509	38.68132	5.42125	8.98724
10:50:42				567	10.26908	1.0965902	3.0509	39.65812	5.47009	8.90447
10:50:43				568	10.2335	1.1001283	3.0509	38.63248	5.47009	8.94421
10:50:43				569	10.25466	1.1044697	3.0509	37.65568	5.42125	8.9771
10:50:44				570	10.2835	1.1059167	3.0509	36.38584	5.56777	8.98268
10:50:44				571	10.33063	1.1006095	3.0509	37.41148	5.47009	8.92462
10:50:45				572	10.39213	1.092089	3.0509	40.09768	5.42125	8.83518
10:50:45				573	10.40844	1.0642749	3.0509	39.95116	5.37241	8.5888
10:50:46				574	10.26812	1.062506	3.0509	36.0928	5.42125	8.60643
10:50:46				575	10.25947	1.038716	3.0509	34.13919	5.42125	8.40077
10:50:47				576	10.27965	1.0207121	3.0509	33.60195	5.56777	8.23932
10:50:47				577	10.33063	0.9990141	3.0509	32.47863	5.47009	8.03944
10:50:48				578	10.37582	0.9718556	3.0509	30.23199	5.51893	7.79454
10:50:48				579	10.33639	0.9556256	3.2477	30.13431	5.56777	7.66267
10:50:49				580	10.16988	0.964625	3.0509	25.29915	5.32357	7.7759
10:50:49				581	9.93337	0.9117637	3.0509	17.6801	5.47009	7.36588
10:50:50				582	9.7552	0.8693553	3.0509	11.33089	5.51893	7.03247
10:50:50				583	9.46175	0.8825263	3.0509	9.76801	5.27473	7.20555
10:50:51				584	9.19919	0.8414093	3.0509	9.96337	5.37241	6.89544
10:50:51				585	9.05039	0.8354675	3.0509	8.88889	5.32357	6.87164
10:50:52				586	8.98962	0.835627	3.0509	8.84005	5.56777	6.88477
10:50:52				587	8.96316	0.8271154	3.0509	8.84005	5.51893	6.81447
10:50:53				588	8.92389	0.824386	3.0509	9.91453	5.37241	6.79779
10:50:53				589	8.87478	0.8153933	3.0509	5.76313	5.12821	6.7274
10:50:54				590	8.87183	0.8178023	3.0509	3.22344	5.17705	6.74932
10:50:54				591	8.85901	0.8153933	3.0509	1.4652	5.47009	6.73038
10:50:55				592	8.84527	0.8161967	3.0509	1.4652	5.17705	6.74011
10:50:55				593	8.8325	0.7930734	3.0509	1.4652	5.03053	6.53752
10:50:56				594	8.82072	0.7786227	3.0509	1.51404	5.03053	6.4118
10:50:56				595	8.81673	0.7677705	3.0509	1.51404	4.98168	6.31602
10:50:57				596	8.81378	0.7598375	3.0509	1.51404	4.83516	6.24708
10:50:57				597	8.80691	0.746675	3.0509	1.51404	4.98168	6.13218
10:50:58				598	8.80789	0.7434629	3.0509	1.51404	5.12821	6.10371
10:50:58				599	8.81575	0.7264479	3.0509	1.4652	5.27473	5.95264
10:50:59				600	8.81974	0.7291774	3.0509	1.51404	5.51893	5.97596
10:50:59				601	8.82465	0.7259658	3.0509	1.51404	5.56777	5.94691
10:51:00				602	8.83054	0.7026932	3.0509	1.51404	5.86081	5.74173
10:51:00				603	8.84821	0.6898544	3.0509	1.51404	6.20269	5.62654
10:51:01				604	8.85705	0.713768	3.0509	1.51404	6.59341	5.83448
10:51:02				607	8.85331	0.7011525	3.0509	1.51404	6.64225	5.72457
10:51:03				608	8.85527	0.7194527	3.0509	1.4652	6.25153	5.88463

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:03				609	8.83858	0.7162421	3.0509	1.51404	6.05617	5.85921
10:51:04				610	8.8287	0.724107	3.0509	1.51404	6.10501	5.9299
10:51:04				611	8.81691	0.7326167	3.0509	1.4652	6.25153	6.00669
10:51:05				612	8.81397	0.7255524	3.0509	1.51404	6.20269	5.94506
10:51:05				613	8.82182	0.7186488	3.0509	1.51404	5.95849	5.8831
10:51:06				614	8.83263	0.7242681	3.0509	1.4652	6.05617	5.93066
10:51:06				615	8.83361	0.711748	3.0509	1.4652	6.00733	5.82061
10:51:07				616	8.8376	0.7178469	3.0509	1.51404	5.66545	5.87346
10:51:07				617	8.83956	0.7037209	3.0509	1.4652	6.00733	5.74928
10:51:08				618	8.84447	0.6955346	3.0509	1.51404	6.15385	5.67681
10:51:08				619	8.85134	0.6928077	3.0509	1.51404	6.30037	5.65187
10:51:09				620	8.85821	0.7114255	3.0509	1.4652	6.49573	5.81376
10:51:09				621	8.85429	0.7136739	3.0509	1.4652	6.39805	5.83411
10:51:10				622	8.85036	0.725873	3.0509	1.4652	6.34921	5.9418
10:51:10				623	8.83557	0.7197726	3.0509	1.41636	6.25153	5.8907
10:51:11				624	8.84152	0.7136739	3.0509	1.51404	6.39805	5.8362
10:51:11				625	8.84742	0.7306892	3.0509	1.51404	6.30037	5.9846
10:51:12				626	8.83655	0.7369497	3.0509	1.4652	5.90965	6.04148
10:51:12				627	8.81888	0.7375926	3.0509	1.51404	6.00733	6.05014
10:51:13				628	8.81691	0.739358	3.1493	1.4652	5.86081	6.066
10:51:13	10:49:49 @ 6:00	5	180	629	8.81102	0.7491517	3.1493	1.41636	5.32357	6.15329
10:51:14				630	8.8012	0.7510779	3.0509	1.51404	5.37241	6.17199
10:51:14				631	8.79131	0.7539685	3.0509	1.51404	5.42125	6.19921
10:51:15				632	8.78934	0.7534862	3.0509	1.4652	5.37241	6.1953
10:51:15				633	8.78738	0.760229	3.0509	1.4652	5.22589	6.25517
10:51:16				634	8.78345	0.7695429	3.0509	1.51404	5.27473	6.33818
10:51:16				635	8.77854	0.7722731	3.0509	1.4652	4.98168	6.36321
10:51:17				636	8.77755	0.7764462	3.0509	1.4652	4.6398	6.40032
10:51:17				637	8.77755	0.7865632	3.0509	1.51404	4.78632	6.48992
10:51:18				638	8.7805	0.7864033	3.1493	1.41636	4.884	6.48795
10:51:18				639	8.78247	0.7928255	3.0509	1.4652	4.73748	6.54453
10:51:19				640	8.7805	0.8006948	3.0509	1.4652	4.68864	6.6147
10:51:19				641	8.7805	0.8008556	3.0509	1.41636	4.73748	6.61613
10:51:20				642	8.77854	0.8008556	3.0509	1.4652	4.68864	6.61649
10:51:20				643	8.77854	0.8098484	3.0509	1.51404	4.78632	6.69635
10:51:21				644	8.77952	0.8196446	3.0509	1.4652	4.884	6.78324
10:51:21				645	8.79033	0.826872	3.0509	1.4652	4.6398	6.84546
10:51:22				646	8.79432	0.827836	3.1493	1.51404	4.78632	6.85326
10:51:22				647	8.79432	0.8331369	3.0509	1.4652	5.03053	6.90045
10:51:23				648	8.79825	0.8357052	3.0509	1.51404	4.93284	6.92255
10:51:23				649	8.80021	0.8361869	3.0509	1.51404	4.884	6.92646
10:51:24				650	8.80414	0.8260689	3.0509	1.4652	4.98168	6.83566
10:51:24				651	8.80316	0.8172357	3.0509	1.51404	5.03053	6.75732
10:51:25				652	8.8012	0.8117748	2.9526	1.4652	5.03053	6.7092
10:51:25				653	8.80021	0.7965189	2.8542	1.4652	4.98168	6.57402

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:26				654	8.79131	0.7817452	2.8542	1.51404	4.78632	6.44476
10:51:26				655	8.7864	0.8406844	2.8542	1.51404	5.07937	6.96924
10:51:27				656	8.81298	0.8858229	2.8542	1.4652	4.884	7.36697
10:51:27				657	8.8592	0.9203661	3.0509	1.4652	10.20757	7.66659
10:51:28				658	8.92701	0.9930046	3.0509	1.51404	6.64225	8.30441
10:51:28				659	8.99764	1.0523214	3.1493	1.4652	5.32357	8.82295
10:51:29				660	9.03296	1.0621278	3.0509	1.51404	5.56777	8.90287
10:51:29				661	9.06434	1.0642182	3.1493	1.51404	5.61661	8.91392
10:51:30				662	9.12798	1.0917114	3.1493	1.4652	5.61661	9.14635
10:51:30				663	9.14557	1.0971779	3.1493	1.51404	5.61661	9.19126
10:51:31				664	9.11722	1.0782046	3.2477	1.51404	5.51893	9.027
10:51:31				665	9.10744	1.0704878	3.2477	1.4652	5.37241	8.95976
10:51:32				666	9.09369	1.0126132	3.1493	1.51404	5.37241	8.44175
10:51:32				667	9.08097	1.0026477	3.1493	1.51404	5.27473	8.35521
10:51:33				668	9.06923	1.0854414	3.1493	1.4652	5.37241	9.10463
10:51:33				669	9.05155	1.1148681	3.1493	1.51404	5.66545	9.37597
10:51:34				670	9.01135	1.1135802	3.1493	1.51404	5.61661	9.37483
10:51:34				671	8.97609	1.0973389	3.2477	1.4652	5.66545	9.23644
10:51:35				672	8.96917	1.0817425	3.2477	1.51404	5.71429	9.09661
10:51:35				673	8.98294	1.1079528	3.1493	1.51404	5.66545	9.33113
10:51:36				674	8.98392	1.0794929	3.2477	1.51404	5.76313	9.07245
10:51:36				675	8.97413	1.0947676	3.1493	1.51404	5.47009	9.21361
10:51:37				676	8.95348	1.10345	3.2477	1.51404	5.61661	9.29787
10:51:37				677	8.93388	1.1209786	3.2477	1.51404	5.71429	9.46262
10:51:38				678	8.91126	1.1148686	3.2477	1.51404	5.66545	9.41292
10:51:38	10:54:14 end transect	5	90	679	8.90243	1.1200134	3.2477	1.51404	5.76313	9.46217
10:51:39				680	8.92897	1.1291792	3.2477	1.51404	5.76313	9.5387
10:51:39				681	8.92499	1.147996	3.3461	1.51404	5.76313	9.71154
10:51:40				682	8.88674	1.4255728	3.5428	1.51404	5.95849	12.28884
10:51:40				683	8.99078	1.5473088	3.7396	1.4652	5.90965	13.39191
10:51:41				684	8.748	1.5695374	3.9364	1.51404	5.61661	13.69396
10:51:41				685	8.5666	1.6413837	4.2315	1.51404	4.34676	14.44984
10:51:42				686	8.42627	1.7026124	4.4283	1.51404	4.29792	15.09646
10:51:42				687	8.29456	1.8170414	4.7234	1.51404	4.49328	16.26421
10:51:43				688	8.22709	1.8554075	4.8218	1.51404	4.20024	16.67044
10:51:43				689	8.10392	1.8823311	5.117	1.51404	3.85836	16.99349
10:51:44				690	7.99942	1.9086126	5.4121	1.51404	3.51648	17.30359
10:51:44				691	7.94067	1.8768514	5.5105	1.51404	3.32112	17.01849
10:51:45				692	7.93065	1.8705631	5.5105	1.4652	3.22344	16.96122
10:51:45				693	7.94664	1.8853949	5.5105	1.4652	3.51648	17.10001
10:51:46				694	7.94564	1.8737865	5.5105	1.4652	3.51648	16.9858
10:51:46				695	7.96256	1.8554092	5.4121	1.4652	3.36996	16.79631
10:51:47				696	7.98251	1.8591158	5.5105	1.4652	3.32112	16.82326
10:51:47				697	7.99842	1.8665332	5.5105	1.4652	3.61416	16.88873
10:51:48				698	8.0024	1.8671782	5.5105	1.4652	3.663	16.89318

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:48				699	8.00339	1.8338073	5.4121	1.4652	3.4188	16.56413
10:51:49				700	8.01333	1.8388041	5.5105	1.4652	3.46764	16.60855
10:51:49				701	8.03526	1.8289699	5.5105	1.4652	3.51648	16.50153
10:51:50				702	8.05215	1.8122058	5.5105	1.4652	3.85836	16.32904
10:51:50				703	8.05619	1.8054364	5.5105	1.4652	3.32112	16.26077
10:51:51				704	8.07705	1.8325161	5.5105	1.4652	3.32112	16.5167
10:51:51				705	8.09294	1.8625015	5.5105	1.51404	3.61416	16.80369
10:51:52				706	8.06712	1.8821703	5.4121	1.4652	3.80952	17.00964
10:51:52				707	7.99246	1.8892636	5.5105	1.51404	3.51648	17.11586
10:51:53				708	7.96554	1.8870076	5.5105	1.51404	3.36996	17.10672
10:51:53	10:50:29 start transect	5	90	709	7.97853	1.8850722	5.5105	1.4652	3.61416	17.08127
10:51:54				710	7.98848	1.88733	5.5105	1.51404	3.76068	17.09871
10:51:54				711	7.96852	1.8770122	5.5105	1.51404	3.46764	17.00656
10:51:55				712	7.95161	1.8978095	5.5105	1.51404	3.4188	17.2203
10:51:55				713	7.93364	1.8681449	5.5105	1.51404	3.4188	16.93589
10:51:56				714	7.94067	1.8921672	5.5105	1.51404	3.46764	17.16988
10:51:56				715	7.93662	1.9008721	5.5105	1.51404	3.22344	17.25797
10:51:57				716	7.92567	1.8887799	5.5105	1.51404	3.27228	17.14372
10:51:57				717	7.93868	1.8839439	5.5105	1.51404	3.4188	17.08955
10:51:58				718	7.94863	1.8362256	5.5105	1.51404	3.32112	16.61382
10:51:58				719	7.95161	1.8566988	5.4121	1.51404	3.46764	16.81428
10:51:59				720	7.95659	1.8683054	5.5105	1.4652	3.32112	16.92639
10:51:59				721	7.97953	1.8602461	5.5105	1.51404	2.97924	16.83584
10:52:00				722	8.0024	1.862986	5.5105	1.51404	2.78388	16.85186
10:52:00				723	8.02334	1.8637908	5.5105	1.4652	2.9304	16.84973
10:52:01				724	8.04818	1.8616944	5.5105	1.51404	2.9304	16.81718
10:52:02				727	8.08028	1.865822	5.4121	1.4652	2.88156	16.84242
10:52:03				728	8.08326	1.8661457	5.4121	1.4652	2.53968	16.84418
10:52:03				729	8.08921	1.8642088	5.4121	1.4652	3.02808	16.82228
10:52:04				730	8.09418	1.8637273	5.5105	1.4652	2.49084	16.81514
10:52:04				731	8.09021	1.8645324	5.5105	1.51404	2.63736	16.82496
10:52:05				732	8.09021	1.8640483	5.5105	1.4652	2.63736	16.8202
10:52:05				733	8.08326	1.8601797	5.5105	1.4652	2.78388	16.78549
10:52:06				734	8.07233	1.8579223	5.5105	1.51404	2.9304	16.76852
10:52:06				735	8.05836	1.8616312	5.5105	1.4652	2.78388	16.81168
10:52:07				736	8.0524	1.860824	5.5105	1.51404	2.78388	16.80659
10:52:07				737	8.06234	1.8569555	5.5105	1.51404	2.9304	16.76379
10:52:08				738	8.0673	1.8559889	5.5105	1.4652	2.6862	16.75191
10:52:08				739	8.07432	1.8582455	5.5105	1.51404	2.53968	16.77075
10:52:09				740	8.07928	1.8545367	5.5105	1.51404	2.78388	16.73192
10:52:09				741	8.08524	1.8513138	5.5105	1.51404	2.63736	16.69742
10:52:10				742	8.09319	1.8516365	5.5105	1.51404	2.73504	16.69681
10:52:10				743	8.09418	1.8477681	5.5105	1.51404	2.78388	16.65835
10:52:11				744	8.09815	1.8316461	5.5105	1.4652	3.12576	16.49825
10:52:11				745	8.10808	1.8274557	5.5105	1.51404	3.07692	16.4525

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:12				746	8.11608	1.8211684	5.5105	1.51404	3.22344	16.38714
10:52:12				747	8.12204	1.8144008	5.5105	1.4652	3.32112	16.31808
10:52:13				748	8.11807	1.7961863	5.5105	1.51404	3.56532	16.14163
10:52:13				749	8.12005	1.7903834	5.5105	1.51404	3.56532	16.08397
10:52:14				750	8.13295	1.7945748	5.5105	1.4652	3.663	16.11904
10:52:14				751	8.14089	1.7890948	5.5105	1.51404	3.71184	16.06184
10:52:15				752	8.14089	1.7578283	5.5105	1.4652	3.85836	15.75659
10:52:15				753	8.13593	1.7562157	5.5105	1.4652	3.71184	15.74308
10:52:16				754	8.14188	1.7615359	5.5105	1.51404	3.71184	15.79231
10:52:16				755	8.15081	1.7948959	5.5105	1.4652	3.71184	16.11399
10:52:17				756	8.15286	1.799893	5.5105	1.4652	3.56532	16.1619
10:52:17				757	8.15782	1.7960254	5.5105	1.4652	3.85836	16.12182
10:52:18				758	8.16178	1.7947352	5.4121	1.4652	4.29792	16.10742
10:52:18				759	8.1598	1.7961861	5.5105	1.4652	3.80952	16.12248
10:52:19				760	8.15881	1.7926402	5.5105	1.51404	3.76068	16.08829
10:52:19				761	8.15385	1.7934455	5.5105	1.4652	3.71184	16.09843
10:52:20				762	8.15682	1.7884506	5.5105	1.4652	3.56532	16.04827
10:52:20				763	8.1518	1.7703979	5.5105	1.51404	3.80952	15.87431
10:52:21				764	8.15286	1.7695917	5.5105	1.51404	3.9072	15.86597
10:52:21				765	8.14982	1.7641123	5.5105	1.51404	3.9072	15.81388
10:52:22				766	8.15682	1.7465475	5.5105	1.51404	3.9072	15.63951
10:52:22				767	8.16575	1.7412279	5.5105	1.4652	4.05372	15.58374
10:52:23				768	8.17369	1.7283378	5.5105	1.51404	4.24908	15.4548
10:52:23				769	8.17864	1.7148002	5.5105	1.51404	4.05372	15.32102
10:52:24				770	8.17963	1.7067457	5.5105	1.51404	4.29792	15.24234
10:52:24				771	8.18063	1.6869257	5.5105	1.51404	4.00488	15.04955
10:52:25				772	8.18558	1.6820919	5.5105	1.51404	4.1514	15.00056
10:52:25				773	8.19054	1.6716184	5.4121	1.51404	4.1514	14.89697
10:52:26				774	8.19457	1.6646918	5.5105	1.51404	4.05372	14.82816
10:52:26				775	8.19153	1.6543802	5.5105	1.51404	4.10256	14.72963
10:52:27				776	8.19457	1.6490638	5.5105	1.51404	4.1514	14.67693
10:52:27				777	8.20151	1.6445518	5.5105	1.51404	4.34676	14.63041
10:52:28				778	8.20646	1.6384295	5.4121	1.4652	4.1514	14.5692
10:52:28				779	8.20646	1.6820918	5.5105	1.51404	4.24908	14.99166
10:52:29				780	8.20448	1.6308587	5.4121	1.51404	4.1514	14.49688
10:52:29				781	8.20052	1.6311802	5.5105	1.41636	4.20024	14.5016
10:52:30				782	8.21043	1.6376258	5.5105	1.4652	4.29792	14.55977
10:52:30				783	8.21538	1.6453567	5.5105	1.4652	4.3956	14.63242
10:52:31				784	8.21241	1.6791917	5.4121	1.4652	4.10256	14.96105
10:52:31				785	8.21538	1.6316634	5.3137	1.4652	4.00488	14.50019
10:52:32				786	8.22232	1.6258641	5.3137	1.51404	4.05372	14.44135
10:52:32				787	8.21935	1.6176488	5.3137	1.4652	4.1514	14.36331
10:52:33				788	8.22232	1.6176488	5.3137	1.51404	4.20024	14.36209
10:52:33				789	8.22629	1.6261876	5.3137	1.51404	4.1514	14.44285
10:52:34				790	8.22926	1.6353704	5.3137	1.4652	4.24908	14.53026

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:34				791	8.22034	1.6484181	5.4121	1.51404	3.9072	14.65997
10:52:35				792	8.21043	1.6526088	5.4121	1.51404	4.34676	14.70461
10:52:35				793	8.20845	1.6522858	5.4121	1.4652	4.1514	14.70232
10:52:36				794	8.21043	1.6447142	5.3137	1.51404	4.29792	14.62831
10:52:36				795	8.2134	1.6448742	5.4121	1.51404	4.1514	14.6286
10:52:37				796	8.22034	1.6342408	5.4121	1.51404	4.20024	14.52301
10:52:37				797	8.22728	1.6527691	5.4121	1.51404	4.00488	14.69913
10:52:38				798	8.23025	1.6514793	5.4121	1.51404	4.20024	14.68542
10:52:38				799	8.22827	1.6326303	5.4121	1.4652	4.34676	14.50419
10:52:39				800	8.2243	1.6337596	5.4121	1.51404	4.20024	14.51673
10:52:39				801	8.22133	1.6364979	5.4121	1.51404	3.9072	14.54439
10:52:40				802	8.22232	1.6447141	5.4121	1.51404	3.95604	14.62335
10:52:40				803	8.22331	1.6271532	5.4121	1.51404	4.3956	14.45336
10:52:41				804	8.23124	1.6344028	5.4121	1.4652	4.24908	14.52008
10:52:41				805	8.23527	1.6500297	5.4121	1.51404	4.1514	14.66932
10:52:42				806	8.22827	1.655024	5.4121	1.51404	4.34676	14.72051
10:52:42				807	8.2243	1.6518023	5.4121	1.4652	4.1514	14.69102
10:52:43				808	8.22926	1.6485807	5.4121	1.4652	3.9072	14.65782
10:52:43				809	8.23626	1.6492238	5.4121	1.4652	4.05372	14.66112
10:52:44				810	8.23322	1.6592139	5.4121	1.4652	4.10256	14.75894
10:52:44				811	8.22728	1.6642068	5.4121	1.4652	4.20024	14.80972
10:52:45				812	8.22331	1.6616305	5.4121	1.51404	4.1514	14.78647
10:52:45				813	8.22331	1.6721014	5.4121	1.4652	4.05372	14.88778
10:52:46				814	8.21935	1.6767748	5.4121	1.51404	4.10256	14.9347
10:52:46				815	8.22034	1.6722624	5.4121	1.51404	4.34676	14.8906
10:52:47				816	8.21935	1.6574407	5.4121	1.4652	4.24908	14.74761
10:52:47				817	8.21935	1.6787077	5.4121	1.51404	4.1514	14.95342
10:52:48				818	8.22133	1.6775811	5.4121	1.51404	4.20024	14.94167
10:52:48				819	8.22331	1.6711351	5.4121	1.4652	4.29792	14.87843
10:52:49				820	8.22331	1.6637246	5.4121	1.51404	4.34676	14.80672
10:52:49	10:51:25 @ 6:00	5	180	821	8.22133	1.6717793	5.4121	1.51404	4.05372	14.8855
10:52:50				822	8.21836	1.6730679	5.4121	1.51404	4.20024	14.89923
10:52:50				823	8.21836	1.6724235	5.4121	1.51404	3.95604	14.89299
10:52:51				824	8.21737	1.6787077	5.4121	1.51404	4.10256	14.95426
10:52:51				825	8.21737	1.6566358	5.4121	1.51404	4.05372	14.74066
10:52:52				826	8.21439	1.6551844	5.4121	1.51404	3.95604	14.72786
10:52:52				827	8.2134	1.6669456	5.4121	1.4652	4.1514	14.84206
10:52:53				828	8.2134	1.6621126	5.4121	1.51404	4.3956	14.7953
10:52:53				829	8.21241	1.6569568	5.4121	1.51404	4.24908	14.74584
10:52:54				830	8.2134	1.6664631	5.4121	1.4652	4.10256	14.83739
10:52:54				831	8.2134	1.6648525	5.4121	1.51404	3.9072	14.82181
10:52:55				832	8.2134	1.6563124	5.4121	1.51404	4.00488	14.73919
10:52:55				833	8.21439	1.6663022	5.3137	1.4652	4.05372	14.83544
10:52:56				834	8.21538	1.6579247	5.4121	1.51404	4.00488	14.75395
10:52:56				835	8.21836	1.6563124	5.4121	1.51404	4.05372	14.73711

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:57				836	8.22034	1.6513191	5.4121	1.4652	4.05372	14.68801
10:52:57				837	8.22133	1.6410086	5.4121	1.4652	3.9072	14.58796
10:52:58				838	8.2243	1.6331139	5.4121	1.51404	4.05372	14.51049
10:52:58				839	8.2243	1.6263493	5.4121	1.4652	4.05372	14.4452
10:52:59				840	8.2243	1.6219992	5.3137	1.51404	4.05372	14.40325
10:52:59				841	8.22728	1.6229663	5.4121	1.51404	4.05372	14.41134
10:53:00				842	8.23124	1.6226431	5.4121	1.4652	4.3956	14.4066
10:53:00				843	8.23322	1.6210323	5.4121	1.51404	4.00488	14.39025
10:53:01				844	8.23725	1.6199041	5.4121	1.51404	4.1514	14.37773
10:53:02				847	8.23948	1.6217207	5.4121	1.51404	4.05372	14.39434
10:53:03				848	8.2365	1.6317082	5.4121	1.51404	4.10256	14.4919
10:53:03				849	8.23452	1.6289681	5.4121	1.51404	4.10256	14.46627
10:53:04				850	8.2266	1.6334803	5.4121	1.51404	4.29792	14.51309
10:53:04				851	8.22065	1.6310629	5.4121	1.51404	4.24908	14.4922
10:53:05				852	8.21569	1.6318678	5.4121	1.51404	4.20024	14.50201
10:53:05				853	8.21272	1.6373463	5.4121	1.51404	4.10256	14.55615
10:53:06				854	8.21074	1.6434695	5.4121	1.4652	4.1514	14.61613
10:53:06				855	8.20869	1.6484632	5.4121	1.4652	4.20024	14.66525
10:53:07				856	8.20671	1.6444342	5.4121	1.4652	4.10256	14.62713
10:53:07				857	8.20671	1.6491063	5.4121	1.4652	4.1514	14.6723
10:53:08				858	8.2077	1.6536184	5.4121	1.4652	4.1514	14.71552
10:53:08				859	8.21371	1.6513617	5.3137	1.4652	4.29792	14.69121
10:53:09				860	8.2147	1.6642521	5.4121	1.4652	4.24908	14.81545
10:53:09				861	8.21371	1.6721467	5.4121	1.4652	4.20024	14.89228
10:53:10				862	8.21272	1.6710194	5.4121	1.4652	4.24908	14.88178
10:53:10				863	8.21371	1.6700534	5.4121	1.51404	4.24908	14.87201
10:53:11				864	8.2147	1.6731132	5.4121	1.51404	4.20024	14.90122
10:53:11				865	8.21669	1.6988938	5.4121	1.51404	4.24908	15.15017
10:53:12				866	8.21669	1.7140398	5.4121	1.51404	4.10256	15.29711
10:53:12				867	8.21768	1.7040514	5.4121	1.51404	3.9072	15.19976
10:53:13				868	8.21966	1.7037268	5.4121	1.51404	3.9072	15.19576
10:53:13				869	8.21966	1.7246764	5.4121	1.51404	3.56532	15.39908
10:53:14				870	8.22065	1.7335389	5.3137	1.51404	3.663	15.48476
10:53:14				871	8.21966	1.735958	5.4121	1.51404	3.56532	15.50868
10:53:15				872	8.21867	1.7311212	5.4121	1.51404	3.56532	15.46212
10:53:15				873	8.21966	1.7330562	5.4121	1.51404	3.51648	15.48048
10:53:16				874	8.22065	1.7348287	5.4121	1.51404	3.4188	15.49727
10:53:16				875	8.21966	1.7483663	5.4121	1.51404	3.85836	15.62932
10:53:17				876	8.21867	1.7462705	5.4121	1.51404	3.76068	15.60938
10:53:17				877	8.22065	1.7121083	5.4121	1.51404	3.85836	15.27664
10:53:18				878	8.22263	1.678753	5.3137	1.51404	3.663	14.95248
10:53:18				879	8.23551	1.7233869	5.4121	1.4652	3.85836	15.37963
10:53:19				880	8.24344	1.7467545	5.4121	1.4652	4.59096	15.6031
10:53:19				881	8.24542	1.7214537	5.4121	1.51404	3.663	15.35654
10:53:20				882	8.23948	1.6793983	5.4121	1.4652	3.85836	14.95155

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:20				883	8.23849	1.6889033	5.117	1.51404	3.663	15.04407
10:53:21				884	8.24146	1.6908368	5.4121	1.51404	3.76068	15.06146
10:53:21				885	8.24047	1.7030826	5.4121	1.4652	3.85836	15.18053
10:53:22				886	8.24047	1.6980883	5.4121	1.51404	4.05372	15.13213
10:53:22				887	8.23749	1.6806867	5.4121	1.51404	3.95604	14.96487
10:53:23				888	8.23551	1.678269	5.2153	1.51404	4.10256	14.94235
10:53:23				889	8.23551	1.685842	5.4121	1.51404	3.85836	15.01562
10:53:24				890	8.23254	1.6898713	5.4121	1.51404	3.85836	15.05592
10:53:24				891	8.2256	1.6853598	5.4121	1.4652	3.95604	15.01518
10:53:25				892	8.22065	1.6764977	5.4121	1.51404	3.95604	14.93146
10:53:25				893	8.21966	1.6789144	5.4121	1.51404	4.10256	14.95529
10:53:26				894	8.22065	1.6790757	5.4121	1.4652	4.00488	14.95643
10:53:26				895	8.22263	1.6768201	5.4121	1.51404	4.00488	14.93375
10:53:27				896	8.22362	1.6661841	5.4121	1.51404	3.95604	14.83039
10:53:27				897	8.2266	1.6718245	5.3137	1.51404	4.05372	14.88373
10:53:28				898	8.22759	1.6689241	5.4121	1.56288	4.00488	14.85523
10:53:28				899	8.22461	1.638312	5.3137	1.51404	4.10256	14.56058
10:53:29				900	8.22461	1.6420177	5.3137	1.51404	4.00488	14.59637
10:53:29				901	8.22362	1.6547458	5.3137	1.51404	3.95604	14.71979
10:53:30				902	8.23155	1.6355749	5.2153	1.51404	4.05372	14.53131
10:53:30				903	8.24839	1.6209129	5.3137	1.51404	4.10256	14.38293
10:53:31				904	8.25242	1.6307414	5.3137	1.51404	3.95604	14.47605
10:53:31				905	8.25341	1.6349288	5.3137	1.4652	4.00488	14.51604
10:53:32				906	8.2544	1.5920791	5.4121	1.4652	3.95604	14.1028
10:53:32				907	8.28411	1.612214	5.4121	1.4652	4.05372	14.28458
10:53:33				908	8.30396	1.6007784	5.4121	1.4652	4.20024	14.16657
10:53:33				909	8.3347	1.5701727	5.4121	1.4652	4.00488	13.86059
10:53:34				910	8.3763	1.5724281	5.4121	1.51404	4.00488	13.86585
10:53:34				911	8.38421	1.585474	5.4121	1.4652	3.80952	13.98768
10:53:35				912	8.38124	1.5932062	5.3137	1.4652	4.05372	14.06298
10:53:35				913	8.3535	1.6537779	5.3137	1.4652	4.1514	14.65632
10:53:36				914	8.29605	1.63654	5.4121	1.4652	3.9072	14.51398
10:53:36				915	8.29407	1.6213973	5.4121	1.51404	4.20024	14.36893
10:53:37				916	8.3099	1.6334799	5.3137	1.51404	4.10256	14.47883
10:53:37	10:52:13 end transect	5	270	917	8.3099	1.7090447	5.4121	1.4652	4.1514	15.20833
10:53:38				918	8.24245	1.8102572	5.5105	1.51404	4.1514	16.22189
10:53:38				919	8.19878	1.8044542	5.7073	1.4652	3.9072	16.18529
10:53:39				920	8.13922	1.8599061	5.8056	1.51404	3.9072	16.75602
10:53:39				921	8.07854	1.8703857	6.0024	1.51404	3.51648	16.88799
10:53:40				922	8.10442	1.8532977	6.1992	1.51404	3.1746	16.70761
10:53:40				923	8.13624	1.8744157	6.2976	1.4652	2.88156	16.89979
10:53:41				924	8.14517	1.881993	6.4943	1.51404	2.6862	16.96988
10:53:41				925	8.07755	1.9411648	6.7895	1.51404	3.22344	17.586
10:53:42				926	7.95509	1.970677	6.9862	1.51404	3.32112	17.94023
10:53:42				927	7.85839	1.9947045	7.0846	1.51404	3.4188	18.22922

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:43				928	7.80544	2.0432521	7.183	1.51404	3.36996	18.74228
10:53:43				929	7.7525	2.1076113	7.2814	1.51404	3.4188	19.41725
10:53:44				930	7.61439	2.0958364	7.3798	1.51404	3.4188	19.3753
10:53:44				931	7.5553	2.209096	7.4781	1.4652	2.9304	20.55737
10:53:45				932	7.5553	2.2516988	7.4781	1.51404	2.88156	20.99147
10:53:45				933	7.50711	2.3290051	7.5765	1.51404	3.46764	21.81185
10:53:46				934	7.30214	2.318677	7.6749	1.4652	2.97924	21.83443
10:53:46				935	7.16812	2.2789733	7.6749	1.51404	2.88156	21.50851
10:53:47				936	7.11461	2.2599316	7.6749	1.51404	2.73504	21.34491
10:53:47				937	7.15094	2.2781661	7.6749	1.4652	2.73504	21.51086
10:53:48				938	7.1651	2.2813959	7.6749	1.51404	2.78388	21.53542
10:53:48				939	7.15295	2.3088317	7.5765	1.51404	2.6862	21.82682
10:53:49				940	7.12878	2.36678	7.6749	1.4652	2.88156	22.44325
10:53:49				941	7.09345	2.305928	7.6749	1.4652	3.07692	21.83429
10:53:50				942	7.07221	2.2860761	7.5765	1.51404	2.88156	21.64191
10:53:50				943	7.06818	2.2857522	7.5765	1.4652	3.1746	21.64108
10:53:51				944	7.0581	2.2931762	7.5765	1.51404	2.88156	21.72439
10:53:51				945	7.04089	2.368879	7.5765	1.51404	2.83272	22.52234
10:53:52				946	7.02273	2.3046367	7.6749	1.4652	2.73504	21.86565
10:53:52				947	7.04291	2.4299015	7.5765	1.51404	2.63736	23.15773
10:53:53				948	6.96304	2.5484188	7.5765	1.51404	2.34432	24.45664
10:53:53				949	6.82226	2.5629541	7.6749	1.4652	2.58852	24.71071
10:53:54				950	6.66286	2.560047	7.6749	1.51404	2.63736	24.7948
10:53:54	10:52:30 start transect	5	270	951	6.5194	2.5621466	7.6749	1.51404	2.39316	24.92132
10:53:55				952	6.44393	2.6067237	7.6749	1.4652	2.58852	25.45424
10:53:55				953	6.31734	2.5946106	7.6749	1.51404	2.39316	25.41843
10:53:56				954	6.2468	2.6164144	7.6749	1.51404	2.58852	25.70644
10:53:56				955	6.22638	2.617384	7.6749	1.51404	2.14896	25.73235
10:53:57				956	6.20282	2.6265911	7.6749	1.51404	1.9536	25.84975
10:53:57				957	6.15262	2.6275596	7.6749	1.56288	2.05128	25.89844
10:53:58				958	6.11164	2.6448435	7.5765	1.4652	2.00244	26.11731
10:53:58				959	6.07474	2.6427437	7.6749	1.51404	1.90476	26.12285
10:53:59				960	6.05113	2.6304686	7.6749	1.51404	1.85592	26.00758
10:53:59				961	6.03366	2.6333753	7.6749	1.51404	1.85592	26.05259
10:54:00				962	6.03161	2.6332138	7.6749	1.4652	1.80708	26.05241
10:54:00				963	6.03884	2.6280447	7.6749	1.4652	1.7094	25.99065
10:54:01				964	6.09112	2.6139942	7.6749	1.4652	1.66056	25.79818
10:54:02				967	6.13696	2.623868	7.5765	1.4652	1.80708	25.87041
10:54:03				968	6.13287	2.6243548	7.5765	1.4652	1.80708	25.8788
10:54:03				969	6.14514	2.6120774	7.5765	1.4652	1.90476	25.73646
10:54:04				970	6.15952	2.605455	7.5765	1.4652	1.75824	25.65391
10:54:04				971	6.17281	2.5750938	7.5765	1.51404	1.90476	25.31574
10:54:05				972	6.24961	2.5595898	7.5765	1.4652	1.90476	25.09166
10:54:05				973	6.26288	2.5297143	7.5765	1.4652	1.75824	24.76058
10:54:06				974	6.31708	2.510174	7.5765	1.4652	1.85592	24.51167

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:06				975	6.41205	2.5266444	7.5765	1.4652	2.14896	24.61965
10:54:07				976	6.41918	2.5310039	7.5765	1.51404	2.00244	24.66114
10:54:07				977	6.36614	2.539724	7.5765	1.51404	2.29548	24.79295
10:54:08				978	6.313	2.5880108	7.5765	1.4652	2.14896	25.35066
10:54:08				979	6.24553	2.5943115	7.5765	1.51404	2.05128	25.46888
10:54:09				980	6.21993	2.5603968	7.5765	1.51404	2.10012	25.12224
10:54:09				981	6.24348	2.5415011	7.5765	1.4652	1.9536	24.90147
10:54:10				982	6.24961	2.5373047	7.5765	1.51404	1.90476	24.85185
10:54:10				983	6.26594	2.5841352	7.5765	1.51404	2.10012	25.34394
10:54:11				984	6.25574	2.5494161	7.5765	1.51404	2.39316	24.97765
10:54:11				985	6.22504	2.531329	7.5765	1.51404	1.85592	24.80549
10:54:12				986	6.21176	2.5419875	7.5765	1.51404	1.9536	24.92993
10:54:12				987	6.24859	2.561366	7.5765	1.51404	2.14896	25.11153
10:54:13				988	6.28948	2.5208329	7.5765	1.51404	2.14896	24.64591
10:54:13				989	6.32116	2.515017	7.5765	1.51404	2.00244	24.56065
10:54:14				990	6.33136	2.524706	7.5765	1.51404	2.05128	24.65716
10:54:14				991	6.34366	2.5248674	7.5765	1.51404	2.10012	24.65
10:54:15				992	6.34366	2.5182467	7.5765	1.51404	2.10012	24.57905
10:54:15				993	6.33238	2.5166331	7.5765	1.51404	1.9536	24.56989
10:54:16				994	6.32626	2.5308429	7.5765	1.51404	1.9536	24.72667
10:54:16				995	6.30994	2.5350408	7.5765	1.51404	1.9536	24.78357
10:54:17				996	6.30382	2.5148558	7.4781	1.51404	2.00244	24.57145
10:54:17				997	6.31402	2.5214785	7.3798	1.51404	1.9536	24.63516
10:54:18				998	6.32626	2.522932	7.4781	1.51404	2.29548	24.64186
10:54:18				999	6.32932	2.5214784	7.4781	1.51404	2.00244	24.62407
10:54:19				1000	6.34162	2.522858	7.3798	1.51404	2.00244	24.62388
10:54:19				1001	6.35589	2.5119498	7.4781	1.51404	2.05128	24.50284
10:54:20				1002	6.37226	2.5003239	7.3798	1.51404	2.34432	24.36674
10:54:20				1003	6.40085	2.4833687	7.4781	1.51404	2.05128	24.16517
10:54:21				1004	6.45691	2.4691591	7.4781	1.51404	2.1978	23.97412
10:54:21				1005	6.49875	2.452207	7.4781	1.51404	2.29548	23.76451
10:54:22				1006	6.58324	2.4383193	7.4781	1.51404	2.34432	23.5587
10:54:22				1007	6.71236	2.3822994	7.4781	1.51404	2.39316	22.87962
10:54:23				1008	6.7936	2.3558266	7.4781	1.51404	2.34432	22.54777
10:54:23				1009	6.85237	2.3262857	7.5765	1.51404	2.53968	22.20023
10:54:24				1010	6.90811	2.3133727	7.4781	1.4652	2.53968	22.02964
10:54:24				1011	6.96178	2.333065	7.4781	1.51404	2.49084	22.20047
10:54:25				1012	6.96683	2.376485	7.4781	1.51404	2.442	22.65021
10:54:25				1013	6.96683	2.3372627	7.5765	1.51404	2.442	22.24094
10:54:26				1014	6.8858	2.3080477	7.4781	1.51404	2.58852	21.98836
10:54:26				1015	6.8017	2.3209598	7.4781	1.51404	2.24664	22.17726
10:54:27				1016	6.85338	2.3884323	7.4781	1.51404	2.29548	22.85021
10:54:27				1017	6.91114	2.39844	7.4781	1.51404	2.14896	22.91668
10:54:28				1018	6.88176	2.4073202	7.4781	1.51404	2.00244	23.02935
10:54:28				1019	6.72149	2.4341228	7.4781	1.51404	2.10012	23.4196

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:29				1020	6.64732	2.4371901	7.4781	1.51404	2.00244	23.50273
10:54:29				1021	6.6097	2.4570478	7.5765	1.51404	2.05128	23.73885
10:54:30				1022	6.57409	2.4670605	7.4781	1.51404	2.05128	23.86984
10:54:30				1023	6.54659	2.4580183	7.5765	1.51404	2.00244	23.79295
10:54:31				1024	6.52315	2.477554	7.4781	1.51404	1.90476	24.01698
10:54:31				1025	6.48241	2.4874037	7.5765	1.51404	2.05128	24.15049
10:54:32				1026	6.46918	2.5071055	7.4781	1.51404	1.9536	24.36997
10:54:32	10:53:08 @ 6:00	5	180	1027	6.45386	2.5103341	7.5765	1.51404	1.9536	24.41533
10:54:33				1028	6.42223	2.4851453	7.5765	1.51404	2.00244	24.16896
10:54:33				1029	6.42122	2.4791695	7.5765	1.51404	2.00244	24.10592
10:54:34				1030	6.41714	2.479977	7.5765	1.51404	1.9536	24.11741
10:54:34				1031	6.41001	2.4817528	7.5765	1.51404	1.9536	24.1414
10:54:35				1032	6.41205	2.4853059	7.5765	1.51404	1.9536	24.17789
10:54:35				1033	6.4202	2.4825606	7.5765	1.51404	2.00244	24.14282
10:54:36				1034	6.44571	2.4714207	7.5765	1.51404	2.29548	24.00604
10:54:36				1035	6.4702	2.4559194	7.5765	1.51404	2.10012	23.82383
10:54:37				1036	6.5018	2.4591485	7.5765	1.51404	2.14896	23.83615
10:54:37				1037	6.53643	2.4643155	7.5765	1.51404	2.10012	23.86692
10:54:38				1038	6.52214	2.465121	7.5765	1.51404	2.05128	23.88546
10:54:38				1039	6.48343	2.4391277	7.4781	1.51404	2.00244	23.63612
10:54:39				1040	6.52519	2.4421968	7.5765	1.51404	2.1978	23.63981
10:54:39				1041	6.54659	2.4170097	7.5765	1.51404	2.10012	23.35797
10:54:40				1042	6.57105	2.4037713	7.4781	1.51404	2.14896	23.20121
10:54:40				1043	6.60869	2.4126507	7.4781	1.51404	2.24664	23.26959
10:54:41				1044	6.65138	2.4336375	7.5765	1.51404	2.10012	23.46234
10:54:41				1045	6.68086	2.3719681	7.5765	1.51404	2.10012	22.79179
10:54:42				1046	6.63413	2.3835928	7.5765	1.51404	2.14896	22.94548
10:54:42				1047	6.66159	2.4226579	7.5765	1.4652	2.05128	23.33935
10:54:43				1048	6.66666	2.4689975	7.5765	1.51404	2.00244	23.8259
10:54:43				1049	6.66971	2.4082922	7.5765	1.51404	2.24664	23.18216
10:54:44				1050	6.62601	2.3824605	7.5765	1.4652	2.14896	22.93897
10:54:44				1051	6.61072	2.4186243	7.5765	1.51404	2.14896	23.33135
10:54:45				1052	6.61478	2.5059739	7.5765	1.51404	2.10012	24.25443
10:54:45				1053	6.60259	2.4449398	7.5765	1.4652	2.1978	23.61547
10:54:46				1054	6.58831	2.4233051	7.5765	1.51404	2.00244	23.39616
10:54:46				1055	6.56597	2.5092021	7.5765	1.51404	1.9536	24.32338
10:54:47				1056	6.54863	2.4966083	7.4781	1.4652	1.90476	24.20172
10:54:47				1057	6.53948	2.4681896	7.5765	1.4652	1.9536	23.90595
10:54:48				1058	6.49875	2.4731963	7.5765	1.51404	1.85592	23.98771
10:54:48				1059	6.51909	2.5188908	7.5765	1.4652	1.90476	24.45998
10:54:49				1060	6.51095	2.4987082	7.5765	1.4652	1.90476	24.25071
10:54:49				1061	6.44877	2.4938645	7.5765	1.4652	2.00244	24.24319
10:54:50				1062	6.39779	2.4901519	7.5765	1.4652	2.00244	24.23975
10:54:50				1063	6.39983	2.476104	7.5765	1.4652	1.85592	24.0883
10:54:51				1064	6.39983	2.5452158	7.5765	1.51404	2.10012	24.8273

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:51				1065	6.39264	2.4782021	7.5765	1.4652	2.05128	24.11578
10:54:52				1066	6.36302	2.4794936	7.5765	1.4652	2.00244	24.15052
10:54:52				1067	6.38449	2.516794	7.4781	1.51404	2.00244	24.53414
10:54:53				1068	6.36302	2.533428	7.4781	1.4652	1.85592	24.72777
10:54:53				1069	6.34162	2.5486071	7.4781	1.51404	1.90476	24.90613
10:54:54				1070	6.32932	2.5395623	7.5765	1.51404	2.14896	24.818
10:54:54				1071	6.3232	2.5474778	7.5765	1.51404	2.00244	24.90742
10:54:55				1072	6.32626	2.5587796	7.5765	1.51404	1.9536	25.02656
10:54:55				1073	6.3457	2.5641086	7.5765	1.51404	2.05128	25.06952
10:54:56				1074	6.38347	2.5639487	7.5765	1.51404	1.90476	25.04006
10:54:56				1075	6.39365	2.5335866	7.6749	1.51404	2.00244	24.7072
10:54:57				1076	6.3692	2.5127558	7.6749	1.51404	1.9536	24.50183
10:54:57				1077	6.33034	2.5242213	7.6749	1.51404	2.00244	24.65267
10:54:58				1078	6.34773	2.5571666	7.5765	1.4652	2.14896	24.99349
10:54:58				1079	6.3406	2.5476369	7.6749	1.51404	2.00244	24.89639
10:54:59				1080	6.32626	2.5587796	7.6749	1.51404	2.05128	25.02652
10:54:59				1081	6.32116	2.5498994	7.6749	1.4652	2.05128	24.93488
10:55:00				1082	6.32932	2.5311664	7.6749	1.51404	1.9536	24.72788
10:55:00				1083	6.34977	2.4933802	7.5765	1.51404	1.9536	24.30842
10:55:01				1084	6.34672	2.5177625	7.6749	1.4652	2.10012	24.57162
10:55:02	10:53:38 end transect	5	90	1087	6.42923	2.4659924	7.5765	1.4652	2.00244	23.95976
10:55:03				1088	6.66546	2.4325684	7.3798	1.51404	2.10012	23.44149
10:55:03				1089	6.65531	2.3281215	7.2814	1.51404	2.29548	22.34738
10:55:04				1090	6.95957	2.1875517	6.9862	1.4652	2.442	20.69119
10:55:04				1091	7.63207	2.0023543	6.4943	1.4652	2.63736	18.42469
10:55:05				1092	7.94179	1.7967783	6.1992	1.51404	2.83272	16.22857
10:55:05				1093	8.0822	1.7099068	5.8056	1.4652	2.97924	15.31537
10:55:06				1094	8.19649	1.6377232	5.4121	1.51404	3.56532	14.56651
10:55:06				1095	8.30458	1.5951914	5.0186	1.51404	3.80952	14.11272
10:55:07				1096	8.43634	1.5624922	4.6251	1.51404	4.05372	13.74752
10:55:07				1097	8.54207	1.3451228	4.2315	1.51404	3.95604	11.65179
10:55:08				1098	8.84656	1.2950702	3.838	1.51404	3.95604	11.08769
10:55:08				1099	8.94681	1.1647523	3.5428	6.00733	4.93284	9.85868
10:55:09				1100	8.97817	0.9890106	3.1493	6.00733	4.93284	8.25655
10:55:09				1101	9.04684	0.8593394	2.8542	1.51404	5.76313	7.0837
10:55:10				1102	9.09192	0.5618969	2.6574	1.51404	6.78877	4.48644
10:55:10				1103	9.31195	0.5779366	2.2639	1.4652	6.83761	4.59523
10:55:11				1104	9.47281	0.4020572	1.9687	1.51404	7.76557	3.10658
10:55:11				1105	9.53121	0.3934041	1.5752	1.51404	8.30281	3.03062
10:55:12				1106	9.5507	0.3458225	1.2801	1.4652	8.64469	2.64123
10:55:12				1107	9.55168	0.3387739	1.0833	1.4652	8.49817	2.58406
10:55:13				1108	9.55459	0.3394156	0.9849	1.51404	8.64469	2.58905
10:55:13				1109	9.55265	0.3432597	0.9849	1.4652	8.44933	2.62033
10:55:14				1110	9.54682	0.3482247	1.0833	1.51404	8.98657	2.66101
10:55:14				1111	9.54293	0.3376534	0.9849	1.51404	8.74237	2.57562

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:55:15				1112	9.56139	0.0621153	0.7881	1.4652	8.44933	0.43514
10:55:15				1113	9.57207	0.0454939	0.6898	1.4652	33.55311	0.31497
10:55:16				1114	9.58476	0.139339	0.6898	0	0	1.01099
10:55:16				1115	9.59641	0.2542272	0.6898	0	0	1.90404
10:55:17				1116	9.60709	0.3501477	0.6898	0	0	2.67218
10:55:17				1117	9.6168	0.2531061	0.6898	0	0	1.8941
10:55:18				1118	9.63335	0.0792191	0.6898	0	0	0.55938
10:55:18				1119	9.65179	0.0554028	0.6898	0	0	0.38548
10:55:19	10:54:03 switch off	5	90	1120	9.67216	0.0293557	0.6898	0	0	0.19996
11:00:35	10:59:10 switch on	2.5	270	7	9.8555	0.2883441	1.3784	0	0	2.15996
11:00:36				8	9.85453	0.2880235	1.4768	0	0	2.15748
11:00:36				9	9.85357	0.2885036	1.4768	0	0	2.16134
11:00:37				10	9.85453	0.2889839	1.4768	0	0	2.1651
11:00:37				11	9.8497	0.2897853	1.4768	0	0	2.17174
11:00:38				12	9.84389	0.2905856	1.4768	0	0	2.17844
11:00:38				13	9.84002	0.2905856	1.4768	0	0	2.17868
11:00:39				14	9.83712	0.2905856	1.3784	0	0	2.17885
11:00:39				15	9.83519	0.2920277	1.3784	0	0	2.19043
11:00:40				16	9.83222	0.2921877	1.2801	0	0	2.19188
11:00:40				17	9.82835	0.2920277	1.2801	0	0	2.19084
11:00:41				18	9.79158	0.2921878	1.2801	0	0	2.19433
11:00:41				19	9.77699	0.3005142	1.2801	0	0	2.26154
11:00:42				20	9.76634	0.3126855	1.2801	0	0	2.35944
11:00:42				21	9.75085	0.3150888	1.2801	0	0	2.37969
11:00:43				22	9.74794	0.3146084	1.1817	0	0	2.37604
11:00:43				23	9.75085	0.3130058	1.2801	0	0	2.36301
11:00:44				24	9.75472	0.3125261	1.2801	0	0	2.35892
11:00:44				25	9.76053	0.3078807	1.2801	0	0	2.32139
11:00:45				26	9.76247	0.3069205	1.2801	0	0	2.3136
11:00:45				27	9.76634	0.3045176	1.2801	0	0	2.29416
11:00:46				28	9.77409	0.303878	1.2801	0	0	2.28856
11:00:46				29	9.77699	0.3033969	1.2801	0	0	2.28454
11:00:47				30	9.77893	0.3022756	1.2801	0	0	2.27547
11:00:47				31	9.78184	0.3027563	1.2801	0	0	2.27913
11:00:48				32	9.77893	0.3033969	1.2801	0	0	2.28442
11:00:48				33	9.76634	0.3035568	1.3784	0	0	2.28648
11:00:49				34	9.75472	0.3053191	1.2801	0	0	2.3013
11:00:49				35	9.75375	0.3061196	1.2801	0	0	2.30775
11:00:50				36	9.74891	0.3053191	1.2801	0	0	2.30166
11:00:50				37	9.74406	0.3053191	1.2801	0	0	2.30197
11:00:51				38	9.74213	0.3059595	1.2801	0	0	2.30721
11:00:51				39	9.74019	0.3048391	1.2801	0	0	2.29838
11:00:52				40	9.74019	0.3046776	1.2801	0	0	2.29709
11:00:52				41	9.73819	0.3056393	1.2801	0	0	2.3049

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:53				42	9.73722	0.3059595	1.2801	0	0	2.30752
11:00:53				43	9.73722	0.3046776	1.2801	0	0	2.29728
11:00:54				44	9.74213	0.3043577	1.2801	0	0	2.29441
11:00:54				45	9.746	0.3056393	1.2801	0	0	2.30441
11:00:55				46	9.75085	0.3062797	1.2801	0	0	2.30922
11:00:55				47	9.75278	0.3045177	1.2801	0	0	2.29502
11:00:56				48	9.75472	0.3053191	1.2801	0	0	2.3013
11:00:56				49	9.75375	0.3054792	1.2801	0	0	2.30264
11:00:57				50	9.75375	0.3059594	1.2801	0	0	2.30647
11:00:57				51	9.75085	0.3054792	1.2801	0	0	2.30282
11:00:58				52	9.74988	0.3051591	1.2801	0	0	2.30032
11:00:58				53	9.75085	0.3046776	1.2801	0	0	2.29642
11:00:59				54	9.74794	0.3054792	1.2801	0	0	2.30301
11:00:59				55	9.74019	0.3062797	1.2801	0	0	2.3099
11:01:00				56	9.73916	0.3061196	1.2801	0	0	2.30868
11:01:00				57	9.74116	0.3045177	1.3784	0	0	2.29575
11:01:01				58	9.7431	0.3053191	1.2801	0	0	2.30203
11:01:01				59	9.74116	0.3064399	1.2801	0	0	2.31111
11:01:02				60	9.73916	0.3053191	1.3784	0	0	2.30228
11:01:02				61	9.74116	0.3049991	1.2801	0	0	2.2996
11:01:03				62	9.73819	0.3051591	1.2801	0	0	2.30107
11:01:03				63	9.73432	0.3048391	1.2801	0	0	2.29875
11:01:04				64	9.73819	0.3057993	1.2801	0	0	2.30618
11:01:04				65	9.74116	0.3069205	1.2801	0	0	2.31496
11:01:05				66	9.74213	0.3056393	1.2801	0	0	2.30465
11:01:05				67	9.74019	0.3046776	1.2801	0	0	2.29709
11:01:06				68	9.74116	0.3053191	1.3784	0	0	2.30215
11:01:06				69	9.74794	0.3064399	1.2801	0	0	2.31068
11:01:07				70	9.75375	0.3067602	1.2801	0	0	2.31287
11:01:07				71	9.74988	0.3054792	1.2801	0	0	2.30288
11:01:08				72	9.74697	0.3049991	1.2801	0	0	2.29923
11:01:08				73	9.7431	0.3069205	1.3784	0	0	2.31483
11:01:09				74	9.746	0.3067603	1.2801	0	0	2.31337
11:01:09				75	9.75085	0.3056392	1.2801	0	0	2.3041
11:01:10				76	9.75181	0.3051591	1.2801	0	0	2.3002
11:01:10				77	9.75085	0.3061196	1.2801	0	0	2.30794
11:01:11				78	9.74988	0.3066001	1.2801	0	0	2.31184
11:01:11				79	9.74794	0.3059594	1.2801	0	0	2.30684
11:01:12				80	9.74891	0.3057993	1.2801	0	0	2.3055
11:01:12				81	9.746	0.3056393	1.3784	0	0	2.3044
11:01:13				82	9.746	0.3059594	1.2801	0	0	2.30697
11:01:13				83	9.74891	0.3059594	1.2801	0	0	2.30678
11:01:14				84	9.75085	0.3059594	1.2801	0	0	2.30666
11:01:14				85	9.75569	0.3062797	1.2801	0	0	2.30891
11:01:15				86	9.75569	0.3061196	1.3784	0	0	2.30763

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:15				87	9.76731	0.3051591	1.2801	0	0	2.29922
11:01:16				88	9.76537	0.3059594	1.2801	0	0	2.30574
11:01:16				89	9.7615	0.3064399	1.2801	0	0	2.30982
11:01:17				90	9.7615	0.3059594	1.3784	0	0	2.30598
11:01:17				91	9.76537	0.3056392	1.3784	0	0	2.30317
11:01:18				92	9.76537	0.3062797	1.2801	0	0	2.30829
11:01:18				93	9.75375	0.3066001	1.2801	0	0	2.31159
11:01:19				94	9.74213	0.3054792	1.3784	0	0	2.30337
11:01:19				95	9.73529	0.3086826	1.3784	0	0	2.32942
11:01:20				96	9.73722	0.3163697	1.2801	0.63492	0.29304	2.39085
11:01:20				97	9.73141	0.3157291	1.2801	0.43956	0.09768	2.3861
11:01:21				98	9.73819	0.3144474	1.3784	1.4652	1.02564	2.37538
11:01:21				99	9.74019	0.3134872	1.3784	1.51404	1.07448	2.36756
11:01:22				100	9.74116	0.3125261	1.3784	1.51404	0.9768	2.3598
11:01:22				101	9.7431	0.3094834	1.2801	1.4652	8.15629	2.33533
11:01:23				102	9.746	0.3157291	1.2801	1.51404	7.86325	2.38514
11:01:23				103	9.74116	0.3173303	1.2801	1.51404	7.57021	2.39829
11:01:24				104	9.73432	0.3168507	1.2801	1.51404	7.91209	2.39489
11:01:24				105	9.73625	0.3168507	1.2801	1.51404	8.15629	2.39476
11:01:25				106	9.73238	0.3171704	1.3784	1.51404	8.05861	2.39758
11:01:25				107	9.72947	0.3171704	1.2801	1.4652	8.20513	2.39778
11:01:26				108	9.7285	0.3155694	1.3784	1.51404	8.10745	2.385
11:01:26				109	9.73335	0.3152485	1.2801	1.4652	8.05861	2.38212
11:01:27				110	9.73335	0.3163697	1.3784	1.51404	8.00977	2.3911
11:01:27				111	9.73335	0.3165295	1.3784	1.51404	7.81441	2.39238
11:01:28				112	9.72947	0.3168507	1.2801	1.51404	7.81441	2.39521
11:01:28				113	9.72947	0.3174903	1.3784	1.51404	8.30281	2.40034
11:01:29				114	9.72753	0.3168507	1.3784	1.4652	8.10745	2.39534
11:01:29				115	9.73141	0.3162099	1.2801	1.51404	8.44933	2.38995
11:01:30				116	9.73335	0.3160486	1.2801	1.4652	8.30281	2.38853
11:01:30				117	9.73141	0.3206939	1.2801	1.4652	8.30281	2.42591
11:01:31				118	9.72463	0.3240579	1.2801	1.4652	8.35165	2.45336
11:01:31				119	9.72269	0.3222962	1.3784	1.51404	8.54701	2.43935
11:01:32				120	9.72269	0.3206939	1.2801	1.4652	8.20513	2.42649
11:01:32				121	9.72947	0.3166893	1.3784	1.4652	8.25397	2.39392
11:01:33				122	9.73238	0.311405	1.2801	1.4652	8.49817	2.3514
11:01:33				123	9.73916	0.3083618	1.2801	1.4652	8.40049	2.32661
11:01:34				124	9.73238	0.3125261	1.2801	1.4652	8.05861	2.36037
11:01:35				127	9.72584	0.3204891	1.3784	1.4652	8.44933	2.42463
11:01:36				128	9.71615	0.327215	1.3784	1.4652	7.71673	2.4793
11:01:36				129	9.71227	0.3270555	1.2801	1.51404	7.86325	2.47829
11:01:37				130	9.71227	0.3152042	1.2801	1.51404	8.35165	2.38315
11:01:37				131	9.70645	0.3220897	1.2801	1.4652	7.57021	2.43878
11:01:38				132	9.70161	0.3222501	1.3784	1.4652	7.61905	2.44039
11:01:38				133	9.70355	0.319688	1.2801	1.51404	8.20513	2.41969

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:39				134	9.71227	0.316645	1.3784	1.4652	7.61905	2.39469
11:01:39				135	9.7239	0.3110409	1.2801	1.51404	8.40049	2.34903
11:01:40				136	9.73559	0.312321	1.2801	1.51404	8.49817	2.35852
11:01:40				137	9.74237	0.3118416	1.2801	1.4652	8.69353	2.35424
11:01:41				138	9.74431	0.3126412	1.3784	1.4652	8.05861	2.36052
11:01:41				139	9.74624	0.3110408	1.2801	1.51404	8.59585	2.34759
11:01:42				140	9.74818	0.3107195	1.2801	1.4652	8.25397	2.34489
11:01:42				141	9.75206	0.3113608	1.3784	1.4652	8.15629	2.34977
11:01:43				142	9.75109	0.3118415	1.2801	1.4652	8.00977	2.35368
11:01:43				143	9.74528	0.3110408	1.2801	1.51404	8.00977	2.34765
11:01:44				144	9.7414	0.3105603	1.3784	1.51404	8.00977	2.34405
11:01:44				145	9.74431	0.3103997	1.3784	1.4652	8.40049	2.34258
11:01:45				146	9.75303	0.3108801	1.3784	1.4652	8.20513	2.34586
11:01:45				147	9.76271	0.3156847	1.2801	1.51404	8.05861	2.38368
11:01:46				148	9.75884	0.3148833	1.3784	1.51404	8.15629	2.37752
11:01:46				149	9.75884	0.3288169	1.3784	1.51404	8.25397	2.48925
11:01:47				150	9.74431	0.3289766	1.2801	1.51404	8.15629	2.49153
11:01:47				151	9.73462	0.3336215	1.3784	1.51404	8.15629	2.52955
11:01:48				152	9.71615	0.3339419	1.2801	1.4652	7.81441	2.53342
11:01:48				153	9.68416	0.3344228	1.3784	1.4652	8.30281	2.53953
11:01:49				154	9.64821	0.3389075	1.3784	1.51404	8.40049	2.57824
11:01:49				155	9.62389	0.3429116	1.3784	1.51404	8.40049	2.61234
11:01:50				156	9.6268	0.3405088	1.3784	1.4652	8.00977	2.59271
11:01:50				157	9.63657	0.3357028	1.2801	1.51404	8.44933	2.5532
11:01:51				158	9.64433	0.3342625	1.2801	1.4652	8.20513	2.54103
11:01:51				159	9.65403	0.3317002	1.2801	1.4652	8.15629	2.51969
11:01:52				160	9.66082	0.3334613	1.2801	1.51404	7.71673	2.53342
11:01:52				161	9.66664	0.330739	1.2801	1.51404	8.59585	2.51107
11:01:53				162	9.67149	0.3289767	1.2801	1.51404	8.59585	2.49654
11:01:53				163	9.67925	0.3278562	1.2801	1.4652	8.54701	2.48699
11:01:54				164	9.68997	0.3276951	1.1817	1.51404	8.00977	2.48496
11:01:54	11:00:30 start transect	2.5	270	165	9.69773	0.3281754	1.2801	1.4652	8.30281	2.48829
11:01:55				166	9.69676	0.3278562	1.2801	1.4652	8.40049	2.48579
11:01:55				167	9.68901	0.3308989	1.2801	1.51404	8.20513	2.51081
11:01:56				168	9.66567	0.3483577	1.2801	1.51404	8.35165	2.65335
11:01:56				169	9.64918	0.3517201	1.2801	1.4652	8.25397	2.68178
11:01:57				170	9.65015	0.352522	1.2801	1.51404	8.59585	2.6882
11:01:57				171	9.65888	0.3541242	1.2801	1.51404	8.30281	2.70053
11:01:58				172	9.6453	0.3605315	1.2801	1.4652	8.49817	2.75349
11:01:58				173	9.58701	0.3473963	1.2801	1.51404	8.69353	2.65134
11:01:59				174	9.60351	0.3514003	1.2801	1.4652	8.10745	2.68257
11:01:59				175	9.64336	0.3416299	1.2801	1.4652	9.03541	2.60058
11:02:00				176	9.63948	0.342431	1.2801	1.4652	8.69353	2.60734
11:02:00				177	9.62875	0.3382661	1.2801	1.51404	8.20513	2.57445
11:02:01				178	9.62875	0.3381053	1.2801	1.4652	7.86325	2.57315

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:01				179	9.62875	0.3398681	1.3784	1.4652	8.44933	2.58739
11:02:02				180	9.6268	0.3419506	1.2801	1.51404	8.49817	2.60437
11:02:02				181	9.62583	0.3427504	1.2801	1.51404	8.35165	2.6109
11:02:03				182	9.62486	0.3403478	1.2801	1.4652	8.25397	2.59155
11:02:03				183	9.62972	0.3398681	1.3784	1.4652	8.49817	2.58732
11:02:04				184	9.63366	0.3409887	1.2801	1.51404	8.30281	2.5961
11:02:04				185	9.63366	0.3401884	1.2801	1.4652	8.10745	2.58963
11:02:05				186	9.63166	0.3530028	1.2801	1.4652	8.25397	2.69347
11:02:05				187	9.62292	0.357647	1.2801	1.4652	8.35165	2.73178
11:02:06				188	9.60157	0.3566872	1.2801	1.4652	8.59585	2.7256
11:02:06				189	9.58701	0.3544446	1.2801	1.51404	8.59585	2.70849
11:02:07				190	9.57723	0.3542836	1.2801	1.51404	8.93773	2.70792
11:02:07				191	9.58015	0.3530029	1.3784	1.4652	8.49817	2.6973
11:02:08				192	9.58701	0.350599	1.3784	1.51404	8.54701	2.67729
11:02:08				193	9.59283	0.3486769	1.2801	1.4652	8.64469	2.66129
11:02:09				194	9.59769	0.3494787	1.3784	1.4652	8.88889	2.66742
11:02:09				195	9.60836	0.3489975	1.3784	1.51404	8.40049	2.66274
11:02:10				196	9.61322	0.3457937	1.2801	1.51404	8.59585	2.63644
11:02:10				197	9.61031	0.3469158	1.3784	1.51404	8.74237	2.64573
11:02:11				198	9.60448	0.3509201	1.3784	1.51404	9.42613	2.6786
11:02:11				199	9.59283	0.3496391	1.3784	1.51404	8.40049	2.66908
11:02:12				200	9.59477	0.3493183	1.3784	1.4652	8.44933	2.66634
11:02:12				201	9.59574	0.3497981	1.3784	1.4652	8.44933	2.67015
11:02:13				202	9.59477	0.3494787	1.2801	1.4652	8.49817	2.66764
11:02:13				203	9.5938	0.3459537	1.2801	1.51404	8.74237	2.63915
11:02:14				204	9.60933	0.3478769	1.3784	1.51404	8.40049	2.65359
11:02:14				205	9.61904	0.351561	1.2801	1.51404	9.03541	2.68272
11:02:15				206	9.62195	0.3536431	1.2801	1.51404	8.64469	2.69938
11:02:15				207	9.61807	0.3502795	1.3784	1.51404	8.54701	2.67241
11:02:16				208	9.61419	0.3502795	1.3784	1.51404	8.69353	2.67269
11:02:16				209	9.61031	0.3499585	1.2801	1.51404	8.40049	2.67038
11:02:17				210	9.60448	0.3531621	1.2801	1.51404	8.84005	2.69679
11:02:17				211	9.59769	0.3510807	1.2801	1.51404	8.74237	2.68041
11:02:18				212	9.59477	0.3478769	1.2801	1.51404	8.54701	2.65466
11:02:18				213	9.59477	0.3475565	1.3784	1.51404	8.59585	2.65206
11:02:19				214	9.59283	0.3489976	1.3784	1.51404	8.30281	2.66388
11:02:19				215	9.59769	0.3486769	1.3784	1.51404	8.30281	2.66092
11:02:20				216	9.60157	0.3481975	1.2801	1.51404	8.44933	2.65676
11:02:20				217	9.60739	0.3478769	1.3784	1.51404	8.69353	2.65373
11:02:21				218	9.60739	0.3480372	1.2801	1.51404	8.30281	2.65503
11:02:21				219	9.60739	0.3493183	1.3784	1.51404	8.64469	2.66541
11:02:22				220	9.60642	0.344033	1.3784	1.51404	7.71673	2.62268
11:02:22				221	9.61322	0.3459537	1.3784	1.4652	8.05861	2.63773
11:02:23				222	9.61807	0.344033	1.3784	1.4652	8.30281	2.62184
11:02:23				223	9.62195	0.3448339	1.2801	1.4652	8.54701	2.62804

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:24				224	9.62486	0.3406682	1.2801	1.4652	8.40049	2.59414
11:02:24				225	9.6268	0.3427504	1.2801	1.4652	8.40049	2.61083
11:02:25				226	9.62389	0.3472361	1.2801	1.4652	8.64469	2.64734
11:02:25				227	9.62195	0.3464354	1.3784	1.51404	8.59585	2.64099
11:02:26				228	9.62292	0.3443527	1.2801	1.51404	8.84005	2.62407
11:02:26				229	9.62389	0.3360237	1.3784	1.51404	8.59585	2.55668
11:02:27				230	9.62098	0.3320203	1.2801	1.51404	8.69353	2.52458
11:02:27				231	9.62001	0.3349023	1.2801	1.51404	8.44933	2.54791
11:02:28				232	9.61904	0.3323404	1.2801	1.51404	8.54701	2.52729
11:02:28				233	9.6268	0.3300981	1.3784	1.4652	8.79121	2.50866
11:02:29				234	9.63269	0.3313788	1.2801	1.51404	8.74237	2.51859
11:02:29				235	9.63463	0.3358633	1.2801	1.4652	8.20513	2.55463
11:02:30				236	9.63657	0.3363447	1.2801	1.51404	8.74237	2.55838
11:02:30				237	9.63948	0.3368248	1.2801	1.51404	9.23077	2.56205
11:02:31				238	9.63948	0.3365037	1.3784	1.51404	8.49817	2.55946
11:02:31				239	9.63851	0.3376248	1.2801	1.4652	8.79121	2.56858
11:02:32				240	9.6356	0.3376248	1.2801	1.4652	8.30281	2.56879
11:02:32				241	9.63166	0.3379462	1.3784	1.4652	8.20513	2.57166
11:02:33				242	9.63269	0.3373051	1.3784	1.4652	8.59585	2.56641
11:02:33				243	9.63069	0.3384268	1.3784	1.4652	8.25397	2.57561
11:02:34	11:01:10 @ 6:00	2.5	180	244	9.63657	0.3389075	1.2801	1.51404	8.44933	2.57908
11:02:35				247	9.65615	0.3307375	1.2801	1.4652	8.20513	2.51179
11:02:36				248	9.66682	0.3294559	1.2801	1.51404	8.74237	2.50072
11:02:36				249	9.66391	0.3300966	1.2801	1.51404	8.54701	2.50609
11:02:37				250	9.66585	0.3320188	1.3784	1.4652	8.49817	2.52143
11:02:37				251	9.66585	0.3310574	1.3784	1.51404	8.74237	2.51369
11:02:38				252	9.67367	0.3251324	1.2801	1.51404	8.69353	2.46546
11:02:38				253	9.67755	0.3350611	1.2801	1.51404	8.84005	2.54514
11:02:39				254	9.67173	0.3373035	1.2801	1.4652	8.59585	2.56363
11:02:39				255	9.65906	0.3331395	1.2801	1.4652	8.74237	2.53094
11:02:40				256	9.66682	0.326893	1.3784	1.4652	8.93773	2.48009
11:02:40				257	9.67464	0.3349008	1.3784	1.51404	8.20513	2.54405
11:02:41				258	9.66003	0.338906	1.2801	1.4652	8.30281	2.57739
11:02:41				259	9.64645	0.3357028	1.2801	1.51404	8.35165	2.5525
11:02:42				260	9.64063	0.3334599	1.3784	1.51404	8.44933	2.53481
11:02:42				261	9.6416	0.3369839	1.2801	1.51404	8.10745	2.56319
11:02:43				262	9.6416	0.3368233	1.2801	1.51404	8.54701	2.56189
11:02:43				263	9.63384	0.3365037	1.3784	1.51404	8.54701	2.55985
11:02:44				264	9.63093	0.335382	1.3784	1.51404	8.69353	2.551
11:02:44				265	9.63384	0.3337803	1.2801	1.4652	8.40049	2.53788
11:02:45				266	9.63869	0.3349008	1.2801	1.4652	8.79121	2.54658
11:02:45				267	9.64354	0.3349008	1.3784	1.51404	8.93773	2.54623
11:02:46				268	9.64063	0.3331395	1.2801	1.4652	8.35165	2.53223
11:02:46				269	9.64257	0.3337803	1.3784	1.51404	8.74237	2.53726
11:02:47				270	9.64742	0.3313788	1.3784	1.51404	8.15629	2.51756

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:47				271	9.65033	0.3323389	1.2801	1.4652	8.15629	2.5251
11:02:48				272	9.65324	0.3310574	1.3784	1.4652	8.79121	2.51456
11:02:48				273	9.66391	0.3308974	1.2801	1.51404	8.20513	2.51254
11:02:49				274	9.66682	0.3307375	1.3784	1.4652	9.08425	2.51104
11:02:49				275	9.66682	0.3331395	1.3784	1.4652	9.27961	2.5304
11:02:50				276	9.67949	0.334261	1.3784	1.51404	8.49817	2.53855
11:02:50				277	9.67949	0.332499	1.3784	1.4652	8.49817	2.52435
11:02:51				278	9.68046	0.3286558	1.2801	1.51404	8.10745	2.49334
11:02:51				279	9.6824	0.3278547	1.2801	1.51404	8.20513	2.48676
11:02:52				280	9.68434	0.3352215	1.2801	1.51404	8.25397	2.54596
11:02:52				281	9.68337	0.3408277	1.3784	1.51404	8.49817	2.59124
11:02:53				282	9.67658	0.3382645	1.3784	1.4652	8.44933	2.57104
11:02:53				283	9.66882	0.3328192	1.2801	1.4652	8.59585	2.52768
11:02:54				284	9.66779	0.3403478	1.2801	1.51404	8.59585	2.58848
11:02:54				285	9.66585	0.344511	1.2801	1.4652	8.44933	2.62224
11:02:55				286	9.65809	0.3413077	1.2801	1.51404	8.35165	2.59693
11:02:55				287	9.65615	0.3409872	1.2801	1.51404	8.64469	2.59448
11:02:56				288	9.65809	0.3398665	1.2801	1.51404	8.49817	2.58529
11:02:56				289	9.63966	0.3283351	1.2801	1.51404	8.44933	2.49357
11:02:57				290	9.63869	0.3387453	1.2801	1.41636	8.35165	2.57762
11:02:57				291	9.64548	0.334742	1.2801	1.51404	8.20513	2.54482
11:02:58				292	9.64839	0.3411482	1.2801	1.4652	8.54701	2.59633
11:02:58				293	9.63384	0.3533214	1.2801	1.51404	8.40049	2.69589
11:02:59				294	9.59593	0.3457922	1.2801	1.51404	8.49817	2.63769
11:02:59				295	9.5901	0.349957	1.2801	1.51404	8.59585	2.67186
11:03:00				296	9.59495	0.3464339	1.2801	1.51404	8.25397	2.64296
11:03:00				297	9.60369	0.3405073	1.2801	1.4652	8.64469	2.59436
11:03:01				298	9.60952	0.3357028	1.2801	1.51404	8.88889	2.55511
11:03:01				299	9.60952	0.3302565	1.2801	1.4652	9.23077	2.51114
11:03:02				300	9.61243	0.3339406	1.3784	1.51404	9.67033	2.54067
11:03:02	11:01:38 end transect	2.5	90	301	9.6134	0.3374642	1.2801	1.51404	8.59585	2.56906
11:03:03				302	9.61734	0.3315388	1.2801	1.4652	8.88889	2.52094
11:03:03				303	9.63287	0.3286559	1.2801	1.4652	8.93773	2.49662
11:03:04				304	9.65809	0.3294559	1.4768	1.4652	9.18193	2.50132
11:03:04				305	9.66294	0.3257727	1.4768	1.51404	8.49817	2.47133
11:03:05				306	9.67076	0.3240104	1.5752	1.51404	8.10745	2.45662
11:03:05				307	9.67755	0.3230497	1.6736	1.51404	8.93773	2.44843
11:03:06				308	9.68628	0.3233708	1.772	1.51404	8.49817	2.45042
11:03:06				309	9.68434	0.3252917	1.8703	1.4652	8.49817	2.46599
11:03:07				310	9.67949	0.3260929	1.9687	1.4652	7.86325	2.47276
11:03:07				311	9.66979	0.3792717	2.1655	1.4652	8.40049	2.90382
11:03:08				312	9.58136	0.3661364	2.2639	1.51404	8.69353	2.80389
11:03:08				313	9.57845	0.3694999	2.3623	1.4652	8.54701	2.8315
11:03:09				314	9.59884	0.4172457	2.3623	1.4652	8.69353	3.22034
11:03:09				315	9.46947	0.4129192	2.4606	1.51404	9.13309	3.19624

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:10				316	9.38175	0.4122797	2.6574	1.4652	9.08425	3.19874
11:03:10				317	9.35831	0.5118183	2.7558	1.51404	9.23077	4.03061
11:03:11				318	9.19424	0.4975494	2.9526	1.51404	9.32845	3.9287
11:03:11				319	9.11887	0.488411	2.9526	1.4652	9.42613	3.85986
11:03:12				320	9.18252	0.4755866	3.0509	1.51404	9.67033	3.7452
11:03:12				321	9.26361	0.452986	3.0509	1.4652	9.62149	3.54774
11:03:13				322	9.29684	0.4492986	3.0509	1.4652	8.98657	3.51373
11:03:13				323	9.30561	0.4678915	2.9526	1.4652	9.32845	3.66803
11:03:14				324	9.32517	0.4560311	3.0509	1.51404	9.27961	3.56705
11:03:14				325	9.31634	0.4396833	3.0509	1.51404	9.37729	3.43181
11:03:15				326	9.31933	0.4430481	3.0509	1.51404	9.67033	3.45951
11:03:15				327	9.34369	0.4411252	3.0509	1.4652	9.32845	3.44118
11:03:16				328	9.36909	0.4416061	3.0509	1.51404	9.27961	3.44275
11:03:16				329	9.39344	0.4377593	3.0509	1.51404	9.23077	3.4085
11:03:17				330	9.42465	0.4411251	3.0509	1.51404	9.62149	3.43345
11:03:17				331	9.45871	0.4759067	3.0509	1.51404	9.57265	3.7192
11:03:18				332	9.46357	0.4762273	3.0509	1.4652	9.13309	3.72137
11:03:18				333	9.47823	0.4787925	3.0509	1.51404	8.88889	3.74123
11:03:19				334	9.4899	0.4844041	2.8542	1.51404	9.37729	3.7868
11:03:19				335	9.49184	0.4829601	3.0509	1.51404	9.62149	3.77455
11:03:20				336	9.48601	0.4945036	3.0509	1.4652	9.27961	3.87149
11:03:20				337	9.4899	0.4733424	3.0509	1.4652	9.03541	3.69464
11:03:21				338	9.48795	0.478953	3.0509	1.4652	9.37729	3.74156
11:03:21				339	9.48601	0.4932199	3.0509	1.4652	9.03541	3.86077
11:03:22				340	9.40707	0.5097353	3.0509	1.51404	9.37729	4.00765
11:03:22				341	9.29196	0.5185538	3.0509	1.51404	9.86569	4.0948
11:03:23				342	9.18154	0.5204776	3.0509	1.4652	8.98657	4.12369
11:03:23				343	9.07577	0.5169504	3.0509	1.4652	8.59585	4.10597
11:03:24				344	9.02188	0.5163097	3.0509	1.51404	9.03541	4.10672
11:03:24				345	9.0209	0.5222424	3.0509	1.51404	9.91453	4.15724
11:03:25				346	9.00425	0.5241666	3.0509	1.51404	9.08425	4.17554
11:03:25				347	8.99054	0.521922	3.0509	1.4652	8.84005	4.15804
11:03:26				348	8.9925	0.5118189	3.0509	1.51404	8.64469	4.07194
11:03:26				349	9.00131	0.5227225	3.0509	1.4652	8.98657	4.1636
11:03:27				350	9.00425	0.5224019	3.0509	1.51404	9.03541	4.16053
11:03:27				351	8.98858	0.5288156	3.0509	1.51404	8.49817	4.21695
11:03:28				352	8.97382	0.5265721	3.0509	1.4652	9.03541	4.19958
11:03:28				353	8.97284	0.5252892	3.0509	1.4652	8.88889	4.18877
11:03:29				354	8.965	0.5270533	3.0509	1.51404	9.42613	4.20472
11:03:29				355	8.95814	0.5341079	3.0509	1.4652	9.52381	4.26567
11:03:30				356	8.95128	0.5358719	3.0509	1.51404	10.69597	4.28155
11:03:30				357	8.94442	0.5336266	3.0509	1.41636	9.32845	4.26321
11:03:31				358	8.94141	0.5357113	3.0509	1.4652	9.96337	4.28136
11:03:31				359	8.94246	0.5328248	3.0509	1.51404	9.71917	4.2566
11:03:32				360	8.93945	0.5270533	3.0509	1.51404	10.01221	4.20773

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:32				361	8.93847	0.5281742	3.0509	1.4652	9.81685	4.2174
11:03:33				362	8.94344	0.5246472	3.0509	1.51404	9.62149	4.18675
11:03:33				363	8.94442	0.507812	3.0509	1.51404	9.81685	4.04336
11:03:34				364	8.97676	0.4920996	3.0509	1.4652	9.62149	3.90645
11:03:35				367	9.12266	0.4657962	3.0509	1.51404	9.57265	3.66917
11:03:36				368	9.14417	0.4617892	3.0509	1.51404	9.81685	3.63335
11:03:36				369	9.15296	0.4633911	3.0509	1.51404	9.62149	3.64589
11:03:37				370	9.15394	0.4749327	3.0509	1.4652	9.67033	3.74269
11:03:37				371	9.14905	0.5100424	3.0509	1.51404	10.40293	4.03915
11:03:38				372	9.14808	0.4920862	3.0509	1.51404	9.91453	3.88768
11:03:38				373	9.1471	0.506194	3.0509	1.4652	8.64469	4.00684
11:03:39				374	9.14221	0.5001009	3.0509	1.4652	9.03541	3.95593
11:03:39				375	9.11973	0.4917644	3.0509	1.51404	9.23077	3.88804
11:03:40				376	9.08446	0.5417908	3.0509	1.51404	9.03541	4.31597
11:03:40				377	9.05113	0.5603946	3.0509	1.51404	8.79121	4.4787
11:03:41				378	8.99819	0.5629599	3.0509	1.51404	9.13309	4.50728
11:03:41				379	8.98839	0.5618371	3.0509	1.4652	9.23077	4.49891
11:03:42				380	8.9835	0.5025067	3.0509	1.4652	8.88889	3.99392
11:03:42				381	9.01582	0.5143704	3.0509	1.51404	8.64469	4.09094
11:03:43				382	9.06189	0.51838	3.0509	1.51404	8.98657	4.11969
11:03:43				383	9.07467	0.5308864	3.0509	1.4652	9.08425	4.2244
11:03:44				384	9.057	0.5257547	3.0509	1.4652	9.52381	4.18287
11:03:44				385	9.05504	0.5331318	3.0509	1.51404	9.13309	4.24582
11:03:45				386	9.06287	0.5438761	3.0509	1.51404	9.13309	4.33634
11:03:45				387	9.05896	0.6433294	3.0509	1.4652	9.13309	5.19021
11:03:46				388	9.01484	0.6795942	3.0509	1.51404	9.03541	5.51107
11:03:46				389	8.95305	0.6752616	3.0509	1.51404	8.93773	5.48291
11:03:47				390	8.91279	0.6102781	3.0509	1.4652	8.25397	4.9254
11:03:47				391	8.93737	0.5891041	3.0509	1.4652	8.10745	4.73952
11:03:48				392	8.95109	0.5873392	3.0509	1.51404	8.44933	4.72252
11:03:48				393	8.95404	0.6359486	2.9526	1.51404	8.40049	5.14156
11:03:49				394	8.93639	0.6412426	3.0509	1.4652	7.81441	5.18996
11:03:49				395	8.93247	0.6505489	3.0509	1.51404	7.76557	5.27125
11:03:50				396	8.94521	0.6619427	3.0509	1.51404	8.20513	5.36829
11:03:50				397	8.9786	0.6818412	3.0509	1.51404	8.25397	5.53622
11:03:51				398	9.00701	0.7386602	3.0509	1.51404	7.86325	6.02763
11:03:51				399	8.96972	0.7497376	3.0509	1.51404	7.47253	6.1311
11:03:52				400	8.92064	0.7299924	3.0509	1.4652	7.03297	5.9662
11:03:52				401	8.89612	0.7624205	3.0509	1.4652	6.59341	6.25539
11:03:53				402	8.87349	0.7853813	3.0509	1.51404	5.95849	6.462
11:03:53				403	8.85877	0.8051309	3.0509	1.51404	6.30037	6.63946
11:03:54				404	8.8568	0.7840957	3.0509	1.4652	5.81197	6.45366
11:03:54				405	8.85484	0.7730164	3.0509	1.51404	5.56777	6.35614
11:03:55				406	8.85975	0.7942111	3.0509	1.4652	5.71429	6.54259
11:03:55				407	8.87251	0.7958174	3.0509	1.51404	5.61661	6.55445

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:56				408	8.87643	0.7918026	3.0509	1.4652	5.61661	6.51822
11:03:56				409	8.87153	0.7852196	3.0509	1.51404	5.71429	6.46093
11:03:57				410	8.86956	0.790037	3.0509	1.51404	5.76313	6.50387
11:03:57				411	8.87153	0.7924455	3.0509	1.51404	6.00733	6.52481
11:03:58				412	8.87447	0.7757468	3.1493	1.51404	5.66545	6.37672
11:03:58				413	8.87545	0.7657931	3.0509	1.51404	5.42125	6.28875
11:03:59				414	8.87153	0.7625807	3.0509	1.4652	5.56777	6.26112
11:03:59				415	8.87153	0.7611361	3.0509	1.51404	6.05617	6.24839
11:04:00				416	8.86269	0.7649896	3.0509	1.51404	6.00733	6.28392
11:04:00				417	8.85778	0.7621003	3.0509	1.51404	5.90965	6.25931
11:04:01				418	8.8568	0.7555173	3.0509	1.51404	5.47009	6.20146
11:04:01				419	8.86073	0.756481	3.0509	1.4652	5.47009	6.20926
11:04:02				420	8.85288	0.7521466	3.0509	1.51404	5.90965	6.17244
11:04:02				421	8.84699	0.7505399	3.0509	1.51404	5.71429	6.15931
11:04:03				422	8.84011	0.7502195	3.0509	1.51404	6.00733	6.15768
11:04:03				423	8.8322	0.7510216	3.0509	1.4652	6.10501	6.16612
11:04:04				424	8.82238	0.7515035	3.0509	1.4652	5.51893	6.17207
11:04:04				425	8.81648	0.7474909	3.0509	1.51404	5.56777	6.13772
11:04:05				426	8.81157	0.7470081	3.0509	1.51404	5.56777	6.13431
11:04:05				427	8.81157	0.74733	3.0509	1.4652	5.22589	6.13715
11:04:06				428	8.81354	0.746849	3.0509	1.51404	5.42125	6.13257
11:04:06				429	8.82434	0.7511829	3.0509	1.51404	5.27473	6.1689
11:04:07				430	8.82336	0.7492565	3.0509	1.51404	5.71429	6.15209
11:04:07				431	8.81747	0.7460464	3.0509	1.51404	5.27473	6.12482
11:04:08				432	8.81354	0.7460464	3.0509	1.4652	5.12821	6.1255
11:04:08				433	8.81452	0.7490955	3.0509	1.51404	5.37241	6.1522
11:04:09				434	8.81059	0.749738	3.0509	1.51404	6.10501	6.15855
11:04:09				435	8.80863	0.7495769	2.9526	1.51404	5.90965	6.15747
11:04:10				436	8.8047	0.7460465	3.0509	1.51404	4.98168	6.12702
11:04:10				437	8.80273	0.7465272	3.0509	1.51404	5.07937	6.1316
11:04:11				438	8.80077	0.7450815	3.0509	1.4652	5.07937	6.11919
11:04:11				439	8.79978	0.7457248	3.0509	1.51404	5.17705	6.12503
11:04:12				440	8.79978	0.7449226	3.0509	1.51404	5.03053	6.11796
11:04:12				441	8.80273	0.7458856	3.0509	1.51404	5.07937	6.12594
11:04:13				442	8.80666	0.7465272	3.0509	1.4652	5.22589	6.13092
11:04:13				443	8.80077	0.747169	3.0509	1.4652	5.27473	6.1376
11:04:14				444	8.79978	0.7447618	3.0509	1.4652	4.98168	6.11655
11:04:14				445	8.80568	0.7455639	3.0509	1.51404	5.22589	6.1226
11:04:15				446	8.81354	0.7498991	3.0509	1.51404	5.22589	6.15946
11:04:15				447	8.80764	0.747972	3.0509	1.51404	5.17705	6.14349
11:04:16				448	8.80273	0.7611363	3.0509	1.51404	5.27473	6.26048
11:04:16				449	8.80077	0.7654707	3.0509	1.4652	5.27473	6.29911
11:04:17				450	8.7988	0.747972	3.0509	1.4652	5.17705	6.14501
11:04:17				451	8.80077	0.7441188	3.0509	1.51404	5.12821	6.11071
11:04:18				452	8.80175	0.7462055	3.0509	1.51404	5.22589	6.12893

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:18				453	8.80764	0.74139	3.0509	1.51404	5.12821	6.08549
11:04:19				454	8.81354	0.7399456	3.0509	1.51404	5.27473	6.07176
11:04:19	11:02:55 start transect	2.5	90	455	8.81747	0.7307951	3.0509	1.51404	5.42125	5.99057
11:04:20				456	8.82532	0.7296713	3.0509	1.4652	5.32357	5.97937
11:04:20				457	8.82729	0.7279059	3.0509	1.51404	5.12821	5.96352
11:04:21				458	8.81943	0.7264609	3.0509	1.51404	5.32357	5.95213
11:04:21				459	8.81354	0.7258194	3.0509	1.51404	5.47009	5.94748
11:04:22				460	8.80666	0.7283866	3.0509	1.4652	5.42125	5.9712
11:04:22				461	8.7988	0.7314381	3.0509	1.4652	5.47009	5.99937
11:04:23				462	8.79782	0.730314	3.0509	1.51404	5.56777	5.98965
11:04:23				463	8.80175	0.7263014	2.8542	1.51404	5.61661	5.95371
11:04:24				464	8.80273	0.7267818	3.0509	1.51404	5.32357	5.95775
11:04:24				465	8.80273	0.7118549	3.0509	1.51404	5.37241	5.8266
11:04:25				466	8.80863	0.7123358	3.0509	1.51404	5.42125	5.82985
11:04:25				467	8.81059	0.7108915	3.0509	1.4652	5.56777	5.81686
11:04:26				468	8.8155	0.6978914	3.0509	1.4652	5.95849	5.70208
11:04:26				469	8.8263	0.6836069	3.0509	1.51404	6.44689	5.57536
11:04:27				470	8.83815	0.6831249	3.0509	1.51404	6.34921	5.5693
11:04:27				471	8.85091	0.6868158	3.0509	1.51404	6.25153	5.59955
11:04:28				472	8.86171	0.7075202	3.0509	1.51404	6.98413	5.77897
11:04:28				473	8.85778	0.6967675	3.0509	1.51404	6.73993	5.68548
11:04:29				474	8.85778	0.673496	3.0509	1.4652	6.83761	5.48218
11:04:29				475	8.86367	0.6797543	3.0509	1.51404	6.73993	5.53588
11:04:30				476	8.86662	0.6677197	3.0509	1.51404	8.84005	5.43047
11:04:30				477	8.86858	0.6770272	3.0509	1.4652	8.40049	5.51132
11:04:31				478	8.86662	0.636429	3.0509	1.51404	7.37485	5.15834
11:04:31				479	8.88925	0.6210268	3.0509	1.51404	6.98413	5.02162
11:04:32				480	8.91279	0.6292106	3.0509	1.51404	7.37485	5.08913
11:04:32				481	8.9226	0.6162141	3.0509	1.51404	7.32601	4.97532
11:04:33				482	8.92064	0.6158936	3.0509	1.4652	7.91209	4.97282
11:04:33				483	8.9177	0.6136476	3.0509	1.4652	7.86325	4.95383
11:04:34				484	8.92953	0.61445	3.0509	1.51404	7.66789	4.95911
11:04:35				487	8.99023	0.5549689	3.0509	1.51404	7.71673	4.43992
11:04:36				488	9.00205	0.561383	3.0509	1.4652	7.91209	4.4933
11:04:36				489	8.99225	0.5823953	3.0509	1.51404	7.76557	4.67463
11:04:37				490	8.98925	0.5790279	3.0509	1.51404	7.86325	4.64612
11:04:37				491	8.98141	0.5750175	3.0509	1.51404	8.49817	4.61273
11:04:38				492	8.97357	0.5803113	3.0509	1.51404	8.84005	4.65918
11:04:38				493	8.97063	0.582236	3.0509	1.51404	8.79121	4.67609
11:04:39				494	8.97455	0.5724518	3.0509	1.4652	8.15629	4.59161
11:04:39				495	8.96868	0.5698843	3.0509	1.51404	8.20513	4.57035
11:04:40				496	8.95789	0.5756595	2.9526	1.51404	7.81441	4.62129
11:04:40				497	8.95789	0.5714889	3.0509	1.4652	7.42369	4.58549
11:04:41				498	8.96574	0.5681196	3.0509	1.4652	8.30281	4.5556
11:04:41				499	8.97063	0.5612238	3.0509	1.51404	8.15629	4.49589

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:42				500	8.96574	0.5681196	3.0509	1.51404	8.20513	4.5556
11:04:42				501	8.96475	0.5660352	3.0509	1.51404	7.76557	4.53785
11:04:43				502	8.96083	0.5682812	3.0509	1.51404	7.57021	4.55761
11:04:43				503	8.95887	0.5812734	3.0509	1.51404	8.44933	4.66936
11:04:44				504	8.96083	0.5856037	3.0509	1.51404	7.42369	4.70632
11:04:44				505	8.96377	0.5827175	3.0509	1.4652	8.15629	4.68113
11:04:45				506	8.95887	0.5828769	3.0509	1.4652	7.71673	4.68314
11:04:45				507	8.95299	0.5806314	3.0509	1.51404	8.15629	4.66462
11:04:46				508	8.94607	0.6236255	3.0509	1.4652	7.81441	5.03608
11:04:46				509	8.94313	0.6148019	3.0509	1.51404	7.81441	4.96026
11:04:47				510	8.94411	0.6005228	3.0509	1.51404	7.52137	4.83695
11:04:47				511	8.94411	0.6051755	3.0509	1.51404	7.52137	4.87706
11:04:48				512	8.94907	0.6536314	3.1493	1.4652	7.91209	5.29554
11:04:48				513	8.94809	0.6472115	3.0509	1.51404	8.25397	5.24
11:04:49				514	8.94705	0.6234646	3.0509	1.51404	7.08181	5.03455
11:04:49				515	8.94607	0.6186516	3.0509	1.4652	6.93529	4.9931
11:04:50				516	8.95887	0.6379058	3.0509	1.51404	7.03297	5.1578
11:04:50				517	8.97553	0.6452866	3.0509	1.4652	6.98413	5.21929
11:04:51				518	8.98141	0.5920204	3.0509	1.4652	6.88645	4.75875
11:04:51				519	8.99323	0.5851232	3.0509	1.51404	6.93529	4.69792
11:04:52				520	9.00499	0.5952286	3.0509	1.51404	7.47253	4.78318
11:04:52				521	9.02849	0.6111105	3.0509	1.51404	7.81441	4.91663
11:04:53				522	9.04323	0.6321283	3.0509	1.4652	8.40049	5.09574
11:04:53				523	9.05987	0.5429393	3.0509	1.51404	8.69353	4.32872
11:04:54				524	9.10005	0.4682224	3.0509	1.51404	8.30281	3.69188
11:04:54				525	9.19497	0.4986822	3.0509	1.4652	8.79121	3.93815
11:04:55				526	9.27123	0.5261007	3.0509	1.4652	8.35165	4.16086
11:04:55				527	9.28684	0.5034926	3.0509	1.51404	8.44933	3.96854
11:04:56				528	9.31421	0.478321	3.0509	1.4652	8.30281	3.75437
11:04:56				529	9.35417	0.4736725	3.0509	1.51404	8.59585	3.71135
11:04:57				530	9.36982	0.5195269	3.0509	1.51404	8.59585	4.09413
11:04:57				531	9.3893	0.4696653	3.0509	1.51404	9.13309	3.67429
11:04:58				532	9.39514	0.4624508	3.0509	1.51404	9.62149	3.61356
11:04:58				533	9.39319	0.4440191	3.0509	1.51404	9.86569	3.46047
11:04:59				534	9.38053	0.4414537	3.0509	1.51404	9.47497	3.44039
11:04:59				535	9.36689	0.4435375	3.0509	1.4652	8.93773	3.459
11:05:00				536	9.35904	0.4589245	3.0509	1.51404	9.08425	3.5878
11:05:00				537	9.35709	0.4651764	3.0509	1.4652	8.54701	3.64012
11:05:01				538	9.37079	0.4640551	3.0509	1.4652	9.57265	3.62938
11:05:01	11:03:37 @ 6:00	2.5	180	539	9.37274	0.4515515	2.9526	1.51404	9.03541	3.52506
11:05:02				540	9.37274	0.4435375	3.0509	1.51404	9.03541	3.45844
11:05:02				541	9.38638	0.4225427	3.0509	1.51404	9.42613	3.28312
11:05:03				542	9.37664	0.4414538	3.0509	1.51404	8.84005	3.44076
11:05:03				543	9.36592	0.4491471	3.0509	1.51404	8.74237	3.50572
11:05:04				544	9.36592	0.4419348	3.0509	1.51404	8.79121	3.44578

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:04				545	9.37177	0.4372875	3.0509	1.51404	9.03541	3.40664
11:05:05				546	9.37566	0.4430577	3.0509	1.51404	9.71917	3.45417
11:05:05				547	9.34345	0.4669393	3.0509	1.51404	8.84005	3.65621
11:05:06				548	9.29854	0.4582834	3.0509	1.4652	8.98657	3.58849
11:05:06				549	9.28392	0.4560392	3.0509	1.51404	8.49817	3.57122
11:05:07				550	9.28684	0.465978	3.0509	1.51404	9.23077	3.65394
11:05:07				551	9.29757	0.4741529	3.0509	1.4652	8.79121	3.72121
11:05:08				552	9.29464	0.4889032	3.0509	1.4652	9.27961	3.84512
11:05:08				553	9.26434	0.4831313	3.0509	1.51404	8.98657	3.79992
11:05:09				554	9.24873	0.4719094	3.0509	1.51404	8.59585	3.70748
11:05:09				555	9.23604	0.4704675	3.0509	1.51404	8.88889	3.69671
11:05:10				556	9.24776	0.4722293	3.0509	1.51404	8.98657	3.71026
11:05:10				557	9.25947	0.4893845	3.0509	1.51404	8.30281	3.85293
11:05:11				558	9.26532	0.4905055	3.0509	1.51404	8.88889	3.86172
11:05:11				559	9.24873	0.4826502	3.0509	1.51404	8.59585	3.79754
11:05:12				560	9.25361	0.4730308	3.0509	1.51404	9.08425	3.71637
11:05:12				561	9.25263	0.4786421	3.0509	1.4652	9.18193	3.7635
11:05:13				562	9.23995	0.4757566	3.0509	1.51404	9.13309	3.74063
11:05:13				563	9.22531	0.4683834	3.0509	1.51404	8.88889	3.68035
11:05:14				564	9.22921	0.4667801	3.0509	1.4652	8.74237	3.66652
11:05:14				565	9.2419	0.4743147	3.0509	1.4652	8.79121	3.72834
11:05:15				566	9.25068	0.4727108	3.0509	1.51404	9.13309	3.71399
11:05:15				567	9.22531	0.4656578	3.0509	1.4652	9.23077	3.65752
11:05:16				568	9.21548	0.4597267	3.0509	1.4652	8.59585	3.60887
11:05:16				569	9.22628	0.4589247	3.0509	1.51404	9.23077	3.60108
11:05:17				570	9.23897	0.4616495	3.0509	1.51404	8.74237	3.62259
11:05:17				571	9.23312	0.4565212	3.0509	1.51404	8.84005	3.5803
11:05:18				572	9.23507	0.4529941	3.1493	1.51404	9.23077	3.55063
11:05:18				573	9.23995	0.4544377	3.0509	1.51404	8.59585	3.56221
11:05:19				574	9.2419	0.456201	3.0509	1.51404	9.23077	3.57675
11:05:19				575	9.2458	0.4557192	3.0509	1.51404	9.37729	3.57233
11:05:20				576	9.24971	0.4507504	3.0509	1.51404	8.79121	3.53046
11:05:20				577	9.24873	0.4473847	3.0509	1.51404	9.18193	3.50247
11:05:21				578	9.24971	0.4462622	3.0509	1.51404	8.49817	3.49301
11:05:21				579	9.26142	0.4425765	3.0509	1.51404	8.35165	3.46115
11:05:22				580	9.27611	0.4350439	3.0509	1.4652	8.44933	3.39705
11:05:22				581	9.29269	0.440332	3.0509	1.51404	8.64469	3.43946
11:05:23				582	9.30537	0.448186	3.0509	1.51404	8.49817	3.50363
11:05:23				583	9.30537	0.4537964	2.9526	1.4652	8.79121	3.55039
11:05:24				584	9.30342	0.455559	2.9526	1.4652	8.59585	3.56528
11:05:24				585	9.29172	0.4722292	3.0509	1.51404	8.88889	3.70572
11:05:25				586	9.29172	0.4339215	2.9526	1.4652	8.49817	3.38625
11:05:25				587	9.28294	0.4137297	2.9526	1.51404	8.20513	3.21953
11:05:26				588	9.31122	0.5387693	3.0509	1.51404	8.40049	4.26322
11:05:26				589	9.37079	0.5002862	3.0509	1.51404	8.84005	3.93238

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:27				590	9.36105	0.7218413	3.0509	1.51404	8.40049	5.82266
11:05:27				591	9.26434	0.7340423	2.9526	1.51404	8.20513	5.94431
11:05:28				592	9.14802	0.7504173	3.0509	1.51404	8.35165	6.10651
11:05:28				593	9.0324	0.7340429	3.0509	1.51404	7.37485	5.98296
11:05:29				594	8.97651	0.698889	3.0509	1.51404	7.13065	5.68507
11:05:29				595	8.94509	0.7769101	3.0509	1.51404	6.98413	6.37436
11:05:30				596	8.91862	0.7908795	3.0509	1.51404	6.64225	6.50236
11:05:30				597	8.90685	0.791362	3.0509	1.51404	6.10501	6.50877
11:05:31				598	8.91469	0.8469294	3.0509	1.51404	6.15385	6.99962
11:05:31				599	8.93038	0.8458058	3.0509	1.51404	6.64225	6.98656
11:05:32				600	8.97161	0.8554427	3.0509	1.51404	6.00733	7.06401
11:05:32				601	9.00597	0.8658833	3.0509	1.51404	5.47009	7.14988
11:05:33				602	9.04617	0.9020306	3.0509	1.4652	5.56777	7.46309
11:05:33				603	9.09613	0.9119903	3.0509	1.51404	5.81197	7.54125
11:05:34				604	9.17348	0.9164891	3.0509	1.51404	5.17705	7.56492
11:05:35				607	9.66276	1.0679759	3.3461	1.51404	5.37241	8.7999
11:05:36				608	9.653	1.121032	3.3461	34.28571	5.03053	9.27514
11:05:36	11:04:12 end transect	2.5	270	609	9.63651	1.1203899	3.5428	27.83883	5.17705	9.27362
11:05:37				610	9.47409	1.1110642	3.6412	19.09646	5.66545	9.23185
11:05:37				611	9.39812	1.1250551	3.7396	4.3956	5.22589	9.37721
11:05:38				612	9.22433	1.1392062	3.838	2.34432	5.47009	9.5508
11:05:38				613	9.0354	1.1409744	4.0348	1.51404	5.56777	9.61748
11:05:39				614	8.9756	1.1523932	4.2315	1.4652	5.61661	9.73776
11:05:39				615	9.00994	1.1631677	4.3299	1.4652	5.37241	9.82666
11:05:40				616	9.1402	1.2225187	4.5267	1.51404	5.66545	10.33186
11:05:40				617	9.18716	1.2361931	4.6251	1.51404	5.51893	10.44313
11:05:41				618	9.13629	1.3248478	4.8218	1.51404	5.47009	11.27177
11:05:41				619	9.08537	1.4124039	4.9202	8.88889	5.42125	12.09801
11:05:42				620	8.94221	1.3597715	5.0186	1.66056	5.42125	11.65703
11:05:42				621	8.87349	1.4426688	5.0186	1.66056	5.42125	12.45302
11:05:43				622	8.83711	1.4473391	5.117	1.51404	4.6398	12.5095
11:05:43				623	8.83023	1.4611846	5.3137	1.51404	4.1514	12.64171
11:05:44				624	8.81943	1.4700398	5.3137	1.51404	3.9072	12.72868
11:05:44				625	8.80758	1.474546	5.4121	1.56288	3.71184	12.77524
11:05:45				626	8.80365	1.4769615	5.4121	1.51404	3.80952	12.79935
11:05:45				627	8.80758	1.4880728	5.5105	1.51404	3.85836	12.90238
11:05:46				628	8.79481	1.4607008	5.5105	1.51404	3.71184	12.64973
11:05:46				629	8.79678	1.4503981	5.5105	1.56288	3.663	12.55232
11:05:47				630	8.80955	1.452491	5.6089	1.4652	3.36996	12.56743
11:05:47				631	8.82532	1.4573188	5.5105	1.51404	3.61416	12.60715
11:05:48				632	8.83809	1.4423464	5.5105	1.51404	3.56532	12.4623
11:05:48				633	8.85576	1.4481421	5.6089	1.51404	3.51648	12.51037
11:05:49				634	8.86067	1.4547444	5.6089	1.51404	3.4188	12.57049
11:05:49				635	8.86367	1.4590914	5.6089	1.56288	3.4188	12.61016
11:05:50				636	8.8587	1.4254433	5.5105	1.51404	3.1746	12.29694

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:05:50				637	8.8676	1.4383223	5.5105	1.51404	3.46764	12.41431
11:05:51				638	8.86858	1.4658517	5.5105	1.51404	3.51648	12.6718
11:05:51				639	8.83809	1.4655296	5.6089	1.4652	4.00488	12.67962
11:05:52				640	8.82139	1.464403	5.6089	1.51404	4.10256	12.675
11:05:52				641	8.81151	1.4676241	5.5105	1.51404	3.663	12.70879
11:05:53				642	8.81544	1.4908095	5.5105	1.51404	3.9072	12.92527
11:05:53				643	8.80758	1.4840471	5.6089	1.56288	3.9072	12.86451
11:05:54				644	8.79481	1.4821138	5.6089	1.51404	4.00488	12.85095
11:05:54				645	8.78695	1.4763175	5.6089	1.4652	3.9072	12.79928
11:05:55				646	8.78793	1.47004	5.6089	1.51404	3.56532	12.73991
11:05:55				647	8.79678	1.4679466	5.5105	1.51404	3.663	12.71709
11:05:56				648	8.79088	1.4698775	5.6089	1.51404	3.85836	12.73732
11:05:56	11:04:32 start transect	2.5	270	649	8.78498	1.4661745	5.6089	1.51404	3.71184	12.70464
11:05:57				650	8.78891	1.4584459	5.5105	1.56288	3.56532	12.63065
11:05:57				651	8.79776	1.4576429	5.6089	1.4652	3.76068	12.61995
11:05:58				652	8.8007	1.4610226	5.5105	1.51404	3.36996	12.65066
11:05:58				653	8.79186	1.4590917	5.6089	1.51404	3.71184	12.63565
11:05:59				654	8.7899	1.4568378	5.6089	1.4652	3.9072	12.61519
11:05:59				655	8.79186	1.4494306	5.5105	1.51404	3.4188	12.54498
11:06:00				656	8.80758	1.4631168	5.6089	1.51404	3.46764	12.66785
11:06:00				657	8.80856	1.4684292	5.5105	1.4652	3.4188	12.71741
11:06:01				658	8.79186	1.4644031	5.5105	1.51404	3.56532	12.68556
11:06:01				659	8.78105	1.4650476	5.6089	1.51404	3.9072	12.69545
11:06:02				660	8.78302	1.4639211	5.5105	1.4652	3.61416	12.68418
11:06:02				661	8.78302	1.4658521	5.5105	1.51404	3.56532	12.70233
11:06:03				662	8.77909	1.4737421	5.8056	1.51404	3.4188	12.77785
11:06:03				663	8.77712	1.4787342	5.5105	1.4652	3.61416	12.82557
11:06:04				664	8.77221	1.4864617	5.5105	1.51404	3.76068	12.90006
11:06:04				665	8.7633	1.4922594	5.5105	1.51404	3.51648	12.9579
11:06:05				666	8.7574	1.4938684	5.5105	1.4652	3.4188	12.97521
11:06:05				667	8.74659	1.4998269	5.6089	1.51404	3.56532	13.03531
11:06:06				668	8.74462	1.5033679	5.5105	1.56288	3.56532	13.06945
11:06:06				669	8.74462	1.5135125	5.5105	1.51404	3.51648	13.16516
11:06:07				670	8.74757	1.5177004	5.5105	1.56288	3.51648	13.2036
11:06:07				671	8.7456	1.494352	5.6089	1.51404	3.61416	12.98406
11:06:08				672	8.74659	1.5328378	5.6089	1.51404	3.27228	13.34692
11:06:08				673	8.74167	1.53155	5.5105	1.51404	3.61416	13.33662
11:06:09				674	8.7279	1.5226928	5.6089	1.51404	3.663	13.25806
11:06:09				675	8.71702	1.5165727	5.5105	1.51404	3.46764	13.20431
11:06:10				676	8.71407	1.5233377	5.5105	1.56288	3.61416	13.26934
11:06:10				677	8.70325	1.5511959	5.7073	1.51404	3.61416	13.53701
11:06:11				678	8.67465	1.5521631	5.6089	1.51404	3.46764	13.55711
11:06:11				679	8.65595	1.5492652	5.6089	1.51404	3.71184	13.53677
11:06:12				680	8.63127	1.5263963	5.5105	1.51404	3.71184	13.32933
11:06:12				681	8.61649	1.5175389	5.5105	1.51404	3.76068	13.25094

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:13				682	8.61255	1.5093274	5.6089	1.56288	3.61416	13.17461
11:06:13				683	8.62437	1.5102937	5.6089	1.51404	3.51648	13.17936
11:06:14				684	8.63822	1.5109387	5.5105	1.51404	3.4188	13.18034
11:06:14				685	8.65496	1.5106148	5.5105	1.51404	3.46764	13.17105
11:06:15				686	8.66087	1.5125483	5.5105	1.51404	3.61416	13.18715
11:06:15				687	8.66087	1.5143182	5.5105	1.51404	3.1746	13.20389
11:06:16				688	8.66481	1.5241429	5.6089	1.51404	3.1746	13.29538
11:06:16				689	8.67071	1.5205995	5.6089	1.51404	3.22344	13.25963
11:06:17				690	8.67268	1.5199551	5.6089	1.51404	2.97924	13.2528
11:06:17				691	8.6776	1.5244629	5.5105	1.51404	3.32112	13.29363
11:06:18				692	8.68259	1.551196	5.6089	1.51404	3.46764	13.54491
11:06:18				693	8.6717	1.5518408	5.6089	1.51404	3.27228	13.55518
11:06:19				694	8.66678	1.5284905	5.6089	1.51404	3.27228	13.3358
11:06:19				695	8.6717	1.553773	5.5105	1.51404	3.61416	13.57353
11:06:20				696	8.6776	1.577448	5.6089	1.4652	3.61416	13.7959
11:06:20				697	8.65693	1.585985	5.6089	1.51404	3.32112	13.88509
11:06:21				698	8.62043	1.5816369	5.5105	1.51404	3.32112	13.85804
11:06:21				699	8.60565	1.6046684	5.6089	1.51404	3.22344	14.08319
11:06:22				700	8.60171	1.603864	5.6089	1.4652	3.1746	14.07709
11:06:22				701	8.58391	1.6217438	5.5105	1.4652	3.32112	14.25483
11:06:23				702	8.56617	1.5948444	5.6089	1.4652	3.71184	14.00517
11:06:23				703	8.55729	1.5933954	5.6089	1.4652	3.56532	13.99486
11:06:24				704	8.578	1.6251258	5.6089	1.4652	3.32112	14.28949
11:06:24				705	8.58884	1.6301193	5.5105	1.51404	3.56532	14.33284
11:06:25				706	8.59481	1.6231931	5.5105	1.4652	3.56532	14.26428
11:06:25				707	8.60861	1.5814745	5.5105	1.4652	3.76068	13.86112
11:06:26				708	8.65299	1.5846968	5.6089	1.4652	3.61416	13.87438
11:06:26				709	8.68751	1.6140127	5.6089	1.51404	3.71184	14.13962
11:06:27				710	8.70423	1.6231926	5.6089	1.4652	3.46764	14.2203
11:06:27				711	8.71112	1.6004821	5.6089	1.51404	3.4188	14.00159
11:06:28				712	8.7062	1.608858	5.6089	1.51404	3.56532	14.08315
11:06:28				713	8.67957	1.6262549	5.5105	1.4652	3.4188	14.25938
11:06:29				714	8.60565	1.6207768	5.5105	1.51404	3.51648	14.23685
11:06:29				715	8.54244	1.5919444	5.5105	1.51404	3.56532	13.98691
11:06:30				716	8.54146	1.5549027	5.6089	1.4652	3.61416	13.63425
11:06:30				717	8.56518	1.5933953	5.5105	1.51404	3.46764	13.99176
11:06:31				718	8.59876	1.6138518	5.5105	1.51404	3.61416	14.17354
11:06:31				719	8.53652	1.6162668	5.6089	1.51404	3.46764	14.22154
11:06:32				720	8.49798	1.6006439	5.6089	1.51404	3.36996	14.08761
11:06:32				721	8.49601	1.6146563	5.5105	1.51404	3.32112	14.22244
11:06:33				722	8.52173	1.6206157	5.5105	1.51404	3.4188	14.2691
11:06:33				723	8.50594	1.6233552	5.5105	1.51404	3.61416	14.30169
11:06:34				724	8.4664	1.6281875	5.5105	1.51404	3.61416	14.364
11:06:35				727	8.53067	1.6345833	5.5105	1.51404	3.56532	14.39913
11:06:36				728	8.51679	1.6344238	5.6089	1.51404	3.56532	14.40323

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:36				729	8.50397	1.6265296	5.6089	1.51404	3.4188	14.33285
11:06:37				730	8.50594	1.6078408	5.5105	1.51404	3.71184	14.15327
11:06:37				731	8.52869	1.6245962	5.6089	1.51404	3.4188	14.30434
11:06:38				732	8.52278	1.6129964	5.5105	1.51404	3.61416	14.19582
11:06:38				733	8.47035	1.6154133	5.6089	1.51404	3.22344	14.24
11:06:39				734	8.43776	1.5960823	5.5105	1.51404	3.46764	14.06798
11:06:39				735	8.45751	1.5941512	5.6089	1.51404	3.36996	14.04163
11:06:40				736	8.45751	1.6105817	5.5105	1.4652	3.56532	14.19891
11:06:40				737	8.45455	1.6057485	5.5105	1.51404	3.22344	14.15382
11:06:41				738	8.44368	1.5886722	5.5105	1.51404	3.4188	13.99472
11:06:41				739	8.43671	1.5957612	5.6089	1.4652	3.61416	14.06531
11:06:42				740	8.43776	1.5999494	5.6089	1.51404	3.56532	14.10499
11:06:42				741	8.43473	1.601077	5.6089	1.51404	3.32112	14.11699
11:06:43				742	8.42683	1.5870629	5.5105	1.4652	3.32112	13.98599
11:06:43				743	8.41794	1.5840011	5.6089	1.4652	4.1514	13.96019
11:06:44				744	8.43078	1.5947933	5.5105	1.51404	3.61416	14.05842
11:06:44				745	8.45158	1.6062313	5.6089	1.4652	3.663	14.15961
11:06:45				746	8.44862	1.5967269	5.6089	1.4652	3.56532	14.06981
11:06:45				747	8.4506	1.5865798	5.5105	1.51404	3.80952	13.97197
11:06:46				748	8.45652	1.5991435	5.6089	1.4652	3.95604	14.08979
11:06:46				749	8.48522	1.6051046	5.5105	1.51404	3.76068	14.13539
11:06:47				750	8.47528	1.6088096	5.5105	1.51404	4.10256	14.17481
11:06:47				751	8.44961	1.6105818	5.6089	1.4652	4.00488	14.20207
11:06:48				752	8.43572	1.6071972	5.6089	1.56288	4.29792	14.17522
11:06:48				753	8.45158	1.5696667	5.5105	1.51404	3.95604	13.80992
11:06:49				754	8.51383	1.5503399	5.5105	1.51404	3.76068	13.60145
11:06:49				755	8.60171	1.605104	5.5105	1.51404	3.95604	14.08893
11:06:50				756	8.51383	1.6212122	5.6089	1.51404	3.76068	14.27797
11:06:50				757	8.46343	1.6018831	5.6089	1.51404	3.56532	14.11324
11:06:51				758	8.47232	1.5925395	5.6089	1.56288	3.56532	14.02033
11:06:51				759	8.50495	1.5848083	5.6089	1.51404	3.51648	13.93357
11:06:52				760	8.51186	1.5802965	5.6089	1.51404	3.36996	13.88778
11:06:52				761	8.52573	1.5591971	5.6089	1.51404	3.46764	13.68121
11:06:53				762	8.54941	1.5513041	5.6089	1.51404	3.4188	13.59694
11:06:53				763	8.57905	1.5612894	5.6089	1.51404	3.27228	13.68052
11:06:54				764	8.58792	1.5548487	5.6089	1.51404	3.36996	13.61585
11:06:54				765	8.58594	1.5532384	5.6089	1.51404	3.56532	13.6013
11:06:55				766	8.60467	1.5487285	5.6089	1.51404	3.32112	13.55128
11:06:55				767	8.61852	1.5382593	5.6089	1.51404	3.27228	13.44661
11:06:56				768	8.6136	1.5211885	5.6089	1.4652	3.36996	13.28659
11:06:56				769	8.64216	1.5211883	5.6089	1.4652	3.46764	13.27589
11:06:57				770	8.67963	1.5248921	5.6089	1.4652	3.4188	13.29691
11:06:57				771	8.67471	1.5160333	5.6089	1.4652	3.61416	13.21494
11:06:58				772	8.67668	1.5028305	5.6089	1.4652	3.36996	13.08939
11:06:58				773	8.69839	1.4979989	5.6089	1.51404	3.56532	13.03576

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:06:59				774	8.722	1.4889813	5.6089	1.4652	3.46764	12.94205
11:06:59				775	8.7437	1.4836659	5.6089	1.51404	3.4188	12.88407
11:07:00				776	8.7555	1.4820565	5.6089	1.51404	3.46764	12.86463
11:07:00				777	8.76238	1.475293	5.6089	1.4652	3.46764	12.79849
11:07:01				778	8.76336	1.4740054	5.6089	1.51404	3.36996	12.78602
11:07:01	11:05:37 end transect	2.5	90	779	8.76238	1.4770647	5.6089	1.51404	3.61416	12.81516
11:07:02				780	8.76533	1.4928462	5.7073	1.51404	3.61416	12.96265
11:07:02				781	8.75943	1.6700279	5.8056	1.51404	3.56532	14.64393
11:07:03				782	8.60171	1.707086	6.0024	1.51404	3.80952	15.06435
11:07:03				783	8.54645	1.8439214	6.1992	1.51404	3.61416	16.4086
11:07:04				784	8.3496	1.8131327	6.4943	1.51404	3.46764	16.20038
11:07:04				785	8.29314	1.8671371	6.5927	1.51404	2.83272	16.75339
11:07:05				786	8.24554	1.908088	6.7895	1.51404	2.97924	17.17732
11:07:05				787	8.13729	1.965813	6.9862	1.51404	2.88156	17.79931
11:07:06				788	7.9582	2.034034	7.0846	1.51404	3.12576	18.56881
11:07:06				789	7.86941	2.095166	7.2814	1.51404	2.97924	19.22764
11:07:07				790	7.69459	2.1348518	7.3798	1.51404	3.12576	19.72428
11:07:07				791	7.55336	2.098396	7.5765	1.4652	3.02808	19.43512
11:07:08				792	7.52526	2.0704881	7.6749	1.51404	2.9304	19.16843
11:07:08				793	7.58244	2.0661327	7.6749	1.51404	2.83272	19.09302
11:07:09				794	7.70858	2.0398398	7.6749	1.4652	2.78388	18.75992
11:07:09				795	7.78954	2.0575837	7.6749	1.4652	2.78388	18.89429
11:07:10				796	7.79652	2.0669388	7.6749	1.51404	2.73504	18.98431
11:07:10				797	7.79752	2.0453248	7.6749	1.4652	3.1746	18.76714
11:07:11				798	7.8035	2.0461316	7.6749	1.51404	2.88156	18.77201
11:07:11				799	7.78755	2.0408091	7.5765	1.51404	2.9304	18.72728
11:07:12				800	7.73759	2.0464548	7.6749	1.4652	3.1746	18.8107
11:07:12				801	7.69559	2.0700032	7.6749	1.51404	3.61416	19.07008
11:07:13				802	7.68754	2.0424221	7.6749	1.51404	2.88156	18.79717
11:07:13				803	7.72455	2.0446799	7.5765	1.4652	2.78388	18.79994
11:07:14				804	7.69559	2.0669395	7.6749	1.51404	3.02808	19.03926
11:07:14				805	7.65856	2.0637132	7.6749	1.51404	3.12576	19.027
11:07:15				806	7.64051	2.0470983	7.6749	1.51404	3.02808	18.86958
11:07:15				807	7.6535	2.0664563	7.5765	1.51404	3.02808	19.05741
11:07:16				808	7.66556	2.0758118	7.5765	1.51404	2.83272	19.14503
11:07:16				809	7.64851	2.0777469	7.6749	1.51404	2.78388	19.17386
11:07:17				810	7.62651	2.0783912	7.6749	1.51404	2.6862	19.19246
11:07:17				811	7.61445	2.0756498	7.5765	1.51404	2.63736	19.17148
11:07:18				812	7.61345	2.0732289	7.5765	1.51404	2.73504	19.14761
11:07:18				813	7.61645	2.0743594	7.5765	1.51404	3.22344	19.15737
11:07:19				814	7.62351	2.0808119	7.5765	1.4652	2.88156	19.21856
11:07:19	11:05:55 start transect	2.5	90	815	7.61245	2.0809718	7.5765	1.4652	3.07692	19.22627
11:07:20				816	7.60245	2.0790384	7.6749	1.51404	3.02808	19.21225
11:07:20				817	7.60145	2.0767782	7.6749	1.4652	2.83272	19.18999
11:07:21				818	7.58744	2.0666161	7.6749	1.51404	2.9304	19.09515

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:21				819	7.59145	2.0609721	7.5765	1.51404	3.27228	19.03606
11:07:22				820	7.61145	2.0477441	7.6749	1.4652	4.05372	18.89183
11:07:22				821	7.63951	2.0467782	7.5765	1.51404	3.07692	18.86693
11:07:23				822	7.64451	2.0516171	7.6749	1.4652	2.9304	18.91289
11:07:23				823	7.64951	2.0458098	7.5765	1.4652	3.9072	18.85178
11:07:24				824	7.63751	2.0353242	7.6749	1.51404	3.02808	18.75276
11:07:24				825	7.64351	1.9906512	7.5765	1.51404	3.12576	18.30092
11:07:25				826	7.71257	1.9777491	7.5765	1.51404	3.12576	18.13562
11:07:25				827	7.7666	1.9543657	7.5765	1.51404	3.1746	17.87421
11:07:26				828	7.81254	1.9364679	7.5765	1.51404	3.1746	17.67254
11:07:26				829	7.85546	1.9290508	7.5765	1.51404	2.97924	17.57717
11:07:27				830	7.87738	1.9195386	7.5765	1.51404	2.9304	17.47176
11:07:27				831	7.90035	1.9045425	7.5765	1.51404	2.97924	17.31167
11:07:28				832	7.94023	1.8869684	7.5765	1.51404	2.88156	17.11815
11:07:28				833	8.03383	1.8884198	7.5765	1.51404	2.88156	17.08682
11:07:29				834	8.08065	1.8847098	7.5765	1.4652	2.6862	17.02753
11:07:29				835	8.09157	1.8851935	7.5765	1.51404	2.88156	17.02699
11:07:30				836	8.10349	1.8869674	7.5765	1.51404	2.83272	17.03867
11:07:30				837	8.11645	1.8848709	7.5765	1.4652	2.63736	17.01177
11:07:31				838	8.12142	1.8863221	7.5765	1.51404	2.83272	17.02364
11:07:31				839	8.12241	1.885032	7.5765	1.51404	2.6862	17.01047
11:07:32				840	8.12638	1.8864834	7.5765	1.4652	2.6862	17.02282
11:07:32				841	8.12142	1.8997044	7.5765	1.51404	2.78388	17.15529
11:07:33				842	8.1234	1.9203414	7.6749	1.51404	3.02808	17.35752
11:07:33				843	8.11242	1.9066361	7.6749	1.4652	2.6862	17.22791
11:07:34				844	8.11844	1.9080889	7.5765	1.51404	2.73504	17.2393
11:07:35				847	8.12836	1.9076612	7.6749	1.51404	3.76068	17.23019
11:07:36				848	8.12142	1.9147565	7.5765	1.51404	3.32112	17.3035
11:07:36				849	8.10752	1.9216895	7.6749	1.51404	3.32112	17.37866
11:07:37				850	8.05681	1.9278168	7.4781	1.56288	3.12576	17.46432
11:07:37				851	8.00004	1.9386216	7.6749	1.51404	3.12576	17.59947
11:07:38				852	7.97611	1.9570054	7.6749	1.51404	2.97924	17.79367
11:07:38				853	7.9582	1.9763563	7.5765	1.56288	2.97924	17.99488
11:07:39				854	7.91435	1.9768392	7.5765	1.51404	2.83272	18.02221
11:07:39				855	7.89039	1.9931297	7.5765	1.51404	2.88156	18.19674
11:07:40				856	7.88442	2.0171588	7.6749	1.51404	2.83272	18.43937
11:07:40				857	7.8894	2.0395791	7.6749	1.4652	3.1746	18.66052
11:07:41				858	7.86044	2.0657079	7.5765	1.51404	3.07692	18.93735
11:07:41				859	7.75762	2.027805	7.6749	1.51404	2.73504	18.61298
11:07:42				860	7.81354	2.016515	7.5765	1.4652	2.73504	18.47036
11:07:42				861	7.80556	1.9928056	7.5765	1.4652	2.83272	18.23768
11:07:43				862	7.81952	2.022483	7.4781	1.51404	2.88156	18.52688
11:07:43				863	7.7916	2.0349029	7.4781	1.4652	3.12576	18.666
11:07:44				864	7.74658	2.0313542	7.4781	1.4652	3.12576	18.65449
11:07:44				865	7.70658	2.0189358	7.5765	1.4652	3.12576	18.55127

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:07:45				866	7.70458	2.02087	7.4781	1.4652	3.12576	18.57176
11:07:45				867	7.72162	2.0337737	7.4781	1.51404	2.9304	18.6921
11:07:46				868	7.71057	2.0332882	7.5765	1.4652	3.1746	18.69311
11:07:46				869	7.69359	2.0379663	7.5765	1.4652	2.97924	18.74918
11:07:47				870	7.67355	2.0363529	7.5765	1.51404	2.97924	18.74375
11:07:47				871	7.66656	2.0479681	7.4781	1.51404	3.1746	18.8643
11:07:48				872	7.66556	2.038611	7.4781	1.51404	3.22344	18.77077
11:07:48				873	7.66056	2.0439339	7.4781	1.51404	2.83272	18.82697
11:07:49				874	7.63951	2.0353869	7.4781	1.51404	3.02808	18.75237
11:07:49				875	7.62851	2.0436115	7.4781	1.51404	2.97924	18.84104
11:07:50				876	7.61551	2.0673246	7.4781	1.51404	3.12576	19.08698
11:07:50				877	7.59545	2.0740982	7.5765	1.51404	3.32112	19.16628
11:07:51				878	7.58644	2.0740982	7.4781	1.51404	3.46764	19.17127
11:07:51				879	7.58044	2.0773261	7.4781	1.51404	2.78388	19.20716
11:07:52				880	7.58444	2.0805505	7.4781	1.51404	2.83272	19.23751
11:07:52				881	7.56737	2.0824874	7.4781	1.51404	2.78388	19.26651
11:07:53				882	7.54535	2.0855527	7.4781	1.51404	2.97924	19.3097
11:07:53				883	7.53027	2.087166	7.5765	1.4652	2.9304	19.33436
11:07:54				884	7.51725	2.0881343	7.4781	1.51404	2.9304	19.35143
11:07:54				885	7.50824	2.0894256	7.4781	1.51404	2.73504	19.36952
11:07:55				886	7.50323	2.093619	7.4781	1.4652	2.6862	19.41477
11:07:55				887	7.49715	2.0923267	7.4781	1.51404	2.73504	19.40507
11:07:56				888	7.48914	2.0895858	7.4781	1.51404	2.78388	19.38178
11:07:56				889	7.48513	2.0849079	7.4781	1.4652	2.78388	19.33662
11:07:57				890	7.48613	2.0844227	7.5765	1.51404	2.78388	19.33112
11:07:57				891	7.48713	2.087649	7.5765	1.51404	3.32112	19.36324
11:07:58				892	7.49114	2.087649	7.4781	1.4652	2.9304	19.36104
11:07:58				893	7.49214	2.0920064	7.4781	1.51404	2.6862	19.40462
11:07:59				894	7.48513	2.0918436	7.4781	1.51404	2.63736	19.40689
11:07:59				895	7.48112	2.0963623	7.4781	1.4652	3.4188	19.45492
11:08:00				896	7.48112	2.0973295	7.4781	1.51404	2.97924	19.46473
11:08:00				897	7.47611	2.1013608	7.4781	1.51404	2.73504	19.50841
11:08:01				898	7.4711	2.1015241	7.5765	1.4652	3.07692	19.51285
11:08:01				899	7.47411	2.1012004	7.4781	1.51404	2.97924	19.50791
11:08:02				900	7.4721	2.104266	7.4781	1.51404	2.97924	19.54013
11:08:02				901	7.4701	2.1037817	7.4781	1.51404	2.88156	19.53634
11:08:03				902	7.4711	2.106201	7.4781	1.51404	2.73504	19.56032
11:08:03				903	7.4711	2.104911	7.5765	1.51404	2.97924	19.54721
11:08:04				904	7.46809	2.1053954	7.4781	1.51404	3.27228	19.55384
11:08:04	11:06:40 @ 6:00	2.5	180	905	7.46302	2.1066856	7.5765	1.51404	3.02808	19.56976
11:08:05				906	7.45901	2.1066856	7.4781	1.56288	2.97924	19.57205
11:08:05				907	7.456	2.1052349	7.4781	1.51404	2.78388	19.55902
11:08:06				908	7.453	2.1074915	7.4781	1.51404	2.78388	19.58362
11:08:06				909	7.455	2.1084609	7.5765	1.51404	2.78388	19.5923
11:08:07				910	7.45701	2.1074915	7.4781	1.51404	3.07692	19.58136

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:07				911	7.45701	2.110719	7.4781	1.51404	2.83272	19.61412
11:08:08				912	7.46409	2.1132996	7.4781	1.51404	2.73504	19.63632
11:08:08				913	7.45901	2.1137849	7.5765	1.4652	2.49084	19.64408
11:08:09				914	7.45199	2.1124929	7.4781	1.51404	2.83272	19.63496
11:08:09				915	7.44498	2.1144283	7.4781	1.51404	3.36996	19.65858
11:08:10				916	7.44397	2.1115255	7.4781	1.51404	3.1746	19.62967
11:08:10				917	7.44297	2.1099127	7.4781	1.51404	2.9304	19.61385
11:08:11				918	7.44397	2.110719	7.4781	1.4652	2.83272	19.62148
11:08:11				919	7.44698	2.111204	7.4781	1.4652	2.63736	19.6247
11:08:12				920	7.44798	2.1094278	7.5765	1.51404	2.6862	19.60607
11:08:12				921	7.44498	2.1100734	7.4781	1.4652	2.78388	19.61435
11:08:13				922	7.44498	2.110719	7.4781	1.51404	2.88156	19.62091
11:08:13				923	7.44498	2.1126538	7.5765	1.51404	2.9304	19.64053
11:08:14				924	7.44197	2.1107191	7.5765	1.4652	3.02808	19.62258
11:08:14				925	7.43695	2.1126538	7.4781	1.4652	2.78388	19.64509
11:08:15				926	7.43695	2.1134606	7.5765	1.51404	2.6862	19.65326
11:08:15				927	7.43796	2.1116863	7.4781	1.4652	3.07692	19.6347
11:08:16				928	7.43996	2.107655	7.4781	1.51404	2.9304	19.59262
11:08:16				929	7.44598	2.1136241	7.4781	1.51404	3.02808	19.64985
11:08:17				930	7.44798	2.1129781	7.4781	1.4652	3.02808	19.64215
11:08:17				931	7.44498	2.1162036	7.4781	1.51404	2.73504	19.67662
11:08:18				932	7.44598	2.111556	7.4781	1.51404	2.73504	19.66951
11:08:18				933	7.44197	2.1202362	7.5765	1.51404	2.88156	19.71926
11:08:19				934	7.43896	2.1216886	7.4781	1.51404	3.07692	19.73576
11:08:19				935	7.43495	2.1202363	7.4781	1.51404	2.9304	19.72328
11:08:20				936	7.43194	2.1218497	7.4781	1.51404	3.51648	19.74139
11:08:20				937	7.42893	2.1220108	7.4781	1.51404	2.88156	19.74473
11:08:21				938	7.42185	2.123786	7.4781	1.51404	3.12576	19.76681
11:08:21				939	7.41784	2.1484719	7.4781	1.51404	2.6862	20.02034
11:08:22				940	7.41683	2.1468584	7.4781	1.51404	2.78388	20.00449
11:08:22				941	7.4048	2.1534723	7.4781	1.51404	3.32112	20.07882
11:08:23				942	7.39476	2.1597647	7.4781	1.51404	2.9304	20.14877
11:08:23				943	7.38166	2.2612649	7.4781	1.51404	2.73504	21.19469
11:08:24				944	7.3676	2.2593278	7.4781	1.51404	2.6862	21.1834
11:08:24				945	7.36961	2.3004817	7.4781	1.51404	2.78388	21.60487
11:08:25				946	7.32129	2.2937025	7.4781	1.51404	2.88156	21.5652
11:08:25				947	7.20649	2.3576241	7.4781	1.51404	2.83272	22.29804
11:08:26				948	7.14697	2.3442261	7.4781	1.51404	2.9304	22.19742
11:08:26				949	7.09553	2.30581	7.4781	1.51404	2.73504	21.83182
11:08:27				950	7.04707	2.4031466	7.4781	1.4652	2.63736	22.8756
11:08:27				951	6.97523	2.4036334	7.5765	1.51404	2.58852	22.92835
11:08:28				952	6.91354	2.4251047	7.5765	1.51404	2.9304	23.19449
11:08:28				953	6.86994	2.4242994	7.5765	1.4652	2.9304	23.21544
11:08:29				954	6.84459	2.4184873	7.4781	1.51404	2.58852	23.17152
11:08:29				955	6.79088	2.401696	7.4781	1.51404	2.73504	23.03116

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:30				956	6.78076	2.4033127	7.4781	1.4652	2.58852	23.05495
11:08:30				957	6.76246	2.4372157	7.4781	1.51404	2.39316	23.42426
11:08:31				958	6.74517	2.4712819	7.4781	1.51404	2.442	23.79562
11:08:31				959	6.7066	2.4598184	7.4781	1.4652	2.34432	23.70118
11:08:32				960	6.63952	2.475482	7.3798	1.56288	2.58852	23.91357
11:08:32				961	6.60393	2.4452879	7.4781	1.51404	2.29548	23.61828
11:08:33				962	6.57339	2.4058953	7.4781	1.4652	2.34432	23.22209
11:08:33				963	6.57949	2.3929816	7.4781	1.51404	2.49084	23.08138
11:08:34				964	6.62328	2.3857151	7.4781	1.51404	2.34432	22.97518
11:08:35				967	6.6536	2.4377293	7.4781	1.4652	2.29548	23.50412
11:08:36				968	6.62823	2.4386992	7.4781	1.4652	2.34432	23.53179
11:08:36				969	6.61802	2.4252982	7.4781	1.51404	2.34432	23.397
11:08:37				970	6.62721	2.4498399	7.4781	1.51404	2.39316	23.65042
11:08:37				971	6.62518	2.4417654	7.4781	1.4652	2.24664	23.56634
11:08:38				972	6.60685	2.4391828	7.4781	1.51404	2.14896	23.5516
11:08:38				973	6.59669	2.4385373	7.5765	1.4652	2.24664	23.55171
11:08:39				974	6.59771	2.4420901	7.4781	1.4652	2.24664	23.58868
11:08:39				975	6.59466	2.4404741	7.4781	1.51404	2.14896	23.57366
11:08:40				976	6.59974	2.4472566	7.5765	1.51404	2.14896	23.64199
11:08:40				977	6.62106	2.4080228	7.4781	1.4652	1.9536	23.21228
11:08:41				978	6.72883	2.3263385	7.183	1.4652	2.10012	22.28087
11:08:41				979	6.89313	2.3058401	6.6911	1.51404	2.24664	21.96092
11:08:42				980	7.09742	2.2101361	6.3959	1.4652	2.53968	20.84168
11:08:42				981	7.47298	1.988638	6.0024	1.51404	2.63736	18.37094
11:08:43				982	7.80843	1.9271964	5.5105	1.51404	2.73504	17.58294
11:08:43				983	8.05172	1.7967697	5.117	1.4652	2.9304	16.17797
11:08:44				984	8.32976	1.645446	4.7234	1.51404	3.12576	14.58603
11:08:44				985	8.41886	1.4650516	4.4283	1.51404	3.27228	12.82618
11:08:45				986	8.6224	1.3771469	4.0348	1.4652	3.9072	11.92548
11:08:45				987	8.96776	1.2572455	3.6412	1.51404	4.3956	10.7013
11:08:46				988	9.13342	1.2850833	3.3461	1.51404	4.78632	10.90719
11:08:46	11:07:22 end transect	2.5	270	989	9.2009	1.1645829	2.9526	1.4652	4.78632	9.78734
11:08:47				990	9.32499	1.1356306	2.6574	9.67033	5.12821	9.4919
11:08:47				991	9.42058	1.1391685	2.2639	14.35897	5.37241	9.49857
11:08:48				992	9.43226	0.7838432	1.9687	12.89377	5.81197	6.3486
11:08:48				993	9.53261	0.6350387	1.6736	7.08181	6.39805	5.05162
11:08:49				994	9.66961	0.4751329	1.2801	3.51648	7.17949	3.69123
11:08:49				995	9.75793	0.3285125	1.0833	1.4652	7.37485	2.48688
11:08:50				996	9.80059	0.3112162	0.9849	1.51404	8.00977	2.34549
11:08:50				997	9.82968	0.2974431	0.9849	1.51404	7.86325	2.23383
11:08:51				998	9.84516	0.3181018	0.8865	1.4652	8.05861	2.39761
11:08:51				999	9.84613	0.0857615	0.7881	1.51404	8.40049	0.60412
11:08:52				1000	9.86064	0.0370133	0.6898	1.51404	10.59829	0.25258
11:08:52				1001	9.86064	0.1783589	0.6898	0	0	1.30059
11:08:53				1002	9.84516	0.2753471	0.6898	0	0	2.05763

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:08:53				1003	9.8558	0.2082795	0.6898	0	0	1.53164
11:08:54				1004	9.8587	0.3253093	0.6898	0	0	2.45436
11:08:54	11:07:40 switch off	2.5	270	1005	9.86354	0.324028	0.6898	0	0	2.44378
11:13:42	11:12:15 switch on	0.2	180	7	9.69428	0.3269467	0.9849	0	0	2.47866
11:13:43	starting profile at discharge			8	9.68846	0.3269467	1.0833	0	0	2.47905
11:13:43				9	9.69719	0.3271062	1.1817	0	0	2.47973
11:13:44				10	9.70106	0.3266262	1.1817	0	0	2.47561
11:13:44				11	9.703	0.3279069	1.1817	0	0	2.48577
11:13:45				12	9.69912	0.3282276	1.1817	0	0	2.48862
11:13:45				13	9.69815	0.328708	1.1817	0	0	2.49255
11:13:46				14	9.69525	0.3314311	1.0833	0	0	2.51467
11:13:46				15	9.6904	0.3346355	1.1817	0	0	2.54081
11:13:47				16	9.69428	0.3391209	1.1817	0	0	2.5767
11:13:47				17	9.68943	0.3456879	1.1817	0	0	2.63005
11:13:48				18	9.67004	0.3501734	1.1817	0	0	2.66772
11:13:48				19	9.66416	0.3528981	1.1817	0	0	2.69021
11:13:49				20	9.66907	0.3519368	1.1817	0	0	2.68206
11:13:49				21	9.67392	0.3501734	1.1817	0	0	2.66744
11:13:50				22	9.67973	0.349854	1.1817	0	0	2.66443
11:13:50				23	9.67585	0.349854	1.1817	0	0	2.66471
11:13:51				24	9.6564	0.34681	1.1817	0	0	2.64152
11:13:51				25	9.63699	0.3429658	1.1817	0	0	2.61184
11:13:52				26	9.6399	0.3420033	1.1817	0	0	2.60385
11:13:52				27	9.63117	0.3439259	1.1817	0	0	2.62003
11:13:53				28	9.62826	0.3445669	1.1817	0	0	2.62542
11:13:53				29	9.60782	0.3447268	1.2801	0	0	2.6282
11:13:54				30	9.60394	0.3464898	1.1817	0	0	2.64276
11:13:54				31	9.6117	0.345848	1.1817	0	0	2.637
11:13:55				32	9.61364	0.3452081	1.2801	0	0	2.63167
11:13:55				33	9.61752	0.344407	1.1817	0	0	2.62491
11:13:56				34	9.60879	0.3447268	1.1817	0	0	2.62813
11:13:56				35	9.59034	0.3452081	1.1817	0	0	2.63337
11:13:57				36	9.55532	0.3461697	1.1817	0	0	2.64372
11:13:57				37	9.56309	0.3500146	1.1817	0	0	2.67433
11:13:58				38	9.56698	0.3509747	1.1817	0	0	2.68183
11:13:58				39	9.56892	0.3509747	1.1817	0	0	2.68169
11:13:59				40	9.56989	0.3512958	1.1817	0	0	2.68422
11:13:59				41	9.57578	0.3508156	1.1817	0	0	2.67989
11:14:00				42	9.56309	0.3522568	1.1817	0	0	2.69253
11:14:00				43	9.55532	0.3522568	1.1817	0	0	2.69311
11:14:01				44	9.56212	0.3522568	1.1817	0	0	2.6926
11:14:01				45	9.56698	0.3522568	1.1817	0	0	2.69224
11:14:02				46	9.55338	0.3520961	1.2801	0	0	2.69194
11:14:02				47	9.5456	0.3501735	1.1817	0	0	2.67692

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:03				48	9.5456	0.3504946	1.2801	0	0	2.67952
11:14:03				49	9.53297	0.3504946	1.0833	0	0	2.68046
11:14:04				50	9.51639	0.3500146	1.1817	0	0	2.67779
11:14:04				51	9.50958	0.3506551	1.1817	0	0	2.6835
11:14:05				52	9.51833	0.3512959	1.1817	0	0	2.68806
11:14:05				53	9.53589	0.3512959	1.1817	0	0	2.68675
11:14:06				54	9.53686	0.3506551	1.1817	0	0	2.68147
11:14:06				55	9.44922	0.3504947	1.1817	0	0	2.68668
11:14:07				56	9.37511	0.3501737	1.2801	0	0	2.68959
11:14:07				57	9.37706	0.3506553	1.2801	0	0	2.69337
11:14:08				58	9.36342	0.3488934	1.2801	0	0	2.68002
11:14:08				59	9.37122	0.3471306	1.2801	0	0	2.66506
11:14:09				60	9.41121	0.3479316	1.1817	0	0	2.66864
11:14:09				61	9.37804	0.3450484	1.1817	0	0	2.6476
11:14:10				62	9.36148	0.34633	1.1817	0	0	2.65926
11:14:10				63	9.41315	0.351296	1.1817	0	0	2.6959
11:14:11				64	9.42775	0.3498543	1.1817	0	0	2.68307
11:14:11				65	9.38778	0.34649	1.1817	0	0	2.65863
11:14:12				66	9.36927	0.3439262	1.2801	0	0	2.63909
11:14:12				67	9.38193	0.3431258	1.2801	0	0	2.63165
11:14:13				68	9.41802	0.3586655	1.2801	0	0	2.75563
11:14:13				69	9.3605	0.3436066	1.1817	0	0	2.63714
11:14:14				70	9.37219	0.3509749	1.2801	0	0	2.69634
11:14:14				71	9.4716	0.3663553	1.1817	0	0	2.81426
11:14:15				72	9.50569	0.3702008	1.0833	0	0	2.84298
11:14:15				73	9.61073	0.3628305	1.1817	0	0	2.7748
11:14:16				74	9.59811	0.358344	1.1817	0	0	2.73932
11:14:16				75	9.48917	0.3556218	1.2801	0	0	2.72542
11:14:17				76	9.43165	0.3551403	1.2801	0	0	2.72584
11:14:17				77	9.43067	0.3514566	1.2801	0	0	2.6959
11:14:18				78	9.44825	0.3488933	1.2801	0	0	2.67372
11:14:18				79	9.45603	0.3476111	1.1817	0	0	2.66271
11:14:19				80	9.44332	0.3472907	1.2801	0	0	2.66104
11:14:19				81	9.44436	0.351937	1.2801	0	0	2.69879
11:14:20				82	9.45701	0.3528983	1.2801	0	0	2.70567
11:14:20				83	9.47452	0.3471305	1.3784	0	0	2.65744
11:14:21				84	9.44825	0.3453682	1.3784	0	0	2.64504
11:14:21				85	9.42581	0.3455282	1.2801	0	0	2.64799
11:14:22				86	9.47257	0.3468102	1.3784	0	0	2.65498
11:14:22				87	9.49597	0.3461698	1.2801	0	0	2.64806
11:14:23				88	9.50472	0.3447269	1.2801	0	0	2.6357
11:14:23				89	9.50083	0.3434452	1.2801	0	0	2.62558
11:14:24				90	9.53491	0.3452082	1.2801	0	0	2.63741
11:14:24				91	9.54075	0.3432854	1.2801	0	0	2.62139
11:14:25				92	9.50861	0.3423242	1.2801	0	0	2.61592

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:25				93	9.51639	0.3423242	1.3784	0	0	2.61536
11:14:26				94	9.52028	0.3440859	1.2801	0	0	2.62937
11:14:26				95	9.49889	0.3463298	1.2801	0	0	2.64915
11:14:27				96	9.48035	0.3469703	1.3784	0	0	2.65571
11:14:27				97	9.4463	0.3575437	1.2801	0	0	2.74432
11:14:28				98	9.40926	0.4086607	1.2801	0.68376	0.34188	3.16651
11:14:28				99	9.41607	0.3762891	1.3784	0.39072	0.09768	2.89988
11:14:29				100	9.47063	0.3660355	1.2801	1.51404	1.02564	2.81172
11:14:29				101	9.50569	0.3708422	1.2801	1.51404	8.79121	2.84821
11:14:30				102	9.532	0.3653945	1.2801	1.51404	9.62149	2.80173
11:14:30				103	9.532	0.3852623	1.2801	1.51404	9.37729	2.96392
11:14:31				104	9.47257	0.3911918	1.2801	1.51404	9.42613	3.01741
11:14:31				105	9.4463	0.3844619	1.3784	1.4652	9.37729	2.9644
11:14:32				106	9.44436	0.3849419	1.3784	1.4652	9.47497	2.96849
11:14:32				107	9.44138	0.3851029	1.2801	1.4652	9.42613	2.97006
11:14:33				108	9.44041	0.386065	1.2801	1.4652	9.42613	2.97803
11:14:33				109	9.42873	0.3887886	1.2801	1.4652	9.47497	3.00135
11:14:34				110	9.42191	0.3868648	1.2801	1.51404	9.62149	2.98613
11:14:34				111	9.42873	0.3931146	1.2801	1.56288	9.76801	3.03688
11:14:35				112	9.42483	0.3892699	1.2801	1.51404	9.37729	3.00563
11:14:35				113	9.41413	0.3702009	1.3784	1.4652	9.13309	2.85019
11:14:36				114	9.45117	0.372284	1.2801	1.4652	9.18193	2.8643
11:14:36				115	9.47743	0.3782122	1.3784	1.51404	9.03541	2.91068
11:14:37				116	9.48035	0.3913519	1.2801	1.4652	9.23077	3.01808
11:14:37				117	9.45798	0.3895897	1.2801	1.51404	9.71917	3.00549
11:14:38				118	9.45214	0.3727648	1.3784	1.4652	9.42613	2.86815
11:14:38				119	9.47452	0.368919	1.2801	1.4652	9.52381	2.83496
11:14:39				120	9.49694	0.3713226	1.3784	1.4652	9.67033	2.85281
11:14:39				121	9.51444	0.3695597	1.2801	1.51404	9.23077	2.83705
11:14:40				122	9.52708	0.3942372	1.2801	1.51404	9.23077	3.03781
11:14:40				123	9.47549	0.3927939	1.2801	1.51404	9.67033	3.03031
11:14:41				124	9.42191	0.3854236	1.3784	1.4652	9.18193	2.97429
11:14:42				127	9.45561	0.3824723	1.2801	1.51404	9.18193	2.94733
11:14:43				128	9.46339	0.3626078	1.2801	1.51404	9.13309	2.78431
11:14:43				129	9.49944	0.3925652	1.2801	1.4652	9.42613	3.02643
11:14:44				130	9.47902	0.3829532	1.2801	1.51404	10.20757	2.94936
11:14:44				131	9.44393	0.366291	1.2801	1.51404	9.57265	2.81589
11:14:45				132	9.47804	0.358603	1.2801	1.4652	9.37729	2.75054
11:14:45				133	9.51305	0.359404	1.2801	1.51404	9.37729	2.7544
11:14:46				134	9.55684	0.3371385	1.2801	1.4652	9.32845	2.57045
11:14:46				135	9.60739	0.3297711	1.3784	1.51404	8.64469	2.50737
11:14:47				136	9.655	0.3307331	1.3784	1.51404	8.44933	2.51183
11:14:47				137	9.67634	0.3248064	1.3784	1.4652	8.54701	2.46265
11:14:48				138	9.69676	0.3310529	1.3784	1.51404	8.54701	2.51151
11:14:48				139	9.71324	0.328811	1.3784	1.4652	8.64469	2.49233

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:49				140	9.72002	0.3251278	1.2801	1.51404	8.44933	2.46227
11:14:49				141	9.71809	0.3220837	1.3784	1.51404	8.05861	2.43795
11:14:50				142	9.71033	0.3249671	1.2801	1.4652	8.64469	2.46164
11:14:50				143	9.70549	0.3304118	1.2801	1.51404	9.27961	2.50575
11:14:51				144	9.69482	0.3283305	1.3784	1.4652	8.93773	2.48973
11:14:51				145	9.68901	0.3294514	1.3784	1.51404	8.59585	2.49915
11:14:52				146	9.67834	0.3315328	1.3784	1.4652	8.59585	2.51665
11:14:52				147	9.67149	0.3270495	1.3784	1.51404	8.98657	2.48103
11:14:53				148	9.67149	0.3568407	1.2801	1.51404	8.88889	2.72159
11:14:53				149	9.58603	0.3520354	1.3784	1.51404	8.79121	2.68902
11:14:54				150	9.59283	0.3448264	1.3784	1.4652	8.93773	2.63009
11:14:54				151	9.62978	0.3477106	1.3784	1.51404	9.13309	2.65074
11:14:55				152	9.64045	0.3491518	1.3784	1.51404	8.69353	2.66163
11:14:55				153	9.66276	0.3232058	1.3784	1.4652	8.35165	2.4507
11:14:56				154	9.70258	0.3126369	1.3784	1.51404	8.79121	2.3632
11:14:56				155	9.72584	0.3092729	1.3784	1.4652	8.74237	2.33475
11:14:57				156	9.74043	0.3126368	1.3784	1.51404	8.54701	2.36073
11:14:57				157	9.74237	0.3150386	1.3784	1.4652	8.49817	2.37984
11:14:58				158	9.7414	0.3121558	1.3784	1.4652	8.40049	2.35682
11:14:58				159	9.75303	0.313276	1.3784	1.51404	8.69353	2.36503
11:14:59				160	9.75496	0.3364976	1.3784	1.4652	8.59585	2.55127
11:14:59				161	9.74624	0.3292916	1.3784	1.51404	8.59585	2.49393
11:15:00				162	9.71809	0.316639	1.3784	1.51404	8.40049	2.39426
11:15:00				163	9.72487	0.3163194	1.3784	1.4652	8.30281	2.39125
11:15:01				164	9.73656	0.3228847	1.3784	1.51404	8.49817	2.44314
11:15:01				165	9.73074	0.3204832	1.2801	1.4652	8.40049	2.42426
11:15:02				166	9.7113	0.3222442	1.3784	1.4652	8.74237	2.43969
11:15:02				167	9.7113	0.3241665	1.3784	1.4652	8.74237	2.45513
11:15:03				168	9.70742	0.3276891	1.3784	1.51404	8.59585	2.48371
11:15:03				169	9.69676	0.3371384	1.3784	1.4652	8.84005	2.56053
11:15:04				170	9.69579	0.3443466	1.3784	1.4652	9.23077	2.61875
11:15:04				171	9.69191	0.3465894	1.3784	1.51404	9.37729	2.63714
11:15:05				172	9.69288	0.3473901	1.3784	1.51404	9.52381	2.64354
11:15:05				173	9.66955	0.3403418	1.3784	1.51404	9.62149	2.5883
11:15:06				174	9.65209	0.3358572	1.3784	1.4652	9.91453	2.55335
11:15:06				175	9.66179	0.3469097	1.3784	1.51404	9.62149	2.64192
11:15:07				176	9.63463	0.3553983	1.3784	1.4652	9.23077	2.71266
11:15:07				177	9.61419	0.3376188	1.3784	1.4652	8.98657	2.57025
11:15:08				178	9.63463	0.3374597	1.3784	1.4652	8.98657	2.56752
11:15:08				179	9.64724	0.3360177	1.3784	1.51404	9.37729	2.55499
11:15:09				180	9.65791	0.33858	1.3784	1.51404	9.27961	2.57491
11:15:09				181	9.64918	0.3456276	1.3784	1.51404	9.32845	2.63248
11:15:10				182	9.63754	0.3369794	1.3784	1.4652	8.98657	2.56343
11:15:10				183	9.64724	0.3403418	1.3784	1.51404	8.69353	2.5899
11:15:11				184	9.66664	0.3273701	1.3784	1.51404	8.59585	2.48394

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:11				185	9.69191	0.3147179	1.3784	1.51404	8.25397	2.38058
11:15:12				186	9.70161	0.3102347	1.3784	1.51404	8.49817	2.34401
11:15:12				187	9.71518	0.3147178	1.3784	1.51404	8.44933	2.37905
11:15:13				188	9.72099	0.3023885	1.3784	1.51404	8.84005	2.28001
11:15:13				189	9.72681	0.3055908	1.3784	1.4652	8.64469	2.30524
11:15:14				190	9.73462	0.3217644	1.3784	1.51404	8.44933	2.43428
11:15:14				191	9.7113	0.3342565	1.3784	1.51404	9.13309	2.53629
11:15:15				192	9.68416	0.348031	1.3784	1.51404	8.88889	2.64936
11:15:15				193	9.67149	0.3449877	1.3784	1.51404	8.88889	2.62568
11:15:16				194	9.64433	0.3438656	1.3784	1.51404	9.13309	2.61858
11:15:16				195	9.62486	0.3427443	1.3784	1.51404	9.27961	2.61092
11:15:17				196	9.64724	0.3475504	1.3784	1.4652	9.42613	2.64817
11:15:17				197	9.66179	0.3968904	1.3784	1.4652	9.47497	3.04818
11:15:18				198	9.61225	0.3912834	1.3784	1.4652	10.15873	3.00651
11:15:18				199	9.55781	0.3808696	1.3784	1.51404	9.96337	2.92591
11:15:19				200	9.55295	0.3651697	1.3784	1.4652	9.32845	2.79827
11:15:19				201	9.57335	0.3610057	1.3784	1.4652	9.27961	2.76282
11:15:20				202	9.59963	0.360684	1.3784	1.4652	8.98657	2.7582
11:15:20				203	9.57044	0.3549184	1.3784	1.4652	8.74237	2.71358
11:15:21				204	9.55295	0.3521946	1.3784	1.4652	9.27961	2.69277
11:15:21				205	9.59477	0.3443467	1.3784	1.4652	9.03541	2.62606
11:15:22				206	9.63948	0.3581218	1.3784	1.4652	8.69353	2.73438
11:15:22				207	9.59866	0.3584415	1.3784	1.4652	8.88889	2.74006
11:15:23				208	9.57238	0.3653303	1.3784	1.4652	9.03541	2.79807
11:15:23				209	9.56266	0.3763844	1.3784	1.4652	9.08425	2.8889
11:15:24				210	9.54615	0.3509141	1.4768	1.4652	9.23077	2.68287
11:15:24				211	9.51596	0.3477108	1.6736	1.4652	9.57265	2.65909
11:15:25				212	9.51888	0.353317	1.8703	1.4652	9.76801	2.70441
11:15:25				213	9.54809	0.393046	2.0671	1.4652	9.37729	3.02625
11:15:26				214	9.52672	0.4143569	2.1655	1.4652	8.98657	3.20301
11:15:26				215	9.41857	0.4116323	2.4606	1.4652	9.13309	3.19014
11:15:27				216	9.38741	0.4008979	2.559	1.4652	9.32845	3.10437
11:15:27				217	9.39131	0.3956103	2.4606	1.4652	9.23077	3.06051
11:15:28				218	9.40202	0.4089091	2.4606	1.51404	9.67033	3.16914
11:15:28				219	9.40007	0.4821541	2.559	1.51404	9.08425	3.77747
11:15:29				220	9.37079	0.4653226	2.6574	1.51404	9.13309	3.63997
11:15:29				221	9.33474	0.4638797	2.7558	1.51404	8.69353	3.63157
11:15:30				222	9.35033	0.5023534	2.7558	1.4652	8.74237	3.95199
11:15:30				223	9.32006	0.5054004	2.8542	1.4652	8.49817	3.98092
11:15:31				224	9.30251	0.4359912	2.8542	1.51404	8.69353	3.40244
11:15:31				225	9.33376	0.4399972	2.7558	1.51404	8.64469	3.43277
11:15:32				226	9.34838	0.5607229	2.7558	1.51404	9.23077	4.44451
11:15:32				227	9.27123	0.6192718	3.0509	1.51404	9.57265	4.95324
11:15:33				228	9.18527	0.580451	3.0509	1.51404	7.27717	4.63288
11:15:33				229	9.18918	0.6555347	3.1493	1.51404	6.59341	5.2765

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:34				230	9.13042	0.7203729	3.2477	1.4652	7.52137	5.84743
11:15:34				231	9.0844	0.7349807	3.3461	1.51404	6.83761	5.98242
11:15:35				232	9.05308	0.7529602	3.3461	1.51404	6.00733	6.14499
11:15:35				233	9.06287	0.844813	3.3461	1.51404	5.51893	6.95185
11:15:36				234	9.03736	0.8510767	3.3461	1.51404	5.27473	7.01229
11:15:36				235	9.03834	0.8791876	3.4445	1.4652	5.37241	7.26148
11:15:37				236	9.06385	0.8807927	3.4445	1.4652	5.07937	7.27055
11:15:37				237	9.07461	1.0672138	3.5428	1.4652	5.07937	8.93837
11:15:38				238	9.105	1.1172175	3.7396	1.4652	5.27473	9.38317
11:15:38				239	9.06678	1.0668922	3.9364	1.51404	5.42125	8.93737
11:15:39				240	9.08342	1.119149	3.9364	1.4652	5.51893	9.40633
11:15:39				241	9.11771	1.1358719	4.1331	1.4652	5.76313	9.54899
11:15:40				242	9.16567	1.1213981	4.2315	1.51404	5.76313	9.40503
11:15:40				243	9.16274	1.114485	4.2315	7.22833	5.56777	9.34322
11:15:41				244	9.1598	1.1260618	4.3299	5.51893	5.71429	9.44881
11:15:42				247	9.07535	1.1517114	4.4283	3.71184	5.42125	9.70434
11:15:43				248	9.08024	1.1476912	4.4283	3.51648	5.47009	9.66643
11:15:43				249	9.09393	1.1854844	4.4283	3.07692	5.42125	10.00693
11:15:44				250	9.07143	1.1648984	4.4283	3.02808	5.56777	9.8255
11:15:44				251	9.05284	1.1501032	4.4283	3.02808	5.32357	9.69581
11:15:45				252	9.07828	1.1595907	4.4283	2.73504	5.47009	9.77527
11:15:45				253	9.0518	1.1919186	4.4283	2.9304	5.51893	10.07752
11:15:46				254	9.03418	1.1726184	4.5267	2.00244	5.71429	9.90618
11:15:46				255	9.03026	1.1547672	4.5267	1.51404	5.27473	9.74444
11:15:47				256	9.04005	1.1557326	4.4283	1.4652	5.27473	9.75058
11:15:47				257	9.06263	1.1499422	4.4283	1.56288	5.61661	9.69169
11:15:48				258	9.05578	1.1853239	4.5267	1.51404	5.32357	10.01615
11:15:48				259	9.04984	1.190953	4.5267	1.4652	5.56777	10.06924
11:15:49				260	9.04886	1.1875757	4.5267	1.4652	5.51893	10.03866
11:15:49				261	9.02733	1.1954574	4.5267	1.51404	5.47009	10.11678
11:15:50				262	8.98515	1.1944908	4.5267	1.4652	5.51893	10.1199
11:15:50				263	8.99299	1.185806	4.5267	1.51404	5.86081	10.0382
11:15:51				264	9.03222	1.1901486	4.4283	1.51404	5.51893	10.06687
11:15:51				265	9.02635	1.194974	4.4283	1.51404	5.27473	10.11265
11:15:52				266	8.98319	1.2546525	4.4283	1.51404	5.56777	10.67268
11:15:52				267	8.94981	1.2417829	4.5267	1.51404	5.42125	10.56421
11:15:53				268	8.9351	1.2477359	4.5267	1.4652	5.42125	10.62337
11:15:53				269	8.92726	1.2091286	4.5267	1.4652	5.37241	10.27067
11:15:54				270	8.96653	1.2162057	4.5267	1.51404	5.47009	10.32429
11:15:54				271	8.97731	1.2551358	4.4283	1.51404	5.51893	10.67889
11:15:55				272	8.95771	1.2474128	4.5267	1.51404	5.42125	10.61366
11:15:55				273	8.94589	1.2406568	4.5267	1.51404	5.61661	10.55501
11:15:56				274	8.95575	1.218137	4.4283	1.51404	5.42125	10.34516
11:15:56				275	8.96065	1.1986732	4.4283	1.51404	5.56777	10.1652
11:15:57				276	9.00774	1.202051	4.2315	1.4652	5.76313	10.18274

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:57				277	9.08709	1.2001203	4.1331	1.56288	5.51893	10.14251
11:15:58				278	9.0685	1.1798563	4.1331	1.51404	5.42125	9.96274
11:15:58				279	9.09491	1.1853237	4.2315	1.51404	5.42125	10.00522
11:15:59				280	9.15663	1.1854841	4.1331	11.67277	5.47009	9.98944
11:15:59				281	9.24458	1.1785687	4.0348	13.82173	5.37241	9.90214
11:16:00				282	9.38224	1.172617	3.9364	20.07326	5.22589	9.8104
11:16:00				283	9.42708	1.1710087	3.838	25.25031	5.27473	9.78365
11:16:01				284	9.4339	1.173259	3.838	33.11355	5.27473	9.80211
11:16:01				285	9.49135	1.1674708	3.9364	34.67643	5.61661	9.73429
11:16:02				286	9.55168	1.1700424	3.9364	35.31136	5.03053	9.74111
11:16:02				287	9.54876	1.1684356	3.9364	38.58364	5.17705	9.72745
11:16:03				288	9.52058	1.1661823	3.838	37.0696	5.22589	9.7148
11:16:03				289	9.53224	1.1607152	3.838	35.70208	5.32357	9.66248
11:16:04				290	9.57311	1.1393263	3.838	33.84615	5.32357	9.45957
11:16:04				291	9.62947	1.1243724	3.838	32.77167	5.42125	9.31099
11:16:05				292	9.62171	1.1234081	3.9364	38.92552	5.32357	9.30436
11:16:05				293	9.60515	1.1361104	3.9364	44.34676	5.22589	9.42234
11:16:06				294	9.61	1.1322511	3.838	44.78632	5.27473	9.38653
11:16:06				295	9.60612	1.1483327	3.838	37.70452	5.32357	9.53161
11:16:07				296	9.61194	1.1455985	3.838	31.59951	5.42125	9.50557
11:16:07				297	9.67028	1.1489762	3.9364	31.25763	5.47009	9.52041
11:16:08				298	9.72069	1.1451158	3.9364	33.65079	5.32357	9.47263
11:16:08				299	9.70615	1.1370762	3.9364	44.884	5.37241	9.40461
11:16:09				300	9.6887	1.128714	3.838	48.79121	5.42125	9.33448
11:16:09				301	9.67319	1.1521924	3.838	44.34676	5.42125	9.54844
11:16:10				302	9.69064	1.1439909	3.838	32.28327	5.47009	9.47047
11:16:10				303	9.78377	1.1353063	3.838	40.29304	5.51893	9.36867
11:16:11				304	9.80894	1.1266228	3.838	45.90965	5.17705	9.28485
11:16:11				305	9.67513	1.0983245	3.7396	48.15629	5.47009	9.06688
11:16:12				306	9.63821	1.1095797	3.5428	39.36508	5.27473	9.17663
11:16:12				307	9.6984	1.0931803	3.4445	35.16484	5.61661	9.01528
11:16:13				308	9.67222	1.1013805	3.4445	30.76923	5.42125	9.09489
11:16:13				309	9.75853	1.1012175	3.5428	31.25763	5.56777	9.07171
11:16:14				310	9.807	1.0920548	3.6412	38.82784	5.42125	8.97821
11:16:14				311	9.80023	1.0877122	3.5428	42.73504	5.32357	8.94137
11:16:15				312	9.82055	1.0889997	3.4445	39.07204	5.66545	8.94778
11:16:15				313	9.81475	1.0846573	3.3461	36.67888	5.32357	8.91073
11:16:16				314	9.839	1.1020223	3.4445	40.09768	5.51893	9.0587
11:16:16				315	9.88251	1.1070056	3.5428	42.14896	5.51893	9.09197
11:16:17				316	9.89997	1.1020222	3.7396	49.37729	5.22589	9.04341
11:16:17				317	9.89901	1.0934999	3.7396	57.28938	5.32357	8.96819
11:16:18				318	9.88831	1.0923747	3.3461	58.75458	5.32357	8.96093
11:16:18				319	9.88155	1.0978425	3.5428	53.43101	5.27473	9.011
11:16:19				320	9.89804	1.1116685	3.5428	48.54701	5.32357	9.1294
11:16:19				321	9.97442	1.1197079	3.7396	52.11233	5.37241	9.1813

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:20				322	10.03334	1.101056	3.7396	64.42002	5.27473	9.00168
11:16:20				323	10.00434	1.0954285	3.7396	71.11111	5.27473	8.95919
11:16:21				324	9.97345	1.0992883	3.5428	63.83394	5.37241	9.00095
11:16:21				325	9.94732	1.0965551	3.5428	57.24054	5.37241	8.98327
11:16:22				326	9.96379	1.1311252	3.6412	56.01954	5.37241	9.28515
11:16:22				327	9.9222	1.1053992	3.7396	56.7033	5.27473	9.06776
11:16:23				328	9.90964	1.0981632	3.7396	50.20757	5.42125	9.00683
11:16:23				329	9.92993	1.0970383	3.6412	53.18681	5.42125	8.99185
11:16:24				330	9.958	1.0840138	3.5428	53.96825	5.12821	8.86983
11:16:24				331	9.95607	1.1235665	3.5428	54.45665	5.17705	9.22015
11:16:25				332	9.89025	1.110704	3.7396	45.66545	5.37241	9.12278
11:16:25				333	9.75563	1.1073279	3.7396	39.65812	5.27473	9.12676
11:16:26				334	9.74594	1.1044352	3.7396	35.116	5.22589	9.10347
11:16:26				335	9.775	1.0923751	3.6412	34.38339	5.27473	8.989
11:16:27				336	9.85737	1.0762991	3.6412	38.19292	5.17705	8.82621
11:16:27				337	9.86898	1.0909278	3.5428	40.68376	5.22589	8.95287
11:16:28				338	9.82539	1.1237287	3.6412	40.29304	5.37241	9.25492
11:16:28				339	9.73432	1.1062018	3.7396	34.82295	5.51893	9.12212
11:16:29				340	9.69452	1.0902863	3.838	33.35775	5.22589	8.99044
11:16:29				341	9.73141	1.093823	3.7396	33.84615	5.32357	9.01272
11:16:30				342	9.7779	1.0873926	3.6412	36.92308	5.42125	8.94405
11:16:30				343	9.77016	1.0935004	3.6412	39.46276	5.47009	9.0002
11:16:31				344	9.76822	1.090606	3.7396	42.39316	5.32357	8.97496
11:16:31				345	9.77597	1.0811208	3.7396	40.39072	5.07937	8.88886
11:16:32				346	9.76628	1.0703499	3.6412	40.19536	5.37241	8.79571
11:16:32				347	9.76919	1.1100623	3.7396	40.39072	5.37241	9.14766
11:16:33				348	9.76919	1.1090962	3.7396	39.85348	5.12821	9.13906
11:16:33				349	9.74594	1.1124727	3.7396	36.48352	4.93284	9.175
11:16:34				350	9.73432	1.1042723	3.7396	32.67399	5.37241	9.10495
11:16:34				351	9.73722	1.1041115	3.6412	30.96459	5.17705	9.1028
11:16:35				352	9.73335	1.1111879	3.6412	30.23199	5.17705	9.16677
11:16:35				353	9.71778	1.1137604	3.7396	30.86691	5.27473	9.19363
11:16:36				354	9.70906	1.1082937	3.7396	30.28083	5.61661	9.14714
11:16:36				355	9.71197	1.1081327	3.7396	30.03663	5.27473	9.14497
11:16:37				356	9.70906	1.1245339	3.6412	29.89011	5.71429	9.29194
11:16:37				357	9.70131	1.1140808	3.7396	28.91331	5.42125	9.20069
11:16:38				358	9.68967	1.1119916	3.6412	28.22955	5.42125	9.18504
11:16:38				359	9.69258	1.1481715	3.6412	28.42491	5.22589	9.50737
11:16:39				360	9.66634	1.1574984	3.7396	30.08547	5.56777	9.59778
11:16:39				361	9.66931	1.1227653	3.7396	23.83394	5.37241	9.28637
11:16:40				362	9.67222	1.1274266	3.7396	25.64103	5.17705	9.32725
11:16:40				363	9.67028	1.1272668	3.6412	25.49451	5.17705	9.32634
11:16:41				364	9.66634	1.1578211	3.6412	29.05983	5.27473	9.60069
11:16:42				367	9.66907	1.131256	3.7396	28.96215	5.12821	9.36229
11:16:43				368	9.68167	1.1622956	3.7396	28.27839	5.32357	9.63666

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:43				369	9.71566	1.1537711	3.838	26.91087	5.22589	9.55133
11:16:44				370	9.83101	1.1568261	3.9364	28.96215	5.42125	9.54811
11:16:44				371	9.83392	1.1672792	3.9364	28.91331	5.22589	9.64057
11:16:45				372	9.83198	1.1629373	3.9364	27.49695	5.27473	9.60235
11:16:45				373	9.79708	1.1680845	4.0348	27.05739	5.12821	9.65757
11:16:46				374	9.86203	1.1687277	4.1331	27.44811	5.27473	9.64597
11:16:46				375	9.89297	1.1664762	4.1331	27.64347	5.37241	9.61767
11:16:47				376	9.89877	1.1676006	4.2315	26.56899	5.17705	9.62613
11:16:47				377	9.863	1.1708187	4.1331	26.03175	5.42125	9.66436
11:16:48				378	9.75835	1.1664767	4.2315	22.66178	5.22589	9.65352
11:16:48				379	9.79708	1.1655121	4.2315	20.21978	5.42125	9.63457
11:16:49				380	9.73311	1.1815961	4.2315	18.6569	5.32357	9.79563
11:16:49				381	9.52811	1.1745193	4.3299	15.04274	5.47009	9.78773
11:16:50				382	9.48041	1.1614906	4.3299	13.72405	5.47009	9.68332
11:16:50				383	9.65937	1.1637421	4.2315	13.47985	5.22589	9.65552
11:16:51				384	9.72535	1.1598828	4.1331	18.6569	5.17705	9.60337
11:16:51				385	9.75545	1.1573083	4.0348	21.8315	5.07937	9.57238
11:16:52				386	9.78063	1.1579516	3.9364	24.61538	5.32357	9.57147
11:16:52				387	9.81263	1.1524836	3.838	25.25031	5.12821	9.51425
11:16:53				388	9.85133	1.1553785	3.6412	25.83639	5.07937	9.52989
11:16:53				389	9.86976	1.1536093	3.5428	26.86203	5.12821	9.5093
11:16:54				390	9.92395	1.1524832	3.5428	28.13187	5.07937	9.48507
11:16:54				391	9.95486	1.1516775	3.6412	28.81563	5.17705	9.46981
11:16:55				392	10.13545	1.1503906	3.5428	28.62027	5.12821	9.41147
11:16:55				393	10.12197	1.1524824	3.5428	28.86447	5.17705	9.43345
11:16:56				394	10.02255	1.1536087	3.5428	29.10867	5.17705	9.46929
11:16:56				395	9.94327	1.1515187	3.6412	29.40171	5.17705	9.47143
11:16:57				396	9.92975	1.1513576	3.5428	29.49939	5.03053	9.47355
11:16:57				397	9.98003	1.1491055	3.4445	29.45055	5.07937	9.44045
11:16:58				398	10.00319	1.1428326	3.4445	37.85104	5.07937	9.37881
11:16:58				399	10.11613	1.1281983	3.5428	43.12576	5.03053	9.22045
11:16:59				400	10.10938	1.1433141	3.4445	37.02076	4.98168	9.35568
11:16:59				401	10.03316	1.141385	3.4445	34.33455	4.93284	9.35825
11:17:00				402	9.96651	1.1183898	3.2477	37.36264	5.32357	9.1717
11:17:00				403	9.95197	1.1220872	3.3461	38.14408	5.32357	9.20812
11:17:01				404	9.84843	1.1264305	3.3461	40.43956	5.37241	9.27308
11:17:01				405	9.79902	1.1249823	3.3461	41.02564	5.17705	9.27286
11:17:02				406	9.80682	1.1174237	3.3461	41.12332	5.17705	9.20363
11:17:02				407	9.80198	1.1122791	3.3461	42.83272	5.03053	9.15912
11:17:03				408	9.79224	1.1142095	3.3461	46.15385	5.17705	9.17875
11:17:03				409	9.78837	1.1185498	3.3461	46.10501	5.32357	9.21835
11:17:04				410	9.78934	1.1188728	3.3461	47.57021	5.22589	9.22097
11:17:04				411	9.79999	1.1203182	3.2477	47.42369	5.03053	9.23113
11:17:05				412	9.83005	1.1206413	3.2477	44.54212	5.12821	9.22633
11:17:05				413	9.84069	1.1148523	3.1493	42.29548	5.27473	9.1722

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:06				414	9.82714	1.1188727	3.1493	40.09768	5.42125	9.21137
11:17:06				415	9.81553	1.1174237	3.1493	39.60928	5.27473	9.20144
11:17:07				416	9.8136	1.1172644	3.1493	40.63492	5.17705	9.20052
11:17:07				417	9.81457	1.1191936	3.0509	40.78144	5.37241	9.21744
11:17:08				418	9.80682	1.1227324	3.1493	42.00244	5.47009	9.25087
11:17:08				419	9.79708	1.1187113	3.1493	43.76068	5.32357	9.21759
11:17:09				420	9.80096	1.1187112	3.1493	43.02808	5.32357	9.2166
11:17:09				421	9.79805	1.1179059	3.1493	40.29304	5.42125	9.21018
11:17:10				422	9.80096	1.1172644	3.0509	37.36264	5.07937	9.20375
11:17:10				423	9.81747	1.1098667	3.1493	37.558	5.22589	9.13379
11:17:11				424	9.84359	1.1156546	3.1493	36.92308	5.42125	9.17859
11:17:11				425	9.86106	1.115334	3.0509	37.558	5.22589	9.17133
11:17:12				426	9.8659	1.1235344	3.0509	39.21856	5.51893	9.24292
11:17:12				427	9.8833	1.1174234	3.1493	40.7326	5.03053	9.18422
11:17:13				428	9.89103	1.1154953	3.0509	41.7094	5.37241	9.16517
11:17:13				429	9.8746	1.1161386	2.9526	41.36752	5.17705	9.17505
11:17:14				430	9.85623	1.1105086	2.9526	42.14896	5.42125	9.12974
11:17:14				431	9.85133	1.1082587	2.9526	43.36996	5.37241	9.111
11:17:15				432	9.84456	1.1085807	2.9526	44.00488	5.37241	9.11557
11:17:15				433	9.84746	1.1042375	2.9526	43.95604	5.17705	9.0763
11:17:16				434	9.84553	1.1042375	2.9526	43.9072	5.12821	9.07678
11:17:16				435	9.84069	1.101504	2.8542	43.32112	5.27473	9.05375
11:17:17				436	9.83972	1.1007012	2.8542	43.27228	5.27473	9.04687
11:17:17				437	9.83779	1.0588961	2.8542	43.12576	5.32357	8.67715
11:17:18				438	9.83198	1.081246	2.8542	40.09768	5.32357	8.87632
11:17:18				439	9.82714	1.0769043	2.8542	36.67888	5.17705	8.83905
11:17:19				440	9.82521	1.0818884	2.8542	35.45788	5.37241	8.88368
11:17:19				441	9.82521	1.053753	2.7558	33.74847	5.32357	8.63471
11:17:20				442	9.8194	1.0540732	2.7558	34.57875	5.42125	8.63893
11:17:20				443	9.81747	1.0736888	2.7558	34.13919	5.32357	8.81295
11:17:21				444	9.80682	1.0341394	2.6574	31.06227	5.12821	8.46582
11:17:21				445	9.73892	1.0092237	2.4606	29.25519	5.32357	8.26166
11:17:22				446	9.69234	0.9791676	2.3623	27.59463	5.03053	8.00715
11:17:22				447	9.71372	1.0013483	2.3623	23.34554	5.22589	8.19792
11:17:23				448	9.70403	0.9917051	2.2639	18.99878	5.27473	8.11507
11:17:23				449	9.6807	0.9722569	2.2639	15.7265	5.22589	7.94886
11:17:24				450	9.62923	0.9359395	2.1655	11.28205	5.32357	7.64045
11:17:24				451	9.57481	0.9399576	2.2639	6.83761	5.22589	7.68736
11:17:25				452	9.54657	0.9512067	2.2639	4.6398	5.42125	7.79258
11:17:25				453	9.52714	0.9262996	2.0671	5.51893	5.32357	7.57721
11:17:26				454	9.46193	0.9102325	1.9687	6.39805	5.56777	7.44933
11:17:26				455	9.41127	0.8985029	2.0671	7.86325	5.51893	7.35643
11:17:27				456	9.38297	0.9139274	2.0671	8.44933	5.27473	7.49833
11:17:27				457	9.38297	0.9046087	2.0671	6.73993	5.07937	7.41608
11:17:28				458	9.38978	0.8951303	2.0671	7.47253	5.42125	7.3311

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:28				459	9.33809	0.8887038	2.1655	6.73993	5.37241	7.28496
11:17:29				460	9.29903	0.8972193	2.1655	3.71184	5.37241	7.36811
11:17:29				461	9.30098	0.8948085	2.0671	3.76068	5.37241	7.34642
11:17:30				462	9.32444	0.8850092	2.0671	1.56288	5.47009	7.25515
11:17:30				463	9.2297	0.9234085	2.1655	1.51404	5.66545	7.61456
11:17:31				464	9.15437	0.908466	2.3623	1.4652	5.37241	7.49775
11:17:31				465	9.1896	0.8991468	2.4606	1.51404	5.12821	7.4077
11:17:32				466	9.21701	0.9028416	2.3623	1.51404	5.17705	7.43478
11:17:32				467	9.21109	0.9046093	2.4606	3.95604	5.07937	7.45167
11:17:33				468	9.25507	0.9075006	2.559	1.90476	5.07937	7.46812
11:17:33				469	9.26587	0.9062162	2.559	1.51404	5.71429	7.4545
11:17:34				470	9.24239	0.9291917	2.559	1.51404	5.71429	7.66315
11:17:34				471	9.258	0.9359406	2.559	8.84005	5.27473	7.71972
11:17:35				472	9.31567	0.9555453	2.6574	9.52381	5.32357	7.8813
11:17:35				473	9.3781	0.9640622	2.7558	12.99145	5.51893	7.94314
11:17:36				474	9.47458	0.9682404	2.8542	19.53602	5.61661	7.95882
11:17:36				475	9.56509	0.9529744	2.9526	20.65934	5.47009	7.80408
11:17:37				476	9.58743	0.9618115	2.9526	20.17094	5.17705	7.87717
11:17:37				477	9.58452	0.9555445	2.9526	20.02442	5.37241	7.82253
11:17:38				478	9.57869	0.9516881	2.9526	19.09646	5.42125	7.7898
11:17:38				479	9.56315	0.9502422	2.9526	18.85226	5.61661	7.78041
11:17:39				480	9.58743	1.0013488	3.0509	20.1221	5.51893	8.2266
11:17:39				481	9.58452	1.0145291	3.1493	15.62882	5.51893	8.34404
11:17:40				482	9.55441	1.0224062	3.1493	14.16361	5.56777	8.42094
11:17:40				483	9.51159	1.0097079	3.2477	12.50305	5.66545	8.31812
11:17:41				484	9.51936	0.9979732	3.1493	11.91697	5.42125	8.21221
11:17:42				487	9.3725	1.0067929	3.3461	9.91453	5.37241	8.32438
11:17:43				488	9.34132	1.0228675	3.3461	7.32601	5.66545	8.4751
11:17:43				489	9.32469	1.0251175	3.3461	7.08181	5.51893	8.49914
11:17:44				490	9.28471	1.0392643	3.4445	8.30281	5.37241	8.63529
11:17:44				491	9.26123	1.0201345	3.6412	6.30037	5.56777	8.46955
11:17:45				492	9.27001	1.0120976	3.6412	6.49573	5.56777	8.39558
11:17:45				493	9.30909	1.0235097	3.5428	6.73993	5.71429	8.48844
11:17:46				494	9.29349	1.0521246	3.6412	7.22833	5.47009	8.74843
11:17:46				495	9.26026	1.0310669	3.838	5.37241	5.47009	8.56766
11:17:47				496	9.25245	1.0268872	3.7396	5.27473	5.81197	8.53209
11:17:47				497	9.27489	1.0397466	3.7396	5.66545	5.90965	8.64194
11:17:48				498	9.26611	1.0625751	3.7396	5.17705	5.76313	8.84894
11:17:48				499	9.19674	1.0556626	3.838	5.12821	5.51893	8.80388
11:17:49				500	9.15956	1.0558229	3.9364	1.51404	5.61661	8.81446
11:17:49				501	9.15858	1.0731864	3.838	1.56288	5.61661	8.97121
11:17:50				502	9.14392	1.1005218	3.9364	1.56288	5.56777	9.22181
11:17:50				503	9.13506	1.0837996	3.9364	1.4652	5.56777	9.07293
11:17:51				504	9.15272	1.0733476	3.9364	1.51404	5.51893	8.97412
11:17:51				505	9.14881	1.1071134	3.9364	1.51404	5.81197	9.28018

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:52				506	9.17519	1.1120988	3.9364	1.4652	5.76313	9.31842
11:17:52				507	9.2026	1.1087205	4.0348	1.4652	5.51893	9.28074
11:17:53				508	9.21725	1.0911947	4.0348	11.67277	5.47009	9.11877
11:17:53				509	9.21823	1.1169223	4.0348	7.08181	5.42125	9.3508
11:17:54				510	9.22018	1.1262494	4.0348	6.64225	5.51893	9.43462
11:17:54				511	9.22018	1.1238367	4.0348	6.78877	5.51893	9.4128
11:17:55				512	9.21725	1.1297876	4.0348	6.54457	5.32357	9.4674
11:17:55				513	9.2192	1.1297876	4.0348	6.59341	5.47009	9.46689
11:17:56				514	9.22116	1.1513386	4.0348	6.54457	5.17705	9.66153
11:17:56				515	9.22799	1.1458693	4.0348	6.25153	5.51893	9.61013
11:17:57				516	9.24952	1.1259276	4.0348	5.81197	5.32357	9.42398
11:17:57				517	9.24855	1.1288216	4.0348	5.47009	5.27473	9.4504
11:17:58				518	9.23488	1.1603452	4.0348	5.22589	5.56777	9.73946
11:17:58				519	9.1987	1.1629179	4.0348	4.59096	5.47009	9.77266
11:17:59				520	9.13897	1.1436173	4.0348	4.54212	5.27473	9.61362
11:17:59				521	9.13018	1.1465129	4.0348	3.76068	5.42125	9.64229
11:18:00				522	9.1537	1.1624353	4.0348	2.88156	5.37241	9.78058
11:18:00				523	9.11649	1.1654906	3.9364	2.49084	5.66545	9.81858
11:18:01				524	9.07143	1.1608283	3.9364	1.51404	5.37241	9.78849
11:18:01				525	9.0685	1.1653312	4.0348	1.51404	5.51893	9.83031
11:18:02				526	9.06556	1.1648481	4.0348	1.56288	5.56777	9.82671
11:18:02				527	9.04886	1.1690307	4.0348	1.51404	5.56777	9.86946
11:18:03				528	9.04005	1.1638843	4.0348	1.51404	5.37241	9.82495
11:18:03				529	9.04691	1.1651695	4.0348	1.51404	5.42125	9.83478
11:18:04				530	9.0685	1.1765895	4.0348	1.51404	5.51893	9.93296
11:18:04				531	9.06654	1.1783586	4.0348	1.4652	5.71429	9.94964
11:18:05				532	9.03614	1.1791624	4.0348	1.51404	5.42125	9.96546
11:18:05				533	9.01558	1.1780383	4.0348	1.51404	5.37241	9.96093
11:18:06				534	9.01655	1.1822186	4.1331	1.51404	5.22589	9.99884
11:18:06				535	9.01949	1.1751418	4.1331	1.51404	5.42125	9.93337
11:18:07				536	9.02928	1.1695124	4.1331	1.51404	5.17705	9.87925
11:18:07				537	9.04103	1.1778757	4.0348	1.4652	5.27473	9.95234
11:18:08				538	9.04005	1.1828627	4.0348	1.51404	5.66545	9.99816
11:18:08				539	9.03516	1.1809329	4.1331	1.51404	5.71429	9.98189
11:18:09				540	9.03124	1.1773951	4.1331	1.4652	5.42125	9.95067
11:18:09				541	9.02928	1.1791624	4.1331	1.51404	5.42125	9.96736
11:18:10				542	9.03124	1.1818977	4.2315	1.51404	5.56777	9.99178
11:18:10				543	9.03516	1.1849543	4.1331	1.51404	5.47009	10.01862
11:18:11				544	9.03124	1.1851149	4.1331	1.51404	5.47009	10.02119
11:18:11				545	9.02537	1.1849543	4.1331	1.51404	5.42125	10.02137
11:18:12				546	9.02047	1.176107	4.2315	1.4652	5.32357	9.94189
11:18:12				547	9.02537	1.1781985	4.1331	1.51404	5.17705	9.95965
11:18:13				548	9.02928	1.1801288	4.1331	1.51404	5.61661	9.97618
11:18:13				549	9.02341	1.1846331	4.1331	1.4652	5.42125	10.01898
11:18:14				550	9.01362	1.1844704	4.1331	1.51404	5.42125	10.02025

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:14				551	9.0097	1.1817373	4.1331	1.4652	5.42125	9.99636
11:18:15				552	9.00872	1.1817373	4.1331	1.4652	5.27473	9.99664
11:18:15				553	9.0097	1.1831838	4.1331	1.51404	5.42125	10.00959
11:18:16				554	9.00774	1.1831838	4.0348	1.51404	5.37241	10.01015
11:18:16	11:16:52 moving to 10m			555	8.99984	1.1830233	4.1331	1.51404	5.12821	10.01088
11:18:17				556	9.00474	1.1833465	4.1331	1.51404	5.32357	10.01246
11:18:17				557	9.00278	1.1841493	4.1331	1.51404	5.47009	10.02035
11:18:18				558	9.00676	1.1854362	4.1331	1.4652	5.61661	10.031
11:18:18				559	9.00676	1.1870452	4.1331	1.51404	5.76313	10.04572
11:18:19				560	9.0018	1.1865631	4.1331	1.51404	5.61661	10.0427
11:18:19				561	8.99201	1.1843099	4.1331	1.4652	5.42125	10.02485
11:18:20				562	8.99103	1.1851151	4.1331	1.51404	5.47009	10.03249
11:18:20				563	8.98613	1.1867238	4.1331	1.51404	5.42125	10.04859
11:18:21				564	8.97927	1.1851151	4.2315	1.4652	5.42125	10.03579
11:18:21				565	8.97045	1.18431	4.1331	1.4652	5.17705	10.03091
11:18:22				566	8.98025	1.1849545	4.1331	1.51404	5.51893	10.03406
11:18:22				567	8.98123	1.1859183	4.1331	1.4652	5.47009	10.0426
11:18:23				568	8.97339	1.1851151	4.1331	1.51404	5.07937	10.03746
11:18:23				569	8.97633	1.1854364	4.1331	1.51404	5.32357	10.03957
11:18:24				570	8.97339	1.1868846	4.1331	1.4652	5.37241	10.05365
11:18:24				571	8.97339	1.185597	4.2315	1.51404	5.51893	10.04185
11:18:25				572	8.97633	1.1844705	4.1331	1.51404	5.17705	10.03073
11:18:25				573	8.98711	1.1859183	4.1331	1.51404	5.51893	10.04094
11:18:26				574	8.99103	1.1899394	4.1331	1.51404	5.42125	10.07663
11:18:26				575	8.97927	1.1896177	4.1331	1.51404	5.32357	10.07701
11:18:27				576	8.97045	1.1881705	4.1331	1.4652	5.22589	10.06625
11:18:27				577	8.97437	1.1902612	4.1331	1.51404	5.37241	10.08429
11:18:28				578	8.97241	1.1913875	4.1331	1.51404	5.61661	10.09516
11:18:28				579	8.97535	1.187206	4.1331	1.4652	5.17705	10.05604
11:18:29				580	8.97731	1.188492	4.1331	1.51404	5.42125	10.06726
11:18:29				581	8.96457	1.1883313	4.1331	1.51404	5.32357	10.06939
11:18:30				582	8.96059	1.187849	4.1331	1.51404	5.17705	10.06609
11:18:30				583	8.95765	1.1838283	4.1331	1.51404	5.42125	10.03011
11:18:31				584	8.94393	1.1872061	4.1331	1.51404	5.47009	10.06491
11:18:31				585	8.94197	1.1851153	4.1331	1.51404	5.32357	10.04631
11:18:32				586	8.93314	1.1835074	4.1331	1.51404	5.17705	10.03407
11:18:32				587	8.9351	1.1820585	4.1331	1.51404	5.27473	10.02024
11:18:33				588	8.94491	1.1827025	4.1331	1.51404	5.42125	10.02338
11:18:33				589	8.94883	1.184794	4.1331	1.51404	5.56777	10.04143
11:18:34				590	8.94589	1.1844706	4.1331	1.51404	5.47009	10.0393
11:18:34				591	8.95079	1.1872061	4.1331	1.51404	5.56777	10.06297
11:18:35				592	8.95863	1.1833467	4.1331	1.51404	5.27473	10.02542
11:18:35				593	8.96359	1.1857577	4.1331	1.51404	5.32357	10.0461
11:18:36				594	8.97339	1.1912266	4.1331	1.51404	5.42125	10.0934
11:18:36				595	8.98123	1.1870453	4.1331	1.51404	5.32357	10.05291

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:37				596	8.98221	1.1854363	4.1331	1.51404	5.27473	10.03791
11:18:37				597	8.98515	1.1873667	4.1331	1.51404	5.32357	10.05475
11:18:38				598	8.98613	1.1873667	4.1331	1.51404	5.51893	10.05447
11:18:38				599	8.98711	1.1867238	4.1331	1.56288	5.27473	10.04831
11:18:39				600	8.99103	1.1872059	4.1331	1.51404	5.51893	10.05162
11:18:39				601	8.99103	1.1902611	4.1331	1.51404	5.51893	10.07958
11:18:40				602	8.99103	1.1909047	4.1331	1.51404	5.27473	10.08547
11:18:40				603	8.99299	1.1860811	4.1331	1.51404	5.32357	10.04078
11:18:41				604	8.99299	1.1864024	4.1331	1.51404	5.32357	10.04372
11:18:42				607	8.98723	1.1971532	4.2315	1.51404	5.42125	10.14373
11:18:43				608	8.98625	1.1871818	4.2315	1.4652	5.42125	10.05273
11:18:43				609	8.98429	1.2032657	4.1331	1.51404	5.37241	10.20058
11:18:44				610	8.98429	1.2106672	4.1331	1.51404	5.42125	10.26842
11:18:44				611	8.98919	1.1997272	4.2315	1.4652	5.51893	10.16675
11:18:45				612	8.99017	1.194098	4.2315	1.51404	5.32357	10.11492
11:18:45				613	8.98821	1.2032657	4.2315	1.51404	5.42125	10.19944
11:18:46				614	8.99017	1.1961882	4.1331	1.4652	5.32357	10.13408
11:18:46				615	8.98821	1.1916851	4.1331	1.51404	5.17705	10.09341
11:18:47				616	8.98625	1.1879854	4.1331	1.51404	5.03053	10.0601
11:18:47				617	8.98919	1.1899151	4.1331	1.4652	5.47009	10.07693
11:18:48				618	8.98625	1.1952235	4.2315	1.51404	5.37241	10.12634
11:18:48				619	8.98723	1.1905587	4.2315	1.51404	5.22589	10.08336
11:18:49				620	8.98625	1.1871817	4.1331	1.4652	5.22589	10.05275
11:18:49				621	8.98527	1.187664	4.2315	1.51404	5.61661	10.05742
11:18:50				622	8.98527	1.1884678	4.1331	1.51404	5.22589	10.06479
11:18:50				623	8.98429	1.188307	4.0348	1.51404	5.56777	10.06361
11:18:51				624	8.98723	1.185894	4.1331	1.51404	5.27473	10.04069
11:18:51				625	8.98527	1.1849303	4.1331	1.51404	5.32357	10.03242
11:18:52				626	8.98527	1.2019803	4.1331	1.4652	5.61661	10.18852
11:18:52				627	8.98723	1.1868603	4.1331	1.51404	5.47009	10.04953
11:18:53				628	8.98625	1.1860547	4.2315	1.51404	5.27473	10.04242
11:18:53				629	8.98527	1.1846069	4.2315	1.4652	5.56777	10.02945
11:18:54				630	8.98527	1.183804	4.1331	1.56288	5.66545	10.02212
11:18:54				631	8.98625	1.1820341	4.1331	1.56288	5.76313	10.00565
11:18:55				632	8.98723	1.1801048	4.2315	1.51404	5.66545	9.98772
11:18:55				633	8.98723	1.1812297	4.2315	1.51404	5.32357	9.998
11:18:56				634	8.98723	1.1828387	4.1331	1.51404	5.32357	10.01274
11:18:56				635	8.98821	1.1815528	4.1331	1.51404	5.47009	10.0007
11:18:57				636	8.98331	1.1807485	4.1331	1.51404	5.17705	9.99472
11:18:57				637	8.97841	1.1802652	4.1331	1.51404	4.98168	9.99167
11:18:58				638	8.97645	1.1799423	4.1331	1.51404	5.12821	9.98926
11:18:58				639	8.98135	1.1802652	4.1331	1.51404	5.76313	9.99085
11:18:59				640	8.97939	1.1801048	4.1331	1.51404	5.42125	9.98993
11:18:59				641	8.98135	1.1802652	4.2315	1.51404	4.98168	9.99083
11:19:00				642	8.98331	1.1783348	4.1331	1.51404	5.22589	9.97264

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:00				643	8.98135	1.1789781	4.1331	1.4652	5.32357	9.97907
11:19:01				644	8.98037	1.1796216	4.2315	1.4652	5.17705	9.98522
11:19:01				645	8.98135	1.1789781	4.2315	1.51404	5.12821	9.97906
11:19:02				646	8.98527	1.1788178	4.2315	1.4652	5.42125	9.9765
11:19:02				647	8.98233	1.1788178	4.2315	1.51404	5.51893	9.97732
11:19:03				648	8.98429	1.1781745	4.2315	1.51404	5.51893	9.97089
11:19:03				649	8.98625	1.1793009	4.1331	1.51404	5.37241	9.98065
11:19:04				650	8.99017	1.1780142	4.1331	1.51404	5.37241	9.96779
11:19:04				651	8.99121	1.1765657	4.3299	1.51404	5.51893	9.95423
11:19:05				652	8.98821	1.1752779	4.2315	1.51404	5.51893	9.94331
11:19:05				653	8.98919	1.1765657	4.2315	1.51404	5.17705	9.95481
11:19:06				654	8.99219	1.176083	4.1331	1.51404	4.884	9.94957
11:19:06				655	8.99905	1.1728661	4.1331	1.51404	5.12821	9.91827
11:19:07				656	9.00003	1.1720619	4.1331	1.51404	5.47009	9.91065
11:19:07				657	8.99709	1.172544	4.1331	1.51404	5.17705	9.91587
11:19:08				658	9.00199	1.1728661	4.2315	1.51404	5.37241	9.91743
11:19:08				659	9.00786	1.1743129	4.2315	1.51404	4.98168	9.92902
11:19:09				660	9.00297	1.1736706	4.2315	1.51404	5.42125	9.92451
11:19:09				661	9.00492	1.168685	4.1331	1.51404	5.90965	9.87844
11:19:10				662	9.0108	1.1733483	4.2315	1.51404	5.56777	9.91939
11:19:10				663	9.00884	1.1725439	4.2315	1.4652	5.56777	9.91258
11:19:11				664	9.01178	1.1719019	4.1331	1.51404	5.42125	9.90592
11:19:11				665	9.00786	1.1720619	4.2315	1.51404	5.32357	9.90845
11:19:12				666	9.0108	1.1690068	4.2315	1.4652	5.37241	9.87974
11:19:12				667	9.01276	1.1683633	4.2315	1.51404	5.71429	9.87332
11:19:13				668	9.01472	1.1669148	4.2315	1.51404	5.22589	9.85956
11:19:13				669	9.01668	1.1667551	4.1331	1.51404	5.27473	9.85757
11:19:14				670	9.02255	1.1645029	4.1331	1.51404	5.56777	9.8354
11:19:14				671	9.02451	1.1630562	4.1331	1.56288	5.86081	9.82166
11:19:15				672	9.02647	1.1590344	4.2315	1.51404	5.81197	9.78442
11:19:15				673	9.02941	1.1472935	4.2315	4.3956	5.32357	9.67661
11:19:16				674	9.03926	1.1447209	4.1331	4.00488	5.90965	9.65053
11:19:16				675	9.05394	1.1482587	4.2315	4.49328	5.47009	9.67875
11:19:17				676	9.05688	1.1474543	4.2315	4.83516	5.51893	9.67063
11:19:17				677	9.0559	1.1323376	4.1331	4.3956	5.42125	9.53339
11:19:18				678	9.06373	1.1255829	4.1331	3.95604	5.47009	9.46992
11:19:18				679	9.07156	1.1205989	4.2315	3.51648	5.17705	9.42258
11:19:19				680	9.08134	1.1167398	4.1331	3.02808	5.22589	9.38499
11:19:19				681	9.0902	1.1156145	4.2315	2.14896	5.81197	9.37244
11:19:20				682	9.09314	1.114167	4.2315	2.14896	5.51893	9.35854
11:19:20				683	9.10096	1.1062878	4.1331	2.10012	5.47009	9.2851
11:19:21				684	9.09999	1.0921385	4.2315	1.90476	5.51893	9.15722
11:19:21				685	9.09901	1.0897253	4.2315	1.51404	5.37241	9.13564
11:19:22				686	9.10683	1.0755779	4.2315	1.51404	5.66545	9.00575
11:19:22				687	9.10781	1.068664	4.2315	1.51404	5.42125	8.94306

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:23				688	9.08629	1.0646454	4.2315	1.51404	5.37241	8.91215
11:19:23				689	9.07743	1.0609469	4.2315	1.51404	5.61661	8.88096
11:19:24				690	9.07058	1.0668943	4.2315	1.51404	5.61661	8.93639
11:19:24				691	9.06862	1.0578923	4.2315	1.51404	5.86081	8.85557
11:19:25				692	9.0696	1.0543562	4.2315	1.51404	5.47009	8.8234
11:19:25				693	9.06862	1.0501762	4.2315	1.51404	5.17705	8.78591
11:19:26				694	9.06862	1.0492105	4.1331	1.4652	5.12821	8.77721
11:19:26				695	9.07743	1.0488887	4.2315	1.51404	5.47009	8.77213
11:19:27				696	9.09216	1.0474419	4.1331	1.51404	5.47009	8.75548
11:19:27				697	9.10488	1.0355464	4.1331	1.4652	5.37241	8.64522
11:19:28				698	9.09999	1.0304028	4.2315	1.51404	5.37241	8.60009
11:19:28				699	9.09901	1.030081	4.2315	1.51404	5.47009	8.59743
11:19:29				700	9.09803	1.0162583	4.1331	1.4652	5.32357	8.47335
11:19:29				701	9.09999	1.0188297	4.2315	1.51404	5.12821	8.49599
11:19:30				702	9.10781	1.0111142	4.1331	1.51404	5.12821	8.42482
11:19:30				703	9.10781	0.9990595	4.1331	5.07937	5.17705	8.31661
11:19:31				704	9.10781	0.9799331	4.1331	3.46764	5.22589	8.14516
11:19:31				705	9.11466	0.9503635	4.2315	2.29548	5.22589	7.87919
11:19:32				706	9.11954	0.8664985	4.2315	1.61172	5.22589	7.1325
11:19:32				707	9.11563	0.8880244	4.2315	1.56288	5.51893	7.32408
11:19:33				708	9.10194	0.8639278	4.1331	1.51404	5.51893	7.11326
11:19:33				709	9.08434	0.8321255	4.1331	1.51404	5.42125	6.83549
11:19:34				710	9.05785	0.8236145	4.2315	1.51404	5.42125	6.76538
11:19:34				711	9.05003	0.8436905	4.2315	1.4652	5.32357	6.94432
11:19:35				712	9.051	0.8292356	4.2315	1.51404	5.27473	6.81632
11:19:35				713	9.03926	0.8045034	4.2315	1.51404	5.22589	6.60028
11:19:36				714	9.02059	0.7932639	4.2315	1.4652	5.32357	6.50467
11:19:36				715	9.01668	0.7682145	4.2315	1.51404	5.22589	6.28504
11:19:37				716	9.00982	0.7852346	4.2315	1.51404	5.51893	6.43592
11:19:37				717	9.01276	0.7478256	4.2315	1.51404	5.56777	6.10683
11:19:38				718	9.0108	0.7300053	4.2315	1.51404	5.71429	5.95114
11:19:38				719	9.01276	0.7402792	4.2315	1.51404	6.54457	6.04072
11:19:39				720	9.01472	0.7572982	4.2315	1.51404	6.44689	6.18956
11:19:39				721	9.01276	0.72182	4.2315	1.51404	7.13065	5.87927
11:19:40				722	9.01766	0.6983854	4.2315	1.51404	7.13065	5.67403
11:19:40				723	9.02157	0.6762365	4.2315	1.51404	7.08181	5.48076
11:19:41				724	9.02549	0.6881128	4.2315	1.51404	7.13065	5.58338
11:19:42				727	9.03846	0.6098406	4.2315	1.51404	7.61905	4.90423
11:19:43				728	9.0414	0.5793616	4.1331	1.4652	7.71673	4.64212
11:19:43				729	9.04531	0.5822481	4.2315	1.51404	7.91209	4.66634
11:19:44				730	9.04434	0.5888259	4.2315	1.51404	8.40049	4.72288
11:19:44	11:18:20 @ 10m	10	270	731	9.04727	0.5816074	4.2315	1.4652	8.15629	4.6606
11:19:45	moving toward discharge			732	9.04531	0.5864191	4.2315	1.51404	7.86325	4.7021
11:19:45	estimated 270 degrees			733	9.04629	0.6000543	4.2315	1.56288	7.47253	4.81902
11:19:46				734	9.04434	0.5852966	4.2315	1.51404	7.27717	4.69261

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:46				735	9.04531	0.5840135	4.2315	1.51404	7.61905	4.68148
11:19:47				736	9.04531	0.5899487	4.2315	1.51404	7.52137	4.73238
11:19:47				737	9.04238	0.6051894	4.2315	1.51404	7.52137	4.86369
11:19:48				738	9.04727	0.6321426	4.2315	1.51404	7.42369	5.0952
11:19:48				739	9.05516	0.635031	4.2315	1.4652	7.76557	5.119
11:19:49				740	9.05119	0.6505953	4.2315	1.51404	7.37485	5.25406
11:19:49				741	9.04531	0.690717	4.2315	1.51404	7.57021	5.60292
11:19:50				742	9.0365	0.681087	4.2315	1.4652	7.76557	5.5206
11:19:50				743	9.02084	0.6164183	4.2315	1.51404	7.08181	4.96331
11:19:51				744	9.03748	0.6353528	4.2315	1.51404	7.13065	5.12431
11:19:51				745	9.02476	0.714474	4.2315	1.51404	7.32601	5.81316
11:19:52				746	9.00903	0.7359845	4.2315	1.51404	7.57021	6.00376
11:19:52				747	8.99139	0.6608662	4.2315	1.56288	7.17949	5.35191
11:19:53				748	9.00707	0.6815686	4.2315	1.51404	6.93529	5.52934
11:19:53				749	9.00119	0.7355022	4.2315	1.51404	6.98413	6.00085
11:19:54				750	8.97376	0.7295633	4.2315	1.51404	6.98413	5.95345
11:19:54	11:18:30	9	270	751	8.9639	0.7261917	4.2315	1.51404	6.64225	5.92558
11:19:55				752	8.96586	0.7358245	4.2315	1.51404	6.73993	6.00962
11:19:55				753	8.96788	0.7616726	4.2315	1.4652	6.69109	6.23612
11:19:56				754	8.97474	0.6895933	4.2315	1.51404	6.54457	5.60422
11:19:56				755	8.99139	0.711103	4.2315	1.51404	6.15385	5.78916
11:19:57				756	8.98552	0.7037188	4.2315	1.51404	6.49573	5.72566
11:19:57				757	8.96292	0.6894329	4.2315	1.51404	6.54457	5.60468
11:19:58				758	8.96292	0.6664832	4.2315	1.51404	6.59341	5.40497
11:19:58				759	8.97572	0.669692	4.2315	1.51404	6.78877	5.43091
11:19:59				760	8.96292	0.6841378	4.2315	1.56288	6.78877	5.55855
11:19:59				761	8.96788	0.6574964	4.2315	1.51404	6.73993	5.32619
11:20:00				762	8.98846	0.6884701	4.2315	1.51404	6.59341	5.59229
11:20:00	11:18:36	8	270	763	8.97964	0.6897538	4.2315	1.51404	6.88645	5.60485
11:20:01				764	8.96488	0.6767551	4.2315	1.4652	6.59341	5.49398
11:20:01				765	8.98552	0.6703355	4.2315	1.51404	6.49573	5.43501
11:20:02				766	8.99629	0.65509	4.2315	1.51404	6.59341	5.30109
11:20:02				767	9.03063	0.6465839	4.2315	1.51404	6.59341	5.22237
11:20:03				768	9.05614	0.6539649	4.3299	1.51404	6.64225	5.28247
11:20:03				769	9.04923	0.6602237	4.2315	1.51404	6.64225	5.33769
11:20:04				770	9.03161	0.6799646	4.2315	1.51404	6.69109	5.5116
11:20:04	11:18:40	7	270	771	9.02573	0.6791622	4.2315	1.51404	6.59341	5.50554
11:20:05				772	9.0228	0.6863838	4.2315	1.51404	6.64225	5.56876
11:20:05				773	9.0414	0.6908775	4.2315	1.51404	6.69109	5.60494
11:20:06				774	9.05712	0.6953714	4.2315	1.51404	6.44689	5.64155
11:20:06				775	9.05908	0.7358242	4.2315	1.4652	6.30037	5.99395
11:20:07				776	9.04923	0.7563736	4.2315	1.51404	6.20269	6.17547
11:20:07				777	9.0365	0.748346	4.2315	1.51404	5.95849	6.10733
11:20:08				778	9.02769	0.7530016	4.2315	1.4652	5.90965	6.14964
11:20:08	11:18:44	6	270	779	9.02573	0.7631173	4.2315	1.51404	6.00733	6.2387

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:09				780	9.02084	0.7716275	4.2315	1.51404	5.95849	6.31429
11:20:09				781	9.01692	0.787524	4.2315	1.51404	6.05617	6.4548
11:20:10				782	9.00217	0.7950721	4.2315	1.56288	5.90965	6.52397
11:20:10				783	8.99531	0.7936266	4.2315	1.56288	5.86081	6.51248
11:20:11				784	9.00119	0.7732338	4.0348	1.56288	5.81197	6.33191
11:20:11	11:18:47	5	270	785	9.03553	0.7786924	4.2315	1.51404	5.90965	6.37377
11:20:12				786	9.06006	0.8112915	4.2315	1.4652	5.61661	6.65625
11:20:12				787	9.05614	0.8549786	4.2315	1.51404	5.66545	7.04306
11:20:13				788	9.08061	0.8308846	4.2315	1.51404	5.56777	6.82523
11:20:13				789	9.09332	0.8437352	4.2315	1.4652	5.51893	6.93631
11:20:14				790	9.11294	0.858512	4.2315	1.51404	5.42125	7.06313
11:20:14	11:18:50	4	270	791	9.14527	0.8692744	4.2315	1.51404	5.47009	7.15193
11:20:15				792	9.16481	0.8864641	4.2315	1.51404	5.51893	7.30019
11:20:15				793	9.17947	0.8787526	4.2315	6.15385	5.22589	7.22893
11:20:16				794	9.16677	0.8707216	4.2315	5.51893	5.37241	7.16044
11:20:16				795	9.16774	0.883893	4.2315	3.85836	5.37241	7.27682
11:20:17				796	9.1824	0.8887143	4.2315	4.00488	5.47009	7.31653
11:20:17	11:18:53	3	270	797	9.1824	0.8882324	4.2315	5.61661	5.32357	7.31226
11:20:18				798	9.18826	0.8887143	4.2315	5.95849	5.22589	7.31534
11:20:18				799	9.19809	0.889998	4.2315	5.86081	5.42125	7.32469
11:20:19				800	9.20297	0.8898372	4.2315	6.44689	5.32357	7.32227
11:20:19				801	9.20199	0.8874273	4.2315	6.93529	5.27473	7.30114
11:20:20				802	9.19906	0.8903195	4.2315	6.69109	5.22589	7.32734
11:20:20				803	9.19809	0.8941768	4.2315	6.25153	5.37241	7.3617
11:20:21				804	9.20395	0.8903195	4.2315	5.61661	5.37241	7.32634
11:20:21	11:18:57	2	270	805	9.20688	0.9002803	4.2315	6.05617	5.86081	7.41397
11:20:22				806	9.20785	0.9006031	4.2315	5.76313	5.37241	7.41663
11:20:22				807	9.20395	0.8941768	4.2315	5.17705	5.37241	7.3605
11:20:23				808	9.20785	0.9068676	4.2315	3.32112	5.22589	7.47216
11:20:23				809	9.21371	0.9382018	4.2315	9.23077	5.32357	7.74918
11:20:24				810	9.22152	0.951539	4.2315	14.50549	5.37241	7.86616
11:20:24	11:19:00	0.2	270	811	9.21957	0.9709836	4.3299	9.81685	5.32357	8.03986
11:20:25				812	9.22348	0.9913956	4.2315	8.59585	5.47009	8.22124
11:20:25				813	9.21566	1.0048978	4.2315	6.73993	5.56777	8.34379
11:20:26				814	9.20492	1.0257939	4.2315	5.17705	5.42125	8.53355
11:20:26				815	9.18728	1.0214532	4.2315	1.51404	5.37241	8.49881
11:20:27				816	9.16774	1.0277226	4.2315	1.51404	5.37241	8.55974
11:20:27				817	9.14032	1.0330288	4.2315	1.51404	5.47009	8.614
11:20:28				818	9.12272	1.0224181	4.2315	1.51404	5.42125	8.52283
11:20:28				819	9.11979	1.0433179	4.3299	1.4652	5.17705	8.71155
11:20:29				820	9.11686	1.049427	4.2315	1.51404	5.32357	8.76731
11:20:29				821	9.10708	1.0462101	4.2315	1.51404	5.32357	8.74072
11:20:30				822	9.08648	1.0224183	4.2315	1.4652	5.32357	8.53148
11:20:30				823	9.09332	1.0174356	4.1331	1.51404	5.27473	8.48505
11:20:31				824	9.09332	0.9992724	3.7396	1.56288	5.17705	8.32194

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:31				825	9.14722	0.9626266	3.3461	1.51404	5.07937	7.98159
11:20:32				826	9.16384	0.9499308	3.1493	1.51404	5.07937	7.86464
11:20:32				827	9.16286	0.8580296	2.9526	1.51404	5.37241	7.04916
11:20:33				828	9.14423	0.8072755	2.4606	1.51404	5.42125	6.60547
11:20:33				829	9.14722	0.7303651	2.1655	1.51404	5.90965	5.9318
11:20:34				830	9.157	0.570538	1.8703	1.4652	7.03297	4.55201
11:20:34				831	9.23623	0.4736841	1.4768	1.51404	8.20513	3.72374
11:20:35				832	9.30458	0.4448302	1.1817	1.51404	9.27961	3.47586
11:20:35				833	9.30653	0.428803	1.0833	1.51404	9.18193	3.34245
11:20:36				834	9.33194	0.3818525	0.9849	1.56288	8.74237	2.95238
11:20:36				835	9.4314	0.0242325	0.6898	1.51404	9.42613	0.16529
11:20:37				836	9.49372	0.1781982	0.6898	1.61172	8.05861	1.31253
11:20:37				837	9.51317	0.4145398	0.6898	0	0	3.2058
11:20:38				838	9.53364	0.4211101	0.6898	0	0	3.25806
11:20:38	11:19:24 switch off	0.2	270	839	9.56084	0.2415673	0.6898	0	0	1.80574
11:22:55	11:21:28 switch on	15	270	7	9.56783	0.3647355	1.2801	0	0	2.79359
11:22:56				8	9.57074	0.3663383	1.2801	0	0	2.80641
11:22:56				9	9.57462	0.3668189	1.2801	0	0	2.81002
11:22:57				10	9.57851	0.3671388	1.2801	0	0	2.81232
11:22:57				11	9.57559	0.3677804	1.2801	0	0	2.81777
11:22:58				12	9.5688	0.3684208	1.3784	0	0	2.82351
11:22:58				13	9.55999	0.368902	1.3784	0	0	2.82811
11:22:59				14	9.55805	0.3698633	1.3784	0	0	2.8361
11:22:59				15	9.55416	0.3706641	1.3784	0	0	2.84293
11:23:00				16	9.54736	0.3708237	1.3784	0	0	2.84477
11:23:00				17	9.54153	0.3713041	1.3784	0	0	2.84914
11:23:01				18	9.53765	0.3722654	1.3784	0	0	2.85729
11:23:01				19	9.53862	0.3722654	1.2801	0	0	2.85722
11:23:02				20	9.55416	0.3677805	1.3784	0	0	2.81943
11:23:02				21	9.55611	0.3700228	1.2801	0	0	2.83756
11:23:03				22	9.54931	0.3681006	1.3784	0	0	2.82242
11:23:03				23	9.55319	0.3676196	1.3784	0	0	2.8182
11:23:04				24	9.55222	0.3684208	1.3784	0	0	2.8248
11:23:04				25	9.54931	0.3693818	1.3784	0	0	2.83286
11:23:05				26	9.55319	0.3692224	1.3784	0	0	2.83126
11:23:05				27	9.54736	0.3692224	1.4768	0	0	2.83171
11:23:06				28	9.52113	0.3693819	1.3784	0	0	2.83507
11:23:06				29	9.46655	0.3693819	1.4768	0	0	2.83936
11:23:07				30	9.46072	0.370184	1.4768	0	0	2.84637
11:23:07				31	9.47829	0.371946	1.3784	0	0	2.85938
11:23:08				32	9.48898	0.3791562	1.4768	0	0	2.91746
11:23:08				33	9.48898	0.3833213	1.3784	0	0	2.95155
11:23:09				34	9.47142	0.3828418	1.3784	0	0	2.94906
11:23:09				35	9.46461	0.3828418	1.3784	0	0	2.94962

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:10				36	9.4685	0.3860463	1.4768	0	0	2.97555
11:23:10				37	9.47433	0.3855645	1.3784	0	0	2.97113
11:23:11				38	9.48218	0.3818802	1.4768	0	0	2.94031
11:23:11				39	9.48898	0.3813996	1.4768	0	0	2.93582
11:23:12				40	9.49287	0.3847637	1.4768	0	0	2.96304
11:23:12				41	9.50357	0.3839634	1.4768	0	0	2.95561
11:23:13				42	9.5094	0.3838024	1.3784	0	0	2.95382
11:23:13				43	9.50648	0.3846042	1.4768	0	0	2.96062
11:23:14				44	9.50065	0.3817194	1.4768	0	0	2.93749
11:23:14				45	9.50162	0.3809176	1.4768	0	0	2.93085
11:23:15				46	9.50357	0.3838024	1.3784	0	0	2.9543
11:23:15				47	9.50551	0.3836415	1.4768	0	0	2.95282
11:23:16				48	9.49773	0.3817194	1.4768	0	0	2.93772
11:23:16				49	9.48704	0.3809176	1.4768	0	0	2.93203
11:23:17				50	9.47829	0.3815587	1.4768	0	0	2.93799
11:23:17				51	9.4812	0.3833213	1.4768	0	0	2.95218
11:23:18				52	9.48218	0.3812389	1.4768	0	0	2.93506
11:23:18				53	9.48315	0.3818802	1.4768	0	0	2.94023
11:23:19				54	9.4812	0.3820394	1.4768	0	0	2.94169
11:23:19				55	9.48315	0.3812389	1.4768	0	0	2.93498
11:23:20				56	9.47926	0.3809176	1.4768	0	0	2.93267
11:23:20				57	9.48218	0.3820394	1.4768	0	0	2.94161
11:23:21				58	9.48412	0.3818802	1.4768	0	0	2.94015
11:23:21				59	9.47731	0.3807585	1.4768	0	0	2.93152
11:23:22				60	9.47433	0.3809176	1.4768	0	0	2.93307
11:23:22				61	9.47336	0.3813996	1.4768	0	0	2.93709
11:23:23				62	9.47731	0.3820394	1.4768	0	0	2.94201
11:23:23				63	9.47926	0.3815587	1.3784	0	0	2.93792
11:23:24				64	9.48023	0.3810782	1.4768	0	0	2.9339
11:23:24				65	9.47926	0.3813996	1.4768	0	0	2.93661
11:23:25				66	9.48023	0.3812389	1.3784	0	0	2.93522
11:23:25				67	9.47634	0.3807585	1.4768	0	0	2.9316
11:23:26				68	9.47433	0.3805979	1.4768	0	0	2.93045
11:23:26				69	9.47044	0.3813996	1.4768	0	0	2.93733
11:23:27				70	9.47142	0.3823609	1.4768	0	0	2.94512
11:23:27				71	9.46558	0.3813996	1.3784	0	0	2.93773
11:23:28				72	9.46655	0.3812389	1.4768	0	0	2.93633
11:23:28				73	9.4685	0.3812389	1.4768	0	0	2.93617
11:23:29				74	9.46558	0.3807585	1.4768	0	0	2.93247
11:23:29				75	9.46461	0.3810783	1.4768	0	0	2.93517
11:23:30				76	9.4685	0.3812389	1.3784	0	0	2.93618
11:23:30				77	9.47044	0.3810782	1.4768	0	0	2.9347
11:23:31				78	9.46947	0.3818802	1.3784	0	0	2.94135
11:23:31				79	9.47142	0.382681	1.4768	0	0	2.94774
11:23:32				80	9.4685	0.3809176	1.4768	0	0	2.93354

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:32				81	9.46947	0.3805979	1.4768	0	0	2.93084
11:23:33				82	9.46558	0.3825202	1.4768	0	0	2.9469
11:23:33				83	9.47731	0.3838025	1.4768	0	0	2.95644
11:23:34				84	9.48218	0.3817194	1.4768	0	0	2.93899
11:23:34				85	9.47634	0.3820394	1.4768	0	0	2.94209
11:23:35				86	9.47142	0.3828418	1.4768	0	0	2.94906
11:23:35				87	9.46558	0.3805979	1.4768	0	0	2.93116
11:23:36				88	9.45099	0.3804373	1.4768	0	0	2.93103
11:23:36				89	9.45099	0.3849248	1.4768	0	0	2.9678
11:23:37				90	9.45488	0.386206	1.4768	0	0	2.97798
11:23:37				91	9.45001	0.3810783	1.4768	0	0	2.93636
11:23:38				92	9.4471	0.3799572	1.4768	0	0	2.92741
11:23:38				93	9.4471	0.3828419	1.4768	0	0	2.95105
11:23:39				94	9.44807	0.3857256	1.4768	0	0	2.97461
11:23:39				95	9.45488	0.38861	1.4768	0	0	2.9977
11:23:40				96	9.4578	0.3964616	1.4768	0.68376	0.34188	3.06191
11:23:40				97	9.4471	0.396301	1.4768	0.39072	0.14652	3.0615
11:23:41				98	9.44904	0.4004677	1.4768	1.51404	1.02564	3.09558
11:23:41				99	9.44223	0.4007883	1.4768	1.51404	1.02564	3.09881
11:23:42				100	9.43834	0.3964617	1.4768	1.4652	9.03541	3.06356
11:23:42				101	9.44223	0.3996657	1.4768	1.51404	9.32845	3.08957
11:23:43				102	9.43639	0.3993453	1.4768	1.4652	9.32845	3.08744
11:23:43				103	9.43736	0.3959813	1.4768	1.51404	9.37729	3.0597
11:23:44				104	9.43639	0.3967815	1.4768	1.51404	10.15873	3.06636
11:23:44				105	9.43834	0.3995063	1.4768	1.51404	9.47497	3.0886
11:23:45				106	9.44028	0.3995063	1.4768	1.51404	9.23077	3.08843
11:23:45				107	9.43736	0.4025504	1.4768	1.4652	9.08425	3.11372
11:23:46				108	9.43347	0.4055956	1.4768	1.51404	9.86569	3.13913
11:23:46				109	9.42757	0.41457	1.4768	1.4652	9.71917	3.21362
11:23:47				110	9.41686	0.4139297	1.4768	1.51404	9.27961	3.20929
11:23:47				111	9.40518	0.4120055	1.4768	1.51404	9.08425	3.19446
11:23:48				112	9.40421	0.4108846	1.4768	1.4652	9.23077	3.18529
11:23:48				113	9.38863	0.4102426	1.4768	1.51404	9.37729	3.18137
11:23:49				114	9.38467	0.4112041	1.4768	1.51404	9.27961	3.18966
11:23:49				115	9.38467	0.4126467	1.4768	1.51404	9.03541	3.20157
11:23:50				116	9.3837	0.4118465	1.3784	1.51404	9.23077	3.19505
11:23:50				117	9.3896	0.4132881	1.4768	1.4652	9.42613	3.20643
11:23:51				118	9.38668	0.4139297	1.4768	1.4652	9.18193	3.21199
11:23:51				119	9.38863	0.4118465	1.4768	1.51404	9.37729	3.19461
11:23:52				120	9.38668	0.40848	1.4768	1.51404	9.32845	3.167
11:23:52				121	9.39934	0.4073583	1.4768	1.51404	9.37729	3.15664
11:23:53				122	9.40226	0.4076787	1.4768	1.51404	9.27961	3.15902
11:23:53				123	9.40129	0.4025504	1.3784	1.51404	9.18193	3.11685
11:23:54				124	9.41686	0.3938978	1.4768	1.4652	9.67033	3.04431
11:23:55				127	9.42745	0.4031518	1.4768	1.4652	8.88889	3.11953

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:56				128	9.41869	0.402671	1.4768	1.4652	9.08425	3.11633
11:23:56				129	9.41674	0.4055548	1.3784	1.51404	9.47497	3.14026
11:23:57				130	9.41772	0.4037925	1.4768	1.51404	9.32845	3.12565
11:23:57				131	9.41772	0.4058748	1.4768	1.51404	9.42613	3.1428
11:23:58				132	9.41382	0.4049133	1.4768	1.51404	9.37729	3.13522
11:23:58				133	9.41674	0.4047534	1.4768	1.51404	9.37729	3.13365
11:23:59				134	9.41674	0.4060349	1.4768	1.51404	9.08425	3.14421
11:23:59				135	9.41772	0.4028307	1.4768	1.51404	9.91453	3.11773
11:24:00				136	9.41772	0.4021903	1.4768	1.51404	9.52381	3.11246
11:24:00				137	9.42453	0.4017098	1.4768	1.51404	9.03541	3.10791
11:24:01				138	9.44016	0.400427	1.4768	1.51404	9.13309	3.09601
11:24:01				139	9.44989	0.3977038	1.4768	1.51404	9.57265	3.07279
11:24:02				140	9.446	0.3989859	1.4768	1.51404	9.23077	3.08366
11:24:02				141	9.44795	0.3965818	1.4768	1.4652	9.03541	3.06373
11:24:03				142	9.45184	0.3935381	1.4768	1.4652	9.27961	3.0384
11:24:03				143	9.46254	0.3919351	1.4768	1.4652	9.13309	3.02434
11:24:04				144	9.4674	0.3860076	1.4768	1.4652	9.13309	2.97533
11:24:04				145	9.47719	0.3781567	1.4768	1.51404	8.98657	2.91024
11:24:05				146	9.48789	0.3836044	1.4768	1.51404	9.03541	2.95396
11:24:05				147	9.49664	0.3820023	1.4768	1.51404	9.27961	2.94013
11:24:06				148	9.49664	0.3804002	1.4768	1.51404	9.27961	2.92702
11:24:06				149	9.5015	0.3773551	1.4768	1.51404	9.08425	2.90173
11:24:07				150	9.49567	0.3776757	1.4768	1.4652	9.27961	2.90482
11:24:07				151	9.50345	0.3781567	1.4768	1.51404	9.23077	2.90812
11:24:08				152	9.50442	0.3791176	1.4768	1.51404	9.18193	2.9159
11:24:08				153	9.50053	0.3787967	1.3784	1.51404	9.13309	2.9136
11:24:09				154	9.49859	0.3791176	1.4768	1.51404	9.32845	2.91637
11:24:09				155	9.49761	0.3794385	1.4768	1.51404	9.08425	2.91908
11:24:10				156	9.49859	0.3812003	1.4768	1.51404	9.08425	2.93341
11:24:10				157	9.49567	0.3890509	1.4768	1.51404	9.08425	2.99793
11:24:11				158	9.49081	0.3965817	1.4768	1.51404	9.08425	3.06009
11:24:11				159	9.47816	0.3928967	1.4768	1.51404	9.37729	3.03092
11:24:12				160	9.47914	0.3880901	1.4768	1.51404	8.98657	2.99142
11:24:12				161	9.47421	0.3869687	1.4768	1.51404	9.18193	2.98264
11:24:13				162	9.47421	0.3903323	1.4768	1.51404	8.98657	3.01022
11:24:13				163	9.4713	0.3903323	1.4768	1.51404	9.18193	3.01046
11:24:14				164	9.47227	0.3887311	1.4768	1.51404	9.76801	2.99725
11:24:14				165	9.47227	0.3837638	1.4768	1.51404	9.03541	2.95654
11:24:15				166	9.48011	0.3884098	1.4768	1.51404	9.18193	2.99396
11:24:15				167	9.48011	0.3877689	1.4768	1.51404	9.42613	2.98871
11:24:16				168	9.48108	0.3858464	1.4768	1.51404	8.93773	2.97288
11:24:16				169	9.48011	0.3882499	1.4768	1.51404	9.08425	2.99265
11:24:17				170	9.47421	0.3911343	1.4768	1.51404	9.32845	3.01679
11:24:17				171	9.46643	0.3904939	1.4768	1.51404	9.91453	3.01219
11:24:18				172	9.46449	0.3818416	1.4768	1.51404	9.37729	2.94143

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:18				173	9.46546	0.3901723	1.4768	1.51404	8.93773	3.00963
11:24:19				174	9.4674	0.3872881	1.4768	1.51404	9.32845	2.98582
11:24:19	11:22:55 start transect	15	270	175	9.46935	0.3768744	1.4768	1.51404	9.76801	2.90038
11:24:20				176	9.47519	0.3840841	1.4768	1.51404	9.47497	2.95893
11:24:20				177	9.47616	0.3791176	1.4768	1.51404	9.37729	2.91819
11:24:21				178	9.48108	0.376554	1.4768	1.51404	9.23077	2.89682
11:24:21				179	9.48205	0.376554	1.3784	1.51404	9.03541	2.89675
11:24:22				180	9.48983	0.3630978	1.4768	1.4652	9.23077	2.78626
11:24:22				181	9.49956	0.3576517	1.4768	1.51404	9.32845	2.74115
11:24:23				182	9.51997	0.3602146	1.4768	1.51404	9.47497	2.76046
11:24:23				183	9.53461	0.3630978	1.4768	1.51404	8.98657	2.78281
11:24:24				184	9.5385	0.3603746	1.4768	1.51404	9.18193	2.76034
11:24:24				185	9.53655	0.3578114	1.4768	1.51404	8.93773	2.73964
11:24:25				186	9.54627	0.3544477	1.4768	1.51404	9.32845	2.71156
11:24:25				187	9.54238	0.3518839	1.3784	1.51404	9.13309	2.69103
11:24:26				188	9.5453	0.3525252	1.4768	1.4652	8.93773	2.69602
11:24:26				189	9.55113	0.3510838	1.4768	1.4652	9.08425	2.68388
11:24:27				190	9.54238	0.3459583	1.4768	1.4652	9.03541	2.64294
11:24:27				191	9.52781	0.3473994	1.4768	1.51404	9.23077	2.6557
11:24:28				192	9.52289	0.3473994	1.4768	1.51404	9.23077	2.65606
11:24:28				193	9.52975	0.3462785	1.3784	1.51404	9.27961	2.64646
11:24:29				194	9.519	0.3478801	1.3784	1.51404	9.18193	2.66025
11:24:29				195	9.49664	0.3435552	1.4768	1.51404	9.23077	2.62677
11:24:30				196	9.50247	0.3408324	1.4768	1.51404	9.27961	2.60426
11:24:30				197	9.50928	0.3374688	1.4768	1.51404	9.37729	2.5765
11:24:31				198	9.52289	0.3365083	1.4768	1.56288	9.23077	2.56775
11:24:31				199	9.53655	0.3352262	1.4768	1.51404	9.32845	2.5564
11:24:32				200	9.53753	0.3368279	1.3784	1.51404	9.27961	2.5693
11:24:32				201	9.54821	0.3344259	1.4768	1.51404	9.37729	2.5491
11:24:33				202	9.55599	0.3344259	1.4768	1.51404	9.32845	2.54856
11:24:33				203	9.56861	0.3326637	1.4768	1.51404	9.23077	2.53342
11:24:34				204	9.59198	0.3320234	1.4768	1.4652	9.42613	2.52662
11:24:34				205	9.58227	0.3352261	1.4768	1.4652	8.88889	2.55317
11:24:35				206	9.56084	0.3349069	1.4768	1.51404	9.23077	2.5521
11:24:35				207	9.5589	0.3350658	1.4768	1.51404	8.98657	2.55353
11:24:36				208	9.56279	0.3376294	1.4768	1.51404	8.93773	2.57399
11:24:36				209	9.5589	0.3363478	1.4768	1.51404	9.03541	2.5639
11:24:37				210	9.57347	0.3345862	1.4768	1.51404	9.32845	2.54862
11:24:37				211	9.57153	0.3361873	1.4768	1.51404	9.13309	2.5617
11:24:38				212	9.54141	0.3368279	1.4768	1.51404	10.20757	2.56902
11:24:38				213	9.53267	0.3357074	1.4768	1.51404	9.13309	2.56057
11:24:39				214	9.53072	0.3357074	1.4768	1.51404	9.13309	2.56071
11:24:39				215	9.52781	0.3387499	1.4768	1.51404	9.47497	2.58556
11:24:40				216	9.5122	0.3506036	1.4768	1.4652	9.52381	2.68287
11:24:40				217	9.5015	0.3491611	1.4768	1.51404	9.71917	2.67194

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:41				218	9.49859	0.343715	1.4768	1.51404	9.42613	2.62793
11:24:41				219	9.50345	0.3403525	1.4768	1.4652	9.37729	2.6003
11:24:42				220	9.5015	0.339551	1.4768	1.51404	9.23077	2.59394
11:24:42				221	9.49859	0.342755	1.4768	1.56288	9.42613	2.62014
11:24:43				222	9.49664	0.339551	1.4768	1.51404	9.42613	2.59429
11:24:43				223	9.50053	0.3353866	1.4768	1.51404	9.71917	2.56025
11:24:44				224	9.50636	0.33907	1.4768	1.51404	9.62149	2.58969
11:24:44				225	9.50345	0.3417941	1.4768	1.4652	9.37729	2.61199
11:24:45				226	9.49859	0.336828	1.4768	1.4652	9.23077	2.57207
11:24:45				227	9.50636	0.334907	1.4768	1.51404	9.32845	2.55595
11:24:46				228	9.5122	0.334426	1.4768	1.4652	9.47497	2.55165
11:24:46				229	9.51025	0.3334645	1.4768	1.51404	9.47497	2.544
11:24:47				230	9.50928	0.3358679	1.4768	1.56288	9.86569	2.56353
11:24:47				231	9.51025	0.3334645	1.4768	1.51404	9.86569	2.544
11:24:48				232	9.51803	0.3333043	1.4768	1.51404	9.37729	2.54216
11:24:48				233	9.519	0.3353866	1.4768	1.51404	9.47497	2.55894
11:24:49				234	9.51706	0.3430744	1.4768	1.4652	9.42613	2.62139
11:24:49				235	9.49761	0.3482006	1.4768	1.51404	9.23077	2.66443
11:24:50				236	9.49664	0.3365084	1.4768	1.51404	9.52381	2.56962
11:24:50				237	9.5015	0.33811	1.4768	1.51404	9.47497	2.58225
11:24:51				238	9.50442	0.3501221	1.4768	1.56288	9.86569	2.67954
11:24:51				239	9.47421	0.3618158	1.4768	1.4652	9.57265	2.77701
11:24:52				240	9.44405	0.3542868	1.4768	1.56288	9.52381	2.71794
11:24:52				241	9.46351	0.3464386	1.4768	1.4652	9.42613	2.65262
11:24:53				242	9.47227	0.3549276	1.4768	1.4652	9.62149	2.72103
11:24:53				243	9.45962	0.3630979	1.4768	1.51404	9.13309	2.78859
11:24:54				244	9.43335	0.372069	1.4768	1.51404	9.47497	2.86395
11:24:55				247	9.41559	0.3779872	1.4768	1.51404	9.81685	2.91383
11:24:56				248	9.37664	0.3818324	1.4768	1.4652	9.91453	2.94853
11:24:56				249	9.37177	0.3752639	1.4768	1.4652	9.52381	2.89503
11:24:57				250	9.38638	0.3747822	1.4768	1.51404	10.10989	2.88991
11:24:57				251	9.39027	0.3786272	1.4768	1.51404	9.76801	2.92112
11:24:58				252	9.37761	0.3837546	1.4768	1.51404	9.71917	2.96424
11:24:58				253	9.38151	0.3757441	1.4768	1.4652	9.71917	2.89819
11:24:59				254	9.39611	0.3757441	1.4768	1.51404	9.76801	2.89701
11:24:59				255	9.38443	0.3791085	1.4768	1.4652	9.91453	2.92554
11:25:00				256	9.35904	0.3856762	1.3784	1.51404	10.01221	2.98156
11:25:00				257	9.34735	0.380229	1.4768	1.4652	9.91453	2.93776
11:25:01				258	9.35709	0.377346	1.4768	1.51404	9.71917	2.9133
11:25:01				259	9.35514	0.3855166	1.4768	1.51404	10.25641	2.98057
11:25:02				260	9.34345	0.3900031	1.4768	1.51404	10.15873	3.01845
11:25:02				261	9.32785	0.3867983	1.4768	1.4652	9.86569	2.99338
11:25:03				262	9.33565	0.381511	1.4768	1.4652	9.76801	2.94925
11:25:03				263	9.33565	0.381511	1.4768	1.51404	10.01221	2.94925
11:25:04				264	9.33175	0.3816717	1.4768	1.51404	10.20757	2.95089

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:04				265	9.33468	0.3775063	1.4768	1.51404	9.96337	2.91643
11:25:05				266	9.33955	0.3746223	1.4768	1.51404	9.86569	2.89236
11:25:05				267	9.36196	0.3696565	1.4768	1.4652	9.96337	2.84986
11:25:06				268	9.38345	0.3688547	1.4768	1.51404	9.81685	2.84159
11:25:06				269	9.39904	0.3666125	1.4768	1.51404	10.64713	2.82202
11:25:07				270	9.4039	0.3640495	1.4768	1.51404	9.81685	2.80068
11:25:07				271	9.41461	0.3622873	1.4768	1.51404	9.57265	2.78546
11:25:08				272	9.42733	0.3624476	1.4768	1.51404	9.76801	2.78578
11:25:08				273	9.43511	0.3621271	1.4768	1.4652	10.01221	2.78256
11:25:09				274	9.44193	0.3561994	1.4768	1.51404	9.76801	2.73369
11:25:09				275	9.45652	0.3485122	1.4768	1.51404	9.81685	2.67
11:25:10				276	9.47215	0.3465896	1.4768	1.51404	9.96337	2.65321
11:25:10				277	9.48479	0.3401825	1.4768	1.4652	9.76801	2.60026
11:25:11				278	9.50326	0.3403435	1.4768	1.51404	9.47497	2.60024
11:25:11				279	9.51299	0.3337759	1.4768	1.4652	9.52381	2.54633
11:25:12				280	9.53443	0.3358589	1.4768	1.51404	9.52381	2.56167
11:25:12				281	9.55969	0.344668	1.4768	1.51404	9.47497	2.63121
11:25:13				282	9.55289	0.3650107	1.4768	1.51404	9.62149	2.79697
11:25:13				283	9.549	0.3493123	1.4768	1.51404	9.47497	2.66966
11:25:14				284	9.56163	0.3521961	1.4768	1.4652	9.27961	2.69213
11:25:14				285	9.54609	0.3710985	1.4768	1.51404	9.47497	2.8471
11:25:15				286	9.48382	0.3731797	1.4768	1.51404	9.57265	2.86902
11:25:15				287	9.50715	0.3763845	1.4768	1.51404	9.47497	2.89334
11:25:16				288	9.53832	0.3739822	1.4768	1.51404	9.47497	2.87124
11:25:16				289	9.4809	0.381191	1.4768	1.4652	9.67033	2.93477
11:25:17				290	9.42441	0.3727003	1.4768	1.51404	9.62149	2.86982
11:25:17				291	9.43414	0.3619669	1.4768	1.4652	9.62149	2.78133
11:25:18				292	9.45555	0.3672538	1.4768	1.51404	9.37729	2.82284
11:25:18				293	9.44582	0.3731798	1.4768	1.51404	10.01221	2.87204
11:25:19				294	9.42733	0.359884	1.4768	1.4652	9.37729	2.76485
11:25:19				295	9.43025	0.3584432	1.4768	1.51404	9.37729	2.75287
11:25:20				296	9.46826	0.3656515	1.3784	1.51404	9.13309	2.80877
11:25:20				297	9.47895	0.3690155	1.4768	1.51404	9.52381	2.83539
11:25:21				298	9.47993	0.3619668	1.4768	1.51404	9.42613	2.7778
11:25:21				299	9.48868	0.3517157	1.4768	1.4652	9.47497	2.69366
11:25:22				300	9.49646	0.3680547	1.4768	1.51404	9.42613	2.82617
11:25:22				301	9.48284	0.3651713	1.4768	1.51404	9.57265	2.80371
11:25:23				302	9.48382	0.3635682	1.4768	1.51404	9.71917	2.79056
11:25:23				303	9.4916	0.3555595	1.4768	1.56288	9.76801	2.72472
11:25:24				304	9.50229	0.3693359	1.4768	1.4652	9.37729	2.83617
11:25:24				305	9.46923	0.365491	1.4768	1.51404	9.62149	2.80738
11:25:25				306	9.45263	0.3614863	1.4768	1.51404	9.37729	2.77599
11:25:25				307	9.45944	0.3640495	1.4768	1.4652	9.37729	2.79637
11:25:26				308	9.45166	0.3727003	1.4768	1.51404	9.62149	2.86766
11:25:26				309	9.43706	0.3795883	1.4768	1.4652	9.52381	2.92521

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:27				310	9.45944	0.3773459	1.4768	1.51404	9.96337	2.90504
11:25:27				311	9.46826	0.3743021	1.4768	1.51404	9.37729	2.87943
11:25:28				312	9.43317	0.3794278	1.4768	1.51404	9.62149	2.92421
11:25:28				313	9.4039	0.3792689	1.4768	1.4652	9.52381	2.92528
11:25:29				314	9.37761	0.3823116	1.4768	1.51404	9.71917	2.95239
11:25:29				315	9.38053	0.3866385	1.4768	1.51404	9.52381	2.98769
11:25:30				316	9.37664	0.3786272	1.4768	1.51404	10.10989	2.92223
11:25:30				317	9.38053	0.3685344	1.4768	1.56288	10.10989	2.8392
11:25:31				318	9.39709	0.3722195	1.4768	1.4652	9.81685	2.86806
11:25:31				319	9.4078	0.3632491	1.4768	1.4652	10.06105	2.79384
11:25:32				320	9.41072	0.3650109	1.4768	1.51404	9.81685	2.80801
11:25:32				321	9.40682	0.3680548	1.4768	1.51404	10.06105	2.83321
11:25:33				322	9.40001	0.3672539	1.4768	1.4652	10.06105	2.82719
11:25:33				323	9.43414	0.3632491	1.4768	1.51404	9.81685	2.7918
11:25:34				324	9.45068	0.3646898	1.4768	1.51404	9.86569	2.80228
11:25:34				325	9.43609	0.3710986	1.4768	1.51404	9.81685	2.85579
11:25:35				326	9.41759	0.3606857	1.4768	1.51404	9.86569	2.77215
11:25:35				327	9.4283	0.3525162	1.4768	1.4652	9.86569	2.7047
11:25:36				328	9.44193	0.358603	1.3784	1.51404	9.91453	2.75329
11:25:36	11:24:12 @ 6:00	15	180	329	9.46631	0.3699769	1.4768	1.51404	9.96337	2.84424
11:25:37				330	9.43317	0.3557192	1.4768	1.51404	9.71917	2.73044
11:25:37				331	9.46333	0.349152	1.4768	1.4652	9.67033	2.6747
11:25:38				332	9.49451	0.359404	1.4768	1.4652	9.86569	2.7558
11:25:38				333	9.49257	0.362127	1.4768	1.51404	9.81685	2.77814
11:25:39				334	9.47117	0.3592441	1.4768	1.51404	9.57265	2.75628
11:25:39				335	9.49062	0.354759	1.4768	1.4652	10.06105	2.71828
11:25:40				336	9.49257	0.3510747	1.3784	1.51404	9.76801	2.68817
11:25:40				337	9.48284	0.3469099	1.4768	1.51404	9.76801	2.65503
11:25:41				338	9.48576	0.3513944	1.4768	1.4652	9.91453	2.69127
11:25:41				339	9.48673	0.3565201	1.4768	1.51404	9.67033	2.73291
11:25:42				340	9.47701	0.359404	1.4768	1.51404	9.86569	2.75714
11:25:42				341	9.45166	0.3590842	1.4768	1.51404	9.67033	2.75647
11:25:43				342	9.4429	0.360044	1.4768	1.51404	9.96337	2.76497
11:25:43				343	9.43317	0.3629284	1.4768	1.51404	9.76801	2.78926
11:25:44				344	9.41267	0.3682141	1.4768	1.51404	10.06105	2.83405
11:25:44				345	9.40682	0.3659713	1.4768	1.51404	9.96337	2.81617
11:25:45				346	9.41559	0.37302	1.4768	1.51404	9.86569	2.87314
11:25:45				347	9.40293	0.3794278	1.4768	1.51404	10.01221	2.92666
11:25:46				348	9.39319	0.375584	1.4768	1.4652	9.81685	2.89594
11:25:46				349	9.39222	0.3643704	1.4768	1.51404	9.52381	2.80422
11:25:47				350	9.39514	0.3664518	1.4768	1.51404	10.15873	2.82101
11:25:47				351	9.40293	0.3682141	1.4768	1.51404	9.91453	2.83482
11:25:48				352	9.40682	0.3677332	1.5752	1.4652	10.01221	2.83057
11:25:48				353	9.40682	0.3682141	1.4768	1.4652	9.81685	2.83451
11:25:49				354	9.4078	0.3662926	1.4768	1.51404	10.06105	2.81872

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:25:49				355	9.40877	0.366132	1.4768	1.51404	9.91453	2.81733
11:25:50				356	9.41662	0.3606857	1.4768	1.51404	9.96337	2.77222
11:25:50				357	9.42538	0.3629284	1.4768	1.51404	9.81685	2.78986
11:25:51				358	9.42441	0.3715791	1.4768	1.51404	9.81685	2.86065
11:25:51				359	9.39806	0.3675739	1.4768	1.51404	10.10989	2.82996
11:25:52				360	9.40196	0.3638891	1.4768	1.51404	10.06105	2.79952
11:25:52				361	9.41461	0.3710986	1.4768	1.51404	9.62149	2.85749
11:25:53				362	9.39806	0.385357	1.4768	1.51404	10.35409	2.97571
11:25:53				363	9.38345	0.3794279	1.4768	1.51404	9.76801	2.92824
11:25:54				364	9.39806	0.3754239	1.4768	1.51404	9.71917	2.89423
11:25:55				367	9.36982	0.3751069	1.4768	1.4652	9.81685	2.8939
11:25:56				368	9.37469	0.3789527	1.4768	1.51404	10.15873	2.92506
11:25:56				369	9.37371	0.3735057	1.4768	1.51404	9.76801	2.88046
11:25:57				370	9.36982	0.3714226	1.4768	1.51404	9.81685	2.8637
11:25:57				371	9.37469	0.3786318	1.5752	1.4652	9.96337	2.92242
11:25:58				372	9.38151	0.3752685	1.4768	1.51404	10.06105	2.89429
11:25:58				373	9.38151	0.379914	1.4768	1.51404	10.06105	2.93239
11:25:59				374	9.37956	0.3815156	1.4768	1.51404	9.67033	2.94569
11:25:59				375	9.37079	0.3802336	1.4768	1.4652	10.35409	2.93589
11:26:00				376	9.37079	0.3771904	1.4768	1.51404	10.06105	2.91091
11:26:00				377	9.37664	0.3778315	1.3784	1.51404	9.86569	2.91571
11:26:01				378	9.37371	0.3763893	1.4768	1.51404	10.10989	2.90411
11:26:01				379	9.38151	0.376069	1.4768	1.4652	9.81685	2.90085
11:26:02				380	9.37956	0.3751069	1.4768	1.4652	10.06105	2.89312
11:26:02				381	9.37371	0.3746268	1.4768	1.51404	9.86569	2.88965
11:26:03				382	9.37469	0.3725437	1.4768	1.51404	9.42613	2.8725
11:26:03				383	9.37371	0.3719032	1.4768	1.51404	9.81685	2.86733
11:26:04				384	9.37664	0.3654957	1.4768	1.51404	10.40293	2.81463
11:26:04				385	9.38151	0.3624522	1.4768	1.51404	9.91453	2.78936
11:26:05				386	9.38443	0.3618113	1.4768	1.4652	9.96337	2.7839
11:26:05				387	9.3893	0.3600486	1.4768	1.51404	10.45177	2.76912
11:26:06				388	9.39124	0.3565248	1.4768	1.51404	10.35409	2.74019
11:26:06				389	9.39812	0.3502782	1.4768	1.51404	10.25641	2.68872
11:26:07				390	9.40689	0.3509188	1.4768	1.4652	9.81685	2.69328
11:26:07				391	9.40494	0.3504387	1.4768	1.51404	10.54945	2.68951
11:26:08				392	9.41175	0.3478756	1.4768	1.51404	9.67033	2.66813
11:26:08				393	9.42246	0.3491566	1.4768	1.51404	9.71917	2.67777
11:26:09				394	9.42441	0.3488359	1.4768	1.51404	10.20757	2.67501
11:26:09				395	9.43414	0.3515597	1.4768	1.51404	9.96337	2.69647
11:26:10				396	9.43803	0.3536418	1.4768	1.51404	9.67033	2.71314
11:26:10				397	9.43706	0.3502782	1.4768	1.4652	9.67033	2.68581
11:26:11				398	9.44393	0.3515596	1.4768	1.51404	9.86569	2.69574
11:26:11				399	9.44588	0.3525207	1.4768	1.51404	9.91453	2.70342
11:26:12				400	9.44685	0.3517188	1.4768	1.51404	10.10989	2.69681
11:26:12				401	9.4488	0.3507582	1.4768	1.51404	10.25641	2.68885

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:26:13				402	9.45172	0.3502781	1.4768	1.4652	9.86569	2.68472
11:26:13				403	9.45464	0.3491566	1.4768	1.51404	10.06105	2.67538
11:26:14				404	9.45561	0.3475551	1.4768	1.4652	9.81685	2.66228
11:26:14				405	9.45853	0.342749	1.4768	1.51404	9.86569	2.623
11:26:15				406	9.46728	0.3355426	1.4768	1.51404	10.79365	2.56388
11:26:15				407	9.46534	0.335703	1.4768	1.51404	9.96337	2.56531
11:26:16				408	9.46923	0.3355426	1.4768	1.4652	9.91453	2.56374
11:26:16				409	9.48284	0.3329795	1.4768	1.51404	9.96337	2.542
11:26:17				410	9.50527	0.3318589	1.4768	1.51404	10.06105	2.53135
11:26:17				411	9.51596	0.3308976	1.4768	1.51404	9.32845	2.52283
11:26:18				412	9.52277	0.3299369	1.4768	1.51404	9.42613	2.51458
11:26:18				413	9.52763	0.3291351	1.4768	1.51404	9.57265	2.50776
11:26:19				414	9.53346	0.3264133	1.4768	1.51404	9.62149	2.48536
11:26:19				415	9.54615	0.324491	1.4768	1.4652	10.10989	2.46897
11:26:20				416	9.56558	0.3241711	1.4768	1.4652	9.62149	2.46506
11:26:20				417	9.57529	0.3252918	1.4768	1.51404	9.71917	2.47344
11:26:21				418	9.58403	0.3248109	1.4768	1.51404	9.08425	2.46897
11:26:21				419	9.58209	0.3235301	1.4768	1.51404	9.23077	2.45877
11:26:22				420	9.58306	0.321769	1.4768	1.51404	9.47497	2.44451
11:26:22				421	9.58403	0.3206481	1.4768	1.51404	9.23077	2.43542
11:26:23				422	9.58889	0.3212878	1.4768	1.4652	9.13309	2.44024
11:26:23				423	9.58986	0.3227302	1.4768	1.51404	9.42613	2.4518
11:26:24				424	9.58986	0.3249717	1.4768	1.51404	9.42613	2.46987
11:26:24				425	9.58889	0.3236907	1.4768	1.4652	9.32845	2.4596
11:26:25				426	9.58403	0.3252918	1.4768	1.51404	9.47497	2.47284
11:26:25				427	9.57918	0.3251325	1.4768	1.51404	9.62149	2.47189
11:26:26				428	9.57529	0.3256119	1.4768	1.51404	9.32845	2.47602
11:26:26				429	9.59283	0.3248109	1.3784	1.51404	9.18193	2.46837
11:26:27				430	9.60642	0.3280144	1.4768	1.51404	9.18193	2.49326
11:26:27				431	9.61128	0.3256119	1.4768	1.51404	9.71917	2.47356
11:26:28				432	9.62098	0.3262523	1.4768	1.4652	9.32845	2.47806
11:26:28				433	9.6268	0.3248109	1.3784	1.51404	8.98657	2.46605
11:26:29				434	9.62778	0.3262523	1.3784	1.51404	9.27961	2.4776
11:26:29				435	9.6336	0.329135	1.3784	1.51404	8.88889	2.50043
11:26:30				436	9.64039	0.3273746	1.4768	1.51404	8.59585	2.48577
11:26:30				437	9.64039	0.3272136	1.4768	1.51404	8.59585	2.48447
11:26:31				438	9.64039	0.328174	1.4768	1.51404	8.93773	2.49221
11:26:31				439	9.64239	0.3289753	1.4768	1.4652	9.03541	2.49853
11:26:32				440	9.64336	0.3283351	1.4768	1.51404	8.79121	2.49331
11:26:32				441	9.64433	0.3284947	1.4768	1.51404	8.64469	2.49452
11:26:33				442	9.64433	0.3288155	1.4768	1.4652	9.13309	2.49711
11:26:33				443	9.64433	0.3278547	1.4768	1.51404	8.98657	2.48937
11:26:34				444	9.6453	0.3273746	1.5752	1.56288	8.69353	2.48543
11:26:34				445	9.64821	0.3276937	1.4768	1.51404	9.27961	2.4878
11:26:35				446	9.65209	0.3264132	1.4768	1.51404	9.03541	2.47723

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:26:35				447	9.64918	0.3260929	1.4768	1.51404	8.93773	2.47485
11:26:36				448	9.655	0.3254525	1.4768	1.51404	9.37729	2.4693
11:26:36				449	9.65694	0.3254525	1.4768	1.4652	8.79121	2.46916
11:26:37				450	9.65985	0.3257727	1.4768	1.4652	8.93773	2.47154
11:26:37				451	9.65888	0.3254525	1.5752	1.51404	8.64469	2.46903
11:26:38				452	9.65791	0.3251324	1.5752	1.51404	9.08425	2.46652
11:26:38				453	9.66082	0.3276937	1.4768	1.51404	9.13309	2.48694
11:26:39				454	9.6647	0.3264132	1.5752	1.51404	8.64469	2.47636
11:26:39				455	9.66567	0.3262523	1.4768	1.56288	8.84005	2.475
11:26:40				456	9.66761	0.3315373	1.4768	1.51404	8.84005	2.51743
11:26:40				457	9.66276	0.334261	1.4768	1.51404	9.03541	2.53972
11:26:41				458	9.65694	0.3350612	1.4768	1.51404	8.69353	2.54658
11:26:41				459	9.65597	0.3302564	1.5752	1.4652	8.84005	2.50791
11:26:42				460	9.655	0.3297755	1.4768	1.51404	8.64469	2.50411
11:26:42				461	9.65888	0.3316988	1.4768	1.51404	8.98657	2.51934
11:26:43				462	9.65888	0.334261	1.4768	1.4652	8.74237	2.53999
11:26:43				463	9.655	0.3398666	1.5752	1.51404	9.03541	2.5855
11:26:44				464	9.64239	0.3369839	1.6736	1.51404	9.32845	2.56311
11:26:44				465	9.64627	0.3358618	1.6736	1.51404	8.74237	2.55378
11:26:45				466	9.65015	0.335382	1.6736	1.51404	9.13309	2.54964
11:26:45	11:25:21 end transect	15	90	467	9.64724	0.3406667	1.6736	1.56288	8.74237	2.59251
11:26:46				468	9.63845	0.348996	1.772	1.56288	9.08425	2.6605
11:26:46				469	9.62098	0.3461138	2.0671	1.51404	9.27961	2.63843
11:26:47				470	9.62486	0.3480357	2.1655	1.51404	9.67033	2.6537
11:26:47				471	9.62098	0.3467542	2.2639	1.51404	9.27961	2.64361
11:26:48				472	9.61225	0.3594085	2.4606	1.4652	9.13309	2.74683
11:26:48				473	9.59186	0.3666169	2.7558	1.51404	10.15873	2.80697
11:26:49				474	9.56849	0.3600484	2.8542	1.51404	10.15873	2.75534
11:26:49				475	9.56849	0.3731843	2.8542	1.4652	9.23077	2.86228
11:26:50				476	9.54809	0.3800744	2.9526	1.4652	9.32845	2.92012
11:26:50				477	9.51207	0.3807153	3.0509	1.51404	9.76801	2.92827
11:26:51				478	9.49457	0.3746267	3.0509	1.4652	8.88889	2.87991
11:26:51				479	9.51207	0.3752684	2.9526	1.51404	9.42613	2.88376
11:26:52				480	9.50333	0.381035	2.9526	1.51404	9.42613	2.9316
11:26:52				481	9.48868	0.3852005	2.9526	1.51404	9.71917	2.96689
11:26:53				482	9.47506	0.3803941	3.0509	1.51404	9.62149	2.92865
11:26:53				483	9.47409	0.3794324	3.0509	1.51404	9.67033	2.92086
11:26:54				484	9.47312	0.3811957	2.8542	1.56288	9.52381	2.93538
11:26:55				487	9.4418	0.385673	3.0509	1.51404	9.62149	2.97462
11:26:56				488	9.45348	0.3861534	2.9526	1.4652	9.42613	2.9776
11:26:56				489	9.45543	0.3874355	2.8542	1.51404	9.42613	2.98796
11:26:57				490	9.4457	0.396248	3.0509	1.51404	10.01221	3.06111
11:26:57				491	9.42915	0.3914407	3.0509	1.4652	9.91453	3.02301
11:26:58				492	9.42331	0.3891985	3.0509	1.51404	9.57265	3.00508
11:26:58				493	9.43694	0.3896784	2.9526	1.51404	9.76801	3.00789

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:26:59				494	9.43694	0.3914407	2.9526	1.4652	9.86569	3.02236
11:26:59				495	9.43402	0.3970483	2.9526	1.51404	9.71917	3.06868
11:27:00				496	9.42721	0.3928828	2.9526	1.51404	9.91453	3.03502
11:27:00	11:25:36 start transect	15	90	497	9.42721	0.3946455	2.9526	1.4652	9.76801	3.04951
11:27:01				498	9.42623	0.4034573	2.9526	1.51404	9.52381	3.12208
11:27:01				499	9.42429	0.4095474	2.9526	1.51404	9.23077	3.17242
11:27:02				500	9.41254	0.3960874	3.0509	1.51404	8.98657	3.0626
11:27:02				501	9.41157	0.3943246	2.9526	1.56288	8.98657	3.04819
11:27:03				502	9.42331	0.4092266	2.9526	1.56288	9.47497	3.16986
11:27:03				503	9.42526	0.4294172	2.9526	1.51404	10.01221	3.33643
11:27:04				504	9.41644	0.4055407	3.0509	1.51404	9.62149	3.14008
11:27:04				505	9.41449	0.402978	2.9526	1.56288	9.42613	3.11915
11:27:05				506	9.40865	0.4074635	2.9526	1.51404	9.62149	3.15661
11:27:05				507	9.40378	0.4015346	2.8542	1.51404	9.57265	3.10819
11:27:06				508	9.41741	0.3949665	2.7558	1.51404	9.62149	3.05299
11:27:06				509	9.42331	0.4045794	2.8542	1.51404	9.57265	3.13158
11:27:07				510	9.40281	0.3956072	2.8542	1.51404	9.57265	3.05949
11:27:07				511	9.4106	0.3944851	2.8542	1.51404	9.71917	3.0496
11:27:08				512	9.41838	0.3940053	2.6574	1.51404	9.57265	3.04501
11:27:08				513	9.41546	0.4071431	2.7558	1.4652	9.86569	3.15339
11:27:09				514	9.39599	0.4101876	2.8542	1.51404	10.20757	3.1802
11:27:09				515	9.38918	0.402657	2.8542	1.51404	9.67033	3.1187
11:27:10				516	9.39989	0.4048993	2.7558	1.4652	9.67033	3.13625
11:27:10				517	9.40086	0.4060224	2.7558	1.51404	9.37729	3.14543
11:27:11				518	9.3921	0.4414377	2.9526	1.51404	10.15873	3.43915
11:27:11				519	9.35502	0.4172381	3.0509	1.4652	9.62149	3.24209
11:27:12				520	9.37457	0.4058608	2.8542	1.51404	9.47497	3.14639
11:27:12				521	9.40086	0.3893585	2.7558	1.51404	9.76801	3.00828
11:27:13				522	9.41741	0.4470467	2.8542	1.4652	10.10989	3.48329
11:27:13				523	9.36769	0.4071432	3.0509	1.51404	9.71917	3.15756
11:27:14				524	9.38333	0.4052208	2.9526	1.4652	9.18193	3.14034
11:27:14				525	9.44083	0.3911204	2.7558	1.4652	9.32845	3.01941
11:27:15				526	9.43305	0.4053807	2.8542	1.4652	9.71917	3.13733
11:27:15				527	9.41254	0.3972091	3.0509	1.51404	9.67033	3.07183
11:27:16				528	9.41644	0.3917611	2.9526	1.51404	9.62149	3.02671
11:27:16				529	9.46418	0.3912805	2.7558	1.51404	9.52381	3.01877
11:27:17				530	9.46126	0.3859937	2.7558	1.51404	9.37729	2.97566
11:27:17				531	9.45056	0.3899983	2.9526	1.4652	9.42613	3.00938
11:27:18				532	9.45153	0.3861534	2.9526	1.51404	9.42613	2.97776
11:27:18				533	9.47592	0.3880762	2.8542	1.51404	9.13309	2.99151
11:27:19				534	9.47981	0.3611629	2.7558	1.51404	9.37729	2.7712
11:27:19				535	9.49925	0.3709343	2.9526	1.51404	9.62149	2.84939
11:27:20				536	9.50703	0.370454	2.9526	1.51404	9.13309	2.84486
11:27:20				537	9.52064	0.3717357	2.8542	1.51404	9.03541	2.85425
11:27:21				538	9.53334	0.3680501	2.7558	1.51404	9.03541	2.8232

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:27:21				539	9.52653	0.3794247	2.9526	1.51404	9.42613	2.91656
11:27:22				540	9.52556	0.36773	2.9526	1.51404	9.08425	2.82119
11:27:22				541	9.53819	0.3634048	2.9526	1.51404	9.37729	2.78497
11:27:23				542	9.56734	0.3638859	2.7558	1.51404	8.98657	2.78665
11:27:23				543	9.5586	0.3669292	2.8542	1.51404	8.79121	2.81209
11:27:24				544	9.54597	0.3688515	2.8542	1.51404	9.47497	2.82874
11:27:24				545	9.53819	0.3706136	2.9526	1.51404	9.42613	2.8437
11:27:25				546	9.52161	0.3706136	2.8542	1.51404	9.32845	2.84502
11:27:25				547	9.51286	0.3750991	2.7558	1.51404	9.37729	2.88233
11:27:26				548	9.51772	0.3791053	2.8542	1.51404	9.62149	2.91466
11:27:26				549	9.50412	0.374619	2.9526	1.51404	9.57265	2.87909
11:27:27				550	9.50703	0.375901	2.9526	1.51404	9.52381	2.88933
11:27:27				551	9.49828	0.3717357	2.8542	1.51404	9.67033	2.85601
11:27:28				552	9.50314	0.3799062	2.8542	1.51404	9.86569	2.92239
11:27:28				553	9.4905	0.380547	2.9526	1.4652	9.57265	2.92865
11:27:29				554	9.48661	0.3800652	2.9526	1.51404	9.57265	2.92503
11:27:29				555	9.47981	0.3771826	2.8542	1.51404	9.37729	2.902
11:27:30				556	9.47981	0.3736579	2.7558	1.51404	9.42613	2.87319
11:27:30				557	9.48953	0.3733366	2.9526	1.51404	9.57265	2.86978
11:27:31				558	9.49731	0.374779	2.9526	1.51404	9.47497	2.88094
11:27:31				559	9.49925	0.3722164	2.8542	1.51404	9.18193	2.85986
11:27:32				560	9.51189	0.3800652	2.7558	1.51404	9.37729	2.92299
11:27:32				561	9.49828	0.4177199	2.8542	1.51404	9.57265	3.2332
11:27:33				562	9.45153	0.3922417	2.9526	1.4652	9.47497	3.02771
11:27:33				563	9.45835	0.3754193	2.9526	1.51404	9.27961	2.88929
11:27:34				564	9.50217	0.3755793	2.8542	1.4652	9.37729	2.8871
11:27:34				565	9.51189	0.3661288	2.7558	1.51404	9.57265	2.80921
11:27:35				566	9.51967	0.3824692	2.9526	1.51404	9.47497	2.942
11:27:35				567	9.50509	0.3715744	2.9526	1.4652	9.52381	2.85416
11:27:36				568	9.51578	0.3730168	2.8542	1.51404	9.18193	2.86509
11:27:36				569	9.51578	0.3707747	2.7558	1.51404	9.23077	2.84679
11:27:37				570	9.51578	0.3805469	2.8542	1.4652	9.67033	2.92661
11:27:37				571	9.51189	0.3725359	2.9526	1.51404	9.52381	2.86147
11:27:38				572	9.50995	0.3778222	2.8542	1.51404	9.37729	2.9048
11:27:38				573	9.49148	0.3752591	2.7558	1.4652	9.32845	2.88534
11:27:39				574	9.49634	0.3911203	2.8542	1.51404	9.71917	3.01477
11:27:39				575	9.47786	0.3853523	2.9526	1.51404	9.47497	2.96902
11:27:40				576	9.47397	0.3851928	2.9526	1.4652	9.42613	2.96804
11:27:40				577	9.47099	0.3837499	2.8542	1.51404	9.37729	2.95647
11:27:41				578	9.46224	0.3943246	2.7558	1.51404	9.42613	3.04392
11:27:41				579	9.44764	0.4082646	2.8542	1.4652	10.35409	3.1598
11:27:42				580	9.41838	0.3932034	2.9526	1.51404	9.71917	3.0384
11:27:42				581	9.42818	0.3960874	2.8542	1.51404	9.37729	3.06128
11:27:43				582	9.42526	0.3936845	2.8542	1.4652	10.01221	3.04178
11:27:43				583	9.41352	0.4398353	2.8542	1.51404	10.25641	3.42383

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:27:44				584	9.33163	0.4204439	2.9526	1.51404	9.67033	3.27074
11:27:44				585	9.3404	0.414354	2.9526	1.51404	9.52381	3.21955
11:27:45				586	9.36476	0.4170785	2.8542	1.51404	9.27961	3.2399
11:27:45				587	9.3521	0.4238082	2.8542	1.51404	9.47497	3.29674
11:27:46				588	9.33358	0.4278153	2.9526	1.51404	10.10989	3.33165
11:27:46				589	9.31987	0.4178798	2.9526	1.51404	9.62149	3.25057
11:27:47				590	9.33261	0.4156368	2.7558	1.56288	9.37729	3.23087
11:27:47				591	9.33943	0.3976899	2.7558	1.51404	9.32845	3.08205
11:27:48				592	9.35015	0.39801	2.8542	1.51404	10.25641	3.08376
11:27:48				593	9.37457	0.4018555	2.9526	1.51404	10.01221	3.11335
11:27:49				594	9.37554	0.4000926	2.8542	1.51404	9.42613	3.09875
11:27:49				595	9.39112	0.3984909	2.8542	1.56288	9.62149	3.08422
11:27:50				596	9.3921	0.4133922	2.8542	1.51404	9.86569	3.20699
11:27:50				597	9.35989	0.408425	2.9526	1.51404	10.15873	3.16883
11:27:51				598	9.36574	0.3962481	2.9526	1.56288	9.52381	3.06791
11:27:51				599	9.38918	0.3973699	2.8542	1.51404	9.67033	3.07515
11:27:52				600	9.40086	0.3956072	2.8542	1.51404	9.47497	3.05965
11:27:52				601	9.39794	0.3948061	2.8542	1.51404	9.76801	3.05331
11:27:53				602	9.4067	0.3967285	2.8542	1.4652	9.57265	3.06838
11:27:53				603	9.4106	0.3935241	2.8542	1.51404	9.32845	3.0417
11:27:54				604	9.41546	0.3946456	2.8542	1.51404	9.52381	3.05051
11:27:55				607	9.33565	0.3994658	2.9526	1.51404	9.71917	3.09701
11:27:56				608	9.37371	0.4114828	2.8542	1.4652	9.52381	3.19286
11:27:56				609	9.36683	0.4281492	2.8542	1.51404	9.76801	3.33134
11:27:57				610	9.31415	0.4517097	2.8542	1.56288	9.91453	3.53213
11:27:57				611	9.2458	0.4249445	2.9526	1.51404	10.01221	3.31594
11:27:58				612	9.29659	0.4283099	2.8542	1.51404	9.62149	3.33919
11:27:58				613	9.29757	0.4398499	2.8542	1.51404	9.71917	3.435
11:27:59				614	9.26825	0.4693428	2.8542	1.4652	10.01221	3.68399
11:27:59				615	9.18814	0.4552359	2.9526	1.56288	10.15873	3.57404
11:28:00				616	9.18325	0.4489847	2.9526	1.51404	9.76801	3.52224
11:28:00				617	9.18521	0.4561978	2.8542	1.51404	9.71917	3.58239
11:28:01				618	9.18423	0.4741514	2.8542	1.56288	9.67033	3.73298
11:28:01				619	9.14313	0.4672586	2.9526	1.51404	10.10989	3.67935
11:28:02				620	9.13922	0.4531524	2.9526	1.51404	9.91453	3.56146
11:28:02				621	9.17147	0.4364836	2.8542	1.51404	9.71917	3.41899
11:28:03				622	9.19595	0.4725477	2.8542	1.51404	9.71917	3.7183
11:28:03				623	9.18124	0.465175	2.9526	1.51404	9.62149	3.65798
11:28:04				624	9.16854	0.4528312	2.9526	1.51404	9.62149	3.55586
11:28:04				625	9.17147	0.4541147	2.8542	1.4652	9.76801	3.56632
11:28:05				626	9.16756	0.4545945	2.8542	1.51404	10.01221	3.57072
11:28:05				627	9.14997	0.4677388	2.9526	1.4652	9.91453	3.68268
11:28:06				628	9.13726	0.4545945	3.0509	1.4652	9.81685	3.57373
11:28:06				629	9.14802	0.4529926	2.8542	1.51404	9.62149	3.55926
11:28:07				630	9.15583	0.4627693	2.8542	1.51404	9.57265	3.6404

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:28:07				631	9.1529	0.4711053	2.8542	1.51404	10.10989	3.71065
11:28:08				632	9.1402	0.4574807	2.9526	1.51404	9.67033	3.59763
11:28:08				633	9.15974	0.4558777	2.9526	1.51404	9.52381	3.58224
11:28:09				634	9.19888	0.4587628	2.8542	1.51404	9.62149	3.60248
11:28:09				635	9.17147	0.456358	2.9526	1.56288	9.91453	3.58509
11:28:10				636	9.15974	0.4512293	2.9526	1.51404	10.79365	3.54333
11:28:10				637	9.17245	0.4472224	2.9526	1.51404	9.81685	3.50857
11:28:11				638	9.20083	0.4472223	2.9526	1.51404	9.96337	3.50579
11:28:11				639	9.18911	0.4509084	2.8542	1.51404	9.91453	3.53775
11:28:12				640	9.1744	0.4459392	2.9526	1.51404	10.50061	3.49765
11:28:12				641	9.18716	0.4390478	2.9526	1.51404	9.57265	3.43888
11:28:13				642	9.23214	0.4422541	2.8542	1.51404	9.81685	3.4613
11:28:13				643	9.21743	0.4279888	2.8542	1.51404	9.96337	3.34388
11:28:14				644	9.21451	0.4279888	2.9526	1.51404	10.64713	3.34415
11:28:14				645	9.23214	0.4257463	2.9526	1.4652	10.01221	3.32386
11:28:15				646	9.28587	0.4153291	2.8542	1.51404	9.91453	3.23252
11:28:15				647	9.28587	0.4103624	2.8542	1.51404	9.71917	3.19139
11:28:16				648	9.29172	0.4077982	2.9526	1.51404	10.10989	3.16965
11:28:16				649	9.29367	0.4015488	2.8542	1.51404	10.20757	3.11783
11:28:17				650	9.32396	0.4111633	2.8542	1.51404	9.76801	3.19464
11:28:17				651	9.31902	0.4420936	2.8542	1.4652	10.10989	3.45161
11:28:18				652	9.29952	0.4230216	2.8542	1.51404	10.79365	3.29504
11:28:18				653	9.3044	0.4031504	2.9526	1.56288	10.15873	3.13012
11:28:19				654	9.32097	0.4118041	2.8542	1.51404	9.71917	3.2002
11:28:19				655	9.29367	0.4688605	2.8542	1.56288	10.01221	3.67735
11:28:20				656	9.23019	0.43392	2.8542	1.56288	10.79365	3.39205
11:28:20				657	9.24873	0.4284707	2.9526	1.51404	9.96337	3.34497
11:28:21				658	9.3044	0.4227014	2.8542	1.51404	10.06105	3.29194
11:28:21				659	9.2702	0.4638912	2.8542	1.51404	9.71917	3.63819
11:28:22				660	9.21841	0.4364835	2.9526	1.4652	9.91453	3.41451
11:28:22				661	9.23604	0.4335993	2.8542	1.51404	9.96337	3.38883
11:28:23				662	9.25947	0.4327968	2.8542	1.4652	9.67033	3.37994
11:28:23				663	9.23897	0.4670973	2.8542	1.51404	9.96337	3.66819
11:28:24				664	9.20083	0.4448175	2.9526	1.51404	10.06105	3.48571
11:28:24				665	9.21646	0.4388877	2.8542	1.51404	9.91453	3.43474
11:28:25				666	9.24776	0.4236624	2.8542	1.51404	9.76801	3.30511
11:28:25				667	9.23214	0.451068	2.9526	1.51404	10.30525	3.53484
11:28:26				668	9.22427	0.4271874	2.9526	1.51404	10.50061	3.33657
11:28:26				669	9.23116	0.4353618	2.9526	1.51404	9.71917	3.40396
11:28:27				670	9.22427	0.465014	2.8542	1.51404	9.37729	3.65225
11:28:27				671	9.1979	0.4526714	2.9526	1.51404	10.64713	3.55162
11:28:28				672	9.18124	0.4409715	2.9526	1.51404	9.91453	3.4555
11:28:28				673	9.194	0.4446569	2.8542	1.4652	9.71917	3.48504
11:28:29				674	9.20181	0.4286298	2.8542	1.51404	9.57265	3.35067
11:28:29				675	9.1979	0.4422542	2.9526	1.51404	10.50061	3.4646

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:28:30				676	9.20279	0.4360025	2.8542	1.4652	9.76801	3.41199
11:28:30				677	9.2106	0.4294318	2.8542	1.51404	9.47497	3.35653
11:28:31				678	9.22524	0.4387276	2.8542	1.51404	9.96337	3.43257
11:28:31				679	9.21158	0.431676	2.8542	1.51404	9.86569	3.37512
11:28:32				680	9.22921	0.4207781	2.8542	1.51404	9.71917	3.28285
11:28:32				681	9.24678	0.4270285	2.8542	1.56288	9.76801	3.33317
11:28:33				682	9.24092	0.4287905	2.9526	1.51404	10.01221	3.34836
11:28:33				683	9.238	0.4255859	2.9526	1.51404	10.01221	3.32199
11:28:34				684	9.2419	0.4255859	2.8542	1.51404	9.71917	3.32163
11:28:34				685	9.26825	0.416131	2.9526	1.51404	10.06105	3.24074
11:28:35				686	9.28392	0.4013877	2.8542	1.51404	10.40293	3.11735
11:28:35				687	9.28587	0.407638	2.9526	1.4652	9.81685	3.16884
11:28:36				688	9.30245	0.4092393	2.9526	1.51404	9.71917	3.18063
11:28:36				689	9.3083	0.3956198	2.8542	1.51404	10.10989	3.06763
11:28:37				690	9.3083	0.3964213	2.9526	1.4652	10.98901	3.07424
11:28:37				691	9.31512	0.3967411	2.9526	1.51404	9.81685	3.07629
11:28:38				692	9.32688	0.3946581	2.8542	1.51404	9.96337	3.05812
11:28:38				693	9.32785	0.3917752	2.8542	1.51404	10.35409	3.03429
11:28:39				694	9.33175	0.3909728	2.9526	1.56288	11.03785	3.02734
11:28:39				695	9.34053	0.3874481	2.9526	1.51404	9.71917	2.9976
11:28:40				696	9.34735	0.3904926	2.8542	1.51404	9.91453	3.02209
11:28:40				697	9.34247	0.3954592	2.8542	1.51404	10.30525	3.0634
11:28:41				698	9.33663	0.391133	2.9526	1.51404	10.54945	3.02825
11:28:41				699	9.34053	0.3922558	2.9526	1.51404	9.86569	3.03717
11:28:42				700	9.3376	0.3972217	2.9526	1.51404	10.10989	3.07833
11:28:42				701	9.31902	0.3903325	2.9526	1.4652	10.25641	3.02314
11:28:43				702	9.32883	0.3993049	2.8542	1.4652	9.91453	3.09627
11:28:43				703	9.32	0.4162904	2.8542	1.51404	10.01221	3.23741
11:28:44				704	9.29172	0.420778	2.9526	1.51404	10.50061	3.27714
11:28:44				705	9.2663	0.4044323	2.9526	1.51404	10.50061	3.14405
11:28:45				706	9.2741	0.4113224	2.8542	1.51404	10.01221	3.20039
11:28:45				707	9.26532	0.4263864	2.8542	1.51404	10.10989	3.32612
11:28:46				708	9.24385	0.4408112	2.8542	1.56288	10.25641	3.44815
11:28:46				709	9.2272	0.4183747	2.8542	1.51404	9.96337	3.26308
11:28:47				710	9.23995	0.426547	2.8542	1.51404	10.01221	3.3298
11:28:47				711	9.238	0.4403305	2.9526	1.51404	10.15873	3.4447
11:28:48				712	9.21939	0.4499462	2.9526	1.4652	10.20757	3.52673
11:28:48				713	9.20572	0.4396882	2.8542	1.51404	10.54945	3.44244
11:28:49				714	9.20181	0.4475425	2.9526	1.51404	10.30525	3.50837
11:28:49				715	9.20474	0.4233421	2.8542	1.4652	10.30525	3.30641
11:28:50				716	9.21158	0.420137	2.8542	1.51404	10.01221	3.27914
11:28:50				717	9.21255	0.4691816	2.8542	1.51404	9.57265	3.68836
11:28:51				718	9.18618	0.4760756	2.8542	1.51404	10.10989	3.74893
11:28:51				719	9.14899	0.4531524	2.9526	1.51404	10.35409	3.56049
11:28:52				720	9.15877	0.4493052	2.8542	1.51404	9.57265	3.52733

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:28:52				721	9.14802	0.4717464	2.8542	1.51404	9.76801	3.71654
11:28:53				722	9.14215	0.4877785	2.8542	1.51404	9.91453	3.85203
11:28:53				723	9.13629	0.4735095	2.9526	1.51404	10.25641	3.73257
11:28:54	11:27:30 @ 6:00	15	180	724	9.13134	0.4650142	2.8542	1.51404	9.76801	3.66173
11:28:55				727	9.11368	0.4996351	2.9526	1.51404	9.62149	3.95515
11:28:56				728	9.10384	0.4940234	2.9526	1.51404	10.01221	3.90884
11:28:56				729	9.10384	0.4792748	2.8542	1.51404	9.37729	3.78449
11:28:57				730	9.11074	0.4808765	2.9526	1.56288	8.98657	3.79724
11:28:57				731	9.10579	0.5074904	2.9526	1.56288	9.13309	4.02244
11:28:58				732	9.09699	0.5142249	2.9526	1.51404	9.23077	4.08045
11:28:58				733	9.09601	0.495306	2.8542	1.51404	9.08425	3.92054
11:28:59				734	9.09699	0.4956268	2.8542	1.51404	8.98657	3.92314
11:28:59				735	9.09699	0.5410041	2.8542	1.51404	8.49817	4.30778
11:29:00				736	9.09406	0.5240069	2.8542	1.51404	8.93773	4.16372
11:29:00				737	9.09112	0.5483819	2.9526	1.4652	8.59585	4.37129
11:29:01				738	9.08623	0.5365141	2.8542	1.51404	8.49817	4.27089
11:29:01				739	9.07449	0.5118205	2.8542	1.51404	8.35165	4.06264
11:29:02				740	9.07058	0.5788549	2.8542	1.51404	8.00977	4.63409
11:29:02				741	9.05486	0.541645	2.8542	1.51404	7.86325	4.31832
11:29:03				742	9.06073	0.5145457	2.8542	1.51404	7.57021	4.08731
11:29:03				743	9.05975	0.6109382	2.8542	1.51404	7.42369	4.91086
11:29:04				744	9.04996	0.6524944	2.8542	1.51404	7.37485	5.27078
11:29:04				745	9.03136	0.5725999	2.9526	1.4652	8.05861	4.58559
11:29:05				746	9.0343	0.5713165	2.9526	1.51404	7.52137	4.57423
11:29:05				747	9.03234	0.6009928	2.8542	1.51404	7.22833	4.82907
11:29:06				748	9.03528	0.5884801	2.8542	1.4652	7.76557	4.72121
11:29:06				749	9.0392	0.6157507	2.8542	1.51404	7.47253	4.95512
11:29:07				750	9.03332	0.5647405	2.9526	1.51404	7.66789	4.51809
11:29:07				751	9.03626	0.5653825	2.9526	1.51404	7.13065	4.52321
11:29:08				752	9.03234	0.6218476	2.8542	1.51404	6.83761	5.00862
11:29:08				753	9.01759	0.631635	2.8542	1.51404	7.17949	5.09516
11:29:09				754	9.00878	0.5936134	2.9526	1.51404	7.08181	4.7688
11:29:09				755	9.00976	0.5990672	2.8542	1.51404	7.03297	4.81556
11:29:10				756	9.01172	0.5995476	2.8542	1.4652	7.03297	4.81943
11:29:10				757	9.01564	0.5953768	2.8542	1.51404	7.17949	4.78305
11:29:11				758	9.02255	0.5692321	2.8542	1.51404	7.57021	4.55789
11:29:11				759	9.02549	0.5942544	2.8542	1.4652	8.59585	4.77209
11:29:12				760	9.02647	0.5835074	2.8542	1.51404	8.69353	4.67971
11:29:12				761	9.04507	0.5565609	2.9526	1.51404	8.49817	4.44672
11:29:13				762	9.05682	0.5321851	2.8542	1.51404	9.18193	4.23757
11:29:13				763	9.06269	0.5422878	2.9526	1.51404	8.93773	4.32284
11:29:14				764	9.05682	0.5525506	2.9526	1.51404	9.03541	4.41103
11:29:14				765	9.06269	0.5382788	2.8542	1.51404	8.79121	4.28871
11:29:15				766	9.06269	0.5169504	2.8542	1.51404	8.98657	4.10748
11:29:15				767	9.06471	0.5124614	2.9526	1.4652	9.08425	4.06918

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:29:16				768	9.07253	0.5116603	2.8542	1.51404	9.03541	4.06151
11:29:16				769	9.07156	0.5058881	2.8542	1.51404	9.37729	4.01273
11:29:17				770	9.07449	0.4993137	2.8542	1.4652	9.23077	3.95677
11:29:17				771	9.0784	0.4975496	2.9526	1.56288	9.37729	3.94142
11:29:18				772	9.08232	0.4986724	2.9526	1.51404	8.93773	3.95048
11:29:18				773	9.0833	0.4945043	2.8542	1.51404	9.47497	3.91515
11:29:19				774	9.08036	0.4980314	2.8542	1.51404	9.62149	3.94528
11:29:19				775	9.08427	0.4986724	2.8542	1.51404	9.23077	3.95027
11:29:20				776	9.08623	0.4892133	2.9526	1.51404	9.71917	3.87015
11:29:20				777	9.09112	0.4973907	2.8542	1.4652	9.18193	3.93868
11:29:21				778	9.08917	0.5005968	2.8542	1.4652	9.18193	3.966
11:29:21				779	9.08036	0.4924197	2.8542	1.51404	9.52381	3.89787
11:29:22				780	9.08623	0.49274	2.9526	1.51404	9.23077	3.89993
11:29:22				781	9.08232	0.4925798	2.8542	1.51404	9.18193	3.89901
11:29:23				782	9.07547	0.4946646	2.8542	1.56288	9.27961	3.91737
11:29:23				783	9.07938	0.5217608	2.8542	1.51404	8.98657	4.14637
11:29:24				784	9.05975	0.5001159	2.9526	1.51404	9.23077	3.96518
11:29:24				785	9.07058	0.5021995	2.8542	1.51404	9.03541	3.98162
11:29:25				786	9.06471	0.5334677	2.8542	1.4652	8.79121	4.24754
11:29:25				787	9.05486	0.5320248	2.8542	1.51404	8.98657	4.23644
11:29:26				788	9.04605	0.6476798	2.9526	1.51404	8.44933	5.2297
11:29:26				789	9.03528	0.5246471	2.9526	1.4652	8.49817	4.17601
11:29:27				790	9.05192	0.5793356	2.8542	1.51404	6.98413	4.64063
11:29:27				791	9.03136	0.7540955	2.8542	1.56288	6.69109	6.15873
11:29:28				792	8.95581	0.7168511	2.9526	1.51404	7.03297	5.84531
11:29:28				793	8.94111	0.6285866	2.9526	1.51404	5.81197	5.0797
11:29:29				794	8.9234	0.7147656	2.8542	1.51404	5.47009	5.83238
11:29:29				795	8.91555	0.6364485	2.8542	1.51404	5.42125	5.15145
11:29:30				796	8.90476	0.7096283	2.8542	1.51404	5.32357	5.79046
11:29:30				797	8.89691	0.7287298	2.8542	1.4652	5.66545	5.95912
11:29:31				798	8.89397	0.6664562	2.9526	1.51404	5.76313	5.41531
11:29:31				799	8.90476	0.6693434	2.8542	1.51404	5.81197	5.43881
11:29:32				800	8.91947	0.6417437	2.8542	1.51404	6.05617	5.19679
11:29:32				801	8.94013	0.6329186	2.8542	1.51404	6.73993	5.11734
11:29:33				802	8.95287	0.6229715	2.8542	1.51404	6.98413	5.02949
11:29:33				803	8.95875	0.585432	2.9526	1.51404	6.78877	4.70512
11:29:34				804	8.97939	0.5822239	2.8542	1.51404	6.78877	4.67486
11:29:34	11:28:10 end transect	15	270	805	8.99899	0.5862334	2.8542	1.4652	7.42369	4.70671
11:29:35				806	8.99703	0.5750054	2.8542	1.51404	7.66789	4.61063
11:29:35				807	9.00095	0.5663443	2.8542	1.51404	7.96093	4.53592
11:29:36				808	8.99997	0.5400417	2.8542	1.4652	7.66789	4.31128
11:29:36				809	9.00976	0.5345892	2.8542	1.51404	8.00977	4.26363
11:29:37				810	9.02745	0.5264122	2.8542	1.51404	8.40049	4.19194
11:29:37				811	9.04311	0.5140646	2.8542	1.51404	8.35165	4.08524
11:29:38				812	9.05584	0.5123011	2.8542	1.56288	8.20513	4.06884

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:29:38				813	9.05877	0.5073307	2.8542	1.51404	8.10745	4.02638
11:29:39				814	9.06764	0.5163096	2.8542	1.51404	8.05861	4.10148
11:29:39				815	9.06862	0.5195157	2.8542	1.4652	8.20513	4.12856
11:29:40				816	9.06862	0.5142249	2.8542	1.4652	8.05861	4.08369
11:29:40				817	9.06666	0.5177521	2.8542	1.51404	8.10745	4.11383
11:29:41				818	9.06862	0.5191957	2.8542	1.51404	7.86325	4.12585
11:29:41				819	9.07156	0.5216014	2.8542	1.51404	7.76557	4.14592
11:29:42				820	9.07058	0.5214404	2.8542	1.51404	7.71673	4.14467
11:29:42				821	9.0784	0.5278541	2.8542	1.51404	7.81441	4.19821
11:29:43				822	9.07449	0.5318645	2.8542	1.51404	7.66789	4.23275
11:29:43				823	9.06862	0.5395605	2.8542	1.51404	7.66789	4.29891
11:29:44				824	9.07156	0.5305813	2.8542	1.4652	7.81441	4.22219
11:29:44				825	9.07645	0.5079716	2.8542	1.51404	7.61905	4.02982
11:29:45				826	9.05877	0.526091	2.8542	1.51404	7.52137	4.18554
11:29:45				827	9.05486	0.5640987	2.8542	1.4652	7.61905	4.50989
11:29:46				828	9.06568	0.6138268	2.8542	1.56288	7.37485	4.9349
11:29:46				829	9.07645	0.5626546	2.8542	1.51404	7.37485	4.49483
11:29:47				830	9.07449	0.5636183	2.8542	1.51404	7.08181	4.50331
11:29:47				831	9.0696	0.5652211	2.8542	1.51404	6.88645	4.51762
11:29:48				832	9.06269	0.5953767	2.8542	1.51404	7.08181	4.77675
11:29:48				833	9.05192	0.6212065	2.8542	1.51404	6.93529	5.00035
11:29:49				834	9.05975	0.606607	2.8542	1.51404	7.03297	4.87362
11:29:49				835	9.06764	0.5855914	2.8542	1.4652	6.83761	4.69218
11:29:50				836	9.0696	0.5902441	2.8542	1.51404	6.88645	4.7318
11:29:50				837	9.07253	0.5960183	2.8542	1.51404	6.69109	4.78094
11:29:51				838	9.09014	0.5947352	2.8542	1.51404	6.73993	4.76759
11:29:51				839	9.10579	0.5998689	2.8542	1.51404	6.64225	4.80952
11:29:52				840	9.12443	0.6032385	2.8542	1.51404	6.73993	4.83591
11:29:52				841	9.13421	0.6030775	2.8542	1.51404	6.93529	4.83321
11:29:53				842	9.14398	0.5974626	2.8542	1.51404	7.08181	4.78378
11:29:53				843	9.14887	0.5860735	2.8542	1.4652	7.22833	4.68566
11:29:54				844	9.14985	0.5762892	2.8542	1.51404	7.27717	4.60193
11:29:55				847	9.19296	0.509584	2.8542	1.51404	8.35165	4.03034
11:29:56				848	9.21737	0.4675791	2.8542	1.51404	8.15629	3.67444
11:29:56				849	9.23403	0.4669379	2.7558	1.51404	8.79121	3.66737
11:29:57				850	9.23891	0.4775188	2.8542	1.51404	9.08425	3.75553
11:29:57				851	9.23305	0.4595646	2.8542	1.4652	9.23077	3.60576
11:29:58				852	9.23013	0.4739912	2.8542	1.4652	9.03541	3.72686
11:29:58				853	9.22915	0.4683801	2.8542	1.51404	9.03541	3.67994
11:29:59				854	9.22622	0.4568399	2.8542	1.4652	8.84005	3.58366
11:29:59				855	9.2272	0.5057348	2.8542	1.51404	9.13309	3.99404
11:30:00				856	9.21835	0.4856951	2.7558	1.51404	8.98657	3.82635
11:30:00				857	9.21542	0.4759152	2.7558	1.51404	8.54701	3.74454
11:30:01				858	9.21347	0.4892214	2.7558	1.56288	8.69353	3.85652
11:30:01				859	9.21151	0.5381262	2.8542	1.51404	8.59585	4.26964

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:30:02				860	9.19687	0.5119888	2.8542	1.51404	8.74237	4.05021
11:30:02				861	9.19491	0.5575316	2.8542	1.51404	8.30281	4.4364
11:30:03				862	9.18905	0.5596171	2.9526	1.4652	8.59585	4.45486
11:30:03				863	9.17831	0.5232124	2.9526	1.51404	7.96093	4.14721
11:30:04				864	9.18808	0.5408531	2.8542	1.51404	8.05861	4.29556
11:30:04				865	9.19003	0.553202	2.8542	1.51404	8.20513	4.4002
11:30:05				866	9.18417	0.53492	2.8542	1.56288	8.20513	4.24571
11:30:05				867	9.18222	0.5285055	2.8542	1.51404	8.98657	4.19158
11:30:06				868	9.18417	0.5092624	2.9526	1.51404	8.74237	4.02861
11:30:06				869	9.18222	0.5212892	2.9526	1.51404	8.84005	4.13049
11:30:07				870	9.18808	0.507179	2.8542	1.4652	8.69353	4.01059
11:30:07				871	9.18905	0.5073388	2.8542	1.51404	8.54701	4.01183
11:30:08				872	9.18905	0.5387678	2.8542	1.51404	8.79121	4.27775
11:30:08				873	9.19394	0.5110262	2.9526	1.51404	8.84005	4.0424
11:30:09				874	9.19296	0.5151957	2.9526	1.51404	8.54701	4.07773
11:30:09				875	9.19491	0.532033	2.9526	1.51404	8.49817	4.21996
11:30:10				876	9.19394	0.5363618	2.9526	1.51404	8.44933	4.25676
11:30:10				877	9.18808	0.5904143	3.0509	1.51404	8.40049	4.71761
11:30:11				878	9.18026	0.6303608	3.1493	1.4652	8.79121	5.06106
11:30:11				879	9.16555	0.7606911	3.3461	1.51404	8.15629	6.19323
11:30:12				880	9.14796	0.7971393	3.4445	1.51404	7.17949	6.51563
11:30:12				881	9.08727	0.8154467	3.6412	1.51404	6.30037	6.68786
11:30:13				882	9.06471	0.8393781	3.7396	1.56288	6.15385	6.90339
11:30:13				883	9.04122	0.9087763	3.838	1.51404	5.76313	7.52412
11:30:14				884	9.07449	0.9015462	4.0348	1.51404	5.56777	7.45275
11:30:14				885	9.0902	0.8610615	4.0348	1.51404	5.47009	7.09022
11:30:15				886	9.09216	0.9500711	4.1331	1.51404	5.61661	7.88155
11:30:15				887	9.08427	0.9708019	4.2315	1.51404	5.71429	8.06872
11:30:16				888	9.06862	1.0064831	4.3299	1.51404	5.76313	8.39241
11:30:16				889	9.05492	1.0429718	4.5267	1.4652	5.66545	8.72423
11:30:17				890	9.04611	1.0466685	4.7234	1.51404	5.71429	8.75972
11:30:17				891	9.06471	1.0894354	4.8218	1.51404	5.61661	9.14171
11:30:18				892	9.06373	1.2272707	4.9202	1.51404	5.66545	10.39745
11:30:18				893	9.06568	1.2539778	5.0186	1.51404	5.71429	10.64175
11:30:19				894	9.09607	1.2819747	5.117	1.51404	5.56777	10.88972
11:30:19				895	9.13916	1.2407859	5.117	1.51404	4.59096	10.4991
11:30:20				896	9.15284	1.2707104	5.3137	1.51404	3.85836	10.76909
11:30:20				897	9.15284	1.3149644	5.3137	1.4652	3.85836	11.17551
11:30:21				898	9.13329	1.3209182	5.5105	1.51404	3.76068	11.2364
11:30:21				899	9.12834	1.2871237	5.5105	1.56288	3.85836	10.92712
11:30:22				900	9.12541	1.2769873	5.5105	1.51404	3.9072	10.83493
11:30:22				901	9.12346	1.2942047	5.5105	1.51404	3.71184	10.99368
11:30:23				902	9.11466	1.2985502	5.5105	1.51404	3.80952	11.03635
11:30:23				903	9.10879	1.3008014	5.6089	1.4652	3.56532	11.05886
11:30:24				904	9.10683	1.2676556	5.6089	1.51404	3.56532	10.75487

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:30:24				905	9.11074	1.2591265	5.6089	1.51404	3.51648	10.67544
11:30:25				906	9.10879	1.2911465	5.6089	1.51404	3.56532	10.97006
11:30:25				907	9.10585	1.290342	5.5105	1.51404	3.71184	10.96358
11:30:26				908	9.09999	1.2744129	5.6089	1.51404	3.61416	10.81897
11:30:26				909	9.09999	1.2613784	5.5105	1.51404	3.4188	10.69934
11:30:27				910	9.10096	1.2938818	5.6089	1.51404	3.51648	10.99762
11:30:27				911	9.10292	1.2898604	5.6089	1.51404	3.61416	10.96004
11:30:28				912	9.10292	1.2726426	5.6089	1.51404	3.56532	10.80183
11:30:28				913	9.10292	1.2768267	5.5105	1.4652	3.46764	10.84027
11:30:29				914	9.1039	1.2940433	5.6089	1.51404	3.56532	10.9982
11:30:29				915	9.1039	1.2351542	5.5105	1.51404	3.36996	10.45782
11:30:30				916	9.09803	1.2716776	5.6089	1.51404	4.05372	10.79445
11:30:30				917	9.0902	1.2795618	5.6089	1.51404	3.663	10.86925
11:30:31				918	9.09118	1.2861593	5.6089	1.51404	3.61416	10.9296
11:30:31				919	9.09216	1.2872851	5.5105	1.51404	3.9072	10.93967
11:30:32				920	9.08923	1.2813312	5.6089	1.51404	4.00488	10.88581
11:30:32				921	9.09412	1.2851926	5.6089	1.4652	3.85836	10.91981
11:30:33				922	9.09705	1.2797225	5.5105	1.51404	3.76068	10.86866
11:30:33				923	9.09705	1.2903421	5.6089	1.51404	3.71184	10.96627
11:30:34				924	9.0951	1.2945256	5.6089	1.51404	3.71184	11.00535
11:30:34				925	9.09705	1.3457024	5.6089	1.56288	3.663	11.47645
11:30:35				926	9.08825	1.3358859	5.6089	1.51404	3.95604	11.38863
11:30:35				927	9.07743	1.3062739	5.6089	1.51404	3.76068	11.11898
11:30:36				928	9.08232	1.3065958	5.6089	1.51404	3.51648	11.12042
11:30:36				929	9.08727	1.3210789	5.6089	1.4652	3.56532	11.25235
11:30:37				930	9.0833	1.3214022	5.6089	1.51404	3.663	11.25658
11:30:37	11:29:13 start transect	15	270	931	9.0833	1.3048245	5.6089	1.51404	3.71184	11.1038
11:30:38				932	9.08825	1.3098143	5.6089	1.51404	3.9072	11.14822
11:30:38				933	9.09314	1.3125509	5.5105	1.56288	3.61416	11.17192
11:30:39				934	9.09607	1.3099742	5.5105	1.51404	3.46764	11.14727
11:30:39				935	9.09412	1.3045027	5.6089	1.51404	3.80952	11.09747
11:30:40				936	9.09705	1.3069177	5.5105	1.51404	3.56532	11.11881
11:30:40				937	9.09901	1.3067556	5.6089	1.4652	4.00488	11.1167
11:30:41				938	9.09901	1.2975846	5.6089	1.51404	3.85836	11.03229
11:30:41				939	9.1039	1.2975846	5.5105	1.51404	3.80952	11.03079
11:30:42				940	9.10585	1.3040213	5.6089	1.51404	3.76068	11.0894
11:30:42				941	9.11368	1.3064336	5.5105	1.51404	3.9072	11.10919
11:30:43				942	9.11172	1.2996756	5.5105	1.56288	3.85836	11.04761
11:30:43				943	9.11466	1.2777909	5.6089	1.51404	4.10256	10.84555
11:30:44				944	9.11661	1.2657243	5.6089	1.51404	3.76068	10.73421
11:30:44				945	9.1215	1.2525306	5.6089	1.4652	3.663	10.61178
11:30:45				946	9.12541	1.2362806	5.5105	1.51404	4.05372	10.46184
11:30:45				947	9.12737	1.22711	5.5105	1.51404	3.9072	10.37738
11:30:46				948	9.12639	1.2142396	5.5105	1.51404	3.663	10.26004
11:30:46				949	9.12834	1.213598	5.5105	1.51404	4.00488	10.25362

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:30:47				950	9.11954	1.1983147	5.5105	1.51404	3.80952	10.11661
11:30:47				951	9.10292	1.1930057	5.5105	1.51404	3.95604	10.07286
11:30:48				952	9.09705	1.1878596	5.4121	1.51404	4.29792	10.02757
11:30:48				953	9.09607	1.1748303	5.5105	1.4652	4.29792	9.90903
11:30:49				954	9.09705	1.1712927	5.5105	1.51404	4.1514	9.87653
11:30:49				955	9.08036	1.167431	5.5105	1.51404	4.49328	9.84595
11:30:50				956	9.06568	1.1593901	5.4121	1.51404	4.59096	9.77674
11:30:50				957	9.0559	1.150384	5.5105	1.51404	5.07937	9.69738
11:30:51				958	9.04709	1.1333352	5.5105	1.51404	5.32357	9.54461
11:30:51				959	9.04317	1.1516703	5.5105	1.51404	5.37241	9.71255
11:30:52				960	9.06275	1.1587464	5.5105	1.51404	5.47009	9.77167
11:30:52				961	9.08232	1.1463632	5.3137	1.51404	5.22589	9.65366
11:30:53				962	9.08134	1.1535994	5.5105	1.51404	5.37241	9.71973
11:30:53				963	9.08134	1.1642143	5.5105	1.56288	4.93284	9.81638
11:30:54				964	9.0902	1.1650187	5.5105	1.51404	4.78632	9.82127
11:30:55				967	9.08666	1.1603481	5.5105	1.51404	4.83516	9.77971
11:30:56				968	9.08666	1.1561663	5.5105	1.51404	4.93284	9.74164
11:30:56				969	9.09057	1.1547191	5.5105	1.4652	4.884	9.72741
11:30:57				970	9.09057	1.1529503	5.5105	1.51404	4.98168	9.71131
11:30:57				971	9.07492	1.1542355	5.5105	1.51404	5.03053	9.72727
11:30:58				972	9.09742	1.1561663	5.5105	1.51404	4.884	9.73871
11:30:58				973	9.1405	1.1621166	5.5105	1.51404	4.78632	9.78106
11:30:59				974	9.1816	1.1577752	5.5105	1.51404	4.59096	9.73041
11:30:59				975	9.18454	1.16485	5.5105	1.51404	4.44444	9.79386
11:31:00				976	9.21389	1.1712835	5.5105	1.51404	4.54212	9.84423
11:31:00				977	9.253	1.1828642	5.5105	1.4652	4.44444	9.93858
11:31:01				978	9.31061	1.1786828	5.5105	1.51404	4.24908	9.88472
11:31:01				979	9.31939	1.1749829	5.5105	1.56288	3.80952	9.84879
11:31:02				980	9.31451	1.1724093	5.5105	1.51404	3.76068	9.82682
11:31:02				981	9.33894	1.1777167	5.5105	1.56288	3.76068	9.86817
11:31:03				982	9.37012	1.1806132	5.5105	1.51404	3.80952	9.8858
11:31:03				983	9.36817	1.1687101	5.5105	1.51404	3.85836	9.77869
11:31:04				984	9.33108	1.1611506	5.5105	1.51404	3.71184	9.72042
11:31:04				985	9.29501	1.1662971	5.5105	1.4652	3.80952	9.7768
11:31:05				986	9.31159	1.1730536	5.5105	1.51404	3.95604	9.83345
11:31:05				987	9.34187	1.1682287	5.5105	1.51404	4.00488	9.7815
11:31:06				988	9.34381	1.1704792	5.5105	1.51404	3.85836	9.80133
11:31:06				989	9.37499	1.1677449	5.5105	1.51404	3.61416	9.76811
11:31:07				990	9.37499	1.1675852	5.5105	1.51404	3.80952	9.76666
11:31:07				991	9.35746	1.171445	5.5105	1.51404	3.663	9.80634
11:31:08				992	9.40135	1.187046	5.5105	1.51404	3.76068	9.93537
11:31:08				993	9.43451	1.1749825	5.5105	1.4652	3.663	9.81725
11:31:09				994	9.41108	1.1859212	5.4121	1.51404	3.4188	9.92252
11:31:09				995	9.45591	1.1852762	5.5105	1.51404	3.22344	9.90431
11:31:10				996	9.48321	1.1902638	5.5105	1.51404	3.1746	9.94181

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:10				997	9.49488	1.200718	5.4121	1.56288	3.22344	10.03297
11:31:11				998	9.47148	1.2073137	5.5105	1.51404	3.12576	10.09911
11:31:11				999	9.45786	1.2069925	5.5105	1.51404	3.12576	10.10003
11:31:12				1000	9.45105	1.2142316	5.5105	1.51404	3.07692	10.16746
11:31:12				1001	9.4491	1.2216317	5.5105	1.4652	3.02808	10.23502
11:31:13				1002	9.43451	1.2502677	5.5105	1.51404	3.07692	10.49895
11:31:13				1003	9.40914	1.2298364	5.5105	1.51404	3.02808	10.32083
11:31:14				1004	9.44618	1.1995929	5.5105	1.51404	3.07692	10.03638
11:31:14				1005	9.49488	1.1994314	5.5105	1.56288	2.9304	10.02134
11:31:15				1006	9.53091	1.206671	5.4121	1.51404	2.78388	10.07665
11:31:15				1007	9.5416	1.2301571	5.5105	1.51404	2.97924	10.28578
11:31:16				1008	9.52113	1.2341783	5.5105	1.51404	2.9304	10.32801
11:31:16				1009	9.51529	1.1929975	5.5105	1.4652	2.83272	9.9576
11:31:17				1010	9.55034	1.1997539	5.5105	1.51404	2.78388	10.00881
11:31:17				1011	9.55908	1.2224348	5.5105	1.56288	2.73504	10.21102
11:31:18				1012	9.57268	1.18962	5.5105	1.51404	2.49084	9.91133
11:31:18				1013	9.59508	1.1936413	5.5105	1.56288	2.49084	9.94136
11:31:19				1014	9.6174	1.1952499	5.5105	1.51404	2.6862	9.94967
11:31:19				1015	9.62614	1.1896198	5.5105	1.51404	2.58852	9.89663
11:31:20				1016	9.62517	1.1929971	5.5105	1.51404	2.49084	9.92727
11:31:20				1017	9.62226	1.1836676	5.5105	1.51404	2.63736	9.84419
11:31:21				1018	9.61934	1.1855969	5.6089	1.51404	2.58852	9.86231
11:31:21				1019	9.6242	1.1979836	5.5105	1.51404	2.53968	9.97239
11:31:22				1020	9.62323	1.184312	5.5105	1.51404	2.63736	9.84972
11:31:22				1021	9.62129	1.1865631	5.6089	1.51404	2.442	9.87047
11:31:23				1022	9.6242	1.184312	5.5105	1.4652	2.53968	9.84945
11:31:23				1023	9.63396	1.1836675	5.5105	1.51404	2.58852	9.841
11:31:24				1024	9.63881	1.1846331	5.5105	1.51404	2.6862	9.84835
11:31:24				1025	9.63202	1.1772349	5.5105	1.4652	2.58852	9.78375
11:31:25				1026	9.59508	1.1841494	5.5105	1.56288	2.49084	9.85595
11:31:25				1027	9.60284	1.1958923	5.5105	1.56288	2.58852	9.95947
11:31:26				1028	9.6174	1.2032922	5.5105	1.51404	2.63736	10.02205
11:31:26				1029	9.6174	1.185115	5.5105	1.51404	2.442	9.85853
11:31:27				1030	9.60478	1.1830234	5.5105	1.4652	2.53968	9.84317
11:31:27				1031	9.60381	1.1823814	5.5105	1.51404	2.442	9.83767
11:31:28				1032	9.60964	1.1838282	5.5105	1.51404	2.63736	9.84908
11:31:28				1033	9.6242	1.183186	5.6089	1.51404	2.83272	9.83932
11:31:29				1034	9.62517	1.1772349	5.5105	1.51404	2.58852	9.78561
11:31:29				1035	9.61352	1.1798082	5.5105	1.51404	2.58852	9.81189
11:31:30				1036	9.62226	1.1822209	5.5105	1.51404	2.58852	9.83119
11:31:30				1037	9.63396	1.181256	5.5105	1.51404	2.53968	9.81933
11:31:31				1038	9.62323	1.1799685	5.5105	1.4652	2.53968	9.81069
11:31:31				1039	9.61643	1.1804518	5.5105	1.51404	2.88156	9.81688
11:31:32				1040	9.6174	1.1790022	5.5105	1.51404	2.78388	9.80359
11:31:32				1041	9.61255	1.1773952	5.5105	1.51404	2.73504	9.79047

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:33				1042	9.60673	1.1753042	5.4121	1.56288	2.63736	9.77328
11:31:33				1043	9.55228	1.1809333	5.5105	1.51404	2.88156	9.83871
11:31:34				1044	9.54451	1.1809333	5.5105	1.51404	2.88156	9.84084
11:31:34				1045	9.5688	1.1812562	5.5105	1.51404	2.6862	9.83711
11:31:35				1046	9.56103	1.2140691	5.5105	1.4652	2.53968	10.13495
11:31:35				1047	9.54548	1.2264575	5.5105	1.51404	2.63736	10.25123
11:31:36				1048	9.52307	1.2570252	5.5105	1.51404	2.53968	10.53436
11:31:36				1049	9.50849	1.2657136	5.4121	1.51404	2.78388	10.61746
11:31:37				1050	9.48418	1.2803552	5.5105	1.56288	2.73504	10.75765
11:31:37				1051	9.43159	1.292425	5.5105	1.51404	2.73504	10.88334
11:31:38				1052	9.41108	1.2748843	5.5105	1.51404	2.6862	10.72973
11:31:38				1053	9.40037	1.2879195	5.5105	1.51404	2.97924	10.85172
11:31:39				1054	9.35941	1.3403802	5.5105	1.51404	2.9304	11.3439
11:31:39				1055	9.28032	1.3373245	5.5105	1.56288	2.88156	11.34089
11:31:40				1056	9.25105	1.3138267	5.5105	1.56288	2.78388	11.13441
11:31:40				1057	9.28129	1.3324948	5.5105	1.51404	3.07692	11.29624
11:31:41				1058	9.24227	1.3370022	5.5105	1.51404	3.02808	11.34998
11:31:41				1059	9.21878	1.3394172	5.5105	1.51404	3.12576	11.37964
11:31:42				1060	9.20706	1.3476237	5.5105	1.4652	2.83272	11.4589
11:31:42				1061	9.19137	1.3394173	5.5105	1.51404	2.88156	11.38836
11:31:43				1062	9.20804	1.3353926	5.5105	1.4652	3.12576	11.34602
11:31:43				1063	9.23342	1.3329781	5.5105	1.51404	3.12576	11.31579
11:31:44				1064	9.24031	1.3278281	5.5105	1.51404	2.83272	11.2663
11:31:44				1065	9.27739	1.3263809	5.5105	1.56288	2.73504	11.24136
11:31:45				1066	9.29794	1.3241265	5.5105	1.51404	2.83272	11.21425
11:31:45				1067	9.31451	1.3144717	5.5105	1.4652	2.78388	11.12062
11:31:46				1068	9.32913	1.3078736	5.5105	1.51404	2.63736	11.0557
11:31:46				1069	9.34674	1.2993443	5.5105	1.51404	2.58852	10.97231
11:31:47				1070	9.36135	1.2948384	5.5105	1.51404	2.53968	10.92669
11:31:47				1071	9.37012	1.2908159	5.6089	1.56288	2.88156	10.88728
11:31:48				1072	9.37791	1.2962858	5.5105	1.56288	2.9304	10.93486
11:31:48				1073	9.37597	1.2851846	5.5105	1.51404	2.63736	10.83415
11:31:49				1074	9.37402	1.2843793	5.4121	1.51404	2.73504	10.82741
11:31:49				1075	9.37986	1.2932301	5.5105	1.51404	2.88156	10.90637
11:31:50				1076	9.38284	1.3051382	5.5105	1.51404	2.83272	11.01418
11:31:50				1077	9.37499	1.2986994	5.5105	1.51404	2.97924	10.95778
11:31:51				1078	9.37889	1.2803556	5.5105	1.51404	2.73504	10.78923
11:31:51				1079	9.39258	1.2803556	5.5105	1.51404	2.6862	10.78511
11:31:52				1080	9.39745	1.2877583	5.4121	1.51404	2.97924	10.85115
11:31:52				1081	9.39258	1.3001484	5.5105	1.51404	2.9304	10.96564
11:31:53				1082	9.37499	1.2999867	5.5105	1.51404	2.63736	10.96954
11:31:53				1083	9.36915	1.2832522	5.5105	1.4652	2.63736	10.81858
11:31:54	11:30:30 @ 6:00	15	180	1084	9.38382	1.2872748	5.5105	1.56288	2.78388	10.85084
11:31:55				1087	9.42009	1.2446487	5.5105	1.51404	2.63736	10.45213
11:31:56				1088	9.46096	1.2177817	5.4121	1.4652	2.78388	10.1968

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:31:56				1089	9.50089	1.2140827	5.5105	1.51404	2.78388	10.15202
11:31:57				1090	9.53012	1.2092549	5.4121	1.51404	2.63736	10.1002
11:31:57				1091	9.55441	1.1973521	5.5105	1.51404	2.58852	9.98603
11:31:58				1092	9.56218	1.1957424	5.4121	1.56288	2.6862	9.96939
11:31:58				1093	9.56315	1.1933304	5.4121	1.51404	2.73504	9.94739
11:31:59				1094	9.55441	1.1909181	5.5105	1.51404	2.6862	9.92805
11:31:59				1095	9.54469	1.1917228	5.5105	1.51404	2.73504	9.93798
11:32:00				1096	9.5145	1.194778	5.4121	1.4652	2.83272	9.9739
11:32:00				1097	9.47172	1.194617	5.4121	1.56288	2.9304	9.98431
11:32:01				1098	9.41516	1.1947784	5.4121	1.56288	3.1746	10.0015
11:32:01				1099	9.41711	1.1960653	5.5105	1.51404	3.56532	10.01259
11:32:02				1100	9.42009	1.1840005	5.5105	1.56288	3.76068	9.90266
11:32:02				1101	9.36056	1.1868965	5.5105	1.51404	3.95604	9.94531
11:32:03				1102	9.35472	1.1862537	5.4121	1.51404	3.61416	9.94113
11:32:03				1103	9.344	1.1825539	5.4121	1.51404	3.4188	9.91059
11:32:04				1104	9.31177	1.1799807	5.4121	1.51404	3.76068	9.89618
11:32:04				1105	9.26587	1.1778904	5.4121	1.56288	3.95604	9.88989
11:32:05				1106	9.2444	1.1796581	5.4121	1.51404	4.29792	9.91187
11:32:05				1107	9.2092	1.1767647	5.4121	1.51404	4.1514	9.89533
11:32:06				1108	9.15736	1.1737074	5.4121	1.51404	4.54212	9.88186
11:32:06				1109	9.09668	1.1621276	5.3137	1.4652	4.49328	9.79319
11:32:07				1110	9.03589	1.1566592	5.4121	1.51404	4.68864	9.76001
11:32:07				1111	9.0075	1.1489397	5.3137	1.56288	5.17705	9.6974
11:32:08				1112	8.9849	1.1545692	5.4121	1.4652	5.32357	9.75489
11:32:08				1113	8.97021	1.1523171	5.4121	1.56288	5.32357	9.73836
11:32:09				1114	8.96433	1.1429886	5.4121	1.51404	5.27473	9.65483
11:32:09				1115	8.96041	1.1339847	5.4121	1.51404	5.37241	9.57377
11:32:10				1116	8.96531	1.1265851	5.4121	1.51404	5.32357	9.50502
11:32:10				1117	8.97119	1.1217611	5.4121	1.4652	5.37241	9.45953
11:32:11				1118	8.97903	1.1175798	5.4121	1.56288	5.32357	9.41939
11:32:11				1119	8.98294	1.1198323	5.4121	1.56288	5.37241	9.43885
11:32:12				1120	8.97609	1.1211188	5.4121	1.51404	5.27473	9.45238
11:32:12				1121	8.97119	1.1254604	5.4121	1.51404	5.27473	9.49321
11:32:13				1122	8.97413	1.118385	5.4121	1.4652	5.22589	9.42801
11:32:13				1123	8.97413	1.1224057	5.4121	1.51404	5.37241	9.46461
11:32:14				1124	8.96825	1.1127573	5.4121	1.56288	5.42125	9.37835
11:32:14				1125	8.98392	1.1060031	5.4121	1.51404	5.51893	9.31282
11:32:15				1126	8.99176	1.1002143	5.4121	1.56288	5.17705	9.25818
11:32:15				1127	9.00456	1.0961931	5.4121	1.51404	5.12821	9.21836
11:32:16				1128	9.01435	1.0839748	5.4121	1.51404	5.17705	9.10502
11:32:16				1129	9.02904	1.072237	5.4121	1.51404	5.22589	8.99498
11:32:17				1130	9.04672	1.0653224	5.4121	1.4652	4.98168	8.92799
11:32:17				1131	9.0614	1.0625908	5.4121	1.51404	5.22589	8.89964
11:32:18				1132	9.07217	1.070147	5.4121	1.51404	5.03053	8.96523
11:32:18				1133	9.0663	1.0627514	5.4121	1.51404	5.07937	8.89987

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:19				1134	9.07804	1.0638759	5.4121	1.56288	4.98168	8.9071
11:32:19				1135	9.07608	1.0585698	5.4121	1.4652	5.03053	8.85967
11:32:20				1136	9.09473	1.0487646	5.5105	1.51404	5.03053	8.76659
11:32:20				1137	9.11136	1.051818	5.4121	1.51404	5.17705	8.79005
11:32:21				1138	9.10549	1.051818	5.5105	1.51404	5.07937	8.79148
11:32:21				1139	9.10451	1.0418511	5.5105	1.56288	5.03053	8.7019
11:32:22				1140	9.1182	1.0378315	5.4121	1.51404	5.03053	8.66239
11:32:22				1141	9.12895	1.0350984	5.4121	1.51404	4.98168	8.6352
11:32:23				1142	9.13091	1.032849	5.5105	1.51404	5.03053	8.61448
11:32:23				1143	9.14172	1.0227225	5.5105	1.51404	4.884	8.52087
11:32:24				1144	9.15541	1.0248116	5.5105	1.51404	4.73748	8.53637
11:32:24				1145	9.17495	1.0236854	5.4121	1.51404	4.884	8.52161
11:32:25				1146	9.18283	1.0122725	5.4121	1.56288	4.93284	8.41738
11:32:25				1147	9.18283	1.0039144	5.4121	1.51404	4.83516	8.34249
11:32:26				1148	9.17593	1.0005396	5.4121	1.51404	5.07937	8.31387
11:32:26				1149	9.16909	0.9970037	5.4121	1.51404	4.93284	8.28379
11:32:27				1150	9.16322	0.9958784	5.4121	1.51404	4.93284	8.27507
11:32:27				1151	9.16225	0.9976461	5.4121	1.4652	5.03053	8.29113
11:32:28				1152	9.16322	1.0003784	5.4121	1.56288	4.884	8.31538
11:32:28				1153	9.1642	0.9995762	5.4121	1.56288	4.83516	8.30796
11:32:29				1154	9.16518	0.9957173	5.4121	1.51404	5.03053	8.27318
11:32:29				1155	9.15345	0.9962005	5.4121	1.51404	5.12821	8.28022
11:32:30				1156	9.1427	1.0015035	5.4121	1.51404	4.93284	8.33024
11:32:30				1157	9.13977	0.9941098	5.4121	1.51404	4.884	8.26465
11:32:31				1158	9.13781	0.9970038	5.4121	1.51404	5.07937	8.29104
11:32:31				1159	9.14172	1.0034321	5.3137	1.51404	4.93284	8.34777
11:32:32				1160	9.14857	1.0087364	5.3137	1.51404	4.93284	8.39374
11:32:32				1161	9.14954	1.0080936	5.3137	1.4652	4.78632	8.38774
11:32:33				1162	9.14563	1.0063254	5.2153	1.51404	4.93284	8.37281
11:32:33				1163	9.13586	1.0085767	5.117	1.51404	4.884	8.39531
11:32:34				1164	9.13189	1.0092197	5.2153	1.51404	5.17705	8.402
11:32:34				1165	9.12407	1.0106659	5.2153	1.51404	5.07937	8.41682
11:32:35				1166	9.1427	1.0257754	5.3137	1.56288	4.98168	8.54809
11:32:35				1167	9.19064	1.0524621	5.3137	1.51404	4.98168	8.77639
11:32:36				1168	9.29227	1.0601776	5.4121	1.51404	5.03053	8.82073
11:32:36				1169	9.26587	1.084455	5.4121	1.4652	4.98168	9.04552
11:32:37				1170	9.29909	1.1114689	5.5105	1.51404	4.98168	9.28034
11:32:37				1171	9.36446	1.0672511	5.5105	14.94505	4.83516	8.86637
11:32:38				1172	9.38303	1.0786671	5.5105	5.71429	5.27473	8.9641
11:32:38				1173	9.44928	1.0855808	5.4121	6.00733	5.03053	9.00949
11:32:39				1174	9.4561	1.0931365	5.5105	7.96093	5.17705	9.07545
11:32:39				1175	9.4688	1.0910468	5.5105	9.08425	5.17705	9.05353
11:32:40				1176	9.47269	1.0831686	5.5105	10.64713	5.22589	8.98203
11:32:40				1177	9.51062	1.0728778	5.6089	10.01221	5.12821	8.8806
11:32:41				1178	9.56509	1.0727164	5.3137	8.54701	5.03053	8.86578

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:32:41				1179	9.57778	1.0532632	5.5105	7.81441	5.12821	8.68937
11:32:42				1180	9.49506	1.0572834	5.5105	7.61905	5.03053	8.74522
11:32:42				1181	9.43274	1.0613028	5.6089	8.79121	5.32357	8.79631
11:32:43				1182	9.41912	1.0651604	5.6089	7.03297	4.83516	8.83416
11:32:43				1183	9.45026	1.0683771	5.4121	6.25153	4.93284	8.85529
11:32:44				1184	9.49603	1.0637137	5.5105	8.20513	5.32357	8.80238
11:32:44				1185	9.48534	1.0651602	5.6089	9.37729	5.61661	8.8179
11:32:45				1186	9.48047	1.0670898	5.5105	9.62149	5.17705	8.83634
11:32:45				1187	9.49409	1.0632318	5.5105	9.76801	5.17705	8.79855
11:32:46				1188	9.51353	1.0569606	5.5105	9.57265	5.12821	8.73786
11:32:46				1189	9.51353	1.0614631	5.6089	9.08425	5.03053	8.778
11:32:47				1190	9.48145	1.0653209	5.5105	8.20513	4.93284	8.8203
11:32:47				1191	9.46783	1.0613027	5.6089	4.05372	5.17705	8.78773
11:32:48				1192	9.46193	1.0551938	5.6089	2.6862	4.93284	8.73461
11:32:48				1193	9.4668	1.052299	5.5105	1.51404	5.12821	8.7076
11:32:49				1194	9.45901	1.0531035	5.4121	1.66056	4.884	8.71668
11:32:49				1195	9.42204	1.0524613	5.5105	1.51404	5.07937	8.7199
11:32:50				1196	9.3879	1.051175	5.6089	8.20513	4.93284	8.71668
11:32:50				1197	9.384	1.0487637	5.6089	7.47253	5.07937	8.69606
11:32:51				1198	9.384	1.0502089	5.6089	6.39805	4.98168	8.70898
11:32:51				1199	9.37718	1.0497271	5.6089	6.00733	4.884	8.70633
11:32:52				1200	9.37231	1.0476387	5.6089	5.56777	5.17705	8.68882
11:32:52				1201	9.36933	1.04828	5.6089	3.80952	5.03053	8.69528
11:32:53				1202	9.35959	1.0428156	5.6089	3.663	4.83516	8.64876
11:32:53				1203	9.34692	1.0441004	5.5105	3.95604	4.98168	8.66332
11:32:54				1204	9.34205	1.034135	5.6089	3.663	4.98168	8.57533
11:32:55				1207	9.28434	1.0409106	5.6089	2.00244	5.12821	8.64984
11:32:56				1208	9.28044	1.0417141	5.4121	2.05128	4.93284	8.65801
11:32:56				1209	9.27947	1.0335159	5.5105	2.00244	4.884	8.58478
11:32:57				1210	9.28532	1.0331937	5.6089	1.66056	4.98168	8.58048
11:32:57				1211	9.29117	1.0315875	5.6089	1.51404	5.07937	8.5647
11:32:58				1212	9.29019	1.0282109	5.6089	1.56288	5.03053	8.53471
11:32:58				1213	9.28922	1.0302999	5.6089	1.51404	4.93284	8.55364
11:32:59				1214	9.28532	1.029015	5.6089	1.51404	5.12821	8.54306
11:32:59	11:31:35 end transect	15	90	1215	9.27947	1.0286934	5.6089	1.51404	5.12821	8.54158
11:33:00				1216	9.27947	1.0259607	5.6089	1.4652	4.884	8.51712
11:33:00				1217	9.28044	1.0238707	5.6089	1.51404	4.83516	8.49818
11:33:01				1218	9.27648	1.0254787	5.6089	1.56288	4.78632	8.51351
11:33:01				1219	9.25794	1.0254788	5.6089	1.51404	5.07937	8.51792
11:33:02				1220	9.24428	1.0166365	5.6089	1.51404	4.83516	8.44198
11:33:02				1221	9.24623	1.0188877	5.6089	1.51404	5.27473	8.46167
11:33:03				1222	9.24818	1.0164763	5.6089	1.51404	5.37241	8.43963
11:33:03				1223	9.24818	1.0177618	5.6089	1.51404	4.93284	8.45113
11:33:04				1224	9.2394	1.0172792	5.6089	1.51404	5.07937	8.44888
11:33:04				1225	9.23257	1.0118156	5.6089	1.56288	5.22589	8.40158

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:05				1226	9.22372	1.0127791	5.6089	1.51404	5.17705	8.41228
11:33:05				1227	9.21298	1.0118156	5.6089	1.51404	5.51893	8.40618
11:33:06				1228	9.20907	1.0069926	5.6089	1.51404	5.17705	8.3639
11:33:06				1229	9.212	0.9978298	5.6089	1.51404	4.98168	8.28123
11:33:07				1230	9.21689	1.0018488	5.6089	1.56288	4.884	8.31605
11:33:07				1231	9.21396	1.0021716	5.6089	1.56288	5.51893	8.31962
11:33:08				1232	9.20907	1.0039391	5.6089	1.51404	4.93284	8.33657
11:33:08				1233	9.20614	1.0000805	5.6089	1.56288	5.03053	8.30272
11:33:09				1234	9.20126	1.0034568	5.6089	1.51404	5.17705	8.33407
11:33:09				1235	9.18856	1.0044217	5.6089	1.51404	5.03053	8.34567
11:33:10				1236	9.1631	1.0020103	5.6089	1.51404	5.03053	8.33
11:33:10				1237	9.14062	1.0015284	5.6089	1.51404	5.12821	8.33092
11:33:11				1238	9.12199	1.0012058	5.6089	1.56288	5.47009	8.33237
11:33:11				1239	9.11319	1.0015285	5.6089	1.51404	5.42125	8.33731
11:33:12				1240	9.11319	0.9960623	5.6089	1.51404	5.17705	8.28828
11:33:12	11:31:48	15	90	1241	9.1347	1.0008851	5.5105	1.56288	5.12821	8.32654
11:33:13	moving toward discharge			1242	9.13568	1.0037779	5.6089	1.51404	5.22589	8.35224
11:33:13				1243	9.1347	1.0005625	5.6089	1.56288	5.37241	8.32364
11:33:14				1244	9.14649	0.9891524	5.6089	1.56288	5.51893	8.21868
11:33:14				1245	9.16897	0.9936517	5.6089	1.51404	5.42125	8.25378
11:33:15				1246	9.17287	1.0060291	5.6089	1.51404	5.17705	8.36373
11:33:15				1247	9.17971	1.0098855	5.6089	1.4652	5.12821	8.39669
11:33:16				1248	9.20126	1.0224243	5.6089	1.51404	5.12821	8.50401
11:33:16				1249	9.26867	1.0613287	5.6089	1.51404	5.27473	8.83686
11:33:17				1250	9.3136	1.0627759	5.6089	1.51404	5.17705	8.83877
11:33:17				1251	9.33998	1.0430003	5.6089	1.51404	5.07937	8.65514
11:33:18				1252	9.3019	1.0312655	5.6089	9.08425	5.03053	8.55925
11:33:18				1253	9.28044	1.0717782	5.5105	5.32357	5.22589	8.92784
11:33:19				1254	9.31945	1.0833565	5.6089	5.03053	5.51893	9.02211
11:33:19				1255	9.34388	1.0745118	5.6089	5.51893	5.17705	8.93657
11:33:20				1256	9.339	1.0666332	5.6089	5.37241	5.07937	8.8671
11:33:20				1257	9.33218	1.0843207	5.6089	4.59096	4.98168	9.02757
11:33:21				1258	9.32926	1.0822308	5.6089	4.6398	4.884	9.00953
11:33:21				1259	9.33218	1.0844804	5.6089	4.884	5.17705	9.02901
11:33:22				1260	9.32828	1.0888226	5.7073	5.07937	4.93284	9.069
11:33:22				1261	9.32926	1.1086	5.6089	5.17705	4.98168	9.24669
11:33:23				1262	9.3468	1.1127817	5.6089	4.884	4.98168	9.27981
11:33:23				1263	9.35849	1.1089218	5.6089	4.73748	4.98168	9.24205
11:33:24				1264	9.35459	1.1484839	5.6089	5.51893	5.27473	9.59962
11:33:24	11:32:00	14	90	1265	9.34972	1.1422123	5.6089	5.61661	5.17705	9.54431
11:33:25				1266	9.32432	1.1311148	5.6089	7.22833	4.93284	9.4509
11:33:25				1267	9.32536	1.1219474	5.6089	7.71673	4.98168	9.36795
11:33:26				1268	9.32633	1.1632803	5.6089	7.61905	5.12821	9.74095
11:33:26				1269	9.29312	1.1632804	5.6089	7.32601	5.42125	9.74998
11:33:27				1270	9.22177	1.1552395	5.7073	5.37241	5.22589	9.69648

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:27	11:32:03	13	90	1271	9.20419	1.1447856	5.7073	4.6398	5.12821	9.60645
11:33:28				1272	9.23153	1.1581349	5.7073	3.663	5.32357	9.72008
11:33:28				1273	9.20517	1.1582965	5.7073	3.76068	5.51893	9.72871
11:33:29				1274	9.17483	1.1476801	5.6089	3.4188	5.42125	9.64061
11:33:29				1275	9.20126	1.1415684	5.6089	3.02808	5.32357	9.5781
11:33:30				1276	9.212	1.1578122	5.6089	2.97924	5.47009	9.72247
11:33:30				1277	9.17385	1.2075165	5.7073	2.97924	5.12821	10.18509
11:33:31				1278	9.14356	1.236958	5.7073	2.73504	5.27473	10.46269
11:33:31				1279	9.13177	1.2113788	5.7073	2.6862	5.32357	10.23234
11:33:32				1280	9.13959	1.1851565	5.6089	2.14896	5.27473	9.99099
11:33:32				1281	9.15431	1.2411396	5.7073	1.85592	5.22589	10.49779
11:33:33				1282	9.14258	1.2358312	5.6089	1.75824	5.22589	10.45269
11:33:33				1283	9.14551	1.2443584	5.6089	1.7094	5.17705	10.52984
11:33:34				1284	9.15333	1.2477374	5.7073	1.56288	5.07937	10.55844
11:33:34	11:32:10	12	90	1285	9.15724	1.2274644	5.6089	1.7094	5.17705	10.37194
11:33:35				1286	9.17092	1.2237655	5.6089	1.51404	4.884	10.3342
11:33:35				1287	9.18264	1.3140329	5.7073	1.56288	4.83516	11.15757
11:33:36				1288	9.18264	1.2552993	5.7073	1.51404	4.49328	10.61896
11:33:36				1289	9.17776	1.2239258	5.7073	1.51404	4.20024	10.33367
11:33:37				1290	9.17874	1.2136289	5.6089	1.51404	4.10256	10.23945
11:33:37				1291	9.17971	1.2858707	5.6089	1.4652	4.29792	10.89992
11:33:38				1292	9.16701	1.3277136	5.7073	1.51404	4.3956	11.28831
11:33:38	11:32:14	11	90	1293	9.14844	1.3072737	5.6089	1.56288	4.884	11.1061
11:33:39				1294	9.13568	1.2684929	5.7073	1.51404	4.34676	10.75385
11:33:39				1295	9.15724	1.2834572	5.6089	1.56288	4.1514	10.88462
11:33:40				1296	9.15431	1.2837792	5.7073	1.51404	4.44444	10.88845
11:33:40				1297	9.15138	1.2744466	5.7073	1.51404	4.93284	10.80372
11:33:41				1298	9.15431	1.2644702	5.7073	1.51404	4.6398	10.71138
11:33:41				1299	9.16115	1.2477374	5.6089	1.51404	4.59096	10.55615
11:33:42				1300	9.16213	1.2618963	5.7073	1.56288	4.6398	10.68546
11:33:42				1301	9.1631	1.2384049	5.7073	1.51404	4.83516	10.4702
11:33:43				1302	9.16408	1.2297169	5.7073	1.51404	4.49328	10.39052
11:33:43				1303	9.16897	1.219099	5.6089	1.51404	4.3956	10.29216
11:33:44				1304	9.17092	1.2313258	5.6089	1.4652	4.54212	10.40324
11:33:44				1305	9.16701	1.2059083	5.6089	1.56288	5.03053	10.17239
11:33:45				1306	9.16408	1.2322925	5.7073	1.51404	4.78632	10.41405
11:33:45	11:32:21	10	90	1307	9.15822	1.2141129	5.7073	1.51404	4.83516	10.24973
11:33:46				1308	9.16017	1.2018869	5.7073	1.51404	4.884	10.13765
11:33:46				1309	9.16603	1.201564	5.6089	1.51404	5.07937	10.13306
11:33:47				1310	9.16115	1.2010819	5.6089	1.51404	4.68864	10.13005
11:33:47				1311	9.15724	1.1968987	5.6089	1.51404	4.93284	10.09302
11:33:48				1312	9.15822	1.1919139	5.7073	1.51404	5.37241	10.04731
11:33:48				1313	9.15626	1.1914311	5.7073	1.56288	4.83516	10.04346
11:33:49				1314	9.15724	1.1858011	5.7073	1.51404	4.83516	9.99191
11:33:49				1315	9.15333	1.2012434	5.7073	1.51404	4.73748	10.13372

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:50				1316	9.15626	1.1923946	5.7073	1.51404	4.884	10.05224
11:33:50				1317	9.15724	1.1875688	5.7073	1.4652	4.93284	10.00801
11:33:51				1318	9.15138	1.1909483	5.7073	1.51404	4.83516	10.04044
11:33:51	11:32:27	9	90	1319	9.1504	1.1972212	5.6089	1.56288	4.78632	10.09789
11:33:52				1320	9.15431	1.1898221	5.7073	1.51404	4.73748	10.02935
11:33:52				1321	9.15919	1.1862831	5.7073	1.51404	4.98168	9.99576
11:33:53				1322	9.15822	1.1870866	5.6089	1.4652	4.98168	10.00336
11:33:53				1323	9.15431	1.1867652	5.7073	1.51404	5.17705	10.00151
11:33:54	11:32:30	8	90	1324	9.16017	1.2012434	5.7073	1.51404	5.37241	10.13178
11:33:55				1327	9.20798	1.2045819	5.7073	1.51404	4.78632	10.14865
11:33:56				1328	9.22457	1.1939649	5.6089	1.51404	4.68864	10.04737
11:33:56				1329	9.22457	1.1992734	5.7073	1.51404	4.68864	10.09564
11:33:57				1330	9.21872	1.2190588	5.6089	1.51404	4.83516	10.2775
11:33:57				1331	9.22262	1.2002393	5.7073	1.56288	4.68864	10.10498
11:33:58				1332	9.2109	1.2066723	5.6089	1.56288	4.78632	10.16687
11:33:58				1333	9.20407	1.2176116	5.6089	1.51404	4.49328	10.26851
11:33:59				1334	9.207	1.2476968	5.6089	1.51404	4.73748	10.54226
11:33:59				1335	9.1943	1.2378813	5.6089	1.4652	4.3956	10.45631
11:34:00				1336	9.19528	1.2269426	5.6089	1.51404	4.10256	10.35615
11:34:00	11:32:36	7	90	1337	9.18447	1.2386867	5.7073	1.56288	4.05372	10.46652
11:34:01				1338	9.18252	1.2399733	5.7073	1.56288	4.00488	10.47885
11:34:01				1339	9.17764	1.2512365	5.7073	1.51404	4.05372	10.58328
11:34:02				1340	9.16884	1.2576724	5.7073	1.51404	4.10256	10.64478
11:34:02				1341	9.16493	1.2390089	5.6089	1.51404	4.10256	10.4752
11:34:03				1342	9.16982	1.2615336	5.6089	1.51404	4.05372	10.67986
11:34:03				1343	9.17373	1.2433523	5.7073	1.51404	4.29792	10.51232
11:34:04				1344	9.16689	1.2388478	5.7073	1.56288	4.05372	10.47314
11:34:04	11:32:40	6	90	1345	9.16787	1.2398122	5.6089	1.51404	3.95604	10.48169
11:34:05				1346	9.17275	1.2283897	5.6089	1.51404	4.1514	10.37589
11:34:05				1347	9.16884	1.2423868	5.6089	1.51404	4.29792	10.50494
11:34:06				1348	9.15516	1.2372397	5.6089	1.4652	4.29792	10.46189
11:34:06				1349	9.15712	1.2346646	5.6089	1.51404	4.1514	10.43777
11:34:07				1350	9.15614	1.2277475	5.6089	1.51404	4.20024	10.37484
11:34:07				1351	9.1493	1.2274243	5.6089	1.51404	4.3956	10.37387
11:34:08				1352	9.14441	1.2383647	5.7073	1.51404	4.34676	10.47531
11:34:08				1353	9.14441	1.2269428	5.7073	1.4652	4.10256	10.37088
11:34:09				1354	9.14539	1.2304823	5.6089	1.51404	4.1514	10.40296
11:34:09	11:32:45	5	90	1355	9.14343	1.2272638	5.6089	1.51404	4.24908	10.37411
11:34:10				1356	9.14343	1.2768198	5.6089	1.51404	4.34676	10.82791
11:34:10				1357	9.13555	1.2607296	5.7073	1.56288	4.20024	10.68271
11:34:11				1358	9.13555	1.2402958	5.7073	1.51404	3.80952	10.49557
11:34:11				1359	9.13653	1.2526833	5.7073	1.4652	3.663	10.6087
11:34:12				1360	9.13555	1.2933927	5.6089	1.51404	3.95604	10.98248
11:34:12				1361	9.13458	1.3168876	5.6089	1.51404	3.9072	11.19887
11:34:13				1362	9.12676	1.2921057	5.7073	1.56288	3.95604	10.97334

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:13				1363	9.12382	1.2739221	5.6089	1.51404	3.76068	10.80726
11:34:14				1364	9.12969	1.3271877	5.6089	1.51404	3.663	11.29527
11:34:14				1365	9.11796	1.4973443	5.6089	1.51404	3.95604	12.87698
11:34:15				1366	9.05529	1.3553524	5.7073	1.4652	3.80952	11.57911
11:34:15	11:32:51	4	90	1367	9.06899	1.3725742	5.6089	1.51404	3.71184	11.73407
11:34:16				1368	9.05529	1.4517786	5.6089	1.56288	3.61416	12.4744
11:34:16				1369	9.00725	1.5115169	5.6089	1.51404	3.56532	13.04966
11:34:17				1370	8.93951	1.5361556	5.7073	1.51404	3.51648	13.3059
11:34:17				1371	8.85208	1.4901004	5.7073	1.51404	3.27228	12.90526
11:34:18				1372	8.88845	1.426825	5.7073	1.51404	3.12576	12.29953
11:34:18				1373	8.91003	1.5057191	5.6089	1.51404	3.12576	13.03086
11:34:19				1374	8.87275	1.5266547	5.6089	1.51404	3.22344	13.24143
11:34:19	11:32:55	3	90	1375	8.84422	1.5013736	5.7073	1.56288	3.12576	13.01408
11:34:20				1376	8.85502	1.4939642	5.6089	1.51404	3.22344	12.94051
11:34:20				1377	8.85601	1.4921941	5.6089	1.51404	3.4188	12.92352
11:34:21				1378	8.86386	1.4794718	5.7073	1.51404	3.32112	12.8012
11:34:21				1379	8.8668	1.4812431	5.6089	1.51404	3.1746	12.81679
11:34:22				1380	8.85699	1.4561254	5.7073	1.56288	3.12576	12.58471
11:34:22				1381	8.87079	1.4913886	5.7073	1.51404	3.1746	12.91057
11:34:23				1382	8.86386	1.4609556	5.6089	1.51404	3.32112	12.62757
11:34:23				1383	8.86877	1.4627277	5.6089	1.51404	3.32112	12.64243
11:34:24				1384	8.89336	1.4355173	5.6089	1.51404	3.46764	12.37909
11:34:24	11:33:00	2	90	1385	8.92088	1.4350341	5.6089	1.51404	3.27228	12.36501
11:34:25				1386	8.9503	1.425535	5.6089	1.51404	3.56532	12.26618
11:34:25				1387	8.96506	1.3740224	5.6089	1.51404	3.61416	11.78175
11:34:26				1388	8.99054	1.3550308	5.7073	1.51404	3.61416	11.59716
11:34:26				1389	9.019	1.3564782	5.7073	1.4652	3.663	11.60132
11:34:27				1390	9.03858	1.3537435	5.6089	1.51404	3.80952	11.56966
11:34:27				1391	9.05822	1.2777844	5.6089	1.56288	3.71184	10.86264
11:34:28				1392	9.07779	1.2880821	5.7073	1.51404	3.71184	10.95137
11:34:28				1393	9.09638	1.3112543	5.6089	1.56288	3.85836	11.15895
11:34:29				1394	9.09149	1.33282	5.6089	1.51404	3.76068	11.35931
11:34:29	11:33:05	1	90	1395	9.0866	1.338936	5.6089	1.51404	3.80952	11.41732
11:34:30				1396	9.09149	1.3421549	5.6089	1.51404	3.663	11.44548
11:34:30				1397	9.09638	1.3246117	5.6089	1.51404	3.46764	11.28205
11:34:31				1398	9.10818	1.3086809	5.7073	1.51404	3.4188	11.13155
11:34:31				1399	9.11991	1.2512368	5.6089	1.56288	3.663	10.60039
11:34:32				1400	9.11698	1.2906579	5.7073	1.51404	3.80952	10.96304
11:34:32				1401	9.116	1.2845415	5.6089	1.51404	3.663	10.90715
11:34:33				1402	9.12089	1.2356301	5.5105	1.4652	4.05372	10.45721
11:34:33				1403	9.12871	1.2467304	5.6089	1.51404	3.9072	10.55651
11:34:34				1404	9.13946	1.2541327	5.7073	1.56288	3.85836	10.6211
11:34:34				1405	9.13849	1.2441568	5.6089	1.51404	3.9072	10.53006
11:34:35				1406	9.14539	1.2343429	5.6089	1.51404	3.76068	10.43826
11:34:35				1407	9.15125	1.2393312	5.6089	1.51404	3.80952	10.48216

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:36				1408	9.14832	1.2282292	5.6089	1.51404	3.9072	10.38151
11:34:36				1409	9.15223	1.2267823	5.6089	1.51404	4.05372	10.36716
11:34:37				1410	9.15712	1.2312857	5.7073	1.51404	3.95604	10.40688
11:34:37				1411	9.15223	1.2251733	5.6089	1.56288	4.00488	10.35246
11:34:38				1412	9.15907	1.2076384	5.6089	1.51404	3.9072	10.19043
11:34:38				1413	9.15809	1.2073172	5.6089	1.51404	4.1514	10.18777
11:34:39				1414	9.16103	1.210212	5.6089	1.51404	4.49328	10.21334
11:34:39				1415	9.16298	1.2100524	5.6089	1.4652	4.3956	10.21133
11:34:40				1416	9.16103	1.2061896	5.8056	1.51404	4.24908	10.17662
11:34:40				1417	9.16103	1.203617	5.6089	1.56288	4.05372	10.1532
11:34:41				1418	9.15907	1.2031346	5.6089	1.51404	4.00488	10.14935
11:34:41				1419	9.16298	1.2066725	5.7073	1.51404	4.1514	10.18049
11:34:42				1420	9.15907	1.2132693	5.6089	1.4652	4.1514	10.2418
11:34:42				1421	9.162	1.217934	5.6089	1.51404	4.24908	10.28353
11:34:43				1422	9.16005	1.2066725	5.6089	1.51404	4.1514	10.18134
11:34:43				1423	9.16103	1.1989509	5.5105	1.51404	4.00488	10.11067
11:34:44				1424	9.16005	1.1947705	5.4121	1.56288	4.05372	10.07287
11:34:44				1425	9.15419	1.1756284	5.117	1.4652	4.29792	9.90026
11:34:45				1426	9.15223	1.1527889	4.7234	1.51404	4.44444	9.69323
11:34:45				1427	9.1248	1.1469998	4.4283	1.51404	4.3956	9.6481
11:34:46				1428	9.07486	1.1257728	4.1331	1.51404	4.68864	9.4687
11:34:46				1429	9.08855	1.0680479	3.838	1.56288	4.73748	8.94237
11:34:47				1430	9.10915	1.0006906	3.5428	1.56288	5.17705	8.33101
11:34:47				1431	9.10426	1.0207826	3.2477	1.51404	5.12821	8.51266
11:34:48				1432	9.32615	0.969672	3.0509	1.51404	5.32357	8.00449
11:34:48				1433	9.32322	0.8133569	2.8542	1.4652	5.32357	6.62573
11:34:49				1434	9.2891	0.656998	2.6574	12.11233	5.66545	5.27444
11:34:49				1435	9.22848	0.5195255	2.2639	6.30037	6.88645	4.1103
11:34:50				1436	9.37493	0.408601	1.8703	2.63736	7.96093	3.16901
11:34:50				1437	9.5289	0.3630993	1.4768	2.63736	7.96093	2.78326
11:34:51				1438	9.56679	0.3501251	1.1817	1.4652	9.03541	2.67495
11:34:51				1439	9.55999	0.3318648	0.9849	1.51404	8.98657	2.52759
11:34:52				1440	9.58336	0.3350687	0.9849	1.56288	9.03541	2.55184
11:34:52				1441	9.60472	0.3326666	0.9849	1.51404	9.32845	2.53094
11:34:53				1442	9.60861	0.330905	0.9849	1.56288	8.98657	2.51645
11:34:53				1443	9.61055	0.3317048	0.8865	1.51404	9.18193	2.52277
11:34:54				1444	9.6154	0.3317048	0.6898	1.56288	9.81685	2.52244
11:34:55				1447	9.661	0.1852406	0.5914	2.53968	4.00488	1.36091
11:34:56				1448	9.67555	0.3317166	0.5914	1.61172	3.22344	2.51836
11:34:56				1449	9.69403	0.3349202	0.6898	1.51404	2.97924	2.54287
11:34:57				1450	9.71245	0.3446904	0.6898	1.56288	2.9304	2.62035
11:34:57				1451	9.72699	0.3496571	0.6898	1.4652	2.83272	2.65939
11:34:58				1452	9.74449	0.3575053	0.6898	1.56288	2.6862	2.72151
11:34:58				1453	9.76677	0.1412492	0.6898	1.4652	2.53968	1.02043
11:34:59				1454	9.77839	0.0581101	0.5914	1.51404	2.58852	0.40367

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:59				1455	9.79781	0.0403717	0.5914	0	0	0.27672
11:35:00	11:33:44 switch off	0.2	90	1456	9.81813	0.0386131	0.5914	0	0	0.26414
11:37:01	11:35:35 switch on	10	90	7	9.65349	0.3262955	1.0833	0	0	2.4762
11:37:02				8	9.64864	0.3259752	1.0833	0	0	2.47395
11:37:02				9	9.64961	0.3270958	1.1817	0	0	2.48291
11:37:03				10	9.64767	0.325655	1.2801	0	0	2.47143
11:37:03				11	9.64864	0.3258144	1.2801	0	0	2.47265
11:37:04				12	9.65058	0.3259752	1.2801	0	0	2.47381
11:37:04				13	9.65058	0.3270958	1.2801	0	0	2.48284
11:37:05				14	9.6467	0.3261361	1.2801	0	0	2.47537
11:37:05				15	9.65155	0.3259752	1.2801	0	0	2.47375
11:37:06				16	9.64864	0.3266159	1.2801	0	0	2.4791
11:37:06				17	9.64767	0.3266159	1.2801	0	0	2.47917
11:37:07				18	9.6467	0.3261361	1.2801	0	0	2.47537
11:37:07				19	9.64864	0.3259752	1.2801	0	0	2.47395
11:37:08				20	9.64961	0.3259752	1.2801	0	0	2.47388
11:37:08				21	9.6467	0.3262955	1.2801	0	0	2.47666
11:37:09				22	9.6467	0.3266159	1.2801	0	0	2.47924
11:37:09				23	9.64476	0.3262955	1.2801	0	0	2.47679
11:37:10				24	9.64573	0.3261361	1.2801	0	0	2.47544
11:37:10				25	9.64282	0.3262955	1.2801	0	0	2.47692
11:37:11				26	9.64476	0.3264564	1.2801	0	0	2.47809
11:37:11				27	9.64767	0.3264564	1.2801	0	0	2.47789
11:37:12				28	9.6467	0.3261361	1.2801	0	0	2.47537
11:37:12				29	9.64864	0.3259752	1.2801	0	0	2.47395
11:37:13				30	9.64961	0.3259752	1.2801	0	0	2.47388
11:37:13				31	9.65155	0.3261361	1.2801	0	0	2.47504
11:37:14				32	9.65058	0.3259752	1.2801	0	0	2.47381
11:37:14				33	9.65155	0.325655	1.2801	0	0	2.47117
11:37:15				34	9.65155	0.325655	1.2801	0	0	2.47117
11:37:15				35	9.65058	0.3262955	1.2801	0	0	2.47639
11:37:16				36	9.65058	0.3261361	1.2801	0	0	2.47511
11:37:16				37	9.64961	0.3258144	1.2801	0	0	2.47258
11:37:17				38	9.65155	0.3261361	1.2801	0	0	2.47504
11:37:17				39	9.64864	0.3261361	1.2801	0	0	2.47524
11:37:18				40	9.64961	0.3259752	1.2801	0	0	2.47388
11:37:18				41	9.64864	0.3262955	1.2801	0	0	2.47652
11:37:19				42	9.64864	0.3262955	1.2801	0	0	2.47652
11:37:19				43	9.65058	0.3258144	1.2801	0	0	2.47252
11:37:20				44	9.64864	0.3258144	1.2801	0	0	2.47265
11:37:20				45	9.65058	0.3262955	1.2801	0	0	2.47639
11:37:21				46	9.64961	0.3259752	1.2801	0	0	2.47388
11:37:21				47	9.65058	0.3258144	1.2801	0	0	2.47252
11:37:22				48	9.65058	0.3262955	1.2801	0	0	2.47639

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:22				49	9.64961	0.3261361	1.2801	0	0	2.47517
11:37:23				50	9.64961	0.3264564	1.2801	0	0	2.47775
11:37:23				51	9.64864	0.3262955	1.2801	0	0	2.47652
11:37:24				52	9.64864	0.3259752	1.2801	0	0	2.47395
11:37:24				53	9.64961	0.3259752	1.2801	0	0	2.47388
11:37:25				54	9.64864	0.3262955	1.2801	0	0	2.47652
11:37:25				55	9.64961	0.3264564	1.2801	0	0	2.47775
11:37:26				56	9.65155	0.3261361	1.2801	0	0	2.47504
11:37:26				57	9.65155	0.3259752	1.2801	0	0	2.47375
11:37:27				58	9.65058	0.3262955	1.2801	0	0	2.47639
11:37:27				59	9.6467	0.3261361	1.2801	0	0	2.47537
11:37:28				60	9.63208	0.3259752	1.2801	0	0	2.47508
11:37:28				61	9.6282	0.3264564	1.2801	0	0	2.47922
11:37:29				62	9.61267	0.3264565	1.2801	0	0	2.48028
11:37:29				63	9.61947	0.3291783	1.2801	0	0	2.50176
11:37:30				64	9.62917	0.3286977	1.2801	0	0	2.49721
11:37:30				65	9.61947	0.3272568	1.2801	0	0	2.48627
11:37:31				66	9.61267	0.3274163	1.2801	0	0	2.48802
11:37:31				67	9.60976	0.33014	1.3784	0	0	2.51018
11:37:32				68	9.6117	0.3299801	1.2801	0	0	2.50876
11:37:32				69	9.60491	0.328538	1.2801	0	0	2.4976
11:37:33				70	9.60296	0.3298188	1.2801	0	0	2.50807
11:37:33				71	9.59908	0.3291783	1.2801	0	0	2.50317
11:37:34				72	9.59028	0.3283784	1.2801	0	0	2.49732
11:37:34				73	9.59125	0.33014	1.2801	0	0	2.51147
11:37:35				74	9.59222	0.3341443	1.2801	0	0	2.54374
11:37:35				75	9.58931	0.3286977	1.2801	0	0	2.49996
11:37:36				76	9.58057	0.3299802	1.2801	0	0	2.51092
11:37:36				77	9.57863	0.3355859	1.2801	0	0	2.55635
11:37:37				78	9.57572	0.3370275	1.2801	0	0	2.56821
11:37:37				79	9.57475	0.3323824	1.2801	0	0	2.53073
11:37:38				80	9.57183	0.3311008	1.2801	0	0	2.52058
11:37:38				81	9.5728	0.3325425	1.2801	0	0	2.53216
11:37:39				82	9.57183	0.3341443	1.2801	0	0	2.54517
11:37:39				83	9.5728	0.3362263	1.2801	0	0	2.56194
11:37:40				84	9.5728	0.3344649	1.2801	0	0	2.54769
11:37:40				85	9.57086	0.3306211	1.2801	0	0	2.51677
11:37:41				86	9.57377	0.3351047	1.2801	0	0	2.5528
11:37:41				87	9.57377	0.3394306	1.3784	0	0	2.58779
11:37:42				88	9.57475	0.3344649	1.2801	0	0	2.54756
11:37:42				89	9.5728	0.3320623	1.2801	0	0	2.52828
11:37:43				90	9.57475	0.3363868	1.2801	0	0	2.5631
11:37:43				91	9.57572	0.3399102	1.2801	0	0	2.59153
11:37:44				92	9.57669	0.3349459	1.2801	0	0	2.55131
11:37:44				93	9.57669	0.333984	1.2801	0	0	2.54353

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:45				94	9.57766	0.3392698	1.2801	0	0	2.58621
11:37:45				95	9.57669	0.3407119	1.2801	0	0	2.59795
11:37:46				96	9.57863	0.3443965	1.2801	0.78144	0.39072	2.62764
11:37:46				97	9.5728	0.3443965	1.4768	0.29304	0.04884	2.62806
11:37:47				98	9.57572	0.3447163	1.2801	1.51404	1.02564	2.63045
11:37:47				99	9.57669	0.3442366	1.2801	1.4652	9.03541	2.62649
11:37:48				100	9.57669	0.3443965	1.2801	1.51404	9.47497	2.62778
11:37:48				101	9.57766	0.3445564	1.2801	1.4652	9.32845	2.62901
11:37:49				102	9.57572	0.3448762	1.2801	1.51404	9.47497	2.63174
11:37:49				103	9.57766	0.3455175	1.2801	1.51404	9.32845	2.6368
11:37:50				104	9.57572	0.3458375	1.2801	1.51404	9.42613	2.63953
11:37:50				105	9.57377	0.3453575	1.2801	1.56288	10.01221	2.63578
11:37:51				106	9.57377	0.3455175	1.3784	1.4652	9.23077	2.63707
11:37:51				107	9.57669	0.3456775	1.2801	1.51404	9.42613	2.63816
11:37:52				108	9.57572	0.34728	1.2801	1.51404	9.27961	2.65122
11:37:52				109	9.57183	0.3476003	1.2801	1.4652	9.32845	2.6541
11:37:53				110	9.57183	0.3474401	1.2801	1.4652	9.67033	2.6528
11:37:53				111	9.5728	0.34728	1.2801	1.51404	9.08425	2.65143
11:37:54				112	9.57183	0.34728	1.2801	1.51404	9.81685	2.65151
11:37:54				113	9.56892	0.3469596	1.2801	1.51404	9.37729	2.64912
11:37:55				114	9.56892	0.3469596	1.2801	1.4652	9.52381	2.64912
11:37:55				115	9.56892	0.3467995	1.2801	1.51404	9.37729	2.64782
11:37:56				116	9.56989	0.3466394	1.2801	1.51404	9.67033	2.64645
11:37:56				117	9.56989	0.3466394	1.2801	1.51404	9.76801	2.64645
11:37:57				118	9.57377	0.3456775	1.2801	1.51404	9.08425	2.63838
11:37:57				119	9.57183	0.3455175	1.2801	1.51404	10.30525	2.63722
11:37:58				120	9.5728	0.3463192	1.2801	1.56288	9.62149	2.64365
11:37:58				121	9.57377	0.3466394	1.2801	1.4652	9.23077	2.64617
11:37:59				122	9.5728	0.3471198	1.2801	1.4652	9.18193	2.65014
11:37:59				123	9.57086	0.3490414	1.2801	1.4652	9.37729	2.66586
11:38:00				124	9.56503	0.3512852	1.2801	1.51404	9.57265	2.68449
11:38:01				127	9.55659	0.354604	1.2801	1.51404	9.42613	2.71207
11:38:02				128	9.55168	0.354604	1.2801	1.51404	9.18193	2.71244
11:38:02				129	9.54876	0.3544431	1.3784	1.51404	9.08425	2.71135
11:38:03				130	9.54779	0.355084	1.2801	1.51404	9.42613	2.71663
11:38:03				131	9.54585	0.3541228	1.2801	1.56288	9.71917	2.70897
11:38:04				132	9.54293	0.3547635	1.2801	1.51404	9.67033	2.71439
11:38:04				133	9.54487	0.3542837	1.2801	1.51404	9.03541	2.71035
11:38:05				134	9.54099	0.3515595	1.2801	1.51404	9.18193	2.68851
11:38:05				135	9.54293	0.3525206	1.2801	1.51404	9.47497	2.69617
11:38:06				136	9.54585	0.3541228	1.2801	1.51404	9.13309	2.70897
11:38:06				137	9.54682	0.3544431	1.2801	1.51404	9.52381	2.7115
11:38:07				138	9.54779	0.3536416	1.2801	1.51404	9.03541	2.70491
11:38:07				139	9.54682	0.3541228	1.2801	1.51404	8.98657	2.70889
11:38:08				140	9.54585	0.3531622	1.2801	1.51404	9.42613	2.70116

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:08				141	9.54682	0.3534823	1.2801	1.51404	9.57265	2.70369
11:38:09				142	9.54779	0.3554045	1.2801	1.4652	9.52381	2.71923
11:38:09				143	9.54487	0.3554045	1.2801	1.4652	9.52381	2.71945
11:38:10				144	9.54293	0.3554045	1.2801	1.4652	9.52381	2.7196
11:38:10				145	9.54196	0.3554045	1.2801	1.51404	9.42613	2.71967
11:38:11				146	9.53904	0.3560458	1.2801	1.4652	9.52381	2.7251
11:38:11				147	9.54002	0.3558847	1.2801	1.4652	9.23077	2.72372
11:38:12				148	9.54099	0.3560458	1.2801	1.4652	9.32845	2.72496
11:38:12				149	9.53807	0.3608502	1.2801	1.51404	9.27961	2.76426
11:38:13				150	9.52933	0.3634139	1.2801	1.4652	9.42613	2.7858
11:38:13				151	9.52641	0.3650153	1.2801	1.4652	9.42613	2.79907
11:38:14				152	9.52155	0.3608502	1.2801	1.4652	9.47497	2.76552
11:38:14				153	9.52058	0.36037	1.3784	1.4652	9.47497	2.76168
11:38:15				154	9.52155	0.36005	1.2801	1.51404	9.52381	2.75901
11:38:15				155	9.52544	0.362452	1.2801	1.4652	10.10989	2.77826
11:38:16				156	9.52836	0.36021	1.2801	1.4652	9.27961	2.75979
11:38:16				157	9.52544	0.3614923	1.2801	1.4652	9.08425	2.77045
11:38:17				158	9.52447	0.3610103	1.2801	1.4652	9.18193	2.7666
11:38:17				159	9.51961	0.3611705	1.2801	1.51404	9.62149	2.76828
11:38:18				160	9.5235	0.3618126	1.2801	1.4652	9.32845	2.77321
11:38:18				161	9.52252	0.3634139	1.3784	1.51404	9.27961	2.78632
11:38:19				162	9.51961	0.3653364	1.3784	1.51404	9.08425	2.80221
11:38:19				163	9.51572	0.3656561	1.4768	1.51404	9.32845	2.80511
11:38:20				164	9.51475	0.3666184	1.4768	1.51404	9.42613	2.81303
11:38:20				165	9.51475	0.3706227	1.5752	1.51404	10.20757	2.84569
11:38:21				166	9.50794	0.3727049	1.772	1.51404	9.91453	2.86321
11:38:21				167	9.50594	0.3757501	1.8703	1.51404	9.76801	2.88824
11:38:22				168	9.49816	0.4124418	1.8703	1.51404	9.47497	3.1898
11:38:22				169	9.44655	0.429589	2.0671	1.51404	9.81685	3.33592
11:38:23				170	9.38321	0.4127617	2.2639	1.51404	9.52381	3.20261
11:38:23				171	9.36568	0.4134032	2.3623	1.51404	9.32845	3.20946
11:38:24				172	9.36269	0.4460964	2.3623	1.51404	9.62149	3.48071
11:38:24				173	9.31689	0.4332752	2.6574	1.51404	9.62149	3.37853
11:38:25				174	9.2905	0.4023471	2.6574	1.56288	9.23077	3.12471
11:38:25				175	9.29147	0.4049104	2.8542	1.51404	9.37729	3.1458
11:38:26				176	9.32956	0.4134033	2.9526	1.51404	9.42613	3.21266
11:38:26				177	9.36957	0.4563561	2.9526	1.51404	9.62149	3.56536
11:38:27				178	9.3471	0.4521871	3.0509	1.51404	9.71917	3.53286
11:38:27				179	9.29245	0.5592934	3.1493	1.51404	9.23077	4.43928
11:38:28				180	9.20254	0.6862031	3.3461	1.51404	9.42613	5.53937
11:38:28				181	9.06941	0.6438364	3.4445	1.51404	8.88889	5.19303
11:38:29				182	9.01258	0.7847723	3.4445	1.51404	7.52137	6.43144
11:38:29				183	9.04397	0.7549085	3.7396	1.4652	7.37485	6.16359
11:38:30				184	9.0518	0.7351614	3.7396	1.4652	6.10501	5.98942
11:38:30				185	9.07333	0.7492878	3.7396	1.51404	5.76313	6.10933

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:31				186	9.07333	0.7687148	3.7396	1.51404	5.95849	6.27952
11:38:31				187	9.06648	0.7818813	3.7396	1.51404	6.30037	6.39631
11:38:32				188	9.05278	0.7059445	3.7396	1.51404	6.25153	5.73431
11:38:32				189	9.06159	0.727937	3.7396	1.51404	6.15385	5.92467
11:38:33				190	9.05963	0.7891085	3.7396	1.56288	6.34921	6.46106
11:38:33				191	9.04201	0.7791534	3.838	1.51404	6.00733	6.3767
11:38:34				192	9.03118	0.8086988	3.838	1.51404	5.51893	6.63881
11:38:34				193	9.02433	0.8128747	3.9364	1.51404	5.51893	6.67692
11:38:35				194	9.02531	0.8082187	3.9364	1.51404	5.42125	6.63565
11:38:35				195	9.02922	0.8053281	3.9364	1.56288	5.51893	6.60943
11:38:36				196	9.02922	0.8058096	4.0348	1.51404	5.07937	6.61367
11:38:36				197	9.0302	0.872785	3.9364	1.51404	5.07937	7.2062
11:38:37				198	9.12034	0.8827451	4.0348	1.51404	5.51893	7.27631
11:38:37				199	9.3725	0.8400174	4.1331	1.51404	5.37241	6.84988
11:38:38				200	9.41151	0.8429083	4.1331	1.51404	5.37241	6.86776
11:38:38				201	9.40658	0.8358415	4.1331	6.34921	5.61661	6.80682
11:38:39				202	9.43584	0.860576	4.0348	5.61661	5.27473	7.01792
11:38:39				203	9.42708	0.8780861	4.1331	4.884	6.30037	7.17335
11:38:40				204	9.42222	0.8591306	4.0348	4.44444	5.95849	7.0079
11:38:40				205	9.41443	0.8363232	4.1331	4.10256	5.51893	6.80955
11:38:41				206	9.36763	0.8552753	4.1331	3.9072	5.27473	6.98468
11:38:41				207	9.40658	0.8935084	4.1331	2.78388	5.61661	7.31316
11:38:42				208	9.46607	0.8600953	4.1331	3.76068	5.56777	7.0078
11:38:42				209	9.48844	0.8570433	4.1331	7.91209	5.12821	6.97672
11:38:43				210	9.46996	0.8711777	4.1331	7.66789	5.12821	7.10419
11:38:43				211	9.49816	0.8922227	4.1331	4.83516	5.22589	7.28326
11:38:44				212	9.53224	0.8729452	4.0348	7.42369	5.51893	7.10739
11:38:44				213	9.52738	0.8801746	4.1331	9.52381	5.22589	7.17168
11:38:45				214	9.52252	0.8983275	4.1331	9.18193	5.56777	7.33193
11:38:45				215	9.54099	0.8922226	4.1331	9.86569	5.32357	7.2746
11:38:46				216	9.55757	0.8904554	4.1331	9.91453	4.98168	7.25576
11:38:46				217	9.56339	0.8788898	4.1331	10.01221	4.98168	7.15327
11:38:47				218	9.57116	0.879532	4.1331	10.10989	5.12821	7.15735
11:38:47				219	9.57408	0.8825835	4.1331	9.71917	5.22589	7.18348
11:38:48				220	9.57505	0.8764783	4.1331	9.03541	5.42125	7.12985
11:38:48				221	9.51961	0.8862787	4.1331	8.10745	5.32357	7.22676
11:38:49				222	9.53224	0.8845117	4.0348	6.69109	5.32357	7.20874
11:38:49				223	9.5128	0.880657	4.1331	6.15385	5.32357	7.17882
11:38:50				224	9.46607	0.9066831	4.1331	7.61905	5.22589	7.41697
11:38:50				225	9.47968	0.9057185	4.1331	9.52381	5.47009	7.40568
11:38:51				226	9.48357	0.8856369	4.1331	10.84249	5.47009	7.22837
11:38:51	11:37:27 start transect	10	90	227	9.45141	0.9023445	4.1331	11.52625	5.03053	7.38179
11:38:52				228	9.46898	0.9061997	4.1331	9.27961	5.17705	7.41212
11:38:52				229	9.49233	0.9076459	4.1331	9.86569	5.37241	7.42003
11:38:53				230	9.5001	0.9060399	4.1331	10.79365	5.22589	7.4043

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:53				231	9.50399	0.9105386	4.1331	10.69597	5.47009	7.44307
11:38:54				232	9.51183	0.8959177	4.1331	9.71917	5.27473	7.31294
11:38:54				233	9.51766	0.9061996	4.0348	9.18193	5.32357	7.4021
11:38:55				234	9.5235	0.9060398	4.0348	9.62149	5.37241	7.3995
11:38:55				235	9.54487	0.9044328	4.1331	12.79609	5.17705	7.38098
11:38:56				236	9.5507	0.9061995	4.0348	14.16361	5.17705	7.39531
11:38:56				237	9.5507	0.9113427	4.0348	13.28449	5.17705	7.4405
11:38:57				238	9.56436	0.9090926	4.0348	13.43101	5.22589	7.41791
11:38:57				239	9.56728	0.9037902	4.0348	13.62637	5.37241	7.37077
11:38:58				240	9.57796	0.9005781	4.0348	13.33333	5.37241	7.3404
11:38:58				241	9.5935	0.8988092	4.0348	12.79609	5.27473	7.32173
11:38:59				242	9.61006	0.9148765	4.0348	12.55189	5.27473	7.45926
11:38:59				243	9.65476	0.9195348	4.0348	12.40537	5.17705	7.49086
11:39:00				244	9.6567	0.9548874	4.0348	14.21245	5.17705	7.80098
11:39:01				247	9.46272	0.9661239	4.0348	10.15873	5.17705	7.94256
11:39:02				248	9.44807	0.9603382	4.0348	10.59829	5.22589	7.89455
11:39:02				249	9.4432	0.9596963	4.0348	11.33089	5.12821	7.88994
11:39:03				250	9.43639	0.9653215	4.1331	12.50305	5.17705	7.94126
11:39:03				251	9.43444	0.9633928	4.1331	11.08669	5.27473	7.92459
11:39:04				252	9.45001	0.9619466	4.1331	10.84249	5.17705	7.90835
11:39:04				253	9.46272	0.9585718	4.1331	11.47741	5.03053	7.87569
11:39:05				254	9.46175	0.9532675	4.1331	11.62393	5.27473	7.82897
11:39:05				255	9.46661	0.95825	4.1331	11.67277	5.17705	7.87199
11:39:06				256	9.46759	0.9699805	4.1331	11.13553	5.12821	7.97563
11:39:06				257	9.46078	0.966606	4.1331	10.79365	5.07937	7.94725
11:39:07				258	9.45299	0.9519832	4.1331	10.15873	5.17705	7.81952
11:39:07				259	9.45494	0.9604992	4.1331	10.01221	5.32357	7.89446
11:39:08				260	9.45494	0.9555186	4.1331	9.96337	5.37241	7.85037
11:39:08				261	9.4598	0.9669267	4.1331	10.64713	5.22589	7.9503
11:39:09				262	9.45099	0.9691769	4.1331	11.08669	5.32357	7.97219
11:39:09				263	9.43055	0.9450722	4.1331	12.79609	5.03053	7.76325
11:39:10				264	9.44028	0.9690174	4.1331	12.01465	5.03053	7.97315
11:39:10				265	9.44028	0.9688559	4.1331	12.89377	5.22589	7.97172
11:39:11				266	9.414	0.9669268	4.1331	15.62882	5.17705	7.96044
11:39:11				267	9.40622	0.9582502	4.1331	13.43101	4.98168	7.88523
11:39:12				268	9.41108	0.9675704	4.1331	10.10989	5.12821	7.9668
11:39:12				269	9.42179	0.9715886	4.1331	14.84737	5.32357	8.00006
11:39:13				270	9.41303	0.9731955	4.1331	12.74725	5.12821	8.01627
11:39:13				271	9.41108	0.9653216	4.1331	7.76557	5.03053	7.94685
11:39:14				272	9.41985	0.9670882	4.1331	6.34921	5.03053	7.96058
11:39:14				273	9.44418	0.9686944	4.1331	8.20513	5.07937	7.96942
11:39:15				274	9.43736	0.9666061	4.1331	10.74481	5.17705	7.95242
11:39:15				275	9.43931	0.9641947	4.1331	9.13309	5.07937	7.93063
11:39:16				276	9.44028	0.9641947	4.1331	8.98657	5.17705	7.93041
11:39:16				277	9.4637	0.9603381	4.1331	11.96581	5.51893	7.89111

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:17				278	9.48023	0.9595353	4.1331	13.08913	5.12821	7.88038
11:39:17				279	9.48607	0.9585717	4.1331	13.18681	5.07937	7.87058
11:39:18				280	9.49287	0.9608211	4.1331	12.99145	4.93284	7.88898
11:39:18				281	9.5046	0.9704631	4.1331	13.72405	5.42125	7.97169
11:39:19				282	9.50752	0.9696593	4.1331	14.16361	5.03053	7.96394
11:39:19				283	9.49676	0.9674088	4.1331	12.01465	5.03053	7.9464
11:39:20				284	9.48801	0.972231	4.1331	10.45177	5.07937	7.99102
11:39:20				285	9.47148	0.9709459	4.0348	10.59829	5.56777	7.98333
11:39:21				286	9.35941	0.9664449	4.1331	11.33089	5.03053	7.96827
11:39:21				287	9.33401	0.9595357	4.1331	12.16117	4.93284	7.91252
11:39:22				288	9.40719	0.9568027	4.1331	12.74725	5.03053	7.87219
11:39:22				289	9.48218	0.9603381	4.1331	15.38462	5.37241	7.88705
11:39:23				290	9.49482	0.9595352	4.1331	16.4591	5.07937	7.87718
11:39:23				291	9.49093	0.9576065	4.1331	14.31013	5.07937	7.86098
11:39:24				292	9.49385	0.9587326	4.1331	12.94261	5.22589	7.8703
11:39:24				293	9.49093	0.9656419	4.1331	14.40781	5.22589	7.93205
11:39:25				294	9.42569	0.9604993	4.1331	13.62637	5.42125	7.90088
11:39:25				295	9.38668	0.9569636	4.1331	3.663	4.93284	7.87811
11:39:26				296	9.46175	0.9566418	4.0348	7.17949	5.22589	7.85884
11:39:26				297	9.41692	0.9551973	4.1331	9.03541	5.47009	7.85584
11:39:27				298	9.31939	0.9535891	4.1331	2.39316	4.98168	7.86293
11:39:27				299	9.33498	0.9516626	4.1331	2.49084	5.03053	7.84241
11:39:28				300	9.36622	0.9531072	4.1331	2.39316	4.98168	7.8484
11:39:28				301	9.37986	0.9527861	4.1331	7.81441	5.03053	7.84257
11:39:29				302	9.40427	0.9497332	4.1331	6.73993	5.22589	7.8102
11:39:29				303	9.38765	0.9478054	4.1331	6.44689	4.98168	7.79673
11:39:30				304	9.35746	0.9431439	4.1331	5.61661	5.03053	7.76197
11:39:30				305	9.29592	0.9449125	4.0348	3.56532	5.07937	7.79101
11:39:31				306	9.28715	0.9431441	4.1331	1.61172	5.12821	7.7772
11:39:31				307	9.27447	0.9389678	4.1331	5.22589	5.07937	7.74286
11:39:32				308	9.23147	0.9349494	4.1331	4.49328	5.27473	7.71645
11:39:32				309	9.17379	0.9351111	4.1331	1.7094	5.07937	7.73033
11:39:33				310	9.14637	0.9339869	4.1331	1.7094	5.03053	7.72624
11:39:33				311	9.18551	0.9327015	4.1331	1.51404	4.98168	7.70636
11:39:34				312	9.19919	0.9344691	4.1331	1.51404	5.17705	7.71913
11:39:34				313	9.16005	0.933666	4.1331	1.51404	5.17705	7.72043
11:39:35				314	9.1493	0.936236	4.1331	1.51404	5.03053	7.74564
11:39:35				315	9.17086	0.9380038	4.1331	1.51404	5.17705	7.75671
11:39:36				316	9.15907	0.941861	4.0348	1.51404	5.12821	7.79364
11:39:36				317	9.1405	0.9421809	4.1331	1.51404	5.03053	7.80053
11:39:37				318	9.13464	0.9400926	4.1331	1.51404	4.98168	7.78319
11:39:37				319	9.14539	0.9389682	4.1331	1.51404	5.17705	7.77083
11:39:38				320	9.14246	0.9410576	4.1331	1.51404	5.22589	7.79009
11:39:38				321	9.13561	0.9399328	4.1331	1.51404	4.98168	7.78155
11:39:39				322	9.13561	0.9404142	4.1331	1.51404	5.12821	7.78585

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:39				323	9.13464	0.9402524	4.1331	1.4652	5.17705	7.78462
11:39:40				324	9.1317	0.9378423	4.1331	1.51404	5.17705	7.76377
11:39:40				325	9.14343	0.9386467	4.1331	1.56288	4.98168	7.76839
11:39:41				326	9.13855	0.9371996	4.1331	1.56288	5.12821	7.75656
11:39:41				327	9.13073	0.9349497	4.1331	1.4652	5.37241	7.7382
11:39:42				328	9.14539	0.9368784	4.0348	1.51404	5.22589	7.75222
11:39:42				329	9.14148	0.933666	4.1331	1.51404	5.17705	7.72444
11:39:43				330	9.13561	0.9335046	4.0348	1.51404	5.12821	7.72428
11:39:43				331	9.13464	0.9325403	4.1331	1.51404	5.03053	7.71589
11:39:44				332	9.12388	0.9306128	4.1331	1.51404	4.98168	7.70103
11:39:44				333	9.12486	0.929166	4.1331	1.56288	5.12821	7.68794
11:39:45				334	9.12486	0.9383254	4.1331	1.56288	5.32357	7.76956
11:39:45				335	9.1317	0.9245067	4.1331	1.4652	5.07937	7.64498
11:39:46				336	9.14441	0.9282012	4.1331	1.51404	4.884	7.67514
11:39:46				337	9.15614	0.9347902	4.1331	1.56288	5.12821	7.73128
11:39:47				338	9.14246	0.9484493	4.1331	1.51404	5.12821	7.856
11:39:47	11:38:23 end transect	10	180	339	9.13659	0.9317377	4.1331	1.4652	5.03053	7.70832
11:39:48	moving to 135			340	9.14539	0.9298087	4.0348	1.51404	5.03053	7.68926
11:39:48				341	9.14343	0.9302903	4.0348	1.51404	5.17705	7.69396
11:39:49				342	9.14539	0.9245066	4.0348	1.56288	5.22589	7.64206
11:39:49				343	9.16597	0.9148658	4.0348	1.4652	5.07937	7.55197
11:39:50				344	9.19723	0.9184003	4.0348	1.51404	5.22589	7.57676
11:39:50				345	9.19333	0.9383251	3.9364	1.51404	5.17705	7.75473
11:39:51				346	9.17672	0.9428245	4.0348	1.56288	5.12821	7.79838
11:39:51				347	9.17184	0.9346286	4.0348	1.51404	5.03053	7.72647
11:39:52				348	9.165	0.9355937	4.0348	1.51404	5.03053	7.73654
11:39:52				349	9.16695	0.9479664	4.0348	1.51404	5.12821	7.84633
11:39:53				350	9.16298	0.9547161	4.0348	1.56288	5.07937	7.90739
11:39:53				351	9.15809	0.9490905	4.1331	1.51404	5.17705	7.85829
11:39:54				352	9.16597	0.9434665	4.0348	1.51404	5.03053	7.80644
11:39:54				353	9.1689	0.9445908	4.0348	1.51404	5.03053	7.81582
11:39:55				354	9.16597	0.9408957	4.1331	1.51404	5.12821	7.78353
11:39:55				355	9.1689	0.9410575	4.1331	1.51404	5.32357	7.78433
11:39:56				356	9.17379	0.9391278	4.2315	1.51404	5.17705	7.76607
11:39:56				357	9.17477	0.9420208	4.1331	1.51404	5.07937	7.79164
11:39:57				358	9.17672	0.9426626	4.1331	1.51404	4.83516	7.79693
11:39:57				359	9.20993	0.9407357	4.1331	1.51404	5.12821	7.77255
11:39:58				360	9.20798	0.9423426	4.1331	1.56288	5.32357	7.78727
11:39:58				361	9.1904	0.9452351	4.1331	1.51404	5.07937	7.81686
11:39:59				362	9.1816	0.9437885	4.1331	1.51404	4.884	7.80589
11:39:59				363	9.17574	0.9455553	4.0348	1.51404	4.884	7.82292
11:40:00				364	9.17379	0.9452351	4.1331	1.51404	4.98168	7.82048
11:40:01				367	9.17556	0.9376926	4.1331	1.51404	4.884	7.75292
11:40:02				368	9.1413	0.9372097	4.1331	1.51404	5.07937	7.75605
11:40:02				369	9.13152	0.935925	4.1331	1.4652	5.03053	7.74672

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:03				370	9.12663	0.9348004	4.1331	1.51404	5.03053	7.73776
11:40:03				371	9.1149	0.9351214	4.1331	1.56288	5.12821	7.74316
11:40:04				372	9.1061	0.9341565	4.1331	1.56288	5.17705	7.73646
11:40:04				373	9.10512	0.9349599	4.0348	1.51404	5.17705	7.74385
11:40:05				374	9.10512	0.9362462	4.1331	1.51404	5.22589	7.75531
11:40:05				375	9.10219	0.9357635	4.1331	1.51404	5.17705	7.75164
11:40:06				376	9.10414	0.9360846	4.1331	1.51404	5.07937	7.75408
11:40:06				377	9.10708	0.9388167	4.1331	1.56288	5.37241	7.77781
11:40:07				378	9.1061	0.9373715	4.1331	1.51404	5.37241	7.76513
11:40:07				379	9.12761	0.9362462	4.1331	1.51404	4.93284	7.75043
11:40:08				380	9.18924	0.9365671	4.1331	1.51404	4.98168	7.73995
11:40:08				381	9.19906	0.9399407	4.1331	1.51404	5.07937	7.76784
11:40:09				382	9.16677	0.9409058	4.1331	1.56288	5.32357	7.78345
11:40:09				383	9.18631	0.938495	4.1331	1.56288	5.17705	7.75774
11:40:10				384	9.22152	0.9402623	4.1331	1.51404	5.17705	7.76583
11:40:10				385	9.18142	0.9447629	4.1331	1.51404	5.07937	7.81461
11:40:11				386	9.17165	0.9441187	4.1331	1.51404	5.07937	7.811
11:40:11				387	9.20102	0.941709	4.1331	1.4652	5.12821	7.78315
11:40:12				388	9.25477	0.9446006	4.1331	1.51404	5.17705	7.79718
11:40:12				389	9.3309	0.9401021	4.1331	1.56288	5.07937	7.74075
11:40:13				390	9.41869	0.9285327	4.1331	1.56288	5.17705	7.61957
11:40:13				391	9.46254	0.9243549	4.1331	1.51404	5.12821	7.57343
11:40:14				392	9.44016	0.9147147	3.9364	9.47497	5.03053	7.49313
11:40:14				393	9.45184	0.9103768	4.1331	7.27717	5.12821	7.45244
11:40:15				394	9.5015	0.915999	4.1331	8.88889	5.37241	7.49164
11:40:15				395	9.52781	0.9245155	4.1331	9.08425	5.42125	7.56112
11:40:16				396	9.52781	0.9360834	4.1331	9.71917	5.27473	7.66302
11:40:16				397	9.51997	0.9229073	4.1331	11.57509	5.17705	7.5486
11:40:17				398	9.52094	0.9190515	4.1331	13.23565	5.17705	7.51446
11:40:17				399	9.54141	0.9233896	4.1331	13.28449	5.27473	7.54835
11:40:18				400	9.51511	0.9296564	4.1331	12.94261	5.27473	7.60907
11:40:18				401	9.49664	0.9225858	4.1331	11.23321	5.27473	7.55067
11:40:19				402	9.51414	0.9230681	4.1331	10.45177	5.12821	7.55124
11:40:19				403	9.49956	0.9245156	4.1331	10.30525	5.42125	7.56706
11:40:20				404	9.48497	0.9208202	4.1331	11.18437	5.51893	7.53756
11:40:20				405	9.4674	0.9195333	4.1331	10.59829	5.12821	7.52989
11:40:21				406	9.48205	0.9209808	4.1331	9.76801	5.22589	7.53958
11:40:21				407	9.48983	0.9041097	4.1331	9.47497	5.17705	7.38944
11:40:22				408	9.46546	0.9031462	4.1331	8.74237	5.47009	7.38597
11:40:22				409	9.42946	0.9053952	4.1331	7.22833	5.32357	7.41318
11:40:23				410	9.42258	0.906841	4.1331	7.22833	5.37241	7.42734
11:40:23				411	9.42356	0.9140717	4.1331	6.44689	5.37241	7.4909
11:40:24				412	9.42745	0.9052355	4.1331	6.30037	5.12821	7.41219
11:40:24				413	9.41187	0.8963994	4.1331	5.61661	5.12821	7.33754
11:40:25				414	9.39532	0.8951126	4.1331	5.51893	5.22589	7.32958

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:25				415	9.37481	0.8991304	4.1331	6.34921	5.47009	7.3692
11:40:26				416	9.37578	0.8991304	4.1331	6.88645	5.32357	7.369
11:40:26				417	9.37286	0.9241943	4.0348	7.03297	5.27473	7.59095
11:40:27				418	9.36994	0.9238726	4.0348	7.27717	5.42125	7.58872
11:40:27				419	9.39532	0.9102149	4.1331	6.34921	5.51893	7.46275
11:40:28				420	9.38071	0.9004153	4.1331	5.95849	5.17705	7.37932
11:40:28				421	9.34168	0.9000946	4.0348	6.34921	5.27473	7.38452
11:40:29				422	9.33194	0.8986486	4.0348	6.73993	5.32357	7.37376
11:40:29				423	9.36215	0.8967198	4.1331	7.81441	5.07937	7.35053
11:40:30				424	9.36896	0.8947925	4.1331	8.00977	5.22589	7.33214
11:40:30				425	9.35533	0.8925429	4.0348	8.00977	5.12821	7.3151
11:40:31				426	9.33584	0.8959162	4.0348	8.15629	5.22589	7.34884
11:40:31				427	9.3524	0.8941485	3.9364	5.95849	5.32357	7.32987
11:40:32				428	9.37091	0.8967198	4.0348	5.32357	5.27473	7.34875
11:40:32				429	9.41577	0.8914186	4.0348	6.83761	5.27473	7.2929
11:40:33				430	9.40603	0.8843497	4.0348	7.22833	5.32357	7.23266
11:40:33				431	9.3563	0.8829047	4.0348	6.25153	5.32357	7.22995
11:40:34				432	9.30945	0.8830651	3.9364	4.73748	5.37241	7.24082
11:40:34				433	9.30555	0.8795308	3.9364	1.51404	5.22589	7.21043
11:40:35				434	9.27526	0.8753541	4.0348	1.51404	5.22589	7.17966
11:40:35				435	9.2225	0.8681248	4.0348	1.51404	5.07937	7.12639
11:40:36				436	9.17556	0.8610574	4.0348	1.56288	5.22589	7.07328
11:40:36	11:39:12 start transect	10	135	437	9.11686	0.8633071	4.0348	1.56288	5.17705	7.10481
11:40:37	moving toward discharge			438	9.13348	0.8732658	4.0348	1.51404	5.12821	7.18965
11:40:37				439	9.13152	0.8570423	4.0348	1.51404	5.17705	7.04649
11:40:38				440	9.04923	0.8457978	4.0348	1.51404	5.22589	6.96315
11:40:38				441	8.97964	0.8421051	3.9364	1.4652	5.32357	6.944
11:40:39				442	8.95508	0.8493323	3.9364	1.51404	5.37241	7.01293
11:40:39				443	8.96396	0.8502953	4.0348	1.51404	5.03053	7.01972
11:40:40				444	8.96886	0.8502953	3.9364	1.51404	5.12821	7.01876
11:40:40				445	8.9718	0.8626635	4.0348	1.51404	4.93284	7.12801
11:40:41				446	9.03259	0.860736	4.0348	1.51404	4.98168	7.09878
11:40:41	11:39:17	9	135	447	9.05223	0.8719808	4.0348	1.51404	5.03053	7.19461
11:40:42				448	9.15993	0.8723018	4.0348	1.56288	5.12821	7.17581
11:40:42				449	9.21957	0.8716592	4.0348	1.56288	4.884	7.15818
11:40:43				450	9.26941	0.8771208	4.0348	1.56288	5.22589	7.19642
11:40:43				451	9.38364	0.887401	4.0348	1.51404	5.17705	7.26404
11:40:44				452	9.45087	0.8867585	4.0348	1.51404	5.17705	7.24481
11:40:44				453	9.40019	0.8851537	4.0348	9.96337	5.17705	7.24091
11:40:45				454	9.27038	0.8830652	4.0348	10.06105	5.17705	7.24871
11:40:45				455	9.24501	0.882905	4.0348	5.86081	5.37241	7.25242
11:40:46				456	9.32895	0.8846707	4.0348	5.95849	5.22589	7.25103
11:40:46	11:39:22	8	135	457	9.38753	0.8832252	4.0348	7.37485	5.22589	7.22649
11:40:47				458	9.41577	0.8949534	4.0348	9.13309	5.27473	7.32402
11:40:47				459	9.43043	0.8992896	4.0348	8.64469	5.22589	7.35921

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:48				460	9.41674	0.8925427	4.0348	8.44933	5.17705	7.3026
11:40:48				461	9.42356	0.8954346	4.0348	7.42369	5.27473	7.32667
11:40:49				462	9.47032	0.902504	4.0348	7.71673	5.17705	7.37933
11:40:49				463	9.49859	0.8935061	4.0348	8.30281	5.12821	7.29446
11:40:50				464	9.5015	0.8946311	4.0348	8.59585	5.27473	7.30375
11:40:50				465	9.50636	0.9023424	3.9364	8.64469	5.32357	7.37053
11:40:51				466	9.5725	0.8981661	4.0348	10.10989	5.56777	7.32036
11:40:51				467	9.59392	0.8910965	4.0348	12.60073	5.27473	7.25407
11:40:52				468	9.52878	0.8893303	4.0348	12.50305	5.32357	7.2517
11:40:52				469	9.50345	0.8928643	3.9364	10.54945	5.32357	7.28785
11:40:53	11:39:29	7	135	470	9.50539	0.9412265	4.0348	10.74481	5.37241	7.71318
11:40:53				471	9.80549	0.9462061	4.0348	14.21245	5.37241	7.69287
11:40:54				472	9.83942	0.931423	4.0348	21.05006	5.17705	7.55645
11:40:54				473	9.76864	0.9359231	4.0348	21.88034	5.32357	7.61064
11:40:55				474	9.92649	0.9482947	3.9364	21.78266	5.27473	7.68544
11:40:55				475	10.09071	0.950866	3.838	23.83394	5.17705	7.6731
11:40:56				476	10.19773	0.9499012	4.0348	25.10379	5.17705	7.64218
11:40:56				477	10.17944	0.9338324	4.0348	30.32967	5.27473	7.50684
11:40:57				478	10.18426	0.9381705	4.0348	29.05983	5.12821	7.54339
11:40:57				479	10.08493	0.933189	4.0348	29.54823	5.03053	7.52079
11:40:58				480	10.07722	0.9296547	3.9364	28.32723	5.12821	7.49173
11:40:58	11:39:34	6	135	481	10.08879	0.9394566	3.9364	26.42247	5.17705	7.57439
11:40:59				482	10.01061	0.955525	4.0348	28.37607	5.32357	7.73061
11:40:59				483	9.94683	0.959383	4.0348	27.59463	5.32357	7.77789
11:41:00				484	9.93911	0.9642034	4.0348	26.61783	5.07937	7.82166
11:41:01				487	9.68804	0.9774015	3.9364	21.3431	5.22589	7.99235
11:41:02				488	9.63075	0.9839924	4.0348	18.85226	5.22589	8.06322
11:41:02	11:39:38	5	135	489	9.56266	0.9860819	4.0348	14.79853	5.12821	8.09695
11:41:03				490	9.51402	0.9658317	4.0348	12.74725	5.22589	7.92866
11:41:03				491	9.48874	0.9592419	3.9364	14.06593	5.37241	7.87594
11:41:04				492	9.50041	0.9528141	3.9364	14.55433	5.42125	7.81658
11:41:04				493	9.48971	0.9499217	4.0348	12.25885	5.27473	7.79333
11:41:05				494	9.47895	0.9650274	4.0348	13.38217	5.17705	7.92927
11:41:05				495	9.47215	0.984474	4.0348	13.67521	5.17705	8.10308
11:41:06				496	9.53546	0.9626173	4.0348	13.77289	5.37241	7.89553
11:41:06	11:39:42	4	135	497	9.72584	0.9756342	3.9364	16.16606	5.56777	7.96844
11:41:07				498	10.00566	0.9790087	3.9364	20.31746	5.22589	7.93655
11:41:07				499	10.26794	0.96615	4.1331	23.49206	5.22589	7.76807
11:41:08				500	10.25929	0.96615	4.1331	39.56044	5.12821	7.76991
11:41:08				501	10.24673	0.957311	4.1331	42.63736	5.12821	7.69603
11:41:09				502	10.25057	0.9259757	3.9364	42.05128	5.17705	7.42436
11:41:09				503	9.94671	0.9369042	4.0348	44.24908	5.17705	7.58184
11:41:10				504	9.49555	0.9457429	4.0348	56.99634	5.17705	7.75516
11:41:10	11:39:46	3	135	505	9.49846	0.9291931	4.1331	27.54579	5.32357	7.60851
11:41:11				506	9.53249	0.9406012	4.0348	30.52503	5.42125	7.70186

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:11				507	9.50819	0.9504028	4.0348	24.2735	5.51893	7.79358
11:41:12				508	9.37956	0.9544205	4.0348	11.23321	5.42125	7.85714
11:41:12				509	9.49944	0.9471885	4.0348	44.93284	5.22589	7.76709
11:41:13				510	9.45853	0.9335299	4.1331	88.59585	5.07937	7.65524
11:41:13	11:39:49	2	135	511	9.44101	0.921479	4.0348	88.64469	5.03053	7.5526
11:41:14				512	9.40396	0.9065374	4.0348	88.64469	5.07937	7.42853
11:41:14				513	9.30738	0.9066975	4.1331	12.94261	5.27473	7.44994
11:41:15				514	9.22726	0.9086259	4.1331	5.47009	5.27473	7.48371
11:41:15				515	9.2644	0.9010752	4.1331	4.54212	5.51893	7.40912
11:41:16				516	9.26733	0.8999494	4.1331	9.03541	5.47009	7.39855
11:41:16	11:39:52 end transect	1	135	517	9.29269	0.8917566	4.1331	12.50305	5.61661	7.32092
11:41:17				518	9.28196	0.9007543	4.1331	13.82173	5.37241	7.40265
11:41:17				519	9.31128	0.9070191	4.1331	13.23565	5.47009	7.45198
11:41:18				520	9.32883	0.8962544	4.1331	11.77045	5.47009	7.35325
11:41:18				521	9.33175	0.8962544	4.1331	7.76557	5.47009	7.35265
11:41:19				522	9.33078	0.9013959	4.0348	7.42369	5.37241	7.39826
11:41:19				523	9.32396	0.9092693	4.1331	7.81441	5.51893	7.46924
11:41:20				524	9.32591	0.9001106	4.1331	8.69353	5.66545	7.3879
11:41:20				525	9.33468	0.8845261	4.1331	9.91453	5.37241	7.24859
11:41:21				526	9.38735	0.8737639	4.1331	10.20757	5.32357	7.14327
11:41:21				527	9.42441	0.880511	4.0348	10.20757	5.32357	7.19521
11:41:22				528	9.44393	0.8874187	4.1331	10.98901	5.61661	7.252
11:41:22				529	9.45074	0.879064	4.1331	13.82173	5.76313	7.17722
11:41:23				530	9.45658	0.8819566	4.1331	14.65201	5.42125	7.20146
11:41:23				531	9.45269	0.8866158	4.0348	11.03785	5.37241	7.24319
11:41:24				532	9.41857	0.8898286	4.0348	9.13309	5.32357	7.27834
11:41:24				533	9.35813	0.8875795	4.0348	7.86325	5.71429	7.27077
11:41:25				534	9.34254	0.8850093	4.1331	8.54701	5.66545	7.25126
11:41:25				535	9.35131	0.8814743	4.1331	9.62149	5.22589	7.21834
11:41:26				536	9.38345	0.8875794	4.1331	7.76557	5.47009	7.26563
11:41:26				537	9.44588	0.9478316	4.1331	12.06349	5.51893	7.78434
11:41:27				538	9.58015	0.9094285	4.1331	40.78144	5.47009	7.4176
11:41:27				539	9.54712	0.8862945	4.1331	70.91575	5.17705	7.22138
11:41:28				540	9.66179	0.8989862	4.1331	91.57509	5.03053	7.30942
11:41:28				541	9.78988	0.943653	4.1331	93.13797	4.98168	7.67382
11:41:29				542	9.92637	0.9661511	4.1331	96.65446	5.07937	7.84143
11:41:29				543	10.09162	0.9139255	4.1331	199.90232	5.22589	7.35244
11:41:30				544	10.01724	0.9277435	4.1331	200	5.07937	7.48748
11:41:30				545	10.05974	0.9296729	4.1331	200	4.93284	7.49547
11:41:31				546	10.12245	0.9396345	4.1331	183.58974	4.93284	7.5689
11:41:31				547	10.17932	0.9425279	4.1331	146.71551	5.27473	7.58214
11:41:32				548	10.1851	0.9328861	4.1331	143.10134	5.22589	7.49747
11:41:32				549	10.16103	0.9303154	4.1331	105.15263	5.22589	7.48018
11:41:33				550	10.09451	0.9299932	4.1331	103.39438	5.22589	7.49108
11:41:33				551	10.08577	0.9038047	4.1331	68.47375	5.07937	7.26602

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:34				552	10.07903	0.9179423	4.1331	53.43101	5.22589	7.38978
11:41:34				553	10.05878	0.9169797	4.1331	53.38217	5.22589	7.38556
11:41:35				554	10.06071	0.9140858	4.1331	54.45665	5.32357	7.36008
11:41:35				555	9.99408	0.9238888	4.1331	45.81197	5.37241	7.45875
11:41:36				556	9.94961	0.9208348	4.1331	37.02076	5.56777	7.44133
11:41:36				557	9.94092	0.9179428	4.1331	31.25763	5.61661	7.41796
11:41:37				558	9.93023	0.9126405	4.1331	33.50427	5.27473	7.37402
11:41:37				559	9.91381	0.9152122	4.1331	33.50427	5.42125	7.39974
11:41:38				560	9.90994	0.9232458	4.1331	32.91819	5.27473	7.47048
11:41:38				561	9.89931	0.9137659	4.1331	18.1685	5.37241	7.39011
11:41:39				562	9.90124	0.9131231	4.1331	14.70085	5.37241	7.38413
11:41:39				563	9.89448	0.9115158	4.0348	16.60562	5.42125	7.37153
11:41:40				564	9.91091	0.9041264	4.1331	13.18681	5.37241	7.30391
11:41:40				565	9.90028	0.9108735	4.1331	22.02686	5.22589	7.36475
11:41:41				566	9.89544	0.9052501	4.1331	21.97802	5.22589	7.3168
11:41:41				567	9.86735	0.9182639	4.1331	19.6337	5.32357	7.43584
11:41:42				568	9.848	0.9118381	4.2315	17.14286	5.37241	7.38378
11:41:42				569	9.83833	0.908786	4.1331	17.24054	5.32357	7.35916
11:41:43				570	9.84317	0.9060549	4.1331	18.60806	5.51893	7.33438
11:41:43				571	9.8364	0.9071794	4.1331	19.58486	5.17705	7.34555
11:41:44				572	9.8422	0.8989857	4.1331	17.9243	5.32357	7.27302
11:41:44				573	9.8393	0.9010735	4.0348	16.31258	5.27473	7.29179
11:41:45				574	9.82473	0.8985019	4.1331	16.55678	5.27473	7.27231
11:41:45				575	9.7986	0.8983427	4.1331	16.75214	5.27473	7.27618
11:41:46				576	9.79763	0.9074991	4.1331	16.50794	5.32357	7.35622
11:41:46				577	9.77917	0.9152126	4.1331	17.09402	5.32357	7.42732
11:41:47				578	9.75496	0.911034	4.1331	18.94994	5.42125	7.39578
11:41:47				579	9.73268	0.9142491	4.1331	19.43834	5.32357	7.42846
11:41:48				580	9.70936	0.9123209	4.1331	19.82906	5.17705	7.41638
11:41:48				581	9.71324	0.9054123	4.1331	20.6105	5.27473	7.35517
11:41:49				582	9.7569	0.9245309	4.1331	20.3663	5.03053	7.51338
11:41:49				583	9.74915	0.9173015	4.0348	20.02442	5.03053	7.45177
11:41:50				584	9.72196	0.9076612	4.1331	18.75458	5.22589	7.37305
11:41:50				585	9.68416	0.9107141	4.1331	19.19414	5.32357	7.40749
11:41:51				586	9.66373	0.9095882	4.1331	19.97558	5.27473	7.40183
11:41:51				587	9.65306	0.8832403	4.1331	20.41514	5.17705	7.1735
11:41:52				588	9.655	0.8842044	4.1331	21.14774	5.17705	7.18154
11:41:52				589	9.64918	0.8915947	4.1331	21.00122	5.47009	7.2473
11:41:53				590	9.63948	0.8935236	4.1331	19.97558	5.37241	7.26613
11:41:53				591	9.64821	0.8901495	4.2315	18.36386	5.32357	7.23485
11:41:54				592	9.63463	0.8862943	4.1331	18.26618	5.47009	7.20387
11:41:54				593	9.59769	0.8835631	4.0348	15.82418	5.42125	7.18736
11:41:55				594	9.55781	0.8806707	3.9364	12.64957	5.47009	7.16999
11:41:55				595	9.55004	0.8564143	3.838	5.22589	5.56777	6.95933
11:41:56				596	9.45074	0.8311976	3.5428	2.6862	5.47009	6.75793

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:56				597	9.23897	0.7916911	3.4445	2.10012	5.56777	6.45139
11:41:57				598	9.1598	0.7546002	3.3461	1.51404	6.15385	6.141
11:41:57				599	9.07363	0.7619849	3.4445	1.56288	6.64225	6.22049
11:41:58				600	9.02953	0.7690511	3.3461	1.56288	6.73993	6.29022
11:41:58				601	9.02163	0.6871797	3.3461	1.56288	6.78877	5.57595
11:41:59				602	8.99715	0.7300368	3.3461	1.51404	7.03297	5.95378
11:41:59				603	8.97651	0.7200848	3.4445	1.51404	6.73993	5.87014
11:42:00				604	8.97651	0.6812415	3.3461	1.51404	6.73993	5.5313
11:42:01				607	8.96292	0.6170544	3.2477	1.51404	7.76557	4.97694
11:42:02				608	8.95704	0.6212244	3.2477	1.51404	7.76557	5.01377
11:42:02				609	8.97664	0.6032563	3.1493	1.4652	7.96093	4.85608
11:42:03				610	8.97958	0.5559374	3.1493	1.51404	8.10745	4.44953
11:42:03				611	8.9865	0.538455	3.1493	1.51404	8.35165	4.29935
11:42:04				612	8.99531	0.5650788	3.0509	1.51404	8.05861	4.52578
11:42:04				613	9.00413	0.5283525	3.0509	1.56288	8.10745	4.21117
11:42:05				614	9.00805	0.5442294	3.0509	1.56288	8.10745	4.34601
11:42:05				615	9.01196	0.5400587	3.0509	1.51404	7.96093	4.30996
11:42:06				616	9.01686	0.5291541	3.0509	1.56288	8.59585	4.21649
11:42:06				617	9.01294	0.5333243	3.0509	1.56288	8.69353	4.25246
11:42:07				618	9.01392	0.5312389	3.0509	1.51404	8.54701	4.23459
11:42:07				619	9.02567	0.5299561	2.9526	1.56288	8.79121	4.22228
11:42:08				620	9.03455	0.5424643	3.0509	1.51404	9.32845	4.32774
11:42:08				621	9.02567	0.5461541	3.0509	1.51404	8.49817	4.36028
11:42:09				622	9.02274	0.5577012	3.0509	1.51404	8.79121	4.45923
11:42:09				623	9.01098	0.5957168	3.0509	1.51404	8.59585	4.78658
11:42:10				624	9.00413	0.562353	3.0509	1.51404	8.44933	4.50134
11:42:10				625	9.0149	0.6014911	3.0509	1.51404	8.69353	4.8357
11:42:11				626	9.01196	0.6552425	3.0509	1.51404	8.74237	5.30018
11:42:11				627	8.96978	0.5994062	3.1493	1.51404	8.84005	4.82385
11:42:12				628	8.99335	0.5913852	3.0509	1.51404	8.05861	4.7517
11:42:12				629	8.99531	0.6749806	2.9526	1.51404	8.49817	5.47399
11:42:13				630	8.959	0.6805985	3.0509	1.56288	7.96093	5.52844
11:42:13				631	8.93841	0.649625	3.0509	1.51404	7.57021	5.26236
11:42:14				632	8.95606	0.652353	3.0509	1.51404	7.52137	5.28342
11:42:14				633	8.94625	0.6897465	3.0509	1.56288	7.66789	5.61014
11:42:15				634	8.93247	0.717516	3.0509	1.51404	8.35165	5.85494
11:42:15				635	8.93149	0.7324454	3.0509	1.51404	7.22833	5.98589
11:42:16				636	8.92953	0.7298754	3.1493	1.51404	6.83761	5.96368
11:42:16				637	8.92168	0.7107734	3.1493	1.4652	6.54457	5.7977
11:42:17				638	8.92168	0.6650312	3.1493	1.51404	6.20269	5.39869
11:42:17				639	8.92658	0.7523527	3.0509	1.51404	6.34921	6.1615
11:42:18				640	8.92756	0.7589342	3.0509	1.51404	6.44689	6.2192
11:42:18				641	8.92658	0.714144	3.0509	1.56288	6.20269	5.8264
11:42:19				642	8.92658	0.7253816	3.0509	1.56288	6.20269	5.9248
11:42:19				643	8.93149	0.7505865	3.0509	1.51404	6.20269	6.14513

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:20				644	8.92364	0.7735462	3.0509	1.56288	6.05617	6.34854
11:42:20				645	8.92462	0.7746689	3.0509	1.56288	5.86081	6.35826
11:42:21				646	8.92855	0.7679257	3.0509	1.51404	6.05617	6.29816
11:42:21				647	8.92953	0.7423979	3.0509	1.51404	5.95849	6.07354
11:42:22				648	8.92756	0.7472136	3.1493	1.51404	5.90965	6.11616
11:42:22				649	8.9256	0.7467327	3.0509	1.51404	5.86081	6.11228
11:42:23				650	8.9256	0.7456085	3.0509	1.51404	5.95849	6.10241
11:42:23				651	8.92364	0.7460911	3.0509	1.51404	6.00733	6.10698
11:42:24				652	8.9207	0.7770789	3.0509	1.51404	5.86081	6.38021
11:42:24				653	8.9207	0.7870329	2.9526	1.51404	6.30037	6.46803
11:42:25				654	8.9256	0.8157784	3.0509	1.51404	6.25153	6.72122
11:42:25				655	8.92462	0.81867	3.1493	1.56288	5.90965	6.747
11:42:26				656	8.93149	0.7941002	3.1493	1.56288	5.81197	6.52844
11:42:26				657	8.93149	0.7993986	3.1493	1.56288	5.47009	6.57524
11:42:27				658	8.92658	0.8169038	3.1493	1.56288	5.32357	6.73099
11:42:27				659	8.93051	0.804377	3.0509	1.51404	5.56777	6.61943
11:42:28				660	8.93149	0.7727419	3.0509	1.51404	5.37241	6.34006
11:42:28				661	8.93345	0.8204374	3.0509	1.51404	5.56777	6.76099
11:42:29				662	8.96978	0.8467771	2.9526	1.4652	5.61661	6.98747
11:42:29				663	9.03259	0.8381025	3.0509	1.51404	5.42125	6.89838
11:42:30				664	9.07571	0.8445283	3.0509	1.51404	5.61661	6.94687
11:42:30				665	9.12174	0.8443664	3.1493	1.51404	5.66545	6.93649
11:42:31				666	9.14814	0.8361762	3.1493	1.56288	5.51893	6.85912
11:42:31				667	9.13543	0.8239698	3.1493	1.56288	5.47009	6.75395
11:42:32				668	9.07767	0.8197943	3.0509	1.51404	5.27473	6.72805
11:42:32				669	9.02769	0.822202	3.0509	1.56288	5.51893	6.75874
11:42:33				670	8.99825	0.8167417	2.9526	1.56288	5.32357	6.71606
11:42:33				671	8.99335	0.8554504	3.0509	1.51404	5.37241	7.05978
11:42:34				672	9.05021	0.8674977	3.0509	1.51404	5.42125	7.15535
11:42:34				673	9.1951	0.8673379	3.0509	1.51404	5.47009	7.125
11:42:35				674	9.22738	0.8989854	3.1493	1.51404	5.42125	7.39838
11:42:35				675	9.27721	0.9160157	3.0509	1.51404	5.42125	7.53885
11:42:36				676	9.45378	0.9094268	3.0509	8.10745	5.56777	7.4438
11:42:36				677	9.56279	0.8946467	3.0509	3.9072	5.22589	7.29158
11:42:37				678	9.54336	0.8699071	3.0509	3.51648	5.27473	7.07871
11:42:37				679	9.32603	0.8660515	3.0509	2.10012	5.32357	7.0877
11:42:38				680	9.26941	0.8411541	2.9526	1.56288	5.42125	6.87971
11:42:38				681	9.25178	0.8458127	3.0509	1.56288	5.42125	6.92407
11:42:39				682	9.32895	0.9169798	3.0509	1.51404	5.71429	7.53651
11:42:39				683	9.43718	0.9185861	3.0509	17.24054	5.56777	7.528
11:42:40				684	9.58318	0.8819542	3.1493	13.04029	5.22589	7.17627
11:42:40				685	9.57444	0.8639618	3.0509	16.75214	5.27473	7.02063
11:42:41				686	9.39429	0.8957707	3.0509	14.79853	5.17705	7.33571
11:42:41				687	9.38942	0.9049301	3.0509	12.84493	5.47009	7.41747
11:42:42				688	9.53163	0.925334	3.0509	9.47497	5.12821	7.56765

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:42:42				689	9.57833	0.8925581	3.0509	7.91209	5.47009	7.27012
11:42:43				690	9.62013	0.8790634	3.0509	7.42369	5.37241	7.14365
11:42:43				691	9.60169	0.8874161	3.0509	7.37485	5.17705	7.22039
11:42:44				692	9.54044	0.89288	3.1493	8.25397	5.12821	7.28059
11:42:44				693	9.51317	0.8914341	3.0509	8.25397	5.12821	7.27342
11:42:45				694	9.46254	0.8874165	2.9526	7.03297	5.22589	7.24836
11:42:45				695	9.48005	0.8817942	3.0509	5.86081	5.17705	7.19546
11:42:46				696	9.4947	0.8787417	3.0509	6.39805	5.07937	7.16575
11:42:46				697	9.49761	0.8723165	3.0509	7.13065	5.27473	7.10883
11:42:47				698	9.43816	0.8747262	3.0509	5.51893	5.27473	7.14175
11:42:47				699	9.40409	0.9531334	3.0509	3.51648	5.27473	7.84049
11:42:48				700	9.53358	0.8935218	3.1493	4.54212	5.42125	7.28761
11:42:48				701	9.55599	0.8877375	3.1493	9.42613	5.03053	7.23236
11:42:49				702	9.46546	0.8784217	2.9526	6.98413	5.27473	7.16878
11:42:49				703	9.50539	0.9262978	3.0509	4.54212	5.22589	7.58166
11:42:50				704	9.5453	0.9473485	3.1493	8.69353	5.27473	7.75872
11:42:50				705	9.7027	0.9070179	3.1493	18.4127	5.37241	7.37147
11:42:51				706	9.59198	0.8965738	3.0509	15.43346	5.12821	7.30256
11:42:51				707	9.65027	0.9582758	3.0509	11.96581	5.42125	7.83231
11:42:52				708	9.80743	0.9414015	3.0509	10.20757	5.17705	7.65052
11:42:52				709	9.90716	0.9152101	3.0509	15.9707	5.12821	7.40121
11:42:53				710	9.75702	0.8737608	3.0509	14.84737	5.27473	7.07045
11:42:53				711	9.7153	0.9494378	3.0509	12.89377	5.37241	7.74058
11:42:54				712	9.8975	0.9438125	3.0509	14.11477	5.51893	7.65256
11:42:54				713	9.94683	0.9234044	3.1493	14.89621	5.12821	7.46437
11:42:55				714	9.83162	0.930796	3.0509	15.7265	5.32357	7.55271
11:42:55				715	9.85586	0.9041245	3.0509	14.94505	5.37241	7.31512
11:42:56				716	9.75024	0.8983407	3.0509	12.50305	5.17705	7.28602
11:42:56	11:41:32 start transect	10	135	717	9.59587	0.8825972	3.0509	11.03785	5.27473	7.17938
11:42:57	moving to discharge			718	9.48588	0.8898264	3.0509	9.03541	5.12821	7.26482
11:42:57				719	9.45087	0.9402776	3.0509	7.57021	5.32357	7.71661
11:42:58				720	9.59878	0.8976982	3.1493	6.73993	5.56777	7.31102
11:42:58				721	9.5793	0.8874162	3.0509	10.89133	5.27473	7.22488
11:42:59				722	9.41674	0.8854904	3.0509	10.06105	5.37241	7.24065
11:42:59	11:41:35	9	135	723	9.47032	0.9083033	2.9526	4.73748	5.27473	7.43049
11:43:00				724	9.58415	0.9073378	3.0509	12.89377	5.37241	7.39855
11:43:01				727	9.58603	0.8851551	3.1493	17.09402	5.22589	7.20372
11:43:02				728	9.51797	0.8811394	3.0509	14.26129	5.32357	7.18214
11:43:02				729	9.50041	0.894635	2.9526	12.69841	5.07937	7.30413
11:43:03				730	9.58409	0.9290175	3.0509	11.52625	5.07937	7.58902
11:43:03	11:41:39	8	135	731	9.73753	0.924358	3.0509	13.43101	5.56777	7.51602
11:43:04				732	9.80344	0.9094137	3.1493	19.34066	5.22589	7.37185
11:43:04				733	9.75399	0.9140746	3.0509	23.44322	5.32357	7.42267
11:43:05				734	9.78407	0.9134317	3.0509	21.92918	5.47009	7.41089
11:43:05				735	9.78698	0.9010596	3.0509	22.61294	5.22589	7.30233

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:06				736	9.7414	0.9031493	2.9526	22.02686	5.17705	7.3298
11:43:06				737	9.72202	0.936729	3.0509	19.82906	5.27473	7.62765
11:43:07				738	9.78698	0.9280522	3.1493	16.16606	5.61661	7.53803
11:43:07	11:41:43	7	135	739	9.84897	0.9068436	3.1493	17.1917	5.22589	7.34019
11:43:08				740	9.73171	0.8996133	3.0509	21.5873	5.27473	7.30087
11:43:08				741	9.66282	0.8764799	2.9526	19.19414	5.37241	7.11266
11:43:09				742	9.65403	0.8849945	3.0509	14.26129	5.81197	7.18875
11:43:09				743	9.62687	0.882425	3.1493	15.09158	5.42125	7.17169
11:43:10				744	9.62007	0.8819422	2.9526	12.21001	5.37241	7.16884
11:43:10	11:41:46	6	135	745	9.56266	0.8708583	3.0509	11.52625	5.32357	7.08324
11:43:11				746	9.53255	0.8690921	3.0509	6.98413	5.22589	7.0737
11:43:11				747	9.49749	0.860256	3.0509	5.07937	5.37241	7.00321
11:43:12				748	9.39715	0.8573647	3.0509	3.27228	5.37241	6.9974
11:43:12				749	9.37475	0.8514216	3.0509	1.75824	5.47009	6.94959
11:43:13				750	9.35813	0.8501378	3.0509	1.4652	5.32357	6.94154
11:43:13	11:41:49	5	135	751	9.33864	0.8525478	3.0509	1.51404	5.32357	6.96648
11:43:14				752	9.32006	0.8406615	3.1493	1.56288	5.51893	6.86565
11:43:14				753	9.283	0.8432319	3.0509	1.51404	5.51893	6.89535
11:43:15				754	9.22927	0.8316674	2.9526	2.29548	5.27473	6.80395
11:43:15				755	9.22927	0.8604176	3.0509	1.56288	5.27473	7.05714
11:43:16				756	9.22042	0.8642732	3.0509	2.24664	5.22589	7.09291
11:43:16	11:41:52	4	135	757	9.2752	0.841304	3.1493	2.29548	5.32357	6.87989
11:43:17				758	9.27123	0.8368073	3.0509	4.1514	5.32357	6.84114
11:43:17				759	9.24782	0.8368074	3.0509	4.49328	4.93284	6.84561
11:43:18				760	9.2644	0.8507809	3.0509	6.15385	5.71429	6.96536
11:43:18				761	9.37183	0.8533496	3.0509	4.98168	5.37241	6.96708
11:43:19				762	9.42739	0.8416248	3.0509	3.27228	5.51893	6.85361
11:43:19				763	9.32402	0.8424273	3.0509	4.54212	5.32357	6.88041
11:43:20				764	9.2752	0.8279721	3.0509	8.69353	5.51893	6.76278
11:43:20	11:41:56	3	135	765	9.25172	0.8326312	3.0509	11.08669	5.56777	6.80815
11:43:21				766	9.28885	0.8478885	3.0509	12.99145	5.51893	6.93517
11:43:21				767	9.36495	0.8475682	3.0509	13.72405	5.66545	6.91767
11:43:22				768	9.40981	0.8446756	3.1493	14.31013	5.42125	6.88367
11:43:22				769	9.37962	0.8343968	3.0509	15.87302	5.37241	6.79939
11:43:23				770	9.33376	0.8352007	3.0509	14.01709	5.47009	6.81513
11:43:23				771	9.31421	0.8483706	3.0509	13.43101	5.51893	6.9345
11:43:24				772	9.363	0.8461225	3.0509	11.77045	5.42125	6.90536
11:43:24	11:42:00	2	135	773	9.39812	0.8422674	3.0509	10.10989	5.32357	6.86482
11:43:25				774	9.39033	0.8390543	3.0509	9.52381	5.47009	6.83815
11:43:25				775	9.38449	0.8273311	3.0509	7.47253	5.37241	6.73661
11:43:26				776	9.38449	0.829097	3.0509	4.59096	5.61661	6.75206
11:43:26				777	9.34838	0.8143213	3.0509	3.32112	5.61661	6.6295
11:43:27				778	9.32304	0.8192997	3.0509	1.85592	5.47009	6.67777
11:43:27	11:42:03 end transect	1	135	779	9.29178	0.8160876	3.0509	1.51404	5.90965	6.65544
11:43:28				780	9.2947	0.8104679	3.0509	1.51404	5.66545	6.60567

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:28				781	9.24489	0.8058109	3.0509	1.56288	5.61661	6.57403
11:43:29				782	9.14417	0.7982636	2.9526	1.51404	5.61661	6.52625
11:43:29				783	9.07755	0.8009927	2.9526	1.51404	5.66545	6.56243
11:43:30				784	9.04917	0.8022779	2.9526	1.51404	5.61661	6.57897
11:43:30				785	9.04819	0.8127168	2.9526	1.4652	5.51893	6.67117
11:43:31				786	9.03932	0.8228337	2.9526	1.51404	5.47009	6.76213
11:43:31				787	9.00701	0.8380928	2.8542	1.51404	5.61661	6.90326
11:43:32				788	9.07461	0.8433922	2.8542	1.51404	5.51893	6.93705
11:43:32				789	9.24782	0.8637918	2.8542	1.56288	5.56777	7.08326
11:43:33				790	9.4936	0.8737497	2.9526	1.56288	5.42125	7.1222
11:43:33				791	9.66961	0.8856382	2.9526	23.0525	5.27473	7.19129
11:43:34				792	9.81215	0.8856378	2.9526	16.16606	5.27473	7.16297
11:43:34				793	9.83736	0.8583276	2.8542	15.33578	5.17705	6.92086
11:43:35				794	9.71911	0.8891709	2.9526	12.74725	5.47009	7.21226
11:43:35				795	9.84897	0.8952762	2.9526	11.77045	5.27473	7.23951
11:43:36				796	9.84123	0.8986491	3.0509	15.62882	5.22589	7.2704
11:43:36				797	9.88191	0.8925452	2.9526	16.60562	5.22589	7.20919
11:43:37				798	9.90414	0.8851542	2.8542	15.33578	5.22589	7.14061
11:43:37				799	9.89448	0.8877246	2.9526	15.38462	5.12821	7.16482
11:43:38				800	9.87611	0.8771229	3.0509	19.04762	5.37241	7.07639
11:43:38				801	9.84607	0.8535087	3.0509	22.75946	5.22589	6.87742
11:43:39				802	9.68222	0.8755167	3.0509	26.86203	5.27473	7.10042
11:43:39				803	9.45172	0.8700551	3.0509	21.78266	5.32357	7.09806
11:43:40				804	9.37377	0.8833895	3.0509	8.49817	5.17705	7.23081
11:43:40				805	9.46534	0.84805	3.0509	4.20024	5.47009	6.90258
11:43:41				806	9.36988	0.8454789	3.0509	11.86813	5.27473	6.89839
11:43:41				807	9.18918	0.8618638	3.0509	10.84249	5.32357	7.07782
11:43:42				808	9.32694	0.8449975	3.0509	2.39316	5.42125	6.90242
11:43:42				809	9.35618	0.8440345	3.0509	2.39316	5.47009	6.88835
11:43:43				810	9.34936	0.8292579	3.0509	2.34432	5.42125	6.76008
11:43:43				811	9.15785	0.836967	2.9526	5.51893	5.47009	6.86425
11:43:44				812	9.26636	0.8509411	3.0509	5.51893	5.47009	6.96639
11:43:44				813	9.33279	0.8424273	3.0509	1.51404	5.51893	6.87873
11:43:45				814	9.33084	0.827972	3.1493	1.56288	5.51893	6.75229
11:43:45				815	9.17837	0.8263678	2.9526	5.56777	5.42125	6.76698
11:43:46				816	9.19211	0.8188178	2.9526	2.14896	5.42125	6.69799
11:43:46				817	9.15101	0.8186578	3.0509	1.51404	5.51893	6.70426
11:43:47				818	9.09717	0.810628	3.1493	1.51404	5.12821	6.64361
11:43:47				819	9.09033	0.8045261	3.0509	1.51404	5.32357	6.59117
11:43:48				820	9.06776	0.7900727	3.0509	1.4652	5.37241	6.46814
11:43:48				821	9.08146	0.800671	3.0509	1.51404	5.51893	6.55887
11:43:49				822	9.04323	0.7942488	3.0509	1.51404	5.47009	6.50934
11:43:49				823	9.03932	0.7897526	3.0509	1.51404	5.32357	6.47048
11:43:50				824	9.02561	0.7936074	3.0509	1.51404	5.37241	6.5069
11:43:50				825	9.00994	0.8350404	3.0509	1.51404	5.61661	6.87565

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:43:51				826	9.03051	0.8274927	3.1493	1.51404	5.51893	6.80495
11:43:51				827	9.05504	0.8080591	3.1493	1.51404	5.32357	6.62881
11:43:52				828	9.03344	0.818498	3.1493	1.4652	5.51893	6.72493
11:43:52				829	9.04819	0.8514225	3.1493	1.51404	5.32357	7.01325
11:43:53				830	9.19601	0.8665218	3.1493	1.51404	5.37241	7.1176
11:43:53				831	9.5938	0.884353	3.2477	1.51404	5.32357	7.19513
11:43:54				832	9.75206	0.8769614	3.2477	1.51404	5.27473	7.09927
11:43:54				833	9.69773	0.9110221	3.2477	24.85958	5.17705	7.40751
11:43:55				834	9.80537	0.9473355	3.2477	18.99878	5.17705	7.70288
11:43:55				835	9.9825	0.9664572	3.3461	22.85714	5.37241	7.83206
11:43:56				836	10.04528	0.9825298	3.4445	36.0928	5.17705	7.95868
11:43:56				837	10.08969	1.0100131	3.5428	27.83883	5.03053	8.18883
11:43:57				838	10.06167	1.0249628	3.6412	26.81319	4.98168	8.32597
11:43:57				839	9.91767	1.0260878	3.838	23.34554	4.93284	8.36896
11:43:58				840	9.73656	1.0211055	4.0348	15.14042	5.17705	8.36691
11:43:58				841	9.67931	1.0249641	4.0348	10.98901	5.17705	8.41433
11:43:59				842	9.5637	1.0511679	4.2315	7.86325	5.03053	8.67429
11:43:59				843	9.24001	1.0929706	4.5267	4.73748	5.47009	9.12891
11:44:00				844	9.18331	1.1084073	4.7234	4.68864	5.42125	9.28282
11:44:01				847	9.23208	1.1003225	4.8218	1.51404	4.6398	9.1972
11:44:02				848	9.24281	1.1135064	4.8218	1.56288	4.78632	9.31342
11:44:02				849	9.2311	1.1426142	4.9202	1.51404	4.54212	9.57969
11:44:03				850	9.21158	1.136985	4.9202	1.51404	4.34676	9.53393
11:44:03				851	9.20669	1.1490455	4.9202	1.51404	4.24908	9.64451
11:44:04				852	9.19003	1.1710798	4.9202	1.4652	4.54212	9.84903
11:44:04				853	9.19394	1.1630382	5.0186	1.51404	4.54212	9.77491
11:44:05				854	9.19491	1.162717	5.0186	1.51404	4.3956	9.77172
11:44:05				855	9.20279	1.164004	4.9202	1.51404	4.20024	9.78127
11:44:06				856	9.20865	1.1952051	4.9202	1.56288	4.49328	10.06323
11:44:06				857	9.20279	1.1895773	5.0186	1.56288	4.6398	10.01365
11:44:07				858	9.20181	1.1948851	5.0186	1.51404	4.59096	10.06222
11:44:07				859	9.20181	1.1837857	4.9202	1.51404	4.3956	9.96127
11:44:08				860	9.20376	1.2162782	4.9202	1.51404	4.49328	10.25655
11:44:08				861	9.20376	1.1908643	5.0186	1.51404	4.6398	10.02509
11:44:09				862	9.20181	1.1802469	5.0186	1.51404	4.54212	9.92908
11:44:09				863	9.1998	1.1853938	4.9202	1.51404	4.44444	9.97645
11:44:10				864	9.19687	1.2035704	4.9202	1.56288	4.3956	10.14271
11:44:10				865	9.20279	1.2037319	5.0186	1.51404	5.12821	10.14249
11:44:11				866	9.20767	1.2030879	5.117	1.51404	4.49328	10.13523
11:44:11				867	9.20865	1.1742969	5.0186	1.51404	4.34676	9.87312
11:44:12				868	9.20376	1.1802468	4.9202	1.4652	4.59096	9.92855
11:44:12				869	9.20376	1.1641635	4.9202	1.51404	4.68864	9.78245
11:44:13				870	9.20181	1.1636805	4.9202	1.56288	4.44444	9.7786
11:44:13				871	9.20083	1.1562835	4.9202	1.51404	4.1514	9.71174
11:44:14				872	9.19882	1.1691506	4.9202	1.56288	4.3956	9.82909

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:14				873	9.19784	1.1773528	5.117	1.51404	4.49328	9.90386
11:44:15				874	9.20767	1.1578907	5.117	1.51404	4.3956	9.72443
11:44:15				875	9.1998	1.1670586	5.0186	1.51404	4.54212	9.80981
11:44:16				876	9.19882	1.1712397	4.9202	1.51404	4.6398	9.84807
11:44:16				877	9.20572	1.1641635	5.0186	1.51404	4.49328	9.7819
11:44:17				878	9.20474	1.156604	5.0186	1.51404	4.3956	9.71357
11:44:17				879	9.20083	1.1387533	4.8218	1.56288	4.44444	9.55282
11:44:18				880	9.19882	1.1492065	5.0186	1.56288	4.29792	9.64808
11:44:18				881	9.1998	1.1432568	5.117	1.51404	4.54212	9.59386
11:44:19				882	9.19687	1.1337695	5.0186	1.51404	4.44444	9.50871
11:44:19				883	9.19491	1.1183303	4.8218	1.51404	4.44444	9.36951
11:44:20				884	9.19784	1.1231553	4.9202	1.51404	4.59096	9.41238
11:44:20				885	9.19882	1.1344123	5.0186	1.56288	4.59096	9.51401
11:44:21				886	9.19491	1.1283012	5.0186	1.56288	4.59096	9.45971
11:44:21				887	9.19784	1.1204219	4.9202	1.51404	4.54212	9.38765
11:44:22				888	9.17831	1.1225127	4.9202	1.56288	4.78632	9.4117
11:44:22				889	9.18124	1.1080403	5.117	1.51404	4.73748	9.27998
11:44:23				890	9.15779	1.0829569	5.0186	1.51404	4.54212	9.0594
11:44:23				891	9.14698	1.0652713	4.8218	1.51404	4.6398	8.90259
11:44:24				892	9.16463	1.0551442	4.8218	1.51404	5.07937	8.80698
11:44:24				893	9.18222	1.0570735	4.9202	1.56288	5.22589	8.82001
11:44:25				894	9.19003	1.0538586	4.9202	1.56288	4.98168	8.78915
11:44:25				895	9.20767	1.0485518	4.9202	1.56288	5.07937	8.73712
11:44:26				896	9.26044	1.0324784	4.9202	1.56288	5.03053	8.58012
11:44:26				897	9.28873	1.0336015	4.9202	1.4652	5.07937	8.58341
11:44:27				898	9.30537	1.0426037	4.9202	4.05372	4.98168	8.66003
11:44:27				899	9.28873	1.0485515	4.9202	2.10012	5.03053	8.71737
11:44:28				900	9.24379	1.0450164	5.0186	1.51404	5.12821	8.69656
11:44:28				901	9.22427	1.0397112	5.0186	1.56288	5.37241	8.65367
11:44:29				902	9.29166	1.0435693	4.9202	1.56288	5.27473	8.672
11:44:29				903	9.26337	1.0501609	4.9202	1.51404	5.03053	8.73798
11:44:30				904	9.23013	1.0350499	5.0186	1.51404	5.17705	8.61043
11:44:30				905	9.26337	1.0397111	5.0186	1.51404	5.03053	8.64423
11:44:31				906	9.26239	1.0463021	4.9202	1.51404	5.07937	8.7036
11:44:31				907	9.25654	1.0440524	5.0186	1.51404	5.12821	8.68482
11:44:32				908	9.23989	1.0443737	5.0186	1.51404	5.12821	8.69174
11:44:32				909	9.23891	1.047267	5.0186	1.56288	4.98168	8.71795
11:44:33				910	9.24281	1.0440524	5.0186	1.56288	4.93284	8.68815
11:44:33				911	9.24971	1.0308706	5.0186	1.56288	5.03053	8.56827
11:44:34				912	9.27605	1.0239582	4.9202	1.51404	4.73748	8.5001
11:44:34				913	9.32	1.0141519	4.9202	1.4652	4.73748	8.40206
11:44:35				914	9.42045	1.0384256	4.9202	5.22589	5.07937	8.59501
11:44:35				915	9.47111	1.0201006	5.0186	7.32601	5.07937	8.41969
11:44:36				916	9.49451	1.0213856	5.0186	9.37729	5.03053	8.42564
11:44:36				917	9.52562	1.0321554	4.9202	8.30281	5.17705	8.51412

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:37				918	9.4984	1.0448538	5.0186	8.64469	5.22589	8.63365
11:44:37				919	9.48862	1.0286195	5.0186	9.62149	5.37241	8.49139
11:44:38				920	9.45749	1.0307089	5.0186	7.32601	5.03053	8.51736
11:44:38				921	9.48084	1.0299043	5.0186	7.52137	5.07937	8.50467
11:44:39				922	9.49743	1.0297434	5.0186	8.30281	5.12821	8.49931
11:44:39				923	9.49154	1.0279763	4.9202	8.05861	5.37241	8.48499
11:44:40				924	9.48181	1.0276548	5.0186	6.73993	4.884	8.48441
11:44:40				925	9.48084	1.026369	5.0186	6.34921	5.22589	8.47319
11:44:41				926	9.46528	1.0303871	5.0186	5.56777	5.03053	8.51265
11:44:41				927	9.45166	1.0191346	5.0186	6.10501	4.83516	8.41565
11:44:42				928	9.46236	1.021867	5.0186	6.49573	4.83516	8.43746
11:44:42				929	9.54609	1.0065976	4.9202	7.71673	5.12821	8.28235
11:44:43				930	9.52271	0.9966329	4.9202	11.13553	5.32357	8.19934
11:44:43				931	9.51201	1.0009728	5.0186	10.89133	5.17705	8.24026
11:44:44				932	9.50715	1.0053111	5.0186	9.18193	4.93284	8.27988
11:44:44				933	9.5159	1.0027396	5.0186	9.32845	4.98168	8.25504
11:44:45				934	9.53242	0.9955076	5.0186	8.74237	5.03053	8.18714
11:44:45				935	9.54512	0.9998478	4.9202	8.69353	5.07937	8.22272
11:44:46				936	9.55289	0.9977584	5.0186	10.06105	5.17705	8.20242
11:44:46				937	9.5986	0.9979194	5.0186	10.06105	4.884	8.19345
11:44:47				938	9.60151	1.0006499	5.0186	11.67277	5.22589	8.21695
11:44:47				939	9.6413	1.0041861	5.0186	11.52625	5.32357	8.23915
11:44:48				940	9.68888	0.986989	5.0186	11.03785	5.27473	8.07653
11:44:48				941	9.64324	0.9750977	4.9202	11.62393	5.27473	7.98184
11:44:49				942	9.62966	0.9763828	4.9202	13.38217	5.22589	7.99619
11:44:49				943	9.66173	0.9873101	4.9202	13.47985	5.22589	8.08546
11:44:50				944	9.68404	0.9760608	5.0186	14.26129	5.37241	7.9813
11:44:50				945	9.69761	0.9638471	5.0186	14.50549	5.03053	7.8708
11:44:51				946	9.6947	0.9474577	5.0186	14.50549	5.07937	7.72737
11:44:51				947	9.6821	0.942155	5.0186	14.35897	5.27473	7.68349
11:44:52				948	9.68985	0.9337996	4.9202	14.45665	5.22589	7.60852
11:44:52				949	9.68985	0.930585	4.9202	14.84737	5.37241	7.58033
11:44:53				950	9.72093	0.926569	5.0186	16.41026	5.51893	7.53861
11:44:53				951	9.74515	0.9264079	5.0186	17.58242	5.07937	7.53215
11:44:54				952	9.72481	0.9212654	5.0186	18.21734	5.03053	7.49137
11:44:54				953	9.68695	0.9186959	4.9202	17.09402	5.07937	7.47673
11:44:55				954	9.67919	0.9045582	4.9202	14.65201	5.32357	7.35455
11:44:55				955	9.68113	0.9150006	4.9202	13.87057	5.17705	7.44556
11:44:56				956	9.65882	0.9050393	5.0186	15.9707	5.03053	7.3629
11:44:56				957	9.64033	0.9143576	5.0186	15.18926	5.22589	7.44834
11:44:57				958	9.62286	0.9095384	4.9202	14.45665	5.27473	7.40969
11:44:57				959	9.59562	0.9113046	4.9202	13.33333	5.22589	7.43079
11:44:58				960	9.68888	0.9260861	4.9202	13.18681	5.07937	7.54108
11:44:58				961	9.85272	0.9434402	4.9202	15.28694	5.12821	7.65855
11:44:59				962	9.92148	0.9370115	5.0186	17.04518	5.07937	7.58795

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:44:59				963	9.81596	0.9426364	5.0186	16.4591	5.12821	7.65929
11:45:00				964	9.86535	0.9337991	4.9202	15.43346	5.07937	7.57167
11:45:01	11:43:37 start transect	10	135	967	9.95263	0.9322616	4.9202	18.80342	5.03053	7.54007
11:45:02	moving to discharge			968	9.9091	0.927601	4.9202	18.1685	5.07937	7.50851
11:45:02				969	9.8665	0.9292082	4.9202	18.02198	5.07937	7.53137
11:45:03				970	9.94291	0.9404563	4.9202	16.2149	5.17705	7.6135
11:45:03				971	9.99517	0.9247093	4.9202	16.06838	5.07937	7.46557
11:45:04				972	9.91779	0.9178005	4.9202	19.1453	5.27473	7.42137
11:45:04				973	9.88294	0.9187635	4.8218	18.36386	5.37241	7.43691
11:45:05				974	9.86553	0.9137841	4.9202	15.87302	5.07937	7.39708
11:45:05				975	9.84129	0.9023754	4.9202	14.84737	5.12821	7.30262
11:45:06				976	9.75315	0.8787589	4.9202	10.40293	5.32357	7.11452
11:45:06				977	9.55113	0.8704055	4.9202	6.83761	5.37241	7.08134
11:45:07				978	9.41869	0.8464717	4.9202	2.34432	5.32357	6.89752
11:45:07				979	9.2117	0.8769927	4.9202	2.34432	5.27473	7.20679
11:45:08				980	9.23617	0.8299287	4.9202	1.56288	5.32357	6.78715
11:45:08	11:43:44	9	135	981	9.13543	0.8443841	4.8218	1.51404	5.27473	6.9338
11:45:09				982	9.10604	0.8593237	4.8218	1.51404	5.27473	7.07161
11:45:09				983	9.30452	0.8814923	4.8218	1.56288	5.32357	7.22784
11:45:10				984	9.41772	0.8610901	4.9202	1.4652	5.32357	7.02587
11:45:10				985	9.38358	0.8750658	4.9202	1.51404	5.32357	7.15539
11:45:11				986	9.41285	0.9293707	4.9202	3.61416	5.22589	7.62813
11:45:11				987	9.58221	0.8909695	4.8218	2.73504	5.32357	7.25522
11:45:12				988	9.61722	0.9237452	4.8218	5.17705	5.27473	7.53553
11:45:12	11:43:48	8	135	989	9.78994	0.9118543	4.8218	7.17949	5.22589	7.39571
11:45:13				990	9.7851	0.875706	4.9202	17.33822	5.03053	7.08168
11:45:13				991	9.59095	0.8986818	4.9202	21.39194	5.27473	7.32103
11:45:14				992	9.7279	0.883258	4.8218	18.55922	5.37241	7.15872
11:45:14	11:43:50	7	135	993	9.73855	0.8867915	4.9202	15.14042	5.12821	7.18741
11:45:15				994	9.73468	0.8797233	4.8218	14.70085	5.27473	7.12657
11:45:15				995	9.74146	0.900769	4.8218	17.33822	5.37241	7.30879
11:45:16				996	9.8142	0.9018929	4.8218	21.63614	5.27473	7.3039
11:45:16				997	9.83355	0.8973951	4.8218	22.46642	5.27473	7.26083
11:45:17				998	9.84909	0.899645	4.8218	23.0525	5.27473	7.27729
11:45:17				999	9.97967	0.8951447	4.8218	23.39438	5.27473	7.2121
11:45:18				1000	10.11872	0.8858273	4.8218	32.33211	5.17705	7.10412
11:45:18	11:43:54	6	135	1001	10.19965	0.8737774	4.8218	39.90232	5.07937	6.98467
11:45:19				1002	10.30169	0.8742584	4.8218	40.7326	5.12821	6.96927
11:45:19				1003	9.99414	0.8771523	4.8218	40.68376	5.22589	7.05345
11:45:20				1004	9.78414	0.8702453	4.8218	27.20391	5.12821	7.03439
11:45:20				1005	9.70851	0.8705665	4.9202	15.43346	5.47009	7.05191
11:45:21				1006	9.61431	0.854341	4.9202	12.84493	5.32357	6.92873
11:45:21	11:43:57	5	135	1007	9.56764	0.8467931	4.8218	11.18437	5.37241	6.87184
11:45:22				1008	9.62887	0.8114574	4.8218	12.99145	5.37241	6.55299
11:45:22				1009	9.5433	0.8124213	4.8218	19.8779	5.42125	6.57695

Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:23				1010	9.61528	0.8108152	4.8218	19.24298	5.37241	6.54989
11:45:23				1011	9.62887	0.7949158	4.8218	15.67766	5.56777	6.4096
11:45:24				1012	9.45865	0.7859241	4.8218	16.75214	5.66545	6.36175
11:45:24	11:44:00	4	135	1013	9.35721	0.7875308	4.8218	13.52869	5.56777	6.39374
11:45:25				1014	9.28794	0.7833553	4.8218	7.42369	5.76313	6.36962
11:45:25				1015	9.18924	0.8042326	4.7234	5.27473	5.66545	6.57022
11:45:26				1016	9.13048	0.7870497	4.7234	3.51648	5.61661	6.4301
11:45:26				1017	9.09724	0.7978087	4.7234	1.51404	5.61661	6.53063
11:45:27				1018	9.7638	0.8015004	4.6251	6.39805	5.61661	6.44255
11:45:27				1019	10.66719	0.8066363	4.8218	19.53602	5.42125	6.32803
11:45:28				1020	10.46214	0.8108129	4.8218	62.41758	5.12821	6.39894
11:45:28	11:44:04	3	135	1021	10.72552	0.8141849	4.8218	79.21856	5.17705	6.38153
11:45:29				1022	11.08489	0.8260688	4.8218	71.69719	5.12821	6.41879
11:45:29				1023	10.94019	0.8246244	4.9202	62.51526	5.07937	6.43187
11:45:30				1024	11.12761	0.8302453	4.9202	62.95482	5.12821	6.44621
11:45:30	11:44:06	2	135	1025	11.21216	0.8112936	4.9202	82.63736	4.98168	6.2739
11:45:31				1026	11.38459	0.8294405	4.9202	81.66056	5.07937	6.39502
11:45:31				1027	11.50659	0.8087232	5.0186	90.64713	5.07937	6.20317
11:45:32				1028	11.56514	0.8064746	5.0186	108.18071	4.98168	6.17493
11:45:32	11:44:08 END TRANSE	1	135	1029	11.87402	0.7568552	4.9202	104.85958	4.78632	5.7205
11:45:33				1030	13.25421	0.7957107	5.0186	106.52015	4.93284	5.8205
11:45:33				1031	13.5638	0.758135	5.0186	106.52015	4.93284	5.48166
11:45:34				1032	14.04418	0.7499465	5.0186	81.02564	5.03053	5.35132
11:45:34				1033	14.64043	0.8045386	5.0186	95.82418	5.12821	5.68304
11:45:35				1034	14.76035	0.7823779	5.0186	95.82418	5.07937	5.49833
11:45:35				1035	14.14697	0.7937814	5.0186	131.37973	4.78632	5.6727
11:45:36				1036	13.34439	0.8018129	5.0186	108.57143	5.17705	5.85467
11:45:36				1037	13.0292	0.8112888	5.0186	108.57143	5.17705	5.97802
11:45:37				1038	12.94508	0.82494	5.0186	122.88156	5.07937	6.09958
11:45:37				1039	12.6624	0.8339338	5.0186	158.09524	4.29792	6.21708
11:45:38				1040	12.21702	0.858672	5.0186	132.94261	4.44444	6.49154
11:45:38				1041	11.9904	0.860922	4.9202	99.34066	4.83516	6.54919
11:45:39				1042	12.06072	0.8747366	4.9202	119.85348	4.68864	6.6498
11:45:39				1043	12.06446	0.9833599	5.0186	107.44811	4.6398	7.54194
11:45:40				1044	11.61134	0.9733954	5.0186	79.16972	4.73748	7.55051
11:45:40				1045	10.86013	0.9756492	5.0186	8.49817	5.32357	7.72439
11:45:41				1046	10.29401	0.9920436	4.9202	3.1746	5.42125	7.9868
11:45:41				1047	9.92939	0.9799901	5.0186	1.51404	5.32357	7.96172
11:45:42				1048	9.96325	0.9815976	4.9202	1.51404	5.32357	7.96836
11:45:42				1049	9.72596	1.0124597	5.0186	1.4652	5.37241	8.29287
11:45:43				1050	9.49269	1.0309471	5.0186	26.66667	5.03053	8.51115
11:45:43				1051	9.36604	1.0341621	5.0186	17.4359	5.47009	8.56992
11:45:44				1052	9.405	1.0015295	5.0186	1.9536	5.42125	8.26978
11:45:44				1053	9.34552	1.0116574	5.0186	1.51404	5.61661	8.37381
11:45:45				1054	9.32603	1.0240352	4.9202	1.51404	5.61661	8.48894

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:45:45				1055	9.31433	1.0484694	5.0186	1.51404	5.51893	8.7104
11:45:46				1056	9.23812	1.0751594	5.0186	1.56288	5.56777	8.96889
11:45:46				1057	9.20291	1.0840039	5.0186	1.56288	5.47009	9.05743
11:45:47				1058	9.18631	1.0867363	5.0186	1.56288	5.47009	9.08628
11:45:47				1059	9.15693	1.0812699	5.0186	1.4652	5.90965	9.04439
11:45:48				1060	9.14325	1.0766075	5.0186	1.56288	5.51893	9.00576
11:45:48				1061	9.1755	1.1071585	5.0186	1.56288	5.42125	9.27351
11:45:49				1062	9.17947	1.182106	4.9202	1.51404	5.66545	9.95221
11:45:49				1063	9.15107	1.1652173	5.0186	1.56288	5.56777	9.80644
11:45:50				1064	9.14423	1.1856449	5.0186	1.51404	5.71429	9.99423
11:45:50				1065	9.14521	1.2092918	5.0186	1.51404	5.32357	10.20956
11:45:51				1066	9.15009	1.1890223	5.0186	1.51404	5.22589	10.02336
11:45:51				1067	9.15596	1.193526	5.0186	1.51404	4.78632	10.06274
11:45:52				1068	9.15693	1.2197484	5.0186	1.56288	4.3956	10.30165
11:45:52				1069	9.15303	1.2232868	5.0186	1.51404	4.54212	10.33509
11:45:53				1070	9.15009	1.2166917	5.0186	1.51404	4.24908	10.2757
11:45:53				1071	9.15303	1.2229662	5.0186	1.51404	4.24908	10.33216
11:45:54				1072	9.15791	1.2421113	5.0186	1.51404	4.20024	10.50573
11:45:54				1073	9.16084	1.2408239	4.9202	1.56288	4.3956	10.49311
11:45:55				1074	9.15498	1.2355137	5.0186	1.56288	4.24908	10.44626
11:45:55				1075	9.1628	1.2298842	5.0186	1.56288	3.95604	10.39253
11:45:56				1076	9.16475	1.2580391	5.0186	1.51404	4.00488	10.64947
11:45:56				1077	9.16671	1.2627051	5.0186	1.4652	4.05372	10.69162
11:45:57				1078	9.17159	1.2469387	5.0186	1.51404	3.85836	10.54586
11:45:57				1079	9.17159	1.2466158	5.0186	1.56288	3.9072	10.5429
11:45:58				1080	9.17257	1.2511219	4.9202	1.56288	4.10256	10.58385
11:45:58				1081	9.17257	1.2612586	4.9202	1.56288	3.9072	10.67664
11:45:59				1082	9.16866	1.2601326	5.0186	1.4652	4.49328	10.66747
11:45:59				1083	9.17159	1.2530515	5.0186	1.51404	3.9072	10.60178
11:46:00				1084	9.17355	1.264797	4.9202	1.56288	3.61416	10.70875
11:46:01				1087	9.16463	1.2596733	5.0186	1.51404	3.56532	10.66447
11:46:02				1088	9.18124	1.274313	4.9202	1.4652	3.80952	10.79361
11:46:02				1089	9.18222	1.3015054	4.9202	1.51404	3.95604	11.04275
11:46:03				1090	9.16561	1.2892762	5.0186	1.51404	4.05372	10.93557
11:46:03				1091	9.16072	1.2854146	5.0186	1.56288	3.80952	10.90162
11:46:04				1092	9.16365	1.2995751	4.9202	1.51404	3.71184	11.03075
11:46:04				1093	9.15877	1.2899214	5.0186	1.51404	3.95604	10.94359
11:46:05				1094	9.15186	1.2747971	5.0186	1.51404	3.80952	10.8069
11:46:05				1095	9.15675	1.2635346	5.0186	1.51404	3.36996	10.70219
11:46:06				1096	9.16463	1.2488928	5.0186	1.56288	3.56532	10.56579
11:46:06				1097	9.1548	1.2508234	5.0186	1.56288	3.9072	10.58637
11:46:07				1098	9.14991	1.2593514	5.0186	1.51404	3.76068	10.66591
11:46:07				1099	9.15284	1.2538808	4.9202	1.51404	3.71184	10.61495
11:46:08				1100	9.15877	1.2402061	5.0186	1.4652	3.85836	10.48805
11:46:08				1101	9.15773	1.2501812	5.0186	1.51404	3.9072	10.57962

**Table B-5. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Norwegian Star
(7/16/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:46:09				1102	9.15675	1.2579019	5.0186	1.56288	3.9072	10.6506
11:46:09				1103	9.15089	1.2582237	5.0186	1.56288	3.85836	10.65529
11:46:10				1104	9.14405	1.2646596	5.0186	1.51404	3.76068	10.71631
11:46:10				1105	9.14698	1.2582237	5.0186	1.4652	3.61416	10.65646
11:46:11				1106	9.14893	1.2548452	4.9202	1.51404	3.85836	10.62494
11:46:11				1107	9.1548	1.2308749	4.6251	1.56288	3.85836	10.40397
11:46:12				1108	9.14307	1.1449876	4.2315	1.51404	3.85836	9.62493
11:46:12				1109	9.14209	1.148204	3.9364	1.56288	4.3956	9.65445
11:46:13				1110	9.14991	0.9623717	3.6412	1.51404	5.03053	7.97868
11:46:13				1111	9.1617	0.9620494	3.2477	1.51404	5.27473	7.97322
11:46:14				1112	9.22329	0.8887855	3.0509	1.56288	5.37241	7.30895
11:46:14				1113	9.22134	0.7728338	2.7558	1.56288	5.47009	6.28968
11:46:15				1114	9.12938	0.6356085	2.3623	1.51404	5.42125	5.11351
11:46:15				1115	9.17049	0.6166786	1.9687	3.36996	6.20269	4.945
11:46:16				1116	9.28385	0.4680267	1.6736	3.4188	6.20269	3.67145
11:46:16				1117	9.36391	0.4096921	1.2801	1.56288	8.84005	3.17902
11:46:17				1118	9.39897	0.3896644	1.0833	1.51404	8.98657	3.01103
11:46:17				1119	9.41267	0.3895044	0.9849	1.56288	9.18193	3.00858
11:46:18				1120	9.41559	0.3810134	0.9849	1.51404	9.37729	2.93866
11:46:18				1121	9.4224	0.3803725	0.9849	1.51404	9.23077	2.93285
11:46:19				1122	9.42532	0.378129	0.9849	1.51404	9.23077	2.91422
11:46:19				1123	9.42532	0.3702792	0.9849	1.51404	9.67033	2.84997
11:46:20				1124	9.43311	0.3755654	0.8865	1.56288	9.71917	2.89261
11:46:20				1125	9.437	0.1212443	0.7881	1.51404	9.47497	0.87734
11:46:21				1126	9.4477	0.0731263	0.5914	1.51404	10.64713	0.51725
11:46:21				1127	9.48959	0.1596256	0.5914	0	0	1.16917
11:46:22				1128	9.5402	0.3725219	0.6898	0	0	2.85921
11:46:22				1129	9.58203	0.3742851	0.6898	0	0	2.87027
11:46:23				1130	9.60533	0.374285	0.6898	0	0	2.86842
11:46:23				1131	9.62966	0.3757253	0.6898	0	0	2.87822
11:46:24	11:45:08 switch off			1132	9.65876	0.377808	0.6898	0	0	2.89286

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:05:48	10:05:33 Switch on	10.0	90	7	10.1198	0.489955	1.1817	0	0	3.76717
10:05:49	no dye - background			8	10.11107	0.4865868	1.1817	0	0	3.74045
10:05:49				9	10.11691	0.4849832	1.0833	0	0	3.72671
10:05:50				10	10.11691	0.4857857	1.0833	0	0	3.73328
10:05:50				11	10.11203	0.4893138	1.1817	0	0	3.76271
10:05:51				12	10.11107	0.4894737	1.2801	0	0	3.76412
10:05:51				13	10.11107	0.485465	1.2801	0	0	3.73124
10:05:52				14	10.10625	0.4832202	1.1817	0	0	3.71334
10:05:52				15	10.10722	0.4853039	1.1817	0	0	3.73032
10:05:53				16	10.09565	0.4889925	1.2801	0	0	3.76176
10:05:53				17	10.09854	0.486266	1.2801	0	0	3.7391
10:05:54				18	10.09469	0.4828983	1.1817	0	0	3.71188
10:05:54				19	10.10143	0.4836998	1.0833	0	0	3.71777
10:05:55				20	10.0918	0.4857857	1.1817	0	0	3.73585
10:05:55				21	10.09469	0.4881903	1.2801	0	0	3.75528
10:05:56				22	10.0918	0.4828983	1.1817	0	0	3.71218
10:05:56				23	10.09565	0.4825782	1.1817	0	0	3.70916
10:05:57				24	10.0918	0.4843423	1.1817	0	0	3.72401
10:05:57				25	10.08891	0.4878708	1.2801	0	0	3.75325
10:05:58				26	10.08987	0.4832202	1.2801	0	0	3.71501
10:05:58				27	10.09083	0.4819364	1.1817	0	0	3.70439
10:05:59				28	10.09276	0.4832202	1.1817	0	0	3.71472
10:05:59				29	10.09083	0.4864273	1.2801	0	0	3.74121
10:06:00				30	10.09083	0.4833795	1.2801	0	0	3.71621
10:06:00				31	10.09276	0.4824173	1.1817	0	0	3.70813
10:06:01				32	10.09565	0.4833795	1.1817	0	0	3.71573
10:06:01				33	10.08987	0.4859453	1.2801	0	0	3.73735
10:06:02				34	10.09372	0.4838608	1.2801	0	0	3.71986
10:06:02				35	10.09372	0.482258	1.1817	0	0	3.70673
10:06:03				36	10.09662	0.4838608	1.1817	0	0	3.71957
10:06:03				37	10.09372	0.4843423	1.1817	0	0	3.72382
10:06:04				38	10.09372	0.4832202	1.1817	0	0	3.71462
10:06:04				39	10.09662	0.4846627	1.1817	0	0	3.72615
10:06:05				40	10.09662	0.4846627	1.1817	0	0	3.72615
10:06:05				41	10.09758	0.4830592	1.1817	0	0	3.71291
10:06:06				42	10.10143	0.4830592	1.1817	0	0	3.71251
10:06:06				43	10.09951	0.4843423	1.2801	0	0	3.72322
10:06:07				44	10.09854	0.4849833	1.2801	0	0	3.72858
10:06:07				45	10.09854	0.482739	1.2801	0	0	3.71018
10:06:08				46	10.09951	0.4825781	1.1817	0	0	3.70877
10:06:08				47	10.10047	0.4835405	1.1817	0	0	3.71656
10:06:09				48	10.09758	0.4840218	1.2801	0	0	3.72079
10:06:09				49	10.09951	0.4835405	1.2801	0	0	3.71665
10:06:10				50	10.10047	0.4828983	1.1817	0	0	3.71129
10:06:10				51	10.10336	0.4841812	1.1817	0	0	3.72151

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:11				52	10.10336	0.4843422	1.1817	0	0	3.72283
10:06:11				53	10.10529	0.4841812	1.1817	0	0	3.72132
10:06:12				54	10.10336	0.4840218	1.2801	0	0	3.7202
10:06:12				55	10.10336	0.4836998	1.1817	0	0	3.71757
10:06:13				56	10.10432	0.4838608	1.1817	0	0	3.71879
10:06:13				57	10.10336	0.4841812	1.1817	0	0	3.72151
10:06:14				58	10.09854	0.4846627	1.2801	0	0	3.72595
10:06:14				59	10.09758	0.4846627	1.2801	0	0	3.72605
10:06:15				60	10.09951	0.4841812	1.2801	0	0	3.7219
10:06:15				61	10.09469	0.4824173	1.1817	0	0	3.70794
10:06:16				62	10.09469	0.482258	1.0833	0	0	3.70664
10:06:16				63	10.09372	0.4832202	1.2801	0	0	3.71461
10:06:17				64	10.09565	0.4841812	1.2801	0	0	3.72229
10:06:17				65	10.08987	0.4828983	1.1817	0	0	3.71237
10:06:18				66	10.09083	0.4825782	1.1817	0	0	3.70965
10:06:18				67	10.09083	0.4825782	1.1817	0	0	3.70965
10:06:19				68	10.09469	0.4833795	1.2801	0	0	3.71582
10:06:19				69	10.09662	0.4833795	1.2801	0	0	3.71562
10:06:20				70	10.09276	0.4827391	1.1817	0	0	3.71077
10:06:20				71	10.09276	0.4824173	1.1817	0	0	3.70813
10:06:21				72	10.09276	0.4832202	1.1817	0	0	3.71472
10:06:21				73	10.09276	0.4833795	1.1817	0	0	3.71602
10:06:22				74	10.09276	0.4833795	1.2801	0	0	3.71602
10:06:22				75	10.0918	0.4830593	1.2801	0	0	3.71349
10:06:23				76	10.09276	0.4828983	1.1817	0	0	3.71208
10:06:23				77	10.09276	0.4827391	1.1817	0	0	3.71077
10:06:24				78	10.09565	0.4832202	1.1817	0	0	3.71442
10:06:24				79	10.09276	0.4835405	1.1817	0	0	3.71734
10:06:25				80	10.08891	0.4830593	1.1817	0	0	3.71379
10:06:25				81	10.08698	0.4819364	1.0833	0	0	3.70479
10:06:26				82	10.08794	0.4825782	1.1817	0	0	3.70994
10:06:26				83	10.08698	0.4828983	1.2801	0	0	3.71266
10:06:27				84	10.08794	0.4832202	1.2801	0	0	3.7152
10:06:27				85	10.08794	0.4827391	1.2801	0	0	3.71126
10:06:28				86	10.08794	0.4820972	1.1817	0	0	3.706
10:06:28				87	10.08891	0.4824173	1.1817	0	0	3.70853
10:06:29				88	10.08987	0.4828983	1.2801	0	0	3.71237
10:06:29				89	10.08987	0.4828983	1.2801	0	0	3.71237
10:06:30				90	10.08891	0.4824173	1.1817	0	0	3.70853
10:06:30				91	10.09083	0.4825782	1.1817	0	0	3.70965
10:06:31				92	10.09083	0.4830593	1.1817	0	0	3.71359
10:06:31				93	10.09276	0.4828983	1.1817	0	0	3.71208
10:06:32				94	10.09469	0.4830592	1.1817	0	0	3.7132
10:06:32				95	10.09372	0.4832202	1.1817	0	0	3.71462
10:06:33				96	10.09758	0.482739	1.1817	0.63492	0.29304	3.71028

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:33				97	10.09083	0.4825782	1.1817	0.39072	0.09768	3.70965
10:06:34				98	10.09565	0.4825782	1.2801	1.51404	1.02564	3.70915
10:06:34				99	10.09565	0.4825782	1.2801	1.4652	7.57021	3.70915
10:06:35				100	10.09662	0.4824173	1.1817	1.41636	8.00977	3.70774
10:06:35				101	10.09469	0.4817755	1.1817	1.4652	8.20513	3.70268
10:06:36				102	10.09276	0.4822581	1.2801	1.4652	8.20513	3.70682
10:06:36				103	10.09469	0.4824173	1.1817	1.41636	8.00977	3.70794
10:06:37				104	10.09276	0.4812948	1.1817	1.41636	8.05861	3.69893
10:06:37				105	10.09083	0.4814556	1.2801	1.4652	8.05861	3.70044
10:06:38				106	10.08891	0.4814556	1.3784	1.4652	8.10745	3.70063
10:06:38				107	10.09083	0.4814556	1.2801	1.4652	8.10745	3.70044
10:06:39				108	10.09083	0.4814556	1.1817	1.4652	8.15629	3.70045
10:06:39				109	10.09083	0.4809749	1.1817	1.4652	8.59585	3.69651
10:06:40				110	10.08794	0.4809749	1.2801	1.4652	8.69353	3.69679
10:06:40				111	10.08505	0.4816164	1.2801	1.4652	8.69353	3.70235
10:06:41				112	10.08505	0.4816164	1.2801	1.41636	7.96093	3.70235
10:06:41				113	10.08794	0.4819364	1.1817	1.4652	8.20513	3.70468
10:06:42				114	10.08698	0.481134	1.1817	1.4652	8.05861	3.6982
10:06:42				115	10.08601	0.4812948	1.2801	1.4652	8.30281	3.69961
10:06:43				116	10.08601	0.4819364	1.2801	1.41636	8.05861	3.70487
10:06:43				117	10.08698	0.4824173	1.1817	1.41636	7.96093	3.70872
10:06:44				118	10.08698	0.4822581	1.1817	1.41636	8.00977	3.70742
10:06:44				119	10.08698	0.4822581	1.1817	1.4652	7.91209	3.70742
10:06:45				120	10.08987	0.4828983	1.1817	1.4652	7.76557	3.71237
10:06:45				121	10.08987	0.4824173	1.1817	1.51404	7.91209	3.70843
10:06:46				122	10.08891	0.4825782	1.2801	1.4652	7.81441	3.70984
10:06:46				123	10.08987	0.4824173	1.2801	1.4652	8.05861	3.70842
10:06:47				124	10.09083	0.4824173	1.0833	1.4652	8.05861	3.70834
10:06:48				127	10.09415	0.4819971	1.2801	1.4652	7.91209	3.70454
10:06:49				128	10.08836	0.4821579	1.2801	1.4652	8.00977	3.70645
10:06:49				129	10.08933	0.4823188	1.0833	1.4652	8.15629	3.70768
10:06:50				130	10.08933	0.4819971	1.1817	1.4652	8.25397	3.70504
10:06:50				131	10.08836	0.4819971	1.2801	1.51404	8.44933	3.70513
10:06:51				132	10.08933	0.4819971	1.3784	1.51404	8.20513	3.70503
10:06:51				133	10.0874	0.4823188	1.1817	1.4652	8.10745	3.70787
10:06:52				134	10.08933	0.4813555	1.0833	1.4652	8.20513	3.69978
10:06:52				135	10.08933	0.4821579	1.1817	1.4652	8.15629	3.70636
10:06:53				136	10.09125	0.4813555	1.2801	1.4652	8.25397	3.69958
10:06:53				137	10.09125	0.4815163	1.3784	1.4652	8.00977	3.70089
10:06:54				138	10.09029	0.4811964	1.1817	1.4652	8.00977	3.69838
10:06:54				139	10.09125	0.4808749	1.0833	1.4652	8.15629	3.69565
10:06:55				140	10.08933	0.4821579	1.1817	1.4652	8.30281	3.70636
10:06:55				141	10.09029	0.4811964	1.3784	1.4652	8.35165	3.69837
10:06:56				142	10.09029	0.4813555	1.2801	1.4652	7.86325	3.69968
10:06:56				143	10.09125	0.4813555	1.1817	1.4652	7.91209	3.69958

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:06:57				144	10.09222	0.4815163	1.1817	1.4652	8.05861	3.7008
10:06:57				145	10.09318	0.4816771	1.2801	1.51404	8.20513	3.70202
10:06:58				146	10.09415	0.4811964	1.2801	1.51404	8.05861	3.69798
10:06:58				147	10.09125	0.4811964	1.2801	1.51404	8.05861	3.69827
10:06:59				148	10.08933	0.4815163	1.1817	1.51404	8.25397	3.7011
10:06:59				149	10.08644	0.4816771	1.1817	1.51404	8.30281	3.70271
10:07:00				150	10.08644	0.4818379	1.1817	1.51404	8.30281	3.70403
10:07:00				151	10.0874	0.4818379	1.2801	1.4652	7.96093	3.70392
10:07:01				152	10.08933	0.4819971	1.1817	1.4652	7.96093	3.70504
10:07:01				153	10.08933	0.4821579	1.1817	1.4652	8.20513	3.70636
10:07:02				154	10.0874	0.4821579	1.1817	1.4652	8.64469	3.70655
10:07:02				155	10.0874	0.4823188	1.1817	1.4652	8.25397	3.70787
10:07:03				156	10.0874	0.4815163	1.1817	1.4652	7.91209	3.70129
10:07:03				157	10.0874	0.4811964	1.2801	1.51404	7.91209	3.69866
10:07:04				158	10.08258	0.4815163	1.1817	1.4652	7.96093	3.70178
10:07:04				159	10.08258	0.4815163	1.1817	1.4652	7.96093	3.70178
10:07:05				160	10.08451	0.4813555	1.1817	1.4652	8.10745	3.70027
10:07:05				161	10.08354	0.4815163	1.1817	1.41636	8.10745	3.70168
10:07:06				162	10.08354	0.4815163	1.2801	1.41636	8.00977	3.70168
10:07:06				163	10.08451	0.4818379	1.2801	1.4652	8.20513	3.70422
10:07:07				164	10.08644	0.4821579	1.1817	1.4652	8.20513	3.70665
10:07:07				165	10.0874	0.4821579	1.1817	1.51404	8.00977	3.70655
10:07:08				166	10.08644	0.4823188	1.1817	1.4652	8.00977	3.70797
10:07:08				167	10.08933	0.4823188	1.1817	1.4652	8.00977	3.70768
10:07:09				168	10.09029	0.4826389	1.1817	1.4652	7.91209	3.7102
10:07:09	10:05:45 start transect	10	90	169	10.08933	0.4829591	1.1817	1.4652	8.00977	3.71293
10:07:10				170	10.09029	0.4826389	1.1817	1.51404	8.00977	3.7102
10:07:10				171	10.09029	0.4826389	1.1817	1.51404	8.30281	3.7102
10:07:11				172	10.09222	0.4829591	1.1817	1.4652	7.96093	3.71263
10:07:11				173	10.09222	0.48312	1.2801	1.41636	7.91209	3.71394
10:07:12				174	10.09415	0.4827998	1.1817	1.4652	7.96093	3.71113
10:07:12				175	10.09222	0.482478	1.0833	1.4652	8.05861	3.70869
10:07:13				176	10.09029	0.4818379	1.0833	1.4652	13.18681	3.70364
10:07:13				177	10.08451	0.4816771	1.0833	1.41636	9.71917	3.70291
10:07:14				178	10.08258	0.4816771	1.0833	1.4652	8.25397	3.70311
10:07:14				179	10.08354	0.4815163	1.0833	1.4652	9.96337	3.70169
10:07:15				180	10.08162	0.4813555	1.1817	1.4652	10.74481	3.70056
10:07:15				181	10.08162	0.4808749	1.1817	1.4652	8.15629	3.69662
10:07:16				182	10.07969	0.4802337	1.1817	1.4652	8.15629	3.69156
10:07:16				183	10.07583	0.4807158	1.1817	1.51404	8.05861	3.6959
10:07:17				184	10.07776	0.4807158	1.1817	1.4652	7.91209	3.69571
10:07:17				185	10.07583	0.4805551	1.1817	1.4652	8.00977	3.69459
10:07:18				186	10.0768	0.4805551	1.1817	1.4652	8.20513	3.69449
10:07:18				187	10.07583	0.4803944	1.1817	1.51404	8.20513	3.69327
10:07:19				188	10.07583	0.4805551	1.1817	1.41636	7.91209	3.69459

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:07:19				189	10.07583	0.4802337	1.1817	1.4652	8.25397	3.69195
10:07:20				190	10.07583	0.4803944	1.2801	1.4652	8.40049	3.69326
10:07:20				191	10.07583	0.4803944	1.2801	1.4652	8.25397	3.69326
10:07:21				192	10.07583	0.4803944	1.1817	1.4652	8.15629	3.69327
10:07:21				193	10.07583	0.4797534	1.1817	1.51404	8.20513	3.68801
10:07:22				194	10.0739	0.480073	1.1817	1.4652	8.35165	3.69083
10:07:22				195	10.07294	0.480073	1.1817	1.4652	8.10745	3.69093
10:07:23				196	10.07294	0.480073	1.1817	1.51404	7.91209	3.69093
10:07:23				197	10.07101	0.480073	1.1817	1.41636	8.05861	3.69112
10:07:24				198	10.07101	0.4795928	1.1817	1.4652	8.10745	3.68719
10:07:24				199	10.07005	0.4786309	1.1817	1.4652	8.40049	3.6794
10:07:25				200	10.07101	0.480073	1.1817	1.4652	8.05861	3.69112
10:07:25				201	10.07101	0.480073	1.1817	1.4652	8.10745	3.69112
10:07:26				202	10.07198	0.4807158	1.1817	1.51404	8.15629	3.6963
10:07:26				203	10.07198	0.4805551	1.1817	1.4652	8.05861	3.69498
10:07:27				204	10.0739	0.4807158	1.1817	1.4652	14.55433	3.6961
10:07:27				205	10.07294	0.4805551	0.9849	1.4652	10.45177	3.69489
10:07:28				206	10.07198	0.4803944	1.0833	1.41636	8.15629	3.69367
10:07:28				207	10.07294	0.4802337	1.0833	1.4652	8.30281	3.69225
10:07:29				208	10.0739	0.4802337	1.0833	1.4652	8.15629	3.69215
10:07:29				209	10.07198	0.480073	1.0833	1.51404	8.20513	3.69103
10:07:30				210	10.07198	0.4802337	1.0833	1.4652	8.10745	3.69235
10:07:30				211	10.0739	0.480073	1.0833	1.4652	8.15629	3.69084
10:07:31				212	10.07198	0.480073	1.0833	1.4652	8.00977	3.69103
10:07:31				213	10.07294	0.480073	1.1817	1.41636	8.05861	3.69093
10:07:32				214	10.07487	0.4802337	1.0833	1.4652	7.96093	3.69206
10:07:32				215	10.07583	0.4802337	1.0833	1.4652	8.10745	3.69196
10:07:33				216	10.07583	0.4802337	1.1817	1.4652	8.44933	3.69195
10:07:33				217	10.07583	0.4802337	1.0833	1.4652	8.05861	3.69196
10:07:34				218	10.07583	0.4803944	1.0833	1.4652	8.05861	3.69327
10:07:34				219	10.07583	0.4803944	1.0833	1.4652	8.15629	3.69327
10:07:35				220	10.0768	0.4803944	1.0833	1.41636	8.15629	3.69318
10:07:35				221	10.07776	0.4805551	1.0833	1.51404	8.00977	3.6944
10:07:36				222	10.07969	0.4802337	1.0833	1.4652	7.86325	3.69157
10:07:36				223	10.07872	0.4803944	1.0833	1.51404	8.30281	3.69298
10:07:37				224	10.07872	0.4805551	1.1817	1.4652	8.35165	3.69429
10:07:37				225	10.07872	0.4805551	1.1817	1.4652	8.00977	3.69429
10:07:38				226	10.08065	0.4805551	1.0833	1.41636	8.35165	3.6941
10:07:38				227	10.08065	0.4805551	1.0833	1.4652	8.15629	3.6941
10:07:39				228	10.08162	0.4805551	1.1817	1.4652	8.44933	3.694
10:07:39				229	10.08162	0.4805551	1.1817	1.4652	8.05861	3.694
10:07:40				230	10.07969	0.4810356	1.0833	1.4652	7.96093	3.69814
10:07:40				231	10.08065	0.4807158	1.0833	1.4652	8.15629	3.69542
10:07:41				232	10.07969	0.4808749	1.0833	1.41636	8.15629	3.69682
10:07:41				233	10.08162	0.4810356	1.0833	1.4652	8.15629	3.69795

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:07:42				234	10.07969	0.4810356	1.0833	1.4652	8.05861	3.69814
10:07:42				235	10.08065	0.4810356	1.0833	1.51404	8.49817	3.69804
10:07:43				236	10.08065	0.4808749	1.0833	1.4652	8.15629	3.69673
10:07:43				237	10.08162	0.4811964	1.0833	1.4652	8.25397	3.69926
10:07:44				238	10.08162	0.4818379	1.0833	1.4652	8.25397	3.70452
10:07:44	10:06:20 @ 6:00	10	180	239	10.07969	0.4818379	1.0833	1.4652	8.25397	3.70472
10:07:45	begin depth profile			240	10.07776	0.4818379	1.0833	1.4652	8.00977	3.70492
10:07:45				241	10.0768	0.4818379	1.0833	1.51404	8.05861	3.70501
10:07:46				242	10.07583	0.4816771	1.0833	1.4652	8.20513	3.70379
10:07:46				243	10.07487	0.4811964	1.1817	1.4652	8.30281	3.69994
10:07:47				244	10.07101	0.4815163	1.1817	1.41636	8.00977	3.70296
10:07:48				247	10.06957	0.4825979	1.5752	1.4652	8.30281	3.71195
10:07:49				248	10.06475	0.4834009	1.772	1.51404	8.25397	3.71902
10:07:49				249	10.06571	0.48324	1.9687	1.41636	8.64469	3.71759
10:07:50				250	10.06667	0.4825979	2.1655	1.4652	8.69353	3.71222
10:07:50				251	10.06571	0.48324	2.3623	1.4652	8.10745	3.71757
10:07:51				252	10.06282	0.4843621	2.6574	1.51404	8.25397	3.72706
10:07:51				253	10.05992	0.4842011	2.8542	1.4652	8.84005	3.72602
10:07:52				254	10.06475	0.4854849	3.2477	1.41636	8.59585	3.73604
10:07:52				255	10.0686	0.4922184	3.5428	1.4652	8.79121	3.79092
10:07:53				256	10.10432	0.4923785	3.9364	1.4652	8.40049	3.7885
10:07:53				257	10.10625	0.4926988	4.2315	1.51404	7.96093	3.79091
10:07:54				258	10.10914	0.4925386	4.2315	1.4652	7.61905	3.78929
10:07:54				259	10.11107	0.5013565	4.2315	1.4652	7.86325	3.86151
10:07:55				260	10.10818	0.4997529	4.3299	1.4652	7.96093	3.84863
10:07:55				261	10.10336	0.5053643	4.4283	1.4652	7.76557	3.89527
10:07:56				262	10.10818	0.5154668	4.6251	1.4652	8.15629	3.9779
10:07:56				263	10.1641	0.5260505	4.7234	1.4652	7.66789	4.05892
10:07:57				264	10.12167	0.5570018	5.0186	1.4652	8.25397	4.31954
10:07:57				265	10.06957	0.5412839	5.3137	1.4652	8.15629	4.19541
10:07:58				266	10.07342	0.5568412	5.3137	1.4652	7.71673	4.32391
10:07:58				267	10.09758	0.5857127	5.5105	1.51404	8.25397	4.56095
10:07:59				268	10.11974	0.5852322	5.8056	1.4652	8.00977	4.55416
10:07:59				269	10.09077	0.5823449	6.0024	1.41636	7.27717	4.53373
10:08:00				270	10.08692	0.5877974	6.0024	1.4652	6.73993	4.57962
10:08:00				271	10.10143	0.5743238	6.0024	1.4652	6.88645	4.46568
10:08:01				272	10.10722	0.6238938	6.0024	1.51404	6.98413	4.87843
10:08:01				273	10.10914	0.7286938	6.3959	1.51404	7.27717	5.7612
10:08:02				274	10.18528	0.6853545	6.7895	1.41636	5.76313	5.3833
10:08:02				275	10.18913	0.681181	6.7895	1.4652	5.27473	5.3476
10:08:03				276	10.14677	0.6917751	6.5927	1.4652	5.71429	5.44314
10:08:03				277	10.1641	0.753256	6.6911	1.4652	6.15385	5.96079
10:08:04				278	10.11011	0.7999814	6.9862	1.51404	5.47009	6.3681
10:08:04				279	10.12648	0.7551821	7.0846	1.41636	5.12821	5.98329
10:08:05				280	10.10529	0.7569499	7.0846	1.41636	4.93284	6.00182

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:08:05				281	10.10529	0.7962884	6.9862	1.51404	5.22589	6.33737
10:08:06				282	10.15929	0.8269615	7.0846	1.4652	5.51893	6.59022
10:08:06				283	10.2296	0.8197356	7.2814	1.4652	5.07937	6.51575
10:08:07				284	10.24306	0.802873	7.2814	1.4652	4.6398	6.3695
10:08:07				285	10.23248	0.824553	7.2814	1.4652	4.34676	6.55639
10:08:08				286	10.25178	0.8443091	7.2814	1.4652	4.83516	6.72183
10:08:08				287	10.30278	0.8680808	7.4781	1.4652	4.54212	6.91583
10:08:09				288	10.43152	0.8659937	7.7733	1.4652	4.1514	6.87365
10:08:09				289	10.49675	0.8667958	7.8717	1.4652	3.61416	6.86823
10:08:10				290	10.50346	0.9063169	7.9701	1.51404	3.76068	7.20436
10:08:10				291	10.59452	0.9174016	8.2652	1.4652	3.663	7.28108
10:08:11				292	10.55236	0.9566103	8.462	1.41636	2.9304	7.6254
10:08:11				293	10.29599	0.9384516	8.7571	1.51404	3.56532	7.52219
10:08:12				294	10.27389	0.94729	8.8555	1.4652	4.34676	7.60309
10:08:12				295	10.19202	1.040996	8.7571	1.4652	4.24908	8.43555
10:08:13				296	9.98166	1.1147965	9.0523	1.4652	4.3956	9.13527
10:08:13				297	9.73571	1.100486	9.3474	1.41636	4.34676	9.07013
10:08:14				298	9.68719	1.0919619	9.4458	1.4652	4.3956	9.00641
10:08:14				299	9.6901	1.1088459	9.3474	1.4652	4.6398	9.15609
10:08:15				300	9.66779	1.1329698	9.4458	1.51404	4.6398	9.37712
10:08:15				301	9.55113	1.150659	9.6426	1.41636	4.54212	9.56622
10:08:16				302	9.50247	1.1361851	9.7409	1.4652	4.78632	9.44908
10:08:16				303	9.48303	1.1247684	9.7409	1.51404	4.93284	9.35165
10:08:17				304	9.521	1.1704439	9.7409	1.4652	4.884	9.75217
10:08:17				305	9.47233	1.2048669	9.8393	1.41636	5.03053	10.07609
10:08:18				306	9.38461	1.2441205	10.0361	1.4652	5.17705	10.45693
10:08:18				307	9.30068	1.2080838	10.1345	1.51404	5.27473	10.15355
10:08:19				308	9.27428	1.2264235	10.1345	1.4652	5.47009	10.32789
10:08:19				309	9.31335	1.1794519	10.1345	1.4652	5.42125	9.89023
10:08:20				310	9.34461	1.2164493	10.1345	1.4652	5.22589	10.21705
10:08:20				311	9.29775	1.2232066	10.1345	1.51404	5.42125	10.29186
10:08:21				312	9.2655	1.2248147	10.1345	1.4652	5.07937	10.31577
10:08:21				313	9.2655	1.2589238	10.2329	1.4652	5.07937	10.62677
10:08:22				314	9.24989	1.2637512	10.3312	1.4652	5.66545	10.67549
10:08:22				315	9.22543	1.2357555	10.3312	1.4652	5.17705	10.42707
10:08:23				316	9.24696	1.2851517	10.3312	1.4652	5.47009	10.8721
10:08:23				317	9.22836	1.352098	10.3312	1.4652	5.17705	11.49243
10:08:24				318	9.1325	1.3092891	10.528	1.41636	5.81197	11.12875
10:08:24				319	9.09821	1.3387407	10.528	1.4652	5.56777	11.41095
10:08:25				320	9.06691	1.5847668	10.7248	1.4652	5.76313	13.71352
10:08:25				321	8.94233	1.9873864	10.9215	1.4652	5.56777	17.60637
10:08:26				322	8.51482	2.0230317	11.0199	1.4652	5.76313	18.16864
10:08:26				323	8.19686	2.3131304	11.1183	1.4652	6.10501	21.22529
10:08:27				324	7.87533	2.4387226	11.2167	1.4652	6.59341	22.69836
10:08:27				325	7.46296	2.2826321	11.3151	1.51404	6.64225	21.36267

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:08:28				326	7.34131	2.1901643	11.3151	1.4652	6.44689	20.48936
10:08:28				327	7.76148	2.2865018	11.3151	1.4652	6.44689	21.21975
10:08:29				328	7.67449	2.3752767	11.3151	1.4652	6.39805	22.17894
10:08:29				329	7.22051	2.3836767	11.4134	1.41636	6.15385	22.55768
10:08:30				330	6.91746	2.0143309	11.3151	1.4652	6.64225	18.93001
10:08:30				331	7.29806	1.8851646	11.1183	1.4652	6.39805	17.41737
10:08:31				332	8.0398	1.8482439	10.9215	1.4652	6.34921	16.68746
10:08:31				333	8.5425	1.7661948	10.7248	1.4652	5.95849	15.65767
10:08:32				334	8.62837	1.5132599	10.528	1.4652	5.90965	13.20496
10:08:32				335	8.88042	1.4053813	9.9377	1.51404	5.47009	12.10127
10:08:33				336	9.16286	1.3096111	9.5442	1.4652	5.42125	11.12244
10:08:33				337	9.32018	1.1736612	9.249	1.41636	5.22589	9.83604
10:08:34				338	9.26941	1.2019709	9.0523	1.4652	4.78632	10.10701
10:08:34				339	9.327	1.1324885	8.7571	1.51404	4.54212	9.46213
10:08:35				340	9.70858	0.9993638	8.2652	1.4652	4.44444	8.18084
10:08:35				341	10.2296	0.9551646	7.8717	1.4652	3.95604	7.68062
10:08:36				342	10.47567	0.912421	7.4781	1.4652	3.22344	7.26215
10:08:36				343	10.48813	0.9138666	7.4781	1.51404	3.32112	7.27206
10:08:37				344	10.54374	0.9103318	7.3798	1.51404	3.61416	7.23081
10:08:37				345	10.51208	0.8587632	6.9862	1.41636	3.56532	6.79705
10:08:38				346	10.35854	0.7755728	6.5927	1.4652	3.80952	6.11787
10:08:38				347	10.32007	0.7903461	6.3959	1.4652	4.6398	6.2497
10:08:39				348	10.31815	0.8038349	6.3959	1.4652	5.32357	6.36467
10:08:39				349	10.31623	0.7694713	6.3959	1.4652	4.98168	6.07326
10:08:40				350	10.28734	0.7513295	6.0024	1.4652	4.93284	5.92442
10:08:40				351	10.23729	0.7277302	5.8056	1.4652	5.47009	5.73287
10:08:41				352	10.21228	0.6778115	5.5105	1.4652	5.56777	5.31599
10:08:41				353	10.1949	0.6489244	5.4121	1.4652	5.95849	5.07608
10:08:42				354	10.14677	0.6184394	5.117	1.4652	6.10501	4.82761
10:08:42				355	10.11492	0.5796173	4.9202	1.4652	6.59341	4.50811
10:08:43				356	10.09662	0.5743238	4.9202	1.41636	7.13065	4.46635
10:08:43				357	10.07342	0.5882802	4.9202	1.4652	7.66789	4.58542
10:08:44				358	10.06764	0.5853918	5.0186	1.4652	7.13065	4.56207
10:08:44				359	10.06282	0.5770509	4.8218	1.4652	7.22833	4.4932
10:08:45				360	10.05414	0.5667856	4.4283	1.4652	7.37485	4.40889
10:08:45				361	10.05896	0.5316622	4.5267	1.41636	6.88645	4.11705
10:08:46				362	10.05414	0.536795	4.5267	1.4652	7.76557	4.16007
10:08:46				363	10.05317	0.546897	4.4283	1.4652	8.05861	4.24387
10:08:47				364	10.06764	0.5090527	4.3299	1.4652	7.86325	3.92948
10:08:48				367	10.13576	0.512453	4.4283	1.41636	7.47253	3.9501
10:08:49				368	10.15315	0.5175829	4.4283	1.4652	7.27717	3.99042
10:08:49				369	10.12516	0.5113299	4.2315	1.4652	7.42369	3.94202
10:08:50				370	10.10396	0.502832	3.9364	1.51404	7.76557	3.87441
10:08:50				371	10.10204	0.4900046	3.9364	1.4652	8.10745	3.76925
10:08:51				372	10.09433	0.4924099	3.9364	1.4652	8.25397	3.78979

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:08:51				373	10.0924	0.49257	3.9364	1.4652	7.86325	3.79131
10:08:52				374	10.08752	0.4930505	3.838	1.4652	7.91209	3.79577
10:08:52				375	10.08559	0.4911277	3.838	1.4652	8.25397	3.78018
10:08:53				376	10.08174	0.4912877	3.6412	1.51404	8.20513	3.7819
10:08:53				377	10.08077	0.4895233	3.5428	1.51404	8.00977	3.76752
10:08:54				378	10.07885	0.4869589	3.5428	1.41636	9.03541	3.74667
10:08:54				379	10.07595	0.4869589	3.5428	1.4652	8.15629	3.74697
10:08:55				380	10.07499	0.4872799	3.5428	1.4652	8.10745	3.7497
10:08:55				381	10.07499	0.4867976	3.4445	1.4652	8.15629	3.74575
10:08:56				382	10.07306	0.4871186	3.3461	1.4652	8.05861	3.74859
10:08:56				383	10.07306	0.4874396	3.3461	1.4652	7.76557	3.75122
10:08:57				384	10.07306	0.4861576	3.3461	1.4652	7.96093	3.7407
10:08:57				385	10.07306	0.4861576	3.1493	1.41636	8.25397	3.74071
10:08:58				386	10.0692	0.4850344	2.7558	1.4652	8.10745	3.73191
10:08:58				387	10.06824	0.4843933	2.6574	1.4652	8.20513	3.72676
10:08:59				388	10.06824	0.4831103	2.4606	1.4652	8.05861	3.71624
10:08:59				389	10.06535	0.4839118	2.3623	1.4652	7.96093	3.72312
10:09:00				390	10.06342	0.4837525	2.3623	1.4652	7.76557	3.72201
10:09:00				391	10.06631	0.4837525	2.1655	1.4652	8.15629	3.72173
10:09:01				392	10.06535	0.4835915	2.1655	1.41636	8.54701	3.7205
10:09:01				393	10.06342	0.4834305	2.1655	1.4652	8.40049	3.71938
10:09:02				394	10.06631	0.4831102	2.0671	1.51404	8.79121	3.71646
10:09:02				395	10.06535	0.4826291	1.8703	1.4652	8.20513	3.71262
10:09:03				396	10.06342	0.482309	1.6736	1.4652	8.05861	3.71021
10:09:03				397	10.06149	0.4821481	1.5752	1.4652	7.96093	3.70909
10:09:04				398	10.05956	0.4818281	1.4768	1.4652	8.44933	3.70666
10:09:04				399	10.05763	0.4818281	1.2801	1.41636	8.88889	3.70687
10:09:05				400	10.05763	0.4815081	1.0833	1.4652	8.15629	3.70426
10:09:05				401	10.05667	0.4816673	1.1817	1.51404	8.35165	3.70566
10:09:06				402	10.05474	0.4815081	1.1817	1.51404	8.10745	3.70455
10:09:06				403	10.05571	0.4815081	1.1817	1.4652	8.00977	3.70445
10:09:07				404	10.05571	0.4815081	1.1817	1.51404	8.20513	3.70445
10:09:07				405	10.05667	0.4815081	1.0833	1.4652	8.49817	3.70436
10:09:08				406	10.05571	0.4815081	1.1817	1.41636	8.44933	3.70445
10:09:08				407	10.05667	0.4813473	1.1817	1.4652	16.9475	3.70303
10:09:09				408	10.05378	0.4815081	1.1817	1.4652	9.76801	3.70464
10:09:09				409	10.05281	0.4818281	1.1817	1.4652	8.40049	3.70737
10:09:10				410	10.05378	0.4816673	1.1817	1.51404	8.25397	3.70595
10:09:10				411	10.05474	0.4816673	1.1817	1.4652	8.40049	3.70585
10:09:11				412	10.05667	0.4815081	1.1817	1.4652	8.74237	3.70435
10:09:11				413	10.05474	0.4818281	1.1817	1.4652	8.25397	3.70717
10:09:12				414	10.05571	0.4818281	1.1817	1.4652	8.15629	3.70707
10:09:12				415	10.05571	0.4818281	1.1817	1.51404	12.55189	3.70707
10:09:13				416	10.05667	0.4816673	1.1817	1.4652	8.88889	3.70566
10:09:13				417	10.0586	0.4816673	1.0833	1.4652	8.10745	3.70547

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:09:14				418	10.05956	0.4818281	1.1817	1.51404	8.10745	3.70668
10:09:14	10:07:50 continue trans	10	180	419	10.06053	0.4816673	1.2801	1.51404	8.35165	3.70526
10:09:15				420	10.05956	0.4816673	1.1817	1.41636	8.20513	3.70536
10:09:15				421	10.05956	0.4816673	1.1817	1.4652	8.20513	3.70536
10:09:16				422	10.05956	0.4818281	1.0833	1.4652	8.05861	3.70669
10:09:16				423	10.05763	0.4821481	1.0833	1.4652	8.20513	3.70951
10:09:17				424	10.05956	0.4818281	1.0833	1.4652	8.10745	3.70669
10:09:17				425	10.05763	0.4818281	1.0833	1.4652	8.20513	3.70688
10:09:18				426	10.05667	0.4818281	1.0833	1.4652	8.20513	3.70698
10:09:18				427	10.0586	0.4818281	1.0833	1.4652	8.25397	3.70678
10:09:19				428	10.0586	0.4819889	1.0833	1.4652	8.20513	3.7081
10:09:19				429	10.0586	0.4816673	1.0833	1.4652	8.30281	3.70547
10:09:20				430	10.05956	0.4815081	1.0833	1.4652	8.35165	3.70406
10:09:20				431	10.05474	0.4815081	1.1817	1.4652	8.20513	3.70455
10:09:21				432	10.05571	0.4815081	1.1817	1.4652	8.15629	3.70445
10:09:21				433	10.05667	0.4815081	1.1817	1.4652	8.20513	3.70435
10:09:22				434	10.05763	0.4815081	1.1817	1.4652	8.35165	3.70425
10:09:22				435	10.05956	0.4815081	1.1817	1.51404	8.40049	3.70406
10:09:23				436	10.06246	0.4815081	1.1817	1.51404	8.35165	3.70376
10:09:23				437	10.05956	0.4815081	1.1817	1.4652	8.25397	3.70406
10:09:24				438	10.05571	0.4815081	1.1817	1.4652	8.05861	3.70445
10:09:24				439	10.05667	0.4815081	1.1817	1.4652	8.74237	3.70435
10:09:25				440	10.06342	0.4815081	1.1817	1.41636	8.00977	3.70366
10:09:25				441	10.06535	0.4813473	1.1817	1.4652	8.10745	3.70215
10:09:26				442	10.06438	0.4813473	1.1817	1.4652	8.25397	3.70225
10:09:26				443	10.06342	0.4813473	1.1817	1.4652	8.00977	3.70234
10:09:27				444	10.05956	0.4813473	1.1817	1.4652	8.10745	3.70274
10:09:27				445	10.05956	0.4813473	1.1817	1.51404	8.10745	3.70274
10:09:28				446	10.05763	0.4813473	1.1817	1.51404	8.25397	3.70293
10:09:28				447	10.05956	0.4811866	1.1817	1.4652	8.44933	3.70142
10:09:29				448	10.05667	0.4813473	1.1817	1.4652	8.35165	3.70303
10:09:29				449	10.05763	0.4815081	1.1817	1.4652	8.44933	3.70425
10:09:30				450	10.06053	0.4813473	1.2801	1.4652	8.15629	3.70263
10:09:30				451	10.06053	0.4813473	1.1817	1.4652	8.10745	3.70264
10:09:31				452	10.06149	0.4813473	1.1817	1.4652	8.20513	3.70254
10:09:31				453	10.06535	0.4813473	1.1817	1.4652	8.35165	3.70215
10:09:32				454	10.06631	0.4813473	1.2801	1.4652	7.91209	3.70205
10:09:32				455	10.06728	0.4813473	1.2801	1.4652	8.05861	3.70195
10:09:33				456	10.06824	0.4813473	1.2801	1.4652	8.15629	3.70185
10:09:33				457	10.06728	0.4813473	1.0833	1.4652	8.15629	3.70196
10:09:34				458	10.06728	0.4813473	1.1817	1.51404	8.88889	3.70195
10:09:34				459	10.06631	0.4813473	1.2801	1.51404	8.15629	3.70205
10:09:35				460	10.06631	0.4811866	1.1817	1.4652	8.10745	3.70073
10:09:35				461	10.06438	0.4811866	1.1817	1.51404	7.91209	3.70093
10:09:36				462	10.06535	0.4811866	1.1817	1.4652	8.25397	3.70083

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:09:36				463	10.06246	0.4811866	1.1817	1.41636	8.30281	3.70112
10:09:37				464	10.06438	0.4811866	1.1817	1.4652	8.15629	3.70093
10:09:37				465	10.06535	0.4811866	1.1817	1.4652	7.96093	3.70083
10:09:38				466	10.06535	0.4811866	1.2801	1.41636	7.91209	3.70082
10:09:38				467	10.06728	0.4811866	1.1817	1.4652	8.05861	3.70063
10:09:39				468	10.06631	0.4811866	1.1817	1.51404	8.35165	3.70073
10:09:39				469	10.06631	0.4811866	1.1817	1.51404	8.25397	3.70073
10:09:40				470	10.06535	0.4811866	1.1817	1.51404	8.20513	3.70083
10:09:40				471	10.06631	0.4811866	1.1817	1.4652	8.15629	3.70073
10:09:41				472	10.06631	0.4811866	1.1817	1.4652	8.35165	3.70073
10:09:41				473	10.06535	0.4811866	1.1817	1.41636	8.54701	3.70083
10:09:42				474	10.06438	0.4811866	1.1817	1.41636	8.10745	3.70093
10:09:42				475	10.06342	0.4811866	1.1817	1.4652	8.10745	3.70103
10:09:43				476	10.06438	0.4811866	1.1817	1.4652	8.15629	3.70093
10:09:43				477	10.06246	0.4811866	1.1817	1.4652	8.05861	3.70112
10:09:44				478	10.06342	0.4811866	1.1817	1.4652	8.25397	3.70103
10:09:44				479	10.06535	0.4811866	1.1817	1.4652	8.10745	3.70083
10:09:45				480	10.06246	0.4810258	1.1817	1.4652	7.91209	3.69981
10:09:45				481	10.06535	0.4811866	1.1817	1.51404	8.15629	3.70083
10:09:46				482	10.06824	0.4811866	1.1817	1.51404	8.10745	3.70054
10:09:46				483	10.06824	0.4811866	1.1817	1.4652	7.96093	3.70054
10:09:47				484	10.06824	0.4811866	1.1817	1.51404	7.91209	3.70054
10:09:48				487	10.07415	0.4811537	1.1817	1.4652	8.69353	3.69967
10:09:49				488	10.07029	0.4811537	1.2801	1.51404	8.10745	3.70005
10:09:49				489	10.07029	0.4811537	1.2801	1.41636	7.86325	3.70005
10:09:50				490	10.06933	0.4811537	1.2801	1.4652	8.20513	3.70015
10:09:50				491	10.06933	0.4811537	1.1817	1.4652	8.35165	3.70016
10:09:51				492	10.06836	0.4811537	1.1817	1.4652	8.40049	3.70025
10:09:51				493	10.06933	0.480993	1.2801	1.4652	8.30281	3.69883
10:09:52				494	10.06933	0.4808339	1.1817	1.4652	8.30281	3.69753
10:09:52				495	10.07029	0.4808339	1.1817	1.4652	8.15629	3.69744
10:09:53				496	10.07897	0.480993	1.1817	1.4652	8.20513	3.69786
10:09:53				497	10.08186	0.480993	1.1817	1.4652	7.86325	3.69757
10:09:54				498	10.07993	0.480993	1.1817	1.4652	8.25397	3.69776
10:09:54				499	10.08186	0.480993	1.1817	1.51404	8.05861	3.69757
10:09:55				500	10.08089	0.4808339	1.2801	1.4652	8.35165	3.69635
10:09:55				501	10.08186	0.480993	1.2801	1.4652	8.10745	3.69756
10:09:56				502	10.08379	0.480993	1.1817	1.4652	8.05861	3.69737
10:09:56				503	10.08379	0.4806731	1.0833	1.4652	8.05861	3.69475
10:09:57				504	10.08282	0.4806731	1.1817	1.4652	8.54701	3.69485
10:09:57				505	10.08674	0.4808339	1.2801	1.4652	8.35165	3.69576
10:09:58				506	10.08674	0.4808339	1.1817	1.4652	8.10745	3.69577
10:09:58				507	10.08674	0.4806731	1.1817	1.4652	8.25397	3.69445
10:09:59				508	10.08571	0.4808339	1.1817	1.4652	8.25397	3.69587
10:09:59				509	10.08674	0.4808339	1.2801	1.4652	8.40049	3.69576

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:10:00				510	10.08674	0.4808339	1.1817	1.4652	7.96093	3.69577
10:10:00				511	10.08674	0.4808339	1.2801	1.4652	8.49817	3.69576
10:10:01				512	10.08674	0.4808339	1.2801	1.4652	7.76557	3.69576
10:10:01				513	10.08282	0.4808339	1.1817	1.4652	7.91209	3.69616
10:10:02				514	10.08475	0.4806731	1.1817	1.4652	8.44933	3.69465
10:10:02				515	10.08379	0.4805124	1.2801	1.4652	8.69353	3.69343
10:10:03				516	10.08571	0.4806731	1.2801	1.4652	8.15629	3.69455
10:10:03				517	10.08379	0.4806731	1.1817	1.51404	8.25397	3.69475
10:10:04				518	10.08475	0.4808339	1.0833	1.4652	8.05861	3.69597
10:10:04				519	10.0877	0.4808339	1.0833	1.51404	8.25397	3.69567
10:10:05				520	10.09059	0.4806731	0.9849	1.51404	8.15629	3.69407
10:10:05				521	10.09156	0.4808338	0.7881	1.4652	8.20513	3.6953
10:10:06				522	10.08674	0.4809929	0.7881	1.51404	8.15629	3.69709
10:10:06	10:08:42 end transect	10	270	523	10.08674	0.4808338	0.6898	1.51404	8.05861	3.69579
10:10:07				524	10.08866	0.4809929	0.6898	1.4652	8.30281	3.6969
10:10:07				525	10.08674	0.4809929	0.6898	1.4652	9.32845	3.6971
10:10:08				526	10.08089	0.4809929	0.6898	1.41636	9.27961	3.69769
10:10:08				527	10.10505	0.3630498	0.5914	1.4652	26.81319	2.73908
10:10:09				528	10.15905	0.0663779	0.493	1.4652	7.42369	0.45877
10:10:09				529	10.21685	0.0670168	0.5914	1.4652	3.61416	0.46264
10:10:10	10:04:54 switch off	10	270	530	10.30055	0.0619032	0.5914	0	0	0.42506
	start dye 10:09:45									
10:16:25	10:14:55 switch on	10	90	7	10.07788	0.4854519	1.0833	0	0	3.73455
10:16:26				8	10.08077	0.4862545	1.1817	0	0	3.74083
10:16:26		10	90	9	10.07981	0.4819265	1.0833	0	0	3.70543
10:16:27				10	10.08077	0.4824074	0.9849	0	0	3.70928
10:16:27				11	10.07692	0.483368	0.9849	0	0	3.71756
10:16:28				12	10.07885	0.4848107	1.1817	0	0	3.72918
10:16:28				13	10.0827	0.48369	1.2801	0	0	3.71959
10:16:29				14	10.08656	0.4825667	1.2801	0	0	3.70998
10:16:29				15	10.08463	0.4820857	1.1817	0	0	3.70624
10:16:30				16	10.08463	0.4820857	1.0833	0	0	3.70625
10:16:30				17	10.0827	0.4838493	1.1817	0	0	3.7209
10:16:31				18	10.08174	0.4843308	1.2801	0	0	3.72494
10:16:31				19	10.08366	0.483529	1.2801	0	0	3.71817
10:16:32				20	10.08366	0.4817657	1.2801	0	0	3.70371
10:16:32				21	10.08366	0.4816049	1.1817	0	0	3.7024
10:16:33				22	10.08463	0.4832087	1.2801	0	0	3.71545
10:16:33				23	10.07692	0.4843308	1.3784	0	0	3.72543
10:16:34				24	10.07595	0.48369	1.3784	0	0	3.72027
10:16:34				25	10.07885	0.4814457	1.2801	0	0	3.70158
10:16:35				26	10.07981	0.4816049	1.1817	0	0	3.70279
10:16:35				27	10.0721	0.4830478	1.2801	0	0	3.7154
10:16:36				28	10.0692	0.483529	1.3784	0	0	3.71964
10:16:36				29	10.07306	0.481285	1.2801	0	0	3.70085

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:16:37				30	10.07306	0.481285	1.2801	0	0	3.70085
10:16:37				31	10.07113	0.4822466	1.2801	0	0	3.70893
10:16:38				32	10.06728	0.4825667	1.3784	0	0	3.71194
10:16:38				33	10.0692	0.4824075	1.3784	0	0	3.71044
10:16:39				34	10.07113	0.4830478	1.3784	0	0	3.7155
10:16:39				35	10.07595	0.4819265	1.2801	0	0	3.70581
10:16:40				36	10.07788	0.4814458	1.2801	0	0	3.70168
10:16:40				37	10.07595	0.4830478	1.2801	0	0	3.71501
10:16:41				38	10.07788	0.4828885	1.4768	0	0	3.7135
10:16:41				39	10.07788	0.4819265	1.3784	0	0	3.70561
10:16:42				40	10.07595	0.481285	1.2801	0	0	3.70055
10:16:42				41	10.07788	0.4816049	1.2801	0	0	3.70298
10:16:43				42	10.07692	0.4820857	1.3784	0	0	3.70702
10:16:43				43	10.07692	0.4825667	1.3784	0	0	3.71096
10:16:44				44	10.07595	0.481285	1.3784	0	0	3.70055
10:16:44				45	10.07692	0.4811242	1.2801	0	0	3.69914
10:16:45				46	10.07692	0.4817657	1.2801	0	0	3.7044
10:16:45				47	10.07595	0.4824075	1.3784	0	0	3.70975
10:16:46				48	10.07595	0.4817657	1.3784	0	0	3.70449
10:16:46				49	10.07692	0.4811242	1.2801	0	0	3.69914
10:16:47				50	10.07499	0.4809635	1.2801	0	0	3.69802
10:16:47				51	10.07403	0.4819265	1.3784	0	0	3.70601
10:16:48				52	10.07595	0.4822466	1.4768	0	0	3.70843
10:16:48				53	10.07595	0.4814458	1.3784	0	0	3.70187
10:16:49				54	10.07595	0.4808044	1.2801	0	0	3.69661
10:16:49				55	10.07306	0.481285	1.2801	0	0	3.70085
10:16:50				56	10.0721	0.4814458	1.4768	0	0	3.70225
10:16:50				57	10.0721	0.4814458	1.3784	0	0	3.70226
10:16:51				58	10.07306	0.4809635	1.2801	0	0	3.69821
10:16:51				59	10.07113	0.4809635	1.2801	0	0	3.69841
10:16:52				60	10.07017	0.4811242	1.3784	0	0	3.69982
10:16:52				61	10.07113	0.4814458	1.4768	0	0	3.70235
10:16:53				62	10.07017	0.4809635	1.3784	0	0	3.6985
10:16:53				63	10.0692	0.4808044	1.2801	0	0	3.6973
10:16:54				64	10.06824	0.4811242	1.3784	0	0	3.70001
10:16:54				65	10.0692	0.481285	1.4768	0	0	3.70123
10:16:55				66	10.06824	0.4809635	1.3784	0	0	3.6987
10:16:55				67	10.06824	0.4808044	1.2801	0	0	3.6974
10:16:56				68	10.06631	0.4809635	1.3784	0	0	3.69889
10:16:56				69	10.06246	0.481285	1.4768	0	0	3.70191
10:16:57				70	10.06342	0.4809635	1.3784	0	0	3.69918
10:16:57				71	10.06438	0.4808044	1.2801	0	0	3.69779
10:16:58				72	10.06246	0.4809635	1.3784	0	0	3.69928
10:16:58				73	10.06342	0.481285	1.4768	0	0	3.70182
10:16:59				74	10.06438	0.4811242	1.3784	0	0	3.70041

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:16:59				75	10.06438	0.4809635	1.2801	0	0	3.69909
10:17:00				76	10.06342	0.481285	1.2801	0	0	3.70183
10:17:00				77	10.06149	0.4811242	1.4768	0	0	3.70069
10:17:01				78	10.06149	0.481285	1.3784	0	0	3.70202
10:17:01				79	10.06246	0.4809635	1.3784	0	0	3.69928
10:17:02				80	10.06246	0.481285	1.2801	0	0	3.70193
10:17:02				81	10.06053	0.481285	1.3784	0	0	3.70212
10:17:03				82	10.06246	0.481285	1.3784	0	0	3.70192
10:17:03				83	10.05956	0.4809635	1.3784	0	0	3.69958
10:17:04				84	10.05763	0.481285	1.2801	0	0	3.70242
10:17:04				85	10.0586	0.481285	1.3784	0	0	3.70231
10:17:05				86	10.06053	0.4808044	1.3784	0	0	3.69817
10:17:05				87	10.06149	0.4811242	1.2801	0	0	3.70071
10:17:06				88	10.06246	0.481285	1.3784	0	0	3.70192
10:17:06				89	10.06342	0.4808044	1.3784	0	0	3.69788
10:17:07				90	10.06342	0.4811242	1.3784	0	0	3.7005
10:17:07				91	10.06535	0.481285	1.3784	0	0	3.70163
10:17:08				92	10.06535	0.481285	1.3784	0	0	3.70163
10:17:08				93	10.06438	0.4809635	1.2801	0	0	3.69909
10:17:09				94	10.06438	0.4809635	1.3784	0	0	3.69909
10:17:09				95	10.06438	0.4814458	1.3784	0	0	3.70304
10:17:10				96	10.06631	0.480483	1.3784	0.58608	0.29304	3.69495
10:17:10				97	10.06053	0.4806437	1.2801	0.39072	0.09768	3.69686
10:17:11				98	10.06535	0.480483	1.3784	1.51404	1.80708	3.69505
10:17:11				99	10.06438	0.480483	1.3784	1.41636	8.20513	3.69515
10:17:12				100	10.06535	0.480483	1.3784	1.4652	8.30281	3.69505
10:17:12				101	10.06631	0.4804829	1.2801	1.4652	8.44933	3.69496
10:17:13				102	10.06246	0.4806437	1.3784	1.4652	8.49817	3.69666
10:17:13				103	10.06438	0.4806437	1.3784	1.4652	8.54701	3.69646
10:17:14				104	10.06342	0.4806437	1.3784	1.4652	8.15629	3.69656
10:17:14				105	10.06438	0.480483	1.2801	1.4652	8.54701	3.69515
10:17:15				106	10.06535	0.4803223	1.3784	1.4652	8.93773	3.69373
10:17:15				107	10.06438	0.4806437	1.3784	1.4652	8.35165	3.69646
10:17:16				108	10.06438	0.4806437	1.3784	1.51404	8.05861	3.69646
10:17:16				109	10.06535	0.480483	1.3784	1.41636	8.15629	3.69505
10:17:17				110	10.06631	0.480483	1.3784	1.51404	8.49817	3.69495
10:17:17				111	10.06728	0.480483	1.3784	1.41636	9.18193	3.69485
10:17:18				112	10.06631	0.480483	1.3784	1.4652	8.25397	3.69495
10:17:18				113	10.06535	0.480483	1.3784	1.4652	8.35165	3.69505
10:17:19				114	10.06631	0.4804829	1.2801	1.4652	8.69353	3.69496
10:17:19				115	10.06535	0.480483	1.3784	1.51404	8.20513	3.69505
10:17:20				116	10.06438	0.4806437	1.3784	1.4652	8.05861	3.69646
10:17:20				117	10.06728	0.4806437	1.3784	1.4652	8.59585	3.69617
10:17:21				118	10.06631	0.4808044	1.3784	1.51404	8.44933	3.69759
10:17:21				119	10.06824	0.4808044	1.3784	1.4652	8.44933	3.69739

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:17:22				120	10.07017	0.4809635	1.3784	1.4652	8.35165	3.6985
10:17:22				121	10.0692	0.4809635	1.4768	1.51404	8.30281	3.69859
10:17:23				122	10.07113	0.4811242	1.3784	1.4652	8.10745	3.69972
10:17:23				123	10.0721	0.4811242	1.3784	1.4652	8.15629	3.69962
10:17:24				124	10.07113	0.4806436	1.2801	1.51404	8.44933	3.69578
10:17:25				127	10.07101	0.4811226	1.3784	1.4652	8.20513	3.69972
10:17:26				128	10.07198	0.4811226	1.2801	1.4652	8.30281	3.69963
10:17:26				129	10.07101	0.4811226	1.3784	1.41636	8.49817	3.69972
10:17:27				130	10.07005	0.4811226	1.4768	1.4652	8.25397	3.69981
10:17:27				131	10.07101	0.4812833	1.3784	1.4652	8.30281	3.70104
10:17:28				132	10.07198	0.4811226	1.2801	1.51404	8.25397	3.69963
10:17:28				133	10.07005	0.4809635	1.3784	1.4652	8.59585	3.69851
10:17:29				134	10.07005	0.4811226	1.3784	1.4652	8.30281	3.69982
10:17:29				135	10.07101	0.4811226	1.3784	1.4652	8.20513	3.69972
10:17:30				136	10.07005	0.4811226	1.3784	1.51404	8.64469	3.69982
10:17:30				137	10.06812	0.4811226	1.3784	1.51404	8.40049	3.70001
10:17:31				138	10.06908	0.4811226	1.3784	1.4652	8.25397	3.69991
10:17:31				139	10.06812	0.4809635	1.2801	1.4652	8.25397	3.69871
10:17:32				140	10.06812	0.4809635	1.3784	1.4652	8.20513	3.69871
10:17:32				141	10.06716	0.4808027	1.2801	1.51404	8.30281	3.69749
10:17:33				142	10.06812	0.4809635	1.3784	1.4652	8.35165	3.69871
10:17:33				143	10.06523	0.4811226	1.2801	1.4652	8.25397	3.70031
10:17:34				144	10.06716	0.4808027	1.2801	1.41636	8.35165	3.69749
10:17:34				145	10.06619	0.4808027	1.3784	1.41636	8.15629	3.69759
10:17:35				146	10.06619	0.4809635	1.4768	1.41636	8.15629	3.6989
10:17:35				147	10.06716	0.4811226	1.3784	1.4652	8.30281	3.70011
10:17:36				148	10.06812	0.4811226	1.2801	1.4652	8.20513	3.70002
10:17:36				149	10.06812	0.4809635	1.3784	1.4652	8.49817	3.69871
10:17:37				150	10.06716	0.4811226	1.4768	1.4652	8.30281	3.7001
10:17:37				151	10.06812	0.4811226	1.3784	1.51404	8.30281	3.70001
10:17:38				152	10.06812	0.4811226	1.2801	1.51404	8.40049	3.70002
10:17:38				153	10.06812	0.4811226	1.3784	1.4652	8.69353	3.70001
10:17:39				154	10.06908	0.4811226	1.3784	1.4652	8.44933	3.69991
10:17:39				155	10.06908	0.4811226	1.3784	1.4652	8.40049	3.69991
10:17:40				156	10.06908	0.4811226	1.3784	1.4652	8.25397	3.69991
10:17:40				157	10.07005	0.4811226	1.3784	1.4652	8.10745	3.69982
10:17:41				158	10.07101	0.4811226	1.3784	1.4652	7.96093	3.69972
10:17:41				159	10.07101	0.4811226	1.3784	1.4652	8.20513	3.69972
10:17:42				160	10.07101	0.4811226	1.3784	1.4652	8.35165	3.69972
10:17:42				161	10.07005	0.4811226	1.3784	1.4652	8.44933	3.69982
10:17:43				162	10.07198	0.4811226	1.3784	1.4652	8.20513	3.69962
10:17:43				163	10.07101	0.4809635	1.2801	1.4652	8.40049	3.69842
10:17:44				164	10.06523	0.4809635	1.3784	1.4652	8.40049	3.699
10:17:44				165	10.06812	0.4809635	1.3784	1.4652	8.40049	3.69871
10:17:45				166	10.06812	0.4809635	1.3784	1.4652	8.30281	3.69871

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:17:45				167	10.06812	0.4809635	1.3784	1.4652	8.00977	3.69871
10:17:46				168	10.06716	0.4808027	1.3784	1.4652	8.54701	3.69749
10:17:46				169	10.06523	0.4808027	1.2801	1.4652	8.40049	3.69769
10:17:47				170	10.06523	0.4808027	1.3784	1.4652	9.27961	3.69768
10:17:47				171	10.0633	0.4809635	1.3784	1.4652	8.44933	3.6992
10:17:48				172	10.06619	0.4809635	1.3784	1.4652	8.40049	3.6989
10:17:48				173	10.06619	0.4812834	1.3784	1.51404	8.64469	3.70153
10:17:49				174	10.06716	0.4811226	1.3784	1.51404	8.44933	3.70011
10:17:49				175	10.06812	0.4812834	1.3784	1.51404	8.35165	3.70133
10:17:50				176	10.06908	0.4812833	1.3784	1.4652	8.15629	3.70123
10:17:50				177	10.07101	0.4811226	1.3784	1.51404	8.15629	3.69972
10:17:51				178	10.07005	0.4809635	1.3784	1.41636	8.54701	3.69851
10:17:51				179	10.06812	0.4811226	1.3784	1.4652	8.44933	3.70001
10:17:52				180	10.06908	0.4812833	1.3784	1.41636	8.40049	3.70123
10:17:52				181	10.07005	0.4812833	1.3784	1.4652	8.10745	3.70113
10:17:53				182	10.07005	0.4811226	1.3784	1.41636	8.54701	3.69982
10:17:53				183	10.06812	0.4812833	1.2801	1.4652	8.54701	3.70134
10:17:54				184	10.07005	0.4812833	1.3784	1.4652	8.40049	3.70113
10:17:54				185	10.07101	0.4808027	1.3784	1.4652	8.54701	3.6971
10:17:55				186	10.06523	0.4809635	1.3784	1.4652	8.25397	3.699
10:17:55	10:16:27 start transect	10	90	187	10.06523	0.4809635	1.3784	1.4652	8.35165	3.699
10:17:56				188	10.06426	0.4809635	1.2801	1.4652	8.30281	3.6991
10:17:56				189	10.0633	0.4808027	1.2801	1.51404	8.40049	3.69788
10:17:57				190	10.05944	0.4808028	1.3784	1.51404	8.54701	3.69827
10:17:57				191	10.05655	0.4804813	1.3784	1.4652	8.30281	3.69593
10:17:58				192	10.05173	0.4804813	1.3784	1.4652	8.35165	3.69642
10:17:58				193	10.0498	0.4800009	1.2801	1.51404	8.20513	3.69268
10:17:59				194	10.04594	0.4801616	1.2801	1.51404	8.98657	3.69439
10:17:59				195	10.04401	0.4801616	1.3784	1.4652	8.69353	3.69458
10:18:00				196	10.04305	0.4801616	1.3784	1.4652	8.44933	3.69468
10:18:00				197	10.04305	0.480001	1.2801	1.41636	8.35165	3.69336
10:18:01				198	10.04016	0.4798403	1.1817	1.4652	8.54701	3.69234
10:18:01				199	10.03919	0.4798403	1.2801	1.4652	8.84005	3.69244
10:18:02				200	10.03823	0.4796813	1.3784	1.4652	8.30281	3.69122
10:18:02				201	10.03726	0.4796813	1.2801	1.4652	8.44933	3.69133
10:18:03				202	10.03533	0.4793601	1.2801	1.4652	8.64469	3.68889
10:18:03				203	10.03244	0.4801616	1.2801	1.51404	8.69353	3.69576
10:18:04				204	10.0334	0.4801616	1.3784	1.4652	8.49817	3.69565
10:18:04				205	10.03244	0.480001	1.3784	1.4652	8.44933	3.69443
10:18:05				206	10.0334	0.480001	1.2801	1.4652	8.74237	3.69434
10:18:05				207	10.03244	0.480001	1.3784	1.4652	8.59585	3.69443
10:18:06				208	10.03147	0.4798403	1.3784	1.41636	8.35165	3.69321
10:18:06				209	10.03533	0.4798403	1.3784	1.4652	8.64469	3.69282
10:18:07				210	10.0363	0.4796813	1.3784	1.4652	8.54701	3.69142
10:18:07				211	10.03533	0.4796813	1.3784	1.4652	8.49817	3.69152

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:08				212	10.0363	0.4796813	1.3784	1.4652	8.44933	3.69142
10:18:08				213	10.03726	0.4796813	1.2801	1.4652	8.30281	3.69133
10:18:09				214	10.03823	0.4796813	1.3784	1.4652	8.74237	3.69122
10:18:09				215	10.03533	0.4796813	1.4768	1.4652	8.49817	3.69151
10:18:10				216	10.03919	0.4796813	1.3784	1.51404	8.49817	3.69113
10:18:10				217	10.03919	0.4796813	1.3784	1.4652	8.54701	3.69113
10:18:11				218	10.03919	0.4798403	1.3784	1.4652	8.64469	3.69243
10:18:11				219	10.04016	0.4798403	1.3784	1.4652	9.13309	3.69233
10:18:12				220	10.03823	0.4798403	1.3784	1.4652	8.49817	3.69253
10:18:12				221	10.04016	0.4798403	1.3784	1.4652	8.49817	3.69233
10:18:13				222	10.04112	0.4798403	1.2801	1.51404	8.54701	3.69224
10:18:13				223	10.03919	0.4798403	1.3784	1.4652	8.49817	3.69243
10:18:14				224	10.04112	0.4798403	1.3784	1.4652	8.30281	3.69223
10:18:14				225	10.04016	0.4798403	1.3784	1.51404	8.54701	3.69233
10:18:15				226	10.04112	0.4798403	1.3784	1.41636	8.88889	3.69223
10:18:15				227	10.04016	0.4793601	1.2801	1.4652	8.54701	3.6884
10:18:16				228	10.03244	0.4795207	1.3784	1.4652	8.93773	3.69049
10:18:16				229	10.03051	0.4796813	1.3784	1.4652	8.49817	3.69201
10:18:17				230	10.03244	0.4793601	1.3784	1.4652	8.69353	3.68917
10:18:17				231	10.0208	0.4795207	1.2801	1.4652	8.44933	3.69168
10:18:18				232	10.01694	0.480001	1.2801	1.51404	8.69353	3.69601
10:18:18				233	10.02177	0.480001	1.3784	1.4652	8.79121	3.69552
10:18:19				234	10.01887	0.480001	1.3784	1.4652	8.59585	3.69581
10:18:19				235	10.02177	0.4795207	1.2801	1.4652	8.49817	3.69158
10:18:20				236	10.01984	0.480001	1.2801	1.4652	8.54701	3.69572
10:18:20				237	10.01887	0.4793601	1.3784	1.51404	8.59585	3.69055
10:18:21				238	10.01694	0.4798404	1.3784	1.4652	8.44933	3.69469
10:18:21				239	10.01694	0.4796814	1.3784	1.51404	8.40049	3.69338
10:18:22				240	10.01694	0.480001	1.3784	1.4652	8.40049	3.69601
10:18:22				241	10.02177	0.4796813	1.3784	1.4652	8.69353	3.69289
10:18:23				242	10.02177	0.4798403	1.3784	1.4652	8.49817	3.6942
10:18:23				243	10.0237	0.4795207	1.3784	1.4652	8.49817	3.69138
10:18:24				244	10.02563	0.4795207	1.3784	1.51404	8.93773	3.69118
10:18:25				247	10.02695	0.4795273	1.2801	1.41636	8.54701	3.69111
10:18:26				248	10.02792	0.4795273	1.2801	1.4652	8.69353	3.69101
10:18:26				249	10.02985	0.4796863	1.3784	1.4652	8.49817	3.69211
10:18:27				250	10.03473	0.4798469	1.3784	1.51404	8.44933	3.69294
10:18:27				251	10.03376	0.4800075	1.2801	1.4652	8.40049	3.69436
10:18:28				252	10.03762	0.4796862	1.2801	1.4652	8.49817	3.69133
10:18:28				253	10.03081	0.4798469	1.2801	1.4652	8.74237	3.69334
10:18:29				254	10.02792	0.4800075	1.3784	1.4652	8.59585	3.69495
10:18:29				255	10.03184	0.4798469	1.3784	1.4652	8.44933	3.69323
10:18:30				256	10.03569	0.4796862	1.2801	1.51404	8.64469	3.69153
10:18:30				257	10.02888	0.4795273	1.2801	1.4652	8.49817	3.69091
10:18:31				258	10.02695	0.4788849	1.2801	1.4652	8.59585	3.68584

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:31				259	10.02116	0.4787244	1.3784	1.41636	8.44933	3.6851
10:18:32				260	10.01441	0.4785655	1.3784	1.4652	8.59585	3.68448
10:18:32				261	10.01634	0.4790455	1.2801	1.4652	8.59585	3.68823
10:18:33				262	10.01923	0.478885	1.2801	1.51404	8.59585	3.68662
10:18:33				263	10.01634	0.4785655	1.3784	1.4652	8.59585	3.68428
10:18:34				264	10.01537	0.4787244	1.3784	1.51404	8.49817	3.68568
10:18:34				265	10.01923	0.4785655	1.3784	1.4652	8.64469	3.68399
10:18:35				266	10.0173	0.478405	1.3784	1.4652	8.88889	3.68287
10:18:35				267	10.01344	0.4793667	1.3784	1.4652	8.69353	3.69115
10:18:36				268	10.02695	0.4822516	1.3784	1.51404	8.64469	3.71347
10:18:36				269	10.04341	0.4819315	1.3784	1.4652	8.54701	3.70916
10:18:37				270	10.04341	0.4806486	1.3784	1.4652	8.54701	3.69863
10:18:37				271	10.03376	0.4804879	1.3784	1.4652	8.64469	3.6983
10:18:38				272	10.03569	0.4820907	1.3784	1.4652	8.44933	3.71126
10:18:38	10:17:14 @ 6:00	10	180	273	10.04534	0.4828935	1.3784	1.51404	8.25397	3.71686
10:18:39				274	10.0598	0.4817707	1.3784	1.4652	8.30281	3.70617
10:18:39				275	10.05113	0.483534	1.2801	1.4652	8.20513	3.72154
10:18:40				276	10.06077	0.483373	1.3784	1.41636	8.35165	3.71922
10:18:40				277	10.0733	0.4817706	1.3784	1.4652	8.30281	3.7048
10:18:41				278	10.07041	0.4804879	1.3784	1.4652	8.40049	3.69457
10:18:41				279	10.04052	0.4795273	1.3784	1.4652	8.25397	3.68973
10:18:42				280	10.02695	0.4817707	1.2801	1.51404	8.74237	3.70953
10:18:42				281	10.04727	0.4809701	1.3784	1.41636	8.69353	3.70088
10:18:43				282	10.04534	0.4819315	1.3784	1.4652	8.40049	3.70897
10:18:43				283	10.04823	0.4820907	1.3784	1.51404	8.30281	3.70998
10:18:44				284	10.06463	0.4820907	1.3784	1.4652	8.35165	3.70831
10:18:44				285	10.06463	0.4822515	1.3784	1.51404	8.40049	3.70963
10:18:45				286	10.0627	0.4817707	1.3784	1.41636	8.40049	3.70588
10:18:45				287	10.05788	0.4814507	1.3784	1.4652	8.44933	3.70375
10:18:46				288	10.05209	0.4811292	1.3784	1.4652	8.59585	3.7017
10:18:46				289	10.05016	0.4812899	1.3784	1.4652	8.44933	3.70321
10:18:47				290	10.05402	0.4820907	1.2801	1.51404	8.35165	3.70939
10:18:47				291	10.0598	0.4827325	1.3784	1.41636	8.84005	3.71407
10:18:48				292	10.07909	0.4832136	1.2801	1.4652	8.40049	3.71605
10:18:48				293	10.08975	0.4832136	1.2801	1.4652	8.10745	3.71496
10:18:49				294	10.09168	0.4830527	1.3784	1.4652	9.32845	3.71344
10:18:49				295	10.08782	0.4830527	1.3784	1.4652	8.15629	3.71384
10:18:50				296	10.09264	0.4822515	1.2801	1.4652	8.20513	3.70678
10:18:50				297	10.08583	0.4841747	1.2801	1.4652	8.15629	3.72324
10:18:51				298	10.09842	0.4838542	1.3784	1.4652	8.40049	3.71933
10:18:51				299	10.10228	0.4838542	1.3784	1.4652	8.15629	3.71893
10:18:52				300	10.10517	0.4840152	1.2801	1.41636	8.05861	3.71996
10:18:52				301	10.10613	0.4843357	1.2801	1.4652	8.35165	3.72249
10:18:53				302	10.10806	0.4843357	1.3784	1.51404	8.49817	3.72229
10:18:53				303	10.10999	0.4843357	1.4768	1.51404	8.10745	3.72209

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:18:54				304	10.11095	0.4843357	1.3784	1.4652	8.00977	3.72199
10:18:54				305	10.11384	0.4843357	1.2801	1.4652	8.25397	3.7217
10:18:55				306	10.1148	0.4843357	1.2801	1.4652	7.86325	3.7216
10:18:55				307	10.11288	0.4848172	1.2801	1.51404	8.35165	3.72575
10:18:56				308	10.11384	0.4846561	1.4768	1.4652	8.54701	3.72432
10:18:56				309	10.11095	0.4846561	1.3784	1.41636	8.30281	3.72462
10:18:57				310	10.11288	0.4843357	1.2801	1.4652	8.00977	3.7218
10:18:57				311	10.11095	0.4840152	1.1817	1.4652	8.35165	3.71938
10:18:58				312	10.10902	0.4838542	1.2801	1.4652	8.35165	3.71825
10:18:58				313	10.10902	0.4838542	1.3784	1.4652	7.96093	3.71824
10:18:59				314	10.11288	0.4841746	1.3784	1.4652	8.00977	3.72048
10:18:59				315	10.11191	0.4838542	1.2801	1.4652	8.15629	3.71795
10:19:00				316	10.11095	0.4841746	1.2801	1.4652	8.10745	3.72068
10:19:00				317	10.10999	0.4841746	1.3784	1.51404	8.15629	3.72077
10:19:01				318	10.11095	0.4841746	1.3784	1.4652	8.00977	3.72067
10:19:01				319	10.11191	0.4841746	1.3784	1.4652	8.05861	3.72057
10:19:02				320	10.11095	0.4841746	1.2801	1.51404	8.20513	3.72068
10:19:02				321	10.11095	0.4836949	1.2801	1.4652	8.79121	3.71675
10:19:03				322	10.11095	0.4843357	1.3784	1.41636	8.49817	3.72199
10:19:03				323	10.11288	0.4843357	1.3784	1.4652	7.96093	3.7218
10:19:04				324	10.11384	0.4841746	1.2801	1.51404	8.00977	3.72038
10:19:04				325	10.11384	0.4844951	1.3784	1.4652	8.69353	3.723
10:19:05				326	10.11384	0.4841746	1.3784	1.4652	8.25397	3.72038
10:19:05				327	10.1148	0.4841746	1.3784	1.4652	7.96093	3.72028
10:19:06				328	10.11384	0.4833729	1.2801	1.4652	7.91209	3.71381
10:19:06				329	10.11095	0.4832136	1.2801	1.4652	8.49817	3.7128
10:19:07				330	10.10902	0.4833729	1.3784	1.4652	8.25397	3.7143
10:19:07				331	10.10999	0.4833729	1.3784	1.4652	8.05861	3.7142
10:19:08				332	10.10999	0.4835339	1.3784	1.4652	8.05861	3.71552
10:19:08				333	10.11095	0.4830527	1.2801	1.4652	8.00977	3.71148
10:19:09				334	10.11095	0.4832136	1.3784	1.4652	8.30281	3.7128
10:19:09				335	10.11095	0.4833729	1.4768	1.4652	8.35165	3.7141
10:19:10				336	10.11191	0.4833729	1.3784	1.4652	8.00977	3.714
10:19:10				337	10.11191	0.4836949	1.2801	1.4652	8.15629	3.71665
10:19:11				338	10.11191	0.4835339	1.2801	1.4652	8.15629	3.71533
10:19:11				339	10.11288	0.4835339	1.4768	1.4652	8.35165	3.71522
10:19:12				340	10.11191	0.4836949	1.4768	1.4652	8.10745	3.71664
10:19:12				341	10.11288	0.4835339	1.2801	1.4652	8.05861	3.71523
10:19:13				342	10.11384	0.4836949	1.1817	1.51404	7.96093	3.71646
10:19:13				343	10.11384	0.4833729	1.2801	1.4652	8.30281	3.71381
10:19:14				344	10.11191	0.4833729	1.4768	1.4652	8.35165	3.714
10:19:14				345	10.10999	0.4833729	1.3784	1.4652	8.15629	3.7142
10:19:15				346	10.10902	0.4828934	1.2801	1.4652	8.44933	3.71037
10:19:15				347	10.10613	0.4825716	1.2801	1.4652	8.35165	3.70803
10:19:16				348	10.10035	0.4825716	1.2801	1.4652	8.40049	3.70862

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:16				349	10.09553	0.4828934	1.4768	1.4652	8.20513	3.71174
10:19:17				350	10.09746	0.4825716	1.4768	1.4652	8.05861	3.7089
10:19:17				351	10.09746	0.4825716	1.2801	1.4652	8.15629	3.70891
10:19:18				352	10.09746	0.4830527	1.2801	1.4652	8.05861	3.71286
10:19:18				353	10.09553	0.4828934	1.3784	1.4652	8.25397	3.71174
10:19:19				354	10.09553	0.4825716	1.4768	1.4652	8.10745	3.7091
10:19:19				355	10.0936	0.4828934	1.3784	1.51404	8.05861	3.71194
10:19:20				356	10.0936	0.4830527	1.3784	1.51404	8.25397	3.71325
10:19:20				357	10.09842	0.4832136	1.3784	1.4652	8.30281	3.71407
10:19:21				358	10.10035	0.4830527	1.3784	1.41636	8.20513	3.71256
10:19:21				359	10.09746	0.4830527	1.3784	1.4652	8.25397	3.71285
10:19:22				360	10.09746	0.4830527	1.3784	1.51404	8.25397	3.71285
10:19:22				361	10.09746	0.4824124	1.3784	1.51404	8.15629	3.7076
10:19:23				362	10.09553	0.4822515	1.3784	1.41636	8.35165	3.70648
10:19:23				363	10.0965	0.4825716	1.4768	1.4652	8.00977	3.709
10:19:24				364	10.0965	0.4825716	1.3784	1.51404	7.96093	3.70901
10:19:25				367	10.09577	0.4824156	1.3784	1.4652	8.10745	3.7078
10:19:26				368	10.0977	0.4824156	1.4768	1.4652	8.44933	3.7076
10:19:26				369	10.0977	0.4827358	1.3784	1.4652	7.91209	3.71023
10:19:27				370	10.09674	0.483056	1.2801	1.4652	8.20513	3.71296
10:19:27				371	10.0977	0.4825749	1.1817	1.51404	7.96093	3.70892
10:19:28				372	10.0977	0.4825749	1.4768	1.51404	8.25397	3.70891
10:19:28				373	10.0977	0.4825749	1.4768	1.41636	8.05861	3.70891
10:19:29				374	10.09866	0.4827358	1.2801	1.4652	8.10745	3.71014
10:19:29				375	10.10059	0.4828967	1.0833	1.51404	8.10745	3.71127
10:19:30				376	10.09963	0.4825749	1.2801	1.4652	8.20513	3.70872
10:19:30				377	10.09674	0.4828967	1.4768	1.4652	8.20513	3.71164
10:19:31				378	10.10059	0.4836982	1.3784	1.4652	8.05861	3.71782
10:19:31				379	10.10637	0.4825749	1.1817	1.4652	9.03541	3.70804
10:19:32				380	10.10155	0.4827358	1.2801	1.51404	11.28205	3.70984
10:19:32				381	10.10059	0.4825749	1.4768	1.4652	8.15629	3.70861
10:19:33				382	10.09866	0.483056	1.3784	1.51404	8.00977	3.71276
10:19:33				383	10.10059	0.4824156	1.2801	1.4652	9.62149	3.70732
10:19:34				384	10.09866	0.4828967	1.3784	1.41636	8.40049	3.71145
10:19:34				385	10.09963	0.4833779	1.3784	1.4652	8.20513	3.7153
10:19:35				386	10.10541	0.4828967	1.2801	1.4652	8.30281	3.71077
10:19:35				387	10.10348	0.4828967	1.2801	1.51404	8.05861	3.71097
10:19:36				388	10.09963	0.4828967	1.4768	1.4652	8.00977	3.71135
10:19:36	10:18:12 end transect	10	270	389	10.10155	0.483056	1.3784	1.4652	8.25397	3.71246
10:19:37	reposition to 90			390	10.10252	0.4828967	1.2801	1.4652	8.15629	3.71106
10:19:37				391	10.09866	0.4824156	1.3784	1.41636	8.15629	3.70751
10:19:38				392	10.09378	0.4828967	1.4768	1.4652	8.35165	3.71194
10:19:38				393	10.09963	0.4832169	1.3784	1.51404	8.05861	3.71398
10:19:39				394	10.10348	0.4828967	1.1817	1.51404	8.20513	3.71097
10:19:39				395	10.10059	0.4828967	1.3784	1.4652	8.35165	3.71125

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:19:40				396	10.09866	0.4832169	1.4768	1.4652	7.96093	3.71407
10:19:40				397	10.10445	0.4833778	1.2801	1.4652	8.05861	3.71481
10:19:41				398	10.10348	0.4830559	1.1817	1.41636	8.10745	3.71228
10:19:41				399	10.10155	0.483056	1.4768	1.4652	8.30281	3.71246
10:19:42				400	10.10059	0.4833779	1.4768	1.51404	8.20513	3.71519
10:19:42				401	10.10445	0.4836982	1.3784	1.51404	8.20513	3.71743
10:19:43				402	10.10348	0.483056	1.2801	1.4652	8.59585	3.71227
10:19:43				403	10.10348	0.4832169	1.3784	1.4652	9.18193	3.71358
10:19:44				404	10.10252	0.483056	1.3784	1.4652	8.15629	3.71236
10:19:44				405	10.10348	0.483056	1.3784	1.4652	8.05861	3.71227
10:19:45				406	10.10155	0.4832169	1.2801	1.4652	7.96093	3.71379
10:19:45				407	10.10155	0.4833779	1.3784	1.51404	8.15629	3.7151
10:19:46				408	10.10252	0.4832169	1.3784	1.51404	8.30281	3.71368
10:19:46				409	10.10252	0.484339	1.3784	1.4652	8.35165	3.72288
10:19:47				410	10.10445	0.4835372	1.4768	1.51404	7.96093	3.71611
10:19:47				411	10.10541	0.4833779	1.3784	1.4652	8.00977	3.71471
10:19:48				412	10.10637	0.4835372	1.2801	1.41636	8.40049	3.71592
10:19:48				413	10.10541	0.4835372	1.4768	1.4652	8.44933	3.71601
10:19:49				414	10.10541	0.4833779	1.3784	1.4652	8.00977	3.71471
10:19:49				415	10.10637	0.4833778	1.3784	1.4652	8.05861	3.71461
10:19:50				416	10.10637	0.4835372	1.3784	1.4652	8.00977	3.71592
10:19:50				417	10.10445	0.4833779	1.3784	1.51404	8.00977	3.71481
10:19:51				418	10.10445	0.4833779	1.4768	1.4652	8.15629	3.7148
10:19:51				419	10.10541	0.4833779	1.3784	1.4652	8.25397	3.71471
10:19:52				420	10.10445	0.4833779	1.3784	1.4652	8.25397	3.71481
10:19:52				421	10.10541	0.4833779	1.3784	1.4652	8.15629	3.71471
10:19:53				422	10.10348	0.4833779	1.4768	1.4652	7.86325	3.7149
10:19:53				423	10.10445	0.4833779	1.3784	1.4652	8.15629	3.71481
10:19:54				424	10.10637	0.4833778	1.2801	1.51404	8.35165	3.71461
10:19:54				425	10.10445	0.4835372	1.2801	1.51404	8.20513	3.71612
10:19:55				426	10.10348	0.4832169	1.3784	1.4652	7.86325	3.71358
10:19:55				427	10.10348	0.4833779	1.3784	1.4652	8.15629	3.7149
10:19:56				428	10.10252	0.4841779	1.2801	1.51404	8.25397	3.72157
10:19:56				429	10.10348	0.484339	1.1817	1.41636	8.05861	3.72279
10:19:57				430	10.10155	0.4846594	1.2801	1.4652	8.00977	3.72561
10:19:57				431	10.10059	0.4848205	1.2801	1.4652	8.15629	3.72703
10:19:58				432	10.10252	0.4848205	1.2801	1.41636	8.30281	3.72683
10:19:58				433	10.10637	0.4848205	1.0833	1.4652	8.10745	3.72645
10:19:59				434	10.10541	0.4848205	1.0833	1.51404	8.15629	3.72655
10:19:59				435	10.10155	0.4848205	1.1817	1.4652	7.96093	3.72694
10:20:00				436	10.10059	0.4846594	1.1817	1.4652	8.25397	3.72572
10:20:00				437	10.09866	0.4846594	1.0833	1.4652	8.25397	3.72592
10:20:01				438	10.09866	0.4845	1.0833	1.4652	7.91209	3.72461
10:20:01				439	10.10926	0.4838575	1.1817	1.41636	8.05861	3.71826
10:20:02				440	10.11119	0.4838575	1.1817	1.4652	8.25397	3.71806

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:02				441	10.11119	0.4828966	1.0833	1.4652	8.30281	3.71019
10:20:03				442	10.11119	0.4814539	1.0833	1.4652	8.20513	3.69837
10:20:03				443	10.09282	0.4814539	1.0833	1.4652	8.15629	3.70024
10:20:04				444	10.07258	0.4808126	1.0833	1.51404	8.79121	3.69703
10:20:04				445	10.06776	0.4811324	0.9849	1.51404	8.40049	3.70015
10:20:05				446	10.06487	0.4801714	1.0833	1.4652	8.20513	3.69256
10:20:05				447	10.05715	0.4801714	1.0833	1.4652	8.40049	3.69334
10:20:06				448	10.04847	0.4798501	1.0833	1.4652	8.35165	3.69159
10:20:06				449	10.04269	0.4785687	0.9849	1.41636	8.74237	3.68166
10:20:07				450	10.03298	0.4782477	1.0833	1.4652	8.54701	3.68001
10:20:07				451	10.02044	0.4777663	1.0833	1.4652	9.76801	3.67732
10:20:08				452	10.01465	0.4776059	1.0833	1.4652	8.98657	3.67659
10:20:08				453	10.01465	0.4776059	1.0833	1.4652	8.44933	3.67659
10:20:09				454	10.01369	0.4776059	1.1817	1.4652	8.49817	3.67668
10:20:09				455	10.01079	0.4774455	1.1817	1.4652	8.74237	3.67566
10:20:10				456	10.01079	0.4772867	1.1817	1.51404	8.79121	3.67436
10:20:10				457	10.01079	0.4774455	1.2801	1.51404	9.13309	3.67565
10:20:11				458	10.00983	0.4774455	1.2801	1.51404	8.79121	3.67575
10:20:11				459	10.00983	0.4774455	1.2801	1.4652	8.98657	3.67575
10:20:12				460	10.01176	0.4777664	1.2801	1.51404	8.79121	3.67819
10:20:12				461	10.01079	0.4777664	1.3784	1.4652	8.54701	3.67828
10:20:13				462	10.01272	0.4785688	1.3784	1.4652	8.44933	3.68468
10:20:13				463	10.01851	0.47937	1.1817	1.4652	8.84005	3.69068
10:20:14				464	10.0243	0.4784083	1.0833	1.4652	8.79121	3.6822
10:20:14				465	10.02044	0.4784083	1.4768	1.4652	8.69353	3.68257
10:20:15				466	10.02044	0.4772867	1.4768	1.4652	12.16117	3.67337
10:20:15				467	10.02044	0.4721562	1.1817	1.4652	18.4127	3.63129
10:20:16				468	10.01948	0.4784083	0.9849	1.51404	33.16239	3.6827
10:20:16				469	10.01755	0.4774455	1.3784	1.4652	33.11355	3.67497
10:20:17				470	10.01658	0.4780873	1.5752	6.44689	38.43712	3.68032
10:20:17				471	10.01851	0.4776059	1.4768	1.51404	9.47497	3.67618
10:20:18				472	10.01755	0.4780873	1.2801	1.4652	23.00366	3.68024
10:20:18				473	10.01755	0.4782478	1.1817	1.51404	15.67766	3.68156
10:20:19				474	10.01658	0.4782478	1.3784	1.51404	9.86569	3.68165
10:20:19				475	10.01562	0.4782478	1.4768	1.4652	8.69353	3.68174
10:20:20				476	10.01658	0.4782478	1.3784	1.51404	8.64469	3.68165
10:20:20				477	10.01755	0.4784083	1.1817	1.4652	8.54701	3.68288
10:20:21				478	10.01851	0.4790488	1.0833	1.4652	9.08425	3.68805
10:20:21				479	10.01948	0.4787293	1.1817	1.4652	8.59585	3.68532
10:20:22				480	10.01755	0.4780873	1.1817	1.4652	8.74237	3.68025
10:20:22				481	10.01369	0.4771263	1.0833	1.41636	8.74237	3.67275
10:20:23				482	10.00983	0.4769659	0.9849	1.4652	8.69353	3.67183
10:20:23				483	10.01369	0.4774455	0.8865	1.4652	8.69353	3.67538
10:20:24				484	10.01948	0.4779268	0.7881	1.41636	8.79121	3.67876
10:20:25				487	10.01785	0.4785819	0.7881	1.4652	16.55678	3.6843

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:26				488	10.01881	0.4787424	0.8865	1.4652	9.67033	3.68551
10:20:26				489	10.01881	0.478903	0.9849	1.4652	8.98657	3.68682
10:20:27				490	10.01688	0.4790635	0.9849	1.4652	10.20757	3.68834
10:20:27				491	10.01399	0.4790635	0.9849	1.51404	9.52381	3.68863
10:20:28				492	10.01785	0.4801846	1.0833	1.51404	8.74237	3.69744
10:20:28				493	10.02653	0.4803453	1.1817	1.4652	8.64469	3.69787
10:20:29				494	10.03232	0.480506	1.1817	1.4652	8.54701	3.6986
10:20:29				495	10.03811	0.4808257	1.0833	1.51404	8.49817	3.70064
10:20:30				496	10.04196	0.4805059	1.1817	1.4652	8.59585	3.69762
10:20:30				497	10.04685	0.4803452	1.2801	1.4652	8.54701	3.6958
10:20:31				498	10.04492	0.4803453	1.3784	1.51404	8.35165	3.69599
10:20:31				499	10.04588	0.4803452	1.2801	1.4652	8.40049	3.6959
10:20:32				500	10.04293	0.4803452	1.2801	1.4652	8.30281	3.6962
10:20:32				501	10.04389	0.4803452	1.2801	1.4652	8.59585	3.6961
10:20:33				502	10.04293	0.4803452	1.1817	1.4652	8.40049	3.69621
10:20:33				503	10.04389	0.4803452	1.1817	1.4652	8.59585	3.69611
10:20:34				504	10.04293	0.4801846	1.1817	1.4652	8.44933	3.69489
10:20:34				505	10.041	0.4800255	1.1817	1.4652	8.59585	3.69378
10:20:35				506	10.03907	0.4801846	1.1817	1.4652	8.59585	3.69528
10:20:35				507	10.03811	0.4801846	1.1817	1.4652	8.69353	3.69538
10:20:36				508	10.03907	0.4795436	1.2801	1.4652	8.69353	3.69001
10:20:36				509	10.03618	0.479383	1.2801	1.4652	8.74237	3.68899
10:20:37				510	10.03135	0.479383	1.2801	1.4652	8.30281	3.68948
10:20:37				511	10.02942	0.4793831	1.2801	1.4652	8.64469	3.68967
10:20:38				512	10.02749	0.4787424	1.1817	1.4652	8.44933	3.68462
10:20:38				513	10.02846	0.479383	1.1817	1.4652	9.18193	3.68978
10:20:39				514	10.02942	0.4795437	1.1817	1.4652	9.08425	3.691
10:20:39				515	10.03232	0.4801846	1.0833	1.4652	9.86569	3.69597
10:20:40				516	10.03618	0.4801846	1.0833	1.4652	8.64469	3.69558
10:20:40				517	10.03907	0.4803452	1.0833	1.4652	8.79121	3.6966
10:20:41				518	10.04196	0.4801846	1.1817	1.4652	8.35165	3.69498
10:20:41				519	10.041	0.4800255	1.2801	1.4652	8.59585	3.69377
10:20:42				520	10.03907	0.4801846	1.2801	1.4652	8.59585	3.69527
10:20:42				521	10.04003	0.4803453	1.3784	1.4652	8.84005	3.69649
10:20:43				522	10.04389	0.4801846	1.3784	1.4652	8.35165	3.69478
10:20:43				523	10.04293	0.4801846	1.3784	1.51404	8.49817	3.69488
10:20:44				524	10.04196	0.4801846	1.1817	1.51404	8.64469	3.69498
10:20:44				525	10.04196	0.4800255	1.1817	1.4652	8.74237	3.69368
10:20:45				526	10.041	0.4800255	1.1817	1.51404	8.54701	3.69378
10:20:45				527	10.03811	0.4800255	1.1817	1.4652	8.54701	3.69407
10:20:46				528	10.03907	0.4800255	1.1817	1.4652	8.44933	3.69397
10:20:46				529	10.03907	0.4798649	1.1817	1.51404	8.64469	3.69266
10:20:47				530	10.03907	0.4795436	1.1817	1.51404	8.49817	3.69002
10:20:47				531	10.03618	0.4797043	1.2801	1.4652	8.59585	3.69162
10:20:48				532	10.03618	0.4795436	1.2801	1.51404	8.64469	3.69031

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:20:48				533	10.02942	0.479383	1.1817	1.51404	8.93773	3.68968
10:20:49				534	10.02749	0.479383	1.1817	1.4652	9.62149	3.68987
10:20:49				535	10.02749	0.4795437	1.1817	1.51404	9.71917	3.69119
10:20:50				536	10.02749	0.4795437	1.1817	1.51404	14.65201	3.69119
10:20:50				537	10.02749	0.4797043	1.1817	1.4652	9.03541	3.69251
10:20:51				538	10.02749	0.4797043	1.0833	1.51404	9.13309	3.69252
10:20:51				539	10.02749	0.4797043	1.1817	1.51404	8.54701	3.69251
10:20:52				540	10.02846	0.4797043	1.1817	1.4652	8.69353	3.69241
10:20:52				541	10.03039	0.4797043	1.1817	1.51404	8.93773	3.69222
10:20:53				542	10.02942	0.4797043	1.1817	1.51404	9.32845	3.69232
10:20:53				543	10.02846	0.4797043	1.1817	1.4652	8.49817	3.69241
10:20:54				544	10.02846	0.4797043	1.2801	1.51404	8.54701	3.69241
10:20:54				545	10.02942	0.4800256	1.2801	1.51404	8.59585	3.69495
10:20:55				546	10.03135	0.4798649	1.2801	1.4652	8.59585	3.69343
10:20:55				547	10.03039	0.4800256	1.2801	1.51404	8.49817	3.69485
10:20:56				548	10.03328	0.4801846	1.2801	1.51404	8.54701	3.69586
10:20:56				549	10.03425	0.4800256	1.3784	1.4652	8.64469	3.69445
10:20:57				550	10.03328	0.4801846	1.3784	1.51404	8.79121	3.69586
10:20:57				551	10.03425	0.4803453	1.2801	1.51404	8.44933	3.69708
10:20:58				552	10.03328	0.480506	1.3784	1.4652	8.30281	3.69849
10:20:58				553	10.03425	0.480506	1.3784	1.51404	8.35165	3.6984
10:20:59				554	10.03618	0.4808258	1.3784	1.51404	8.49817	3.70082
10:20:59				555	10.03907	0.4806667	1.4768	1.4652	8.44933	3.69922
10:21:00				556	10.04685	0.4808257	1.4768	1.51404	8.30281	3.69973
10:21:00				557	10.04685	0.4806667	1.4768	1.51404	8.25397	3.69843
10:21:01				558	10.04492	0.4803453	1.4768	1.4652	8.54701	3.69599
10:21:01				559	10.04685	0.4803453	1.4768	1.51404	8.30281	3.69579
10:21:02				560	10.04781	0.4805059	1.4768	1.51404	8.40049	3.69701
10:21:02				561	10.04781	0.481308	1.4768	1.4652	8.59585	3.70359
10:21:03				562	10.0507	0.4808257	1.6736	1.4652	8.30281	3.69933
10:21:03				563	10.04974	0.4808258	1.8703	1.51404	8.79121	3.69942
10:21:04				564	10.04974	0.4809865	1.8703	1.4652	8.40049	3.70074
10:21:04				565	10.0507	0.4803453	2.0671	1.51404	8.40049	3.69537
10:21:05				566	10.04877	0.4803453	2.2639	1.51404	8.74237	3.69555
10:21:05				567	10.04588	0.4803453	2.4606	1.4652	9.03541	3.69583
10:21:06				568	10.04685	0.480506	2.6574	1.51404	8.54701	3.69704
10:21:06				569	10.04588	0.480506	2.6574	1.51404	8.30281	3.69714
10:21:07				570	10.04588	0.480506	2.7558	1.4652	8.25397	3.69713
10:21:07				571	10.04685	0.4806667	2.8542	1.51404	8.59585	3.69835
10:21:08				572	10.04588	0.480506	2.9526	1.51404	8.64469	3.69712
10:21:08				573	10.04588	0.480506	2.9526	1.4652	8.30281	3.69712
10:21:09				574	10.04685	0.480506	2.8542	1.51404	8.44933	3.69703
10:21:09				575	10.04588	0.480506	2.8542	1.51404	8.49817	3.69713
10:21:10				576	10.04685	0.480506	2.8542	1.4652	8.05861	3.69703
10:21:10				577	10.04492	0.480506	2.8542	1.51404	8.88889	3.69723

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:11				578	10.04588	0.4803453	2.9526	1.51404	9.13309	3.6958
10:21:11				579	10.04492	0.480506	2.9526	1.4652	8.74237	3.69722
10:21:12				580	10.04685	0.480506	2.8542	1.51404	8.40049	3.69703
10:21:12				581	10.04781	0.4806667	2.7558	1.51404	8.54701	3.69826
10:21:13				582	10.04781	0.4803453	2.8542	1.4652	8.59585	3.69561
10:21:13				583	10.04781	0.4806667	3.0509	1.51404	8.64469	3.69824
10:21:14				584	10.04877	0.4806667	2.9526	1.51404	8.49817	3.69815
10:21:14	10:19:50 start transect	10	90	585	10.04685	0.4803453	2.7558	1.4652	8.49817	3.69572
10:21:15				586	10.04588	0.4801846	2.7558	1.51404	8.40049	3.6945
10:21:15				587	10.04492	0.4803453	2.8542	1.4652	8.10745	3.69591
10:21:16				588	10.04492	0.480506	2.9526	1.4652	8.44933	3.69722
10:21:16				589	10.04492	0.480506	2.8542	1.4652	8.35165	3.69723
10:21:17				590	10.04492	0.4803453	2.7558	1.51404	8.44933	3.69591
10:21:17				591	10.04588	0.4806667	2.9526	1.4652	8.44933	3.69844
10:21:18				592	10.04685	0.480506	2.9526	1.4652	8.49817	3.69703
10:21:18				593	10.04877	0.480506	2.9526	1.4652	8.49817	3.69683
10:21:19				594	10.04781	0.4803453	2.8542	1.4652	8.59585	3.69561
10:21:19				595	10.04877	0.480506	2.7558	1.4652	8.59585	3.69684
10:21:20				596	10.04781	0.480506	2.8542	1.4652	8.35165	3.69693
10:21:20				597	10.04781	0.480506	2.8542	1.4652	8.44933	3.69693
10:21:21				598	10.04685	0.480506	2.8542	1.4652	8.64469	3.69703
10:21:21				599	10.04877	0.480506	2.6574	1.51404	8.40049	3.69685
10:21:22				600	10.04588	0.480506	2.7558	1.4652	8.44933	3.69713
10:21:22				601	10.04588	0.4806667	2.8542	1.4652	8.44933	3.69845
10:21:23				602	10.04781	0.4806667	2.8542	1.4652	8.44933	3.69825
10:21:23				603	10.04781	0.4806667	2.7558	1.4652	8.40049	3.69826
10:21:24				604	10.04974	0.4808258	2.7558	1.4652	8.49817	3.69937
10:21:25				607	10.05733	0.4814655	2.7558	1.51404	8.35165	3.70384
10:21:26				608	10.05637	0.4814655	2.7558	1.4652	8.44933	3.70394
10:21:26				609	10.05733	0.4822664	2.6574	1.4652	8.40049	3.71042
10:21:27				610	10.06215	0.4822664	2.6574	1.4652	8.69353	3.70993
10:21:27				611	10.06023	0.4841912	2.7558	1.4652	8.40049	3.72591
10:21:28				612	10.06601	0.4857941	2.7558	1.51404	8.25397	3.73848
10:21:28				613	10.0718	0.4886796	2.8542	1.4652	8.20513	3.76156
10:21:29				614	10.07469	0.4886796	2.8542	1.4652	8.30281	3.76127
10:21:29				615	10.07469	0.4851527	2.8542	1.51404	8.49817	3.73232
10:21:30				616	10.05444	0.4830692	2.8542	1.51404	8.44933	3.71729
10:21:30				617	10.05058	0.4825882	2.8542	1.4652	8.49817	3.71374
10:21:31				618	10.0448	0.4821072	2.8542	1.51404	8.59585	3.71038
10:21:31				619	10.04184	0.4819464	2.9526	1.51404	8.59585	3.70936
10:21:32				620	10.04088	0.4814656	2.8542	1.4652	8.54701	3.70551
10:21:32				621	10.03991	0.4811457	2.8542	1.51404	8.40049	3.70298
10:21:33				622	10.03895	0.4809849	2.8542	1.51404	8.59585	3.70176
10:21:33				623	10.03895	0.4811457	2.8542	1.51404	8.49817	3.70308
10:21:34				624	10.03895	0.4814656	2.9526	1.51404	8.54701	3.7057

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:34				625	10.03991	0.4811457	2.8542	1.4652	8.40049	3.70298
10:21:35				626	10.04088	0.4811457	2.8542	1.51404	8.25397	3.70289
10:21:35				627	10.03991	0.4808242	2.8542	1.4652	8.44933	3.70035
10:21:36				628	10.03509	0.4806635	2.8542	1.4652	8.35165	3.69952
10:21:36				629	10.03413	0.4806635	2.8542	1.4652	8.40049	3.69962
10:21:37				630	10.03606	0.4805044	2.8542	1.4652	8.74237	3.69811
10:21:37				631	10.03509	0.4803437	2.8542	1.4652	8.64469	3.69689
10:21:38				632	10.0322	0.4803437	2.8542	1.4652	8.64469	3.69719
10:21:38				633	10.03509	0.4808242	2.8542	1.51404	8.44933	3.70084
10:21:39				634	10.03991	0.4857941	2.8542	1.4652	8.54701	3.74115
10:21:39				635	10.06698	0.4859536	2.8542	1.4652	9.03541	3.73968
10:21:40				636	10.093	0.4849916	2.8542	1.51404	8.49817	3.72912
10:21:40				637	10.093	0.4840301	2.8542	1.4652	8.44933	3.72124
10:21:41				638	10.08433	0.4814655	2.7558	1.51404	7.96093	3.7011
10:21:41				639	10.06023	0.4809849	2.7558	1.51404	8.40049	3.69961
10:21:42				640	10.04962	0.480183	2.7558	1.4652	8.54701	3.6941
10:21:42				641	10.03895	0.4798633	2.7558	1.51404	8.49817	3.69256
10:21:43				642	10.03509	0.4797027	2.7558	1.51404	8.40049	3.69164
10:21:43				643	10.03316	0.4795421	2.7558	1.4652	8.74237	3.69052
10:21:44				644	10.03413	0.4830693	2.7558	1.51404	8.64469	3.71937
10:21:44				645	10.07951	0.4843506	2.8542	1.51404	8.54701	3.72524
10:21:45				646	10.0824	0.4837098	2.8542	1.4652	8.25397	3.71969
10:21:45				647	10.08722	0.4851527	2.6574	1.51404	8.35165	3.73105
10:21:46				648	10.10655	0.4803436	2.559	1.51404	8.59585	3.68966
10:21:46				649	10.08336	0.4880388	2.6574	1.4652	8.54701	3.75512
10:21:47				650	10.10077	0.4854733	2.7558	1.4652	8.25397	3.73228
10:21:47				651	10.07083	0.4819463	2.7558	1.4652	8.10745	3.70641
10:21:48				652	10.04383	0.4795421	2.559	1.4652	8.15629	3.68944
10:21:48				653	10.03316	0.4795421	2.559	1.4652	8.59585	3.69053
10:21:49				654	10.0322	0.4798633	2.6574	1.4652	8.54701	3.69326
10:21:49				655	10.03509	0.4800223	2.7558	1.4652	8.49817	3.69426
10:21:50				656	10.03413	0.4798633	2.7558	1.4652	8.59585	3.69305
10:21:50				657	10.03606	0.4800223	2.7558	1.4652	8.74237	3.69416
10:21:51				658	10.03991	0.4803437	2.7558	1.4652	8.40049	3.69641
10:21:51				659	10.04962	0.4835488	2.7558	1.51404	8.59585	3.72173
10:21:52				660	10.08626	0.4893205	2.7558	1.4652	8.30281	3.76534
10:21:52				661	10.10944	0.4851527	2.8542	1.4652	8.35165	3.72876
10:21:53				662	10.09493	0.4886796	2.9526	1.4652	8.10745	3.75917
10:21:53				663	10.11137	0.4906031	2.7558	1.4652	8.20513	3.77326
10:21:54				664	10.11619	0.4954119	2.8542	1.51404	8.79121	3.81222
10:21:54				665	10.12197	0.4942894	2.9526	1.51404	8.44933	3.8024
10:21:55				666	10.12101	0.4912447	2.8542	1.4652	8.25397	3.77752
10:21:55				667	10.12004	0.4873967	2.8542	1.51404	8.10745	3.74607
10:21:56				668	10.12004	0.4864355	2.7558	1.4652	7.91209	3.73819
10:21:56				669	10.11715	0.4888393	2.8542	1.4652	8.15629	3.75819

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:21:57				670	10.10944	0.4870757	2.8542	1.4652	8.15629	3.74452
10:21:57				671	10.11233	0.4856328	2.9526	1.4652	8.10745	3.73239
10:21:58				672	10.10174	0.4854733	2.7558	1.4652	8.05861	3.73218
10:21:58				673	10.09878	0.4901216	2.7558	1.4652	8.35165	3.77062
10:21:59				674	10.10174	0.4891606	2.8542	1.41636	8.59585	3.76242
10:21:59	10:20:35 @ 6:00	10	180	675	10.10174	0.4861148	2.8542	1.4652	8.20513	3.73744
10:22:00				676	10.09878	0.485794	2.8542	1.4652	8.05861	3.73511
10:22:00				677	10.09782	0.485794	2.7558	1.41636	8.35165	3.73521
10:22:01				678	10.09878	0.4856328	2.7558	1.4652	8.30281	3.73379
10:22:01				679	10.09981	0.487237	2.7558	1.4652	8.59585	3.74684
10:22:02				680	10.10174	0.4861148	2.8542	1.4652	8.05861	3.73744
10:22:02				681	10.09981	0.4861148	2.8542	1.51404	8.05861	3.73763
10:22:03				682	10.09981	0.4862743	2.7558	1.51404	7.91209	3.73895
10:22:03				683	10.09397	0.4870757	2.7558	1.4652	8.59585	3.74612
10:22:04				684	10.09107	0.4851527	2.8542	1.51404	8.20513	3.73064
10:22:04				685	10.08915	0.4843506	2.8542	1.51404	8.15629	3.72426
10:22:05				686	10.08818	0.484671	2.8542	1.4652	7.96093	3.72698
10:22:05				687	10.08818	0.484671	2.7558	1.51404	8.20513	3.72699
10:22:06				688	10.08818	0.4878775	2.7558	1.4652	7.96093	3.7533
10:22:06				689	10.08915	0.4880388	2.8542	1.4652	8.93773	3.75451
10:22:07				690	10.09107	0.4870757	2.9526	1.4652	8.00977	3.74641
10:22:07				691	10.08818	0.4859536	2.8542	1.4652	8.05861	3.7375
10:22:08				692	10.08722	0.4848321	2.7558	1.4652	8.30281	3.72841
10:22:08				693	10.08722	0.4862744	2.8542	1.4652	8.64469	3.74024
10:22:09				694	10.08433	0.4861148	2.8542	1.4652	8.30281	3.73922
10:22:09				695	10.0824	0.487237	2.8542	1.4652	8.00977	3.74863
10:22:10				696	10.07758	0.4829083	2.7558	1.4652	7.81441	3.71362
10:22:10				697	10.06987	0.4848322	2.8542	1.4652	8.30281	3.73018
10:22:11				698	10.0689	0.4838708	2.8542	1.51404	8.30281	3.72239
10:22:11				699	10.06794	0.4835488	2.7558	1.51404	8.20513	3.71985
10:22:12				700	10.06601	0.4827474	2.7558	1.51404	8.25397	3.71348
10:22:12				701	10.06408	0.4824272	2.8542	1.51404	8.49817	3.71104
10:22:13				702	10.06215	0.4822664	2.8542	1.4652	8.30281	3.70992
10:22:13				703	10.06119	0.4811456	2.7558	1.4652	8.15629	3.70083
10:22:14				704	10.05733	0.4819463	2.7558	1.4652	8.40049	3.70779
10:22:14				705	10.05926	0.4819463	2.8542	1.4652	8.35165	3.70759
10:22:15				706	10.06023	0.4814655	2.8542	1.4652	8.05861	3.70354
10:22:15				707	10.06119	0.4813048	2.8542	1.4652	8.30281	3.70213
10:22:16				708	10.06023	0.4821072	2.7558	1.4652	8.30281	3.70881
10:22:16				709	10.06601	0.4817855	2.8542	1.4652	8.54701	3.70558
10:22:17				710	10.0689	0.4824272	2.8542	1.51404	8.20513	3.71055
10:22:17				711	10.07083	0.4819463	2.8542	1.4652	8.20513	3.70641
10:22:18				712	10.07083	0.4816263	2.8542	1.51404	8.74237	3.70378
10:22:18				713	10.0689	0.4819463	2.9526	1.51404	8.93773	3.7066
10:22:19				714	10.06794	0.4816263	2.8542	1.4652	8.25397	3.70408

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:19				715	10.06601	0.4809849	2.7558	1.51404	8.49817	3.69902
10:22:20				716	10.06408	0.4809849	2.8542	1.51404	8.44933	3.69921
10:22:20				717	10.06119	0.4809849	3.0509	1.4652	8.59585	3.69949
10:22:21				718	10.0583	0.4809849	2.9526	1.51404	8.25397	3.69979
10:22:21				719	10.06023	0.4811456	2.6574	1.4652	8.30281	3.70093
10:22:22				720	10.06215	0.4808241	2.6574	1.4652	8.49817	3.6981
10:22:22				721	10.0583	0.4808241	2.9526	1.4652	8.88889	3.69847
10:22:23				722	10.05733	0.4808242	2.9526	1.4652	8.25397	3.69857
10:22:23				723	10.05444	0.4808241	2.7558	1.4652	8.35165	3.69888
10:22:24				724	10.05637	0.4808241	2.7558	1.4652	8.40049	3.69868
10:22:25				727	10.07029	0.4822746	2.8542	1.51404	8.44933	3.70916
10:22:26				728	10.07607	0.4822746	2.8542	1.51404	8.05861	3.70857
10:22:26				729	10.078	0.4827556	2.8542	1.51404	8.25397	3.71231
10:22:27				730	10.078	0.4825947	2.8542	1.51404	8.20513	3.711
10:22:27				731	10.078	0.4827556	2.8542	1.51404	8.30281	3.71231
10:22:28				732	10.078	0.483396	2.7558	1.51404	8.10745	3.71757
10:22:28				733	10.08089	0.483557	2.9526	1.4652	8.44933	3.71859
10:22:29				734	10.08089	0.4832367	3.0509	1.4652	8.15629	3.71595
10:22:29				735	10.08186	0.4829165	2.8542	1.4652	8.00977	3.71324
10:22:30				736	10.08186	0.4827556	2.6574	1.41636	8.05861	3.71193
10:22:30				737	10.08282	0.4822746	2.7558	1.4652	8.40049	3.70788
10:22:31				738	10.08089	0.4829165	2.9526	1.51404	8.35165	3.71333
10:22:31				739	10.08571	0.4830758	2.9526	1.4652	8.05861	3.71415
10:22:32				740	10.0886	0.4832367	2.7558	1.51404	8.10745	3.71518
10:22:32				741	10.0886	0.483396	2.6574	1.51404	7.96093	3.7165
10:22:33				742	10.08957	0.4832367	2.8542	1.4652	8.40049	3.71508
10:22:33				743	10.08957	0.483396	2.9526	1.51404	8.30281	3.71638
10:22:34				744	10.0915	0.483396	2.8542	1.51404	7.96093	3.71619
10:22:34				745	10.09246	0.483718	2.7558	1.4652	7.86325	3.71874
10:22:35				746	10.09342	0.483396	2.8542	1.4652	8.05861	3.71599
10:22:35				747	10.09439	0.483557	3.0509	1.41636	8.00977	3.7172
10:22:36				748	10.09439	0.483396	2.8542	1.4652	7.96093	3.7159
10:22:36				749	10.09342	0.483396	2.6574	1.4652	7.91209	3.71601
10:22:37				750	10.09053	0.483396	2.8542	1.4652	8.20513	3.71629
10:22:37				751	10.08475	0.483396	3.0509	1.4652	8.40049	3.71687
10:22:38				752	10.08379	0.483396	2.9526	1.4652	8.15629	3.71697
10:22:38				753	10.08475	0.483396	2.7558	1.4652	8.10745	3.71688
10:22:39				754	10.08571	0.483396	2.8542	1.51404	8.15629	3.71678
10:22:39				755	10.08089	0.483396	2.8542	1.51404	8.35165	3.71727
10:22:40				756	10.08186	0.483396	2.8542	1.51404	8.30281	3.71717
10:22:40				757	10.08282	0.483396	2.9526	1.51404	8.35165	3.71707
10:22:41				758	10.08282	0.4832367	2.9526	1.4652	7.86325	3.71576
10:22:41				759	10.08282	0.483396	2.8542	1.4652	7.81441	3.71708
10:22:42				760	10.08282	0.483396	2.7558	1.4652	7.96093	3.71708
10:22:42				761	10.08089	0.483396	2.8542	1.41636	8.20513	3.71727

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:22:43				762	10.08089	0.483396	3.0509	1.4652	8.20513	3.71726
10:22:43				763	10.08089	0.483396	2.9526	1.51404	8.15629	3.71727
10:22:44				764	10.08089	0.483396	2.8542	1.4652	8.15629	3.71727
10:22:44				765	10.08089	0.483396	2.7558	1.51404	8.00977	3.71728
10:22:45				766	10.08282	0.483396	2.7558	1.4652	8.74237	3.71708
10:22:45				767	10.08186	0.483557	2.8542	1.4652	7.91209	3.71849
10:22:46				768	10.08475	0.483718	2.8542	1.51404	8.10745	3.71952
10:22:46				769	10.08475	0.4838773	2.559	1.51404	7.96093	3.72084
10:22:47				770	10.0886	0.4841977	2.559	1.51404	8.05861	3.72308
10:22:47				771	10.0915	0.4840383	3.0509	1.51404	8.40049	3.72145
10:22:48				772	10.09246	0.4840383	3.0509	1.4652	8.30281	3.72135
10:22:48				773	10.09535	0.4838773	2.6574	1.4652	8.05861	3.71975
10:22:49				774	10.09342	0.4841977	2.559	1.4652	7.96093	3.72258
10:22:49				775	10.09535	0.4840383	2.8542	1.4652	8.35165	3.72106
10:22:50				776	10.09631	0.4841977	3.0509	1.4652	8.20513	3.72226
10:22:50				777	10.09631	0.4838773	2.9526	1.4652	8.05861	3.71964
10:22:51				778	10.09631	0.4838773	2.6574	1.4652	8.00977	3.71966
10:22:51				779	10.09535	0.4840383	2.6574	1.4652	7.91209	3.72107
10:22:52				780	10.09535	0.4838773	2.8542	1.51404	8.15629	3.71974
10:22:52				781	10.09535	0.4840383	2.9526	1.4652	8.00977	3.72106
10:22:53				782	10.09535	0.4838773	2.8542	1.4652	8.20513	3.71974
10:22:53	10:21:29 end transect	10	270	783	10.09246	0.4838773	2.7558	1.4652	8.00977	3.72004
10:22:54	reposition to 90			784	10.0886	0.4838773	2.8542	1.4652	8.40049	3.72043
10:22:54				785	10.08571	0.4838773	2.9526	1.4652	8.44933	3.72072
10:22:55				786	10.08668	0.4838773	2.9526	1.41636	8.25397	3.72062
10:22:55				787	10.08764	0.483718	2.8542	1.4652	8.25397	3.71922
10:22:56				788	10.08668	0.483718	2.7558	1.51404	8.15629	3.71933
10:22:56				789	10.0886	0.483718	2.8542	1.4652	8.10745	3.71913
10:22:57				790	10.0886	0.4838773	2.8542	1.51404	7.96093	3.72043
10:22:57				791	10.08957	0.4832367	2.8542	1.51404	7.86325	3.71508
10:22:58				792	10.08764	0.483718	2.9526	1.51404	8.00977	3.71922
10:22:58				793	10.08571	0.483718	2.9526	1.4652	8.25397	3.71942
10:22:59				794	10.08668	0.483718	2.8542	1.4652	8.35165	3.71932
10:22:59				795	10.08668	0.483718	2.8542	1.4652	8.40049	3.71932
10:23:00				796	10.0886	0.483718	2.9526	1.4652	8.25397	3.71912
10:23:00				797	10.08764	0.483718	3.0509	1.41636	8.20513	3.71921
10:23:01				798	10.0886	0.483718	2.8542	1.4652	8.10745	3.71913
10:23:01				799	10.0886	0.483718	2.7558	1.51404	8.20513	3.71913
10:23:02				800	10.08764	0.483718	2.8542	1.4652	8.30281	3.71922
10:23:02				801	10.08957	0.483718	2.8542	1.51404	8.20513	3.71903
10:23:03				802	10.08668	0.4838773	2.8542	1.51404	8.10745	3.72063
10:23:03				803	10.08571	0.483718	2.7558	1.4652	8.15629	3.71943
10:23:04				804	10.08475	0.483557	2.7558	1.4652	8.15629	3.7182
10:23:04				805	10.08282	0.4829165	2.7558	1.4652	8.15629	3.71315
10:23:05				806	10.07704	0.483718	2.9526	1.4652	8.40049	3.7203

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:23:05				807	10.07704	0.4832367	3.0509	1.4652	8.30281	3.71635
10:23:06				808	10.078	0.4830758	2.8542	1.41636	8.20513	3.71494
10:23:06				809	10.078	0.4830758	2.559	1.4652	8.20513	3.71496
10:23:07				810	10.07993	0.4829165	2.8542	1.4652	8.35165	3.71344
10:23:07				811	10.07993	0.4832367	3.1493	1.4652	8.49817	3.71605
10:23:08				812	10.07993	0.4829165	2.9526	1.51404	8.15629	3.71343
10:23:08				813	10.07897	0.4829165	2.559	1.51404	8.25397	3.71355
10:23:09				814	10.078	0.4829165	2.6574	1.4652	8.15629	3.71365
10:23:09				815	10.07993	0.4829165	2.9526	1.4652	8.69353	3.71343
10:23:10				816	10.07897	0.4827556	2.9526	1.4652	8.15629	3.71221
10:23:10				817	10.07704	0.4824354	2.6574	1.4652	8.10745	3.7098
10:23:11				818	10.07704	0.483396	2.6574	1.4652	8.35165	3.71768
10:23:11				819	10.07704	0.4829165	2.8542	1.4652	8.44933	3.71373
10:23:12				820	10.07704	0.4827556	2.7558	1.4652	8.10745	3.71242
10:23:12				821	10.07607	0.4825947	2.6574	1.4652	8.10745	3.7112
10:23:13				822	10.07607	0.4824354	2.7558	1.4652	8.54701	3.70989
10:23:13				823	10.07511	0.4822746	2.7558	1.51404	8.40049	3.70867
10:23:14				824	10.07415	0.4829165	2.6574	1.51404	8.64469	3.71404
10:23:14				825	10.07222	0.4824354	2.6574	1.51404	8.98657	3.71029
10:23:15				826	10.07222	0.4832367	2.6574	1.4652	8.35165	3.71686
10:23:15				827	10.07415	0.483557	2.559	1.4652	8.25397	3.7193
10:23:16				828	10.07511	0.483718	2.4606	1.4652	8.30281	3.72053
10:23:16				829	10.07415	0.483396	2.559	1.4652	8.74237	3.71798
10:23:17				830	10.06836	0.4832367	2.559	1.41636	8.30281	3.71726
10:23:17				831	10.06354	0.4822746	2.4606	1.4652	8.20513	3.70987
10:23:18				832	10.05776	0.4793896	2.3623	1.51404	8.20513	3.68679
10:23:18				833	10.04908	0.4800305	2.4606	1.4652	8.69353	3.69293
10:23:19				834	10.04709	0.4795502	2.4606	1.51404	8.44933	3.68919
10:23:19				835	10.0413	0.4790685	2.3623	1.51404	8.40049	3.68583
10:23:20				836	10.03648	0.4790685	2.2639	1.51404	8.40049	3.68632
10:23:20				837	10.03937	0.479229	2.2639	1.4652	8.40049	3.68735
10:23:21				838	10.0413	0.479229	2.2639	1.4652	8.49817	3.68715
10:23:21				839	10.03841	0.4793896	2.1655	1.4652	8.49817	3.68877
10:23:22				840	10.04034	0.4790685	2.1655	1.4652	8.93773	3.68594
10:23:22				841	10.03744	0.4785885	2.1655	1.4652	8.69353	3.68229
10:23:23				842	10.03455	0.4782674	2.1655	1.4652	8.54701	3.67995
10:23:23				843	10.02973	0.477786	2.0671	1.51404	8.64469	3.67649
10:23:24				844	10.0278	0.4776256	2.0671	1.51404	8.69353	3.67537
10:23:25				847	10.02508	0.4787523	1.9687	1.51404	8.64469	3.6849
10:23:26				848	10.02991	0.479234	2.0671	1.4652	8.69353	3.68836
10:23:26				849	10.03376	0.4789128	2.0671	1.41636	8.74237	3.68533
10:23:27				850	10.03087	0.4782724	2.0671	1.4652	8.79121	3.68037
10:23:27				851	10.02605	0.4781119	2.0671	1.51404	8.54701	3.67954
10:23:28				852	10.02701	0.4782724	2.0671	1.41636	8.79121	3.68076
10:23:28				853	10.02798	0.4784329	2.0671	1.4652	8.59585	3.68198

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:23:29				854	10.02798	0.4785917	2.0671	1.51404	8.54701	3.68328
10:23:29				855	10.02605	0.4785917	2.0671	1.4652	8.74237	3.68348
10:23:30				856	10.02798	0.4795535	1.9687	1.51404	8.59585	3.69118
10:23:30				857	10.03473	0.4798748	1.9687	1.51404	8.69353	3.69313
10:23:31				858	10.03376	0.4798748	1.9687	1.4652	8.59585	3.69323
10:23:31				859	10.03473	0.4803551	1.9687	1.4652	8.69353	3.69707
10:23:32				860	10.03955	0.4805158	1.9687	1.4652	8.59585	3.6979
10:23:32				861	10.03859	0.4805158	1.8703	1.4652	8.49817	3.69801
10:23:33				862	10.03762	0.4808373	1.9687	1.4652	8.54701	3.70074
10:23:33				863	10.04636	0.4853254	1.9687	1.4652	8.54701	3.73669
10:23:34				864	10.06083	0.4829214	1.9687	1.51404	8.54701	3.71548
10:23:34				865	10.05601	0.4821186	1.9687	1.51404	8.35165	3.70938
10:23:35				866	10.04926	0.4817986	1.9687	1.51404	8.59585	3.70744
10:23:35				867	10.04636	0.4829214	1.9687	1.51404	8.49817	3.71695
10:23:36				868	10.05215	0.4825996	1.9687	1.4652	8.74237	3.71372
10:23:36				869	10.05697	0.4832416	2.0671	1.4652	8.59585	3.71849
10:23:37				870	10.06179	0.4835619	2.1655	1.4652	8.40049	3.72062
10:23:37				871	10.06083	0.4825996	2.1655	1.4652	8.59585	3.71283
10:23:38				872	10.05601	0.4819594	2.2639	1.51404	8.49817	3.70806
10:23:38				873	10.05408	0.4835619	2.3623	1.51404	8.35165	3.7214
10:23:39				874	10.05504	0.483401	2.6574	1.4652	8.35165	3.71996
10:23:39				875	10.05311	0.4845232	2.7558	1.51404	8.30281	3.72937
10:23:40				876	10.05408	0.4862876	2.7558	1.51404	8.44933	3.74375
10:23:40				877	10.05504	0.4875696	2.7558	1.4652	8.30281	3.75418
10:23:41				878	10.05794	0.4859668	2.8542	1.4652	8.25397	3.74072
10:23:41				879	10.05697	0.4848437	2.7558	1.4652	8.40049	3.7316
10:23:42				880	10.05504	0.4838823	2.6574	1.4652	8.35165	3.72391
10:23:42				881	10.05504	0.4837229	2.559	1.51404	8.40049	3.72261
10:23:43				882	10.05311	0.4840433	2.6574	1.4652	8.30281	3.72543
10:23:43				883	10.05408	0.4824404	2.7558	1.51404	8.25397	3.71217
10:23:44				884	10.05215	0.4824404	2.559	1.51404	8.30281	3.71238
10:23:44				885	10.04926	0.4814787	2.559	1.51404	8.35165	3.70478
10:23:45				886	10.05022	0.4829215	2.7558	1.51404	8.54701	3.71652
10:23:45				887	10.04926	0.4829215	2.8542	1.4652	8.44933	3.71661
10:23:46				888	10.04733	0.4824404	2.7558	1.4652	8.30281	3.71286
10:23:46				889	10.04733	0.4816378	2.559	1.51404	8.44933	3.70629
10:23:47				890	10.0454	0.4825996	2.559	1.41636	8.64469	3.71438
10:23:47				891	10.0454	0.4845232	2.6574	1.51404	8.74237	3.73016
10:23:48				892	10.04926	0.4821187	2.7558	1.51404	8.40049	3.71002
10:23:48				893	10.04636	0.4814787	2.7558	1.4652	8.30281	3.70507
10:23:49				894	10.04052	0.4795535	2.6574	1.51404	8.74237	3.68987
10:23:49				895	10.03376	0.4827606	2.6574	1.51404	8.44933	3.71688
10:23:50				896	10.03666	0.4790734	2.7558	1.4652	8.54701	3.68631
10:23:50				897	10.03184	0.4790734	2.8542	1.4652	8.44933	3.6868
10:23:51				898	10.02798	0.4785918	2.7558	1.4652	8.69353	3.68324

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:23:51				899	10.02798	0.4784329	2.7558	1.4652	8.88889	3.68194
10:23:52				900	10.02798	0.4798748	2.7558	1.4652	8.59585	3.69377
10:23:52				901	10.02798	0.4800355	2.7558	1.4652	8.20513	3.69509
10:23:53				902	10.02991	0.4803552	2.7558	1.51404	8.54701	3.69752
10:23:53				903	10.03184	0.4803552	2.7558	1.51404	8.54701	3.69732
10:23:54				904	10.03666	0.4840433	2.6574	1.51404	8.54701	3.72712
10:23:54				905	10.04052	0.4819595	2.7558	1.51404	8.35165	3.70961
10:23:55				906	10.04829	0.4808373	2.8542	1.4652	8.44933	3.6996
10:23:55				907	10.04636	0.4808373	2.7558	1.4652	8.20513	3.6998
10:23:56				908	10.03955	0.4805159	2.7558	1.4652	8.49817	3.69786
10:23:56				909	10.03859	0.4795535	2.7558	1.4652	8.84005	3.69006
10:23:57				910	10.03762	0.4805159	2.8542	1.4652	8.59585	3.69805
10:23:57				911	10.03666	0.4803552	2.8542	1.51404	8.25397	3.69683
10:23:58				912	10.03569	0.4821187	2.7558	1.4652	8.79121	3.71141
10:23:58				913	10.04148	0.4819595	2.8542	1.51404	8.88889	3.70951
10:23:59				914	10.04148	0.4821187	2.9526	1.4652	8.20513	3.71081
10:23:59				915	10.04251	0.4822795	2.8542	1.4652	8.49817	3.71203
10:24:00				916	10.04443	0.4845232	2.7558	1.4652	8.44933	3.73026
10:24:00				917	10.04636	0.4845232	2.7558	1.4652	8.54701	3.73006
10:24:01				918	10.05022	0.4856461	2.8542	1.4652	8.44933	3.73888
10:24:01				919	10.05215	0.4851643	2.8542	1.51404	8.30281	3.73472
10:24:02				920	10.05215	0.4854849	2.7558	1.4652	8.49817	3.73736
10:24:02				921	10.05408	0.4864472	2.7558	1.51404	8.20513	3.74507
10:24:03				922	10.05504	0.4856461	2.8542	1.51404	8.84005	3.73838
10:24:03				923	10.05119	0.4859668	2.9526	1.51404	8.30281	3.74141
10:24:04				924	10.05311	0.4866084	2.8542	1.51404	8.35165	3.74648
10:24:04				925	10.05601	0.4861263	2.8542	1.41636	8.25397	3.74223
10:24:05				926	10.05408	0.4824404	2.7558	1.4652	8.30281	3.71217
10:24:05				927	10.05215	0.4830807	2.8542	1.51404	8.74237	3.71762
10:24:06				928	10.05119	0.483401	2.9526	1.4652	8.35165	3.72034
10:24:06				929	10.05215	0.483401	2.9526	1.51404	8.30281	3.72024
10:24:07				930	10.05215	0.483723	2.8542	1.51404	8.30281	3.72289
10:24:07				931	10.05215	0.4864472	2.7558	1.51404	8.59585	3.74526
10:24:08				932	10.05311	0.4882102	2.8542	1.51404	8.35165	3.75964
10:24:08				933	10.05697	0.4856461	2.8542	1.4652	8.44933	3.73818
10:24:09				934	10.05601	0.4842027	2.8542	1.4652	8.15629	3.72643
10:24:09				935	10.05601	0.4851643	2.8542	1.4652	8.44933	3.73433
10:24:10				936	10.05504	0.4845232	2.7558	1.4652	8.30281	3.72917
10:24:10				937	10.05601	0.4848437	2.7558	1.4652	8.40049	3.7317
10:24:11				938	10.05504	0.4850048	2.7558	1.51404	8.64469	3.73312
10:24:11				939	10.05697	0.4832417	2.6574	1.51404	8.69353	3.71846
10:24:12				940	10.05697	0.4825996	2.7558	1.51404	8.25397	3.71319
10:24:12				941	10.05408	0.4825996	2.6574	1.4652	8.25397	3.71349
10:24:13				942	10.05504	0.4842027	2.6574	1.4652	8.25397	3.72654
10:24:13				943	10.05504	0.4872486	2.7558	1.4652	8.69353	3.75155

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:14				944	10.05697	0.4864472	2.8542	1.41636	8.35165	3.74476
10:24:14				945	10.05794	0.4840433	2.8542	1.4652	8.25397	3.72493
10:24:15				946	10.05408	0.4842027	2.7558	1.51404	8.30281	3.72664
10:24:15				947	10.05408	0.4837229	2.7558	1.4652	8.30281	3.7227
10:24:16				948	10.05311	0.4856461	2.8542	1.51404	8.40049	3.73858
10:24:16				949	10.05697	0.4858056	2.8542	1.51404	8.35165	3.73949
10:24:17				950	10.05794	0.4858056	2.8542	1.4652	8.40049	3.7394
10:24:17				951	10.05986	0.4875696	2.8542	1.51404	8.20513	3.75368
10:24:18				952	10.06083	0.4861263	2.8542	1.4652	8.35165	3.74173
10:24:18				953	10.06083	0.4858056	2.7558	1.4652	8.05861	3.7391
10:24:19				954	10.06179	0.4866084	2.8542	1.4652	8.69353	3.74559
10:24:19				955	10.06276	0.4869276	2.9526	1.4652	8.84005	3.74811
10:24:20				956	10.06372	0.4869276	2.9526	1.51404	8.10745	3.74801
10:24:20				957	10.06179	0.4861263	2.7558	1.51404	8.25397	3.74164
10:24:21				958	10.06179	0.4878907	2.7558	1.51404	8.30281	3.75612
10:24:21				959	10.06083	0.4882102	2.8542	1.51404	8.35165	3.75884
10:24:22				960	10.06276	0.4874099	3.0509	1.4652	8.30281	3.75206
10:24:22				961	10.06469	0.4886911	2.9526	1.4652	8.35165	3.76239
10:24:23				962	10.06661	0.4901348	2.8542	1.51404	8.40049	3.77405
10:24:23				963	10.06758	0.4959064	2.8542	1.41636	8.05861	3.82138
10:24:24				964	10.07722	0.4941424	2.8542	1.4652	8.30281	3.80587
10:24:25				967	10.07698	0.487726	2.8542	1.51404	7.96093	3.7532
10:24:26				968	10.07601	0.4918932	2.8542	1.4652	8.15629	3.78752
10:24:26				969	10.07409	0.491253	2.7558	1.4652	8.10745	3.78247
10:24:27				970	10.07312	0.4821154	2.8542	1.4652	8.40049	3.70756
10:24:27				971	10.06348	0.485161	2.8542	1.4652	8.59585	3.73353
10:24:28				972	10.06444	0.4841994	2.8542	1.51404	8.35165	3.72554
10:24:28				973	10.06348	0.483557	2.8542	1.51404	8.20513	3.72037
10:24:29				974	10.06059	0.483879	2.7558	1.51404	8.64469	3.72332
10:24:29				975	10.06252	0.4845199	2.7558	1.51404	8.44933	3.72838
10:24:30				976	10.06637	0.4846793	2.8542	1.51404	8.40049	3.72929
10:24:30				977	10.07023	0.4848404	2.8542	1.4652	8.30281	3.73021
10:24:31				978	10.07023	0.4843588	2.8542	1.4652	8.15629	3.72626
10:24:31				979	10.07216	0.483879	2.6574	1.41636	8.05861	3.72214
10:24:32				980	10.07119	0.4824354	2.6574	1.4652	8.05861	3.71039
10:24:32				981	10.06926	0.4827556	2.7558	1.51404	8.30281	3.71321
10:24:33				982	10.06734	0.4827556	2.8542	1.4652	8.15629	3.7134
10:24:33				983	10.06541	0.4827556	2.8542	1.51404	8.25397	3.7136
10:24:34				984	10.06637	0.4816345	2.8542	1.51404	8.25397	3.7043
10:24:34				985	10.06059	0.4817937	2.8542	1.4652	8.25397	3.7062
10:24:35				986	10.05769	0.4816345	2.8542	1.4652	8.30281	3.70519
10:24:35				987	10.05673	0.481313	2.8542	1.4652	8.44933	3.70265
10:24:36				988	10.05577	0.4814738	2.9526	1.4652	8.59585	3.70406
10:24:36				989	10.0548	0.4816346	2.9526	1.4652	8.30281	3.70548
10:24:37				990	10.0548	0.4817937	2.8542	1.4652	8.30281	3.70679

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:24:37				991	10.0548	0.4816345	2.8542	1.51404	8.54701	3.70548
10:24:38				992	10.05673	0.481313	2.9526	1.51404	8.98657	3.70264
10:24:38				993	10.05866	0.481313	3.1493	1.51404	8.93773	3.70243
10:24:39				994	10.05673	0.481313	3.2477	1.4652	8.40049	3.70262
10:24:39				995	10.05769	0.481313	3.1493	1.4652	8.44933	3.70253
10:24:40				996	10.05769	0.4806716	3.2477	1.51404	8.54701	3.69727
10:24:40				997	10.05577	0.4909314	3.5428	1.4652	8.35165	3.78168
10:24:41				998	10.06541	0.4888477	3.9364	1.4652	8.74237	3.76354
10:24:41				999	10.07312	0.4959015	4.1331	1.51404	8.25397	3.82068
10:24:42				1000	10.07409	0.5076054	4.1331	1.51404	8.10745	3.91688
10:24:42				1001	10.09433	0.5738322	4.3299	1.51404	7.91209	4.46258
10:24:43				1002	10.15899	0.5972496	4.6251	1.51404	7.57021	4.64932
10:24:43				1003	10.19268	0.5763978	4.8218	1.4652	7.57021	4.4718
10:24:44				1004	10.19364	0.5707841	4.8218	1.51404	6.64225	4.42514
10:24:44				1005	10.20422	0.5911551	4.8218	1.51404	6.69109	4.59288
10:24:45				1006	10.19171	0.6052712	4.9202	1.4652	7.03297	4.7119
10:24:45				1007	10.17247	0.6137737	5.117	1.4652	6.88645	4.78527
10:24:46				1008	10.18594	0.608801	5.3137	1.51404	6.49573	4.74203
10:24:46				1009	10.18594	0.6071958	5.4121	1.51404	6.54457	4.72865
10:24:47				1010	10.18787	0.6084798	5.4121	1.51404	6.34921	4.7391
10:24:47				1011	10.1946	0.6096014	5.3137	1.4652	6.39805	4.74757
10:24:48				1012	10.19653	0.6158595	5.2153	1.4652	6.69109	4.7995
10:24:48				1013	10.18594	0.6211532	5.4121	1.4652	6.83761	4.84506
10:24:49				1014	10.15706	0.6160198	5.6089	1.41636	6.69109	4.80601
10:24:49				1015	10.15225	0.6115266	5.5105	1.4652	6.25153	4.76914
10:24:50				1016	10.16958	0.6036672	5.3137	1.51404	6.39805	4.70137
10:24:50				1017	10.17824	0.6084798	5.117	1.4652	6.59341	4.74037
10:24:51				1018	10.18209	0.6181044	5.4121	1.51404	6.69109	4.82012
10:24:51				1019	10.1638	0.6115266	5.6089	1.51404	6.44689	4.76762
10:24:52				1020	10.16188	0.608801	5.6089	1.51404	6.20269	4.74514
10:24:52				1021	10.16861	0.6065541	5.4121	1.51404	6.30037	4.72555
10:24:53				1022	10.17535	0.5951655	5.3137	1.4652	6.54457	4.62984
10:24:53				1023	10.17632	0.6118482	5.4121	1.4652	6.73993	4.76868
10:24:54				1024	10.17439	0.6063946	5.7073	1.51404	7.22833	4.72345
10:24:54	10:23:30 start transect	10	90	1025	10.17343	0.6028656	5.7073	1.51404	6.49573	4.69417
10:24:55				1026	10.17439	0.5998163	5.4121	1.51404	6.54457	4.66867
10:24:55				1027	10.17632	0.6027046	5.2153	1.51404	6.59341	4.69249
10:24:56				1028	10.17535	0.6140939	5.4121	1.51404	6.73993	4.78754
10:24:56				1029	10.16765	0.6131317	5.6089	1.51404	6.54457	4.78051
10:24:57				1030	10.16476	0.6142541	5.8056	1.4652	6.49573	4.79024
10:24:57				1031	10.15802	0.6128099	5.6089	1.4652	6.39805	4.77909
10:24:58				1032	10.16669	0.609763	5.2153	1.51404	6.59341	4.75256
10:24:58				1033	10.16958	0.6139338	5.2153	1.4652	6.69109	4.78698
10:24:59				1034	10.16284	0.6184253	5.5105	1.51404	6.69109	4.82534
10:24:59				1035	10.15514	0.6156976	5.7073	1.51404	6.44689	4.80356

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:25:00				1036	10.15995	0.6115266	5.5105	1.4652	6.20269	4.76814
10:25:00				1037	10.16669	0.609763	5.2153	1.51404	6.30037	4.75256
10:25:01				1038	10.16669	0.6142541	5.5105	1.41636	6.49573	4.79001
10:25:01				1039	10.16284	0.6110469	5.4121	1.4652	7.08181	4.76376
10:25:02				1040	10.16188	0.6011009	5.4121	1.51404	6.54457	4.68097
10:25:02				1041	10.16669	0.5925979	5.3137	1.4652	6.69109	4.60958
10:25:03				1042	10.16958	0.5874655	5.117	1.51404	6.98413	4.56654
10:25:03				1043	10.17054	0.5884277	5.117	1.51404	6.93529	4.57442
10:25:04				1044	10.17535	0.5980524	5.117	1.51404	6.83761	4.65388
10:25:04				1045	10.17535	0.5935607	5.117	1.51404	6.59341	4.6165
10:25:05				1046	10.18017	0.5935607	5.0186	1.4652	6.88645	4.6159
10:25:05				1047	10.19749	0.5983736	5.117	1.51404	6.69109	4.65373
10:25:06				1048	10.20807	0.5985342	5.117	1.51404	6.73993	4.65371
10:25:06				1049	10.21006	0.6007791	5.117	1.4652	6.69109	4.67213
10:25:07				1050	10.20134	0.5977312	5.117	1.51404	6.69109	4.64789
10:25:07				1051	10.19653	0.5946844	5.117	1.51404	6.69109	4.62317
10:25:08				1052	10.17054	0.5908334	5.117	1.51404	6.69109	4.59443
10:25:08				1053	10.17343	0.5953259	5.3137	1.4652	6.44689	4.63142
10:25:09				1054	10.17343	0.5911552	5.3137	1.4652	6.78877	4.59673
10:25:09				1055	10.1561	0.5914753	5.117	1.51404	7.22833	4.60159
10:25:10				1056	10.15026	0.5930802	5.2153	1.51404	6.88645	4.61568
10:25:10				1057	10.15417	0.5938813	5.4121	1.51404	6.78877	4.62184
10:25:11				1058	10.16958	0.5927598	5.4121	1.51404	6.73993	4.61055
10:25:11				1059	10.16669	0.5919573	5.4121	1.51404	6.44689	4.60424
10:25:12				1060	10.16669	0.5935608	5.5105	1.4652	6.44689	4.61757
10:25:12				1061	10.17824	0.5914753	5.4121	1.51404	6.78877	4.59877
10:25:13				1062	10.1792	0.5905134	5.4121	1.4652	6.78877	4.59065
10:25:13				1063	10.19845	0.5805686	5.2153	1.4652	6.78877	4.50566
10:25:14				1064	10.17439	0.575918	5.2153	1.51404	6.49573	4.47003
10:25:14				1065	10.131	0.5760786	5.3137	1.4652	6.69109	4.47668
10:25:15				1066	10.11751	0.575597	5.4121	1.51404	6.73993	4.47433
10:25:15				1067	10.10306	0.5731909	5.2153	1.51404	6.93529	4.45612
10:25:16				1068	10.08758	0.5719072	5.2153	1.51404	6.93529	4.44734
10:25:16				1069	10.07891	0.5747947	5.2153	1.4652	6.98413	4.47242
10:25:17				1070	10.06926	0.5749552	5.2153	1.4652	7.08181	4.47494
10:25:17				1071	10.07119	0.5743135	5.2153	1.4652	7.08181	4.46936
10:25:18				1072	10.06637	0.5848993	5.2153	1.4652	7.03297	4.55811
10:25:18				1073	10.08372	0.5857023	5.3137	1.4652	6.88645	4.56262
10:25:19				1074	10.07891	0.5847398	5.3137	1.51404	6.88645	4.5552
10:25:19				1075	10.09336	0.5873059	5.2153	1.51404	6.88645	4.57477
10:25:20				1076	10.12329	0.5967699	5.2153	1.51404	7.03297	4.64984
10:25:20				1077	10.14448	0.5993359	5.3137	1.51404	7.13065	4.66851
10:25:21				1078	10.1561	0.5921175	5.4121	1.4652	6.73993	4.60691
10:25:21				1079	10.1493	0.5893904	5.3137	1.4652	6.78877	4.58508
10:25:22				1080	10.14737	0.5887491	5.2153	1.4652	6.93529	4.58

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:25:22				1081	10.14063	0.5890706	5.2153	1.4652	6.88645	4.58352
10:25:23				1082	10.13293	0.5890706	5.3137	1.51404	7.27717	4.58448
10:25:23				1083	10.13389	0.5848992	5.3137	1.51404	6.93529	4.54965
10:25:24				1084	10.10595	0.5804079	5.2153	1.51404	7.08181	4.51578
10:25:25				1087	10.06649	0.5711029	5.2153	1.4652	7.03297	4.44323
10:25:26				1088	10.06071	0.5694987	5.2153	1.4652	7.22833	4.4306
10:25:26				1089	10.05299	0.5717436	5.117	1.51404	7.32601	4.45022
10:25:27				1090	10.05107	0.575913	5.117	1.51404	7.52137	4.48516
10:25:27				1091	10.05107	0.5832907	5.117	1.4652	7.22833	4.54662
10:25:28				1092	10.06264	0.5951605	5.2153	1.51404	7.27717	4.64416
10:25:28				1093	10.11667	0.5974067	5.3137	1.4652	6.69109	4.65599
10:25:29				1094	10.11378	0.5917921	5.4121	1.4652	6.69109	4.60956
10:25:29				1095	10.12245	0.5932369	5.3137	1.4652	6.64225	4.6205
10:25:30				1096	10.13696	0.6004541	5.3137	1.51404	6.78877	4.67879
10:25:30				1097	10.136	0.6107202	5.4121	1.4652	7.17949	4.76455
10:25:31				1098	10.12823	0.6087958	5.5105	1.51404	7.13065	4.74949
10:25:31				1099	10.13016	0.6039842	5.5105	1.51404	6.54457	4.70909
10:25:32				1100	10.14081	0.6041435	5.4121	1.4652	6.69109	4.70905
10:25:32				1101	10.14081	0.6033417	5.4121	1.4652	6.73993	4.70236
10:25:33				1102	10.13214	0.6031807	5.4121	1.4652	6.93529	4.70214
10:25:33				1103	10.13311	0.6060687	5.5105	1.4652	6.78877	4.7261
10:25:34				1104	10.12919	0.6025403	5.5105	1.4652	6.64225	4.69717
10:25:34				1105	10.13503	0.6009348	5.4121	1.51404	6.69109	4.68304
10:25:35				1106	10.13016	0.6031807	5.3137	1.51404	6.73993	4.7024
10:25:35				1107	10.13311	0.6030214	5.3137	1.51404	6.88645	4.70069
10:25:36				1108	10.13503	0.5999736	5.4121	1.51404	6.78877	4.67503
10:25:36				1109	10.13407	0.5994914	5.3137	1.4652	6.88645	4.67114
10:25:37				1110	10.136	0.5993307	5.3137	1.41636	6.73993	4.66955
10:25:37				1111	10.13792	0.5983685	5.3137	1.4652	6.54457	4.66129
10:25:38				1112	10.13311	0.6002934	5.3137	1.51404	6.44689	4.67795
10:25:38				1113	10.11185	0.6043046	5.4121	1.51404	6.49573	4.71414
10:25:39				1114	10.09933	0.6038231	5.3137	1.51404	6.78877	4.71175
10:25:39	10:24:15 @6:00	10	180	1115	10.08776	0.6060688	5.3137	1.4652	6.54457	4.732
10:25:40				1116	10.08487	0.6097579	5.3137	1.4652	6.64225	4.76321
10:25:40				1117	10.08776	0.6086362	5.3137	1.4652	6.93529	4.75345
10:25:41				1118	10.08391	0.6099194	5.3137	1.4652	6.59341	4.76468
10:25:41				1119	10.08776	0.6126465	5.3137	1.4652	6.78877	4.78697
10:25:42				1120	10.09258	0.6126465	5.4121	1.51404	6.54457	4.78633
10:25:42				1121	10.09065	0.6126465	5.4121	1.51404	6.44689	4.78659
10:25:43				1122	10.08872	0.6120048	5.4121	1.51404	6.30037	4.78148
10:25:43				1123	10.08294	0.6118431	5.3137	1.4652	6.64225	4.78089
10:25:44				1124	10.07619	0.6418449	5.4121	1.51404	6.64225	5.03318
10:25:44				1125	10.08583	0.653717	5.5105	1.4652	6.64225	5.13158
10:25:45				1126	10.11763	0.6312549	5.5105	1.4652	6.39805	4.93869
10:25:45				1127	10.09644	0.6278864	5.4121	1.51404	6.25153	4.91335

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:25:46				1128	10.07812	0.6100792	5.2153	1.51404	6.54457	4.76678
10:25:46				1129	10.07131	0.6205073	5.3137	1.4652	6.83761	4.85493
10:25:47				1130	10.06071	0.6224322	5.4121	1.51404	6.69109	4.87246
10:25:47				1131	10.07228	0.6172973	5.5105	1.4652	6.25153	4.82791
10:25:48				1132	10.05878	0.6150516	5.4121	1.4652	6.25153	4.81091
10:25:48				1133	10.03949	0.6118432	5.2153	1.4652	6.44689	4.78661
10:25:49				1134	10.03274	0.6156943	5.3137	1.4652	6.54457	4.81975
10:25:49				1135	10.04624	0.6176199	5.3137	1.51404	6.69109	4.83409
10:25:50				1136	10.05203	0.6160147	5.4121	1.51404	6.49573	4.81987
10:25:50				1137	10.04721	0.6168163	5.4121	1.51404	6.44689	4.82722
10:25:51				1138	10.04239	0.6148914	5.4121	1.51404	6.30037	4.81174
10:25:51				1139	10.02695	0.6124848	5.2153	1.4652	6.59341	4.79364
10:25:52				1140	10.02502	0.6237153	5.2153	1.4652	6.44689	4.88803
10:25:52				1141	10.0501	0.6437702	5.4121	1.51404	6.78877	5.05298
10:25:53				1142	10.07716	0.6298111	5.5105	1.4652	6.54457	4.93208
10:25:53				1143	10.07619	0.6216302	5.117	1.51404	6.44689	4.8637
10:25:54				1144	10.05492	0.6285278	5.0186	1.51404	6.49573	4.92437
10:25:54				1145	10.06264	0.6373518	5.2153	1.51404	6.44689	4.99735
10:25:55				1146	10.08583	0.6341439	5.3137	1.4652	6.30037	4.96724
10:25:55				1147	10.08872	0.633181	5.3137	1.4652	6.15385	4.95878
10:25:56				1148	10.09258	0.6330194	5.117	1.4652	6.10501	4.95691
10:25:56				1149	10.09065	0.637512	5.117	1.4652	6.20269	4.99485
10:25:57				1150	10.09354	0.646176	5.2153	1.4652	6.25153	5.06716
10:25:57				1151	10.0974	0.6561254	5.2153	1.51404	6.25153	5.15022
10:25:58				1152	10.10222	0.66864	5.3137	1.51404	6.20269	5.25482
10:25:58				1153	10.11956	0.6479406	5.2153	1.51404	6.00733	5.07835
10:25:59				1154	10.10896	0.6429669	5.2153	1.4652	5.95849	5.03808
10:25:59				1155	10.10222	0.6617405	5.2153	1.4652	6.15385	5.19676
10:26:00				1156	10.13112	0.6773056	5.3137	1.4652	6.15385	5.3236
10:26:00				1157	10.14466	0.6649494	5.4121	1.51404	5.76313	5.21766
10:26:01				1158	10.14081	0.6620609	5.2153	1.4652	5.81197	5.19395
10:26:01				1159	10.13311	0.6813172	5.2153	1.51404	6.00733	5.35711
10:26:02				1160	10.15237	0.6870954	5.3137	1.51404	6.00733	5.40295
10:26:02				1161	10.16103	0.6790708	5.4121	1.4652	5.61661	5.33408
10:26:03				1162	10.15622	0.677467	5.3137	1.4652	5.51893	5.32129
10:26:03				1163	10.14563	0.6697636	5.117	1.4652	5.76313	5.25803
10:26:04				1164	10.14274	0.7000939	5.117	1.4652	5.95849	5.51407
10:26:04				1165	10.15044	0.703786	5.4121	1.51404	6.00733	5.54406
10:26:05				1166	10.1514	0.6939961	5.4121	1.4652	5.76313	5.46128
10:26:05				1167	10.1514	0.6779476	5.117	1.51404	5.56777	5.32606
10:26:06				1168	10.14081	0.7058723	5.0186	1.51404	5.66545	5.56319
10:26:06				1169	10.14177	0.7119717	5.3137	1.4652	5.86081	5.61458
10:26:07				1170	10.10029	0.7086008	5.5105	1.51404	5.56777	5.59243
10:26:07				1171	10.10993	0.7068354	5.3137	1.4652	5.42125	5.57603
10:26:08				1172	10.14563	0.6976872	5.2153	1.4652	5.27473	5.49331

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:26:08				1173	10.15044	0.7122923	5.2153	1.51404	5.66545	5.61596
10:26:09				1174	10.1437	0.7090827	5.4121	1.51404	5.61661	5.58984
10:26:09				1175	10.14755	0.7031436	5.4121	1.51404	5.22589	5.53907
10:26:10				1176	10.16488	0.6962433	5.3137	1.4652	5.32357	5.47822
10:26:10				1177	10.16488	0.7008967	5.3137	1.4652	5.56777	5.51748
10:26:11				1178	10.17259	0.6962433	5.5105	1.4652	5.71429	5.47704
10:26:11				1179	10.16681	0.6870953	5.4121	1.4652	5.42125	5.4008
10:26:12				1180	10.14081	0.660297	5.2153	1.51404	5.56777	5.17912
10:26:12				1181	10.136	0.694157	5.5105	1.4652	5.81197	5.46494
10:26:13				1182	10.13696	0.6922297	5.5105	1.51404	5.81197	5.44853
10:26:13				1183	10.13985	0.6729738	5.4121	1.51404	5.56777	5.28585
10:26:14				1184	10.1186	0.663666	5.2153	1.4652	5.76313	5.21062
10:26:14				1185	10.08005	0.6538785	5.117	1.4652	5.90965	5.13379
10:26:15				1186	10.07716	0.653717	5.117	1.51404	6.20269	5.13284
10:26:15				1187	10.09354	0.6240352	5.2153	1.4652	6.20269	4.8815
10:26:16				1188	10.05685	0.6126465	5.2153	1.51404	6.25153	4.79105
10:26:16				1189	10.04239	0.6105605	5.117	1.51404	6.59341	4.7755
10:26:17				1190	10.03467	0.6275659	5.2153	1.51404	6.59341	4.91903
10:26:17				1191	10.05396	0.6126465	5.2153	1.51404	6.54457	4.79143
10:26:18				1192	10.04239	0.6116832	5.2153	1.4652	6.49573	4.78489
10:26:18				1193	10.03563	0.6748988	5.3137	1.4652	6.64225	5.31727
10:26:19				1194	10.06649	0.6748987	5.3137	1.51404	6.73993	5.31276
10:26:19				1195	10.08776	0.6559638	5.3137	1.4652	6.10501	5.15022
10:26:20				1196	10.07324	0.6615804	5.3137	1.51404	6.10501	5.19955
10:26:20				1197	10.08101	0.659173	5.3137	1.51404	5.90965	5.17817
10:26:21				1198	10.07909	0.631255	5.3137	1.51404	6.05617	4.94394
10:26:21				1199	10.07228	0.665752	5.2153	1.4652	6.30037	5.23482
10:26:22				1200	10.08487	0.6500273	5.3137	1.41636	6.25153	5.10072
10:26:22				1201	10.08101	0.653396	5.2153	1.51404	5.95849	5.12959
10:26:23				1202	10.08583	0.6925512	5.3137	1.51404	5.90965	5.45892
10:26:23				1203	10.12052	0.6781092	5.4121	1.4652	6.39805	5.33191
10:26:24				1204	10.13311	0.691107	5.4121	1.51404	5.81197	5.43964
10:26:25				1207	10.12359	0.6732888	5.4121	1.4652	5.81197	5.29086
10:26:26				1208	10.11685	0.7244857	5.4121	1.4652	6.20269	5.72439
10:26:26				1209	10.14093	0.699929	5.4121	1.51404	6.05617	5.51293
10:26:27				1210	10.15056	0.6851652	5.5105	1.51404	5.71429	5.38694
10:26:27				1211	10.13034	0.6737703	5.4121	1.4652	5.81197	5.29394
10:26:28				1212	10.13612	0.7008912	5.4121	1.51404	5.86081	5.52178
10:26:28				1213	10.14864	0.735561	5.5105	1.4652	6.39805	5.81323
10:26:29				1214	10.1872	0.7057069	5.8056	1.4652	6.25153	5.55464
10:26:29				1215	10.18432	0.6870898	5.5105	1.51404	5.07937	5.39815
10:26:30				1216	10.13997	0.6561199	5.2153	1.4652	5.51893	5.14416
10:26:30				1217	10.1207	0.6636624	5.117	1.51404	5.86081	5.21029
10:26:31				1218	10.11396	0.6686363	5.117	1.51404	6.20269	5.25311
10:26:31				1219	10.11589	0.6487385	5.117	1.4652	6.15385	5.08557

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:26:32				1220	10.09077	0.6203413	4.6251	1.51404	6.34921	4.851
10:26:32				1221	10.07535	0.5768729	4.1331	1.4652	6.34921	4.49022
10:26:33				1222	10.07342	0.5119273	3.9364	1.4652	6.64225	3.95256
10:26:33				1223	10.07535	0.5362994	3.9364	1.51404	7.13065	4.15358
10:26:34				1224	10.07535	0.5234712	3.7396	1.4652	7.52137	4.04758
10:26:34	10:25:10 end transect	10	270	1225	10.07824	0.5051947	3.2477	1.51404	7.42369	3.89663
10:26:35	reposition to 90			1226	10.07631	0.4910864	3.0509	1.51404	7.61905	3.78085
10:26:35				1227	10.07535	0.4949341	2.9526	1.4652	8.35165	3.81257
10:26:36				1228	10.07535	0.4904448	2.7558	1.51404	8.00977	3.7757
10:26:36				1229	10.07535	0.4864372	2.3623	1.4652	8.25397	3.74282
10:26:37				1230	10.07535	0.4874	2.1655	1.51404	8.25397	3.75073
10:26:37				1231	10.07439	0.4864372	2.0671	1.51404	8.35165	3.74294
10:26:38				1232	10.07342	0.4848354	1.8703	1.4652	8.20513	3.7299
10:26:38				1233	10.07149	0.4822696	1.5752	1.51404	8.20513	3.70907
10:26:39				1234	10.06957	0.483713	1.4768	1.51404	8.20513	3.72111
10:26:39				1235	10.06957	0.4833927	1.3784	1.4652	8.30281	3.71849
10:26:40				1236	10.06764	0.4824305	1.2801	1.4652	7.96093	3.71079
10:26:40				1237	10.06764	0.4816295	1.1817	1.4652	8.59585	3.70423
10:26:41				1238	10.07053	0.4819495	1.3784	1.51404	8.40049	3.70655
10:26:41				1239	10.07053	0.4821104	1.3784	1.51404	8.05861	3.70787
10:26:42				1240	10.06957	0.4824304	1.1817	1.51404	8.35165	3.7106
10:26:42				1241	10.06764	0.4822696	1.0833	1.51404	8.44933	3.70949
10:26:43				1242	10.0686	0.4821104	1.1817	1.4652	8.69353	3.70808
10:26:43				1243	10.06764	0.4819495	1.0833	1.4652	8.40049	3.70686
10:26:44				1244	10.06957	0.4816295	1.0833	1.4652	8.44933	3.70404
10:26:44				1245	10.07149	0.4819495	1.2801	1.4652	8.64469	3.70646
10:26:45				1246	10.07246	0.4817887	1.1817	1.51404	8.54701	3.70505
10:26:45				1247	10.07342	0.4808273	0.9849	1.51404	8.49817	3.69707
10:26:46				1248	10.06957	0.4811472	1.1817	1.51404	8.84005	3.70008
10:26:46				1249	10.06667	0.4811472	1.4768	1.51404	8.44933	3.70036
10:26:47				1250	10.06667	0.4809881	1.2801	1.4652	8.25397	3.69906
10:26:47				1251	10.06764	0.4808273	0.9849	1.4652	8.44933	3.69766
10:26:48				1252	10.06185	0.4805059	1.1817	1.4652	8.49817	3.6956
10:26:48				1253	10.05703	0.4805059	1.3784	1.4652	8.69353	3.69608
10:26:49				1254	10.05703	0.4792241	1.3784	1.51404	8.44933	3.68557
10:26:49				1255	10.05896	0.4808273	1.0833	1.51404	10.50061	3.69854
10:26:50				1256	10.06185	0.4803469	1.0833	1.51404	12.21001	3.6943
10:26:50				1257	10.06089	0.4806666	1.2801	1.51404	8.79121	3.69701
10:26:51				1258	10.06089	0.4806666	1.2801	1.4652	8.44933	3.69701
10:26:51				1259	10.06185	0.4806666	1.2801	1.4652	8.30281	3.69691
10:26:52				1260	10.06185	0.4808273	1.2801	1.51404	8.74237	3.69823
10:26:52				1261	10.06185	0.4808273	1.1817	1.51404	8.44933	3.69824
10:26:53				1262	10.06378	0.4809881	1.1817	1.51404	8.49817	3.69936
10:26:53				1263	10.06185	0.4809881	1.2801	1.51404	8.79121	3.69955
10:26:54				1264	10.06089	0.4809881	1.2801	1.4652	8.54701	3.69965

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:26:54				1265	10.06282	0.4809881	1.1817	1.4652	8.40049	3.69946
10:26:55				1266	10.06378	0.4809881	1.1817	1.4652	8.49817	3.69936
10:26:55				1267	10.06089	0.4809881	1.2801	1.4652	8.64469	3.69965
10:26:56				1268	10.06185	0.4809881	1.4768	1.51404	8.59585	3.69954
10:26:56				1269	10.06185	0.4809881	1.3784	1.51404	8.40049	3.69955
10:26:57				1270	10.05992	0.4809881	1.2801	1.51404	8.54701	3.69975
10:26:57				1271	10.05896	0.4806666	1.1817	1.4652	8.69353	3.69721
10:26:58				1272	10.05896	0.4808274	1.3784	1.4652	8.93773	3.69852
10:26:58				1273	10.05896	0.4806666	1.4768	1.51404	8.59585	3.6972
10:26:59				1274	10.058	0.4808274	1.2801	1.4652	8.30281	3.69862
10:26:59				1275	10.05992	0.4809881	1.2801	1.51404	8.35165	3.69975
10:27:00				1276	10.05992	0.4805059	1.2801	1.51404	8.74237	3.69579
10:27:00				1277	10.05896	0.4797059	1.3784	1.4652	8.44933	3.68932
10:27:01				1278	10.05607	0.4797059	1.3784	1.4652	8.64469	3.68962
10:27:01				1279	10.05317	0.4793847	1.3784	1.4652	8.74237	3.68727
10:27:02				1280	10.04733	0.4797059	1.2801	1.51404	8.44933	3.69051
10:27:02				1281	10.04829	0.4790635	1.2801	1.51404	8.59585	3.68514
10:27:03				1282	10.0454	0.478744	1.2801	1.51404	8.49817	3.68281
10:27:03				1283	10.04347	0.4785835	1.2801	1.51404	8.64469	3.68169
10:27:04				1284	10.04154	0.4785835	1.2801	1.51404	8.69353	3.68189
10:27:04				1285	10.04154	0.4785835	1.1817	1.4652	8.64469	3.68189
10:27:05				1286	10.04154	0.4782625	1.1817	1.4652	8.59585	3.67926
10:27:05				1287	10.04154	0.478744	1.1817	1.4652	8.69353	3.68321
10:27:06				1288	10.04058	0.4790635	1.1817	1.51404	8.69353	3.68593
10:27:06				1289	10.03961	0.4776222	1.1817	1.4652	8.49817	3.6742
10:27:07				1290	10.03575	0.4779415	1.0833	1.4652	8.40049	3.67721
10:27:07				1291	10.03479	0.4776222	1.0833	1.4652	8.74237	3.67469
10:27:08				1292	10.0319	0.4768202	1.0833	1.4652	8.59585	3.6684
10:27:08				1293	10.02804	0.4760186	1.0833	1.4652	8.69353	3.66222
10:27:09				1294	10.02514	0.4752173	0.9849	1.51404	8.64469	3.65594
10:27:09				1295	10.02418	0.4748969	1.0833	1.51404	8.69353	3.6534
10:27:10				1296	10.02225	0.4747367	1.0833	1.51404	8.69353	3.65228
10:27:10				1297	10.01935	0.4747367	1.0833	1.51404	8.93773	3.65257
10:27:11				1298	10.01742	0.4744164	1.0833	1.51404	9.03541	3.65014
10:27:11				1299	10.01646	0.4745766	1.0833	1.51404	9.03541	3.65155
10:27:12				1300	10.0155	0.4748969	1.1817	1.41636	8.74237	3.65427
10:27:12				1301	10.02032	0.4755378	1.1817	1.4652	8.74237	3.65904
10:27:13				1302	10.02418	0.4764995	1.0833	1.51404	8.79121	3.66655
10:27:13				1303	10.02418	0.4758583	1.1817	1.51404	8.79121	3.66128
10:27:14				1304	10.02418	0.475698	1.1817	1.51404	8.79121	3.65997
10:27:14				1305	10.02321	0.4750571	1.1817	1.51404	8.69353	3.65481
10:27:15				1306	10.02032	0.4750571	1.1817	1.4652	8.84005	3.6551
10:27:15				1307	10.02128	0.4758583	1.1817	1.4652	8.79121	3.66158
10:27:16				1308	10.02514	0.4763392	1.2801	1.4652	8.59585	3.66513
10:27:16				1309	10.02707	0.4768202	1.2801	1.51404	8.64469	3.66888

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:17				1310	10.02611	0.4773014	1.3784	1.51404	8.74237	3.67292
10:27:17				1311	10.02997	0.4787441	1.3784	1.51404	9.03541	3.68437
10:27:18				1312	10.03093	0.4795453	1.3784	1.51404	8.93773	3.69085
10:27:18				1313	10.03286	0.4793847	1.3784	1.4652	8.54701	3.68933
10:27:19				1314	10.03575	0.4795453	1.2801	1.4652	8.59585	3.69036
10:27:19				1315	10.03672	0.4789046	1.3784	1.51404	8.49817	3.685
10:27:20				1316	10.03768	0.4777811	1.3784	1.4652	8.44933	3.67569
10:27:20				1317	10.02997	0.475698	1.2801	1.51404	8.49817	3.65938
10:27:21				1318	10.02804	0.4763392	1.2801	1.51404	8.54701	3.66484
10:27:21				1319	10.02707	0.477141	1.2801	1.4652	8.59585	3.67151
10:27:22				1320	10.029	0.4773014	1.3784	1.4652	8.40049	3.67263
10:27:22				1321	10.03286	0.4766599	1.3784	1.4652	8.59585	3.66698
10:27:23				1322	10.0319	0.4768202	1.3784	1.4652	8.84005	3.66839
10:27:23				1323	10.03093	0.4769806	1.3784	1.4652	8.84005	3.6698
10:27:24				1324	10.0319	0.4773014	1.3784	1.51404	8.84005	3.67234
10:27:25				1327	10.04944	0.4835652	1.4768	1.4652	8.79121	3.72195
10:27:26				1328	10.04944	0.4811603	1.4768	1.51404	8.69353	3.70222
10:27:26				1329	10.04558	0.4808405	1.5752	1.41636	8.79121	3.69998
10:27:27				1330	10.04558	0.4797174	1.5752	1.51404	8.64469	3.69076
10:27:27				1331	10.04269	0.4797174	1.6736	1.51404	8.59585	3.69105
10:27:28				1332	10.04462	0.4792372	1.772	1.51404	8.44933	3.68691
10:27:28				1333	10.04269	0.4797174	1.6736	1.51404	8.64469	3.69105
10:27:29				1334	10.04269	0.4805191	1.6736	1.4652	8.59585	3.69763
10:27:29				1335	10.04751	0.4811604	1.6736	1.4652	8.49817	3.7024
10:27:30				1336	10.04654	0.4816411	1.772	1.4652	8.35165	3.70644
10:27:30				1337	10.04847	0.4819627	1.6736	1.4652	8.59585	3.70889
10:27:31				1338	10.05336	0.4816411	1.5752	1.51404	8.59585	3.70576
10:27:31				1339	10.05336	0.483084	1.5752	1.51404	8.49817	3.7176
10:27:32				1340	10.05432	0.4848469	1.772	1.4652	8.25397	3.73196
10:27:32				1341	10.05432	0.4811604	1.772	1.4652	8.44933	3.7017
10:27:33				1342	10.05432	0.4821219	1.772	1.41636	8.74237	3.70959
10:27:33				1343	10.04654	0.4797174	1.772	1.4652	8.40049	3.69065
10:27:34				1344	10.04269	0.4789161	1.8703	1.51404	8.49817	3.68446
10:27:34				1345	10.03979	0.4779546	1.8703	1.4652	8.64469	3.67687
10:27:35				1346	10.03401	0.4769937	1.8703	1.51404	8.79121	3.66957
10:27:35				1347	10.03208	0.4763523	1.8703	1.4652	8.88889	3.6645
10:27:36				1348	10.03111	0.4763523	1.8703	1.4652	8.69353	3.6646
10:27:36				1349	10.02918	0.4768334	1.772	1.4652	8.64469	3.66875
10:27:37				1350	10.02822	0.4769937	1.772	1.4652	8.88889	3.67016
10:27:37				1351	10.02918	0.4774733	1.6736	1.51404	8.30281	3.674
10:27:38				1352	10.03015	0.4774733	1.6736	1.51404	8.74237	3.67391
10:27:38				1353	10.03015	0.4776337	1.6736	1.4652	8.44933	3.67522
10:27:39				1354	10.03111	0.4790766	1.6736	1.51404	8.59585	3.68696
10:27:39				1355	10.03208	0.4773129	1.6736	1.4652	8.40049	3.67239
10:27:40				1356	10.03208	0.4774733	1.5752	1.4652	8.59585	3.67372

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:27:40				1357	10.03594	0.4781151	1.6736	1.4652	8.35165	3.67859
10:27:41				1358	10.03497	0.4790766	1.6736	1.4652	8.49817	3.68657
10:27:41				1359	10.0369	0.4808405	1.6736	1.51404	8.59585	3.70085
10:27:42				1360	10.04462	0.4809996	1.6736	1.51404	8.64469	3.70138
10:27:42				1361	10.04654	0.4808405	1.772	1.51404	8.49817	3.69987
10:27:43				1362	10.04558	0.4811604	1.772	1.51404	8.35165	3.70259
10:27:43				1363	10.04558	0.4806798	1.772	1.4652	8.49817	3.69865
10:27:44				1364	10.04558	0.4806798	1.6736	1.4652	8.44933	3.69865
10:27:44				1365	10.04944	0.4814819	1.6736	1.51404	8.49817	3.70484
10:27:45				1366	10.05143	0.4822828	1.5752	1.4652	8.59585	3.71122
10:27:45				1367	10.05046	0.4826029	1.5752	1.51404	8.44933	3.71394
10:27:46				1368	10.04847	0.4819627	1.6736	1.51404	8.30281	3.70889
10:27:46				1369	10.05336	0.483084	1.6736	1.51404	8.74237	3.71759
10:27:47				1370	10.05528	0.4840466	1.6736	1.4652	8.69353	3.7253
10:27:47				1371	10.05528	0.4821219	1.6736	1.4652	8.35165	3.7095
10:27:48				1372	10.05528	0.4816411	1.772	1.51404	8.49817	3.70555
10:27:48				1373	10.04558	0.4792372	1.772	1.51404	8.49817	3.68681
10:27:49				1374	10.04172	0.479878	1.772	1.4652	8.59585	3.69246
10:27:49				1375	10.03979	0.4793978	1.772	1.51404	8.44933	3.68872
10:27:50				1376	10.03979	0.4787555	1.772	1.51404	8.15629	3.68345
10:27:50				1377	10.0369	0.4769937	1.8703	1.4652	8.30281	3.66928
10:27:51				1378	10.03401	0.4797174	1.772	1.51404	8.59585	3.69192
10:27:51				1379	10.03594	0.4813212	1.772	1.4652	8.59585	3.70489
10:27:52				1380	10.03979	0.4805191	1.772	1.51404	8.54701	3.69792
10:27:52				1381	10.04365	0.4809996	1.772	1.51404	8.64469	3.70147
10:27:53				1382	10.04462	0.4805191	1.8703	1.51404	8.30281	3.69742
10:27:53				1383	10.04558	0.4800387	1.8703	1.51404	8.35165	3.69338
10:27:54				1384	10.04269	0.4800387	1.8703	1.4652	8.44933	3.69367
10:27:54				1385	10.03979	0.4784361	1.772	1.51404	8.49817	3.68082
10:27:55				1386	10.03883	0.4801994	1.9687	1.51404	8.79121	3.69538
10:27:55				1387	10.03883	0.4795584	2.0671	1.4652	8.59585	3.69011
10:27:56				1388	10.03786	0.4797174	1.9687	1.51404	8.49817	3.69152
10:27:56				1389	10.03786	0.4803584	1.8703	1.51404	8.54701	3.69679
10:27:57				1390	10.03979	0.4808405	1.8703	1.4652	8.69353	3.70055
10:27:57				1391	10.04076	0.4805191	2.0671	1.4652	8.54701	3.6978
10:27:58				1392	10.04269	0.4801994	1.9687	1.4652	8.49817	3.69499
10:27:58				1393	10.04172	0.4797174	1.9687	1.51404	8.54701	3.69113
10:27:59				1394	10.03979	0.4793978	1.8703	1.51404	8.44933	3.68871
10:27:59				1395	10.03979	0.4774733	1.8703	1.51404	8.69353	3.67292
10:28:00				1396	10.03401	0.4792372	1.8703	1.51404	8.59585	3.68798
10:28:00				1397	10.03401	0.4785966	1.9687	1.41636	8.54701	3.68272
10:28:01				1398	10.03208	0.4774733	1.8703	1.4652	8.69353	3.6737
10:28:01				1399	10.02629	0.4768334	1.6736	1.51404	8.64469	3.66904
10:28:02				1400	10.02243	0.4771525	1.6736	1.4652	8.88889	3.67205
10:28:02				1401	10.02822	0.4763523	1.8703	1.51404	8.54701	3.66489

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:03				1402	10.02725	0.4765127	2.0671	1.51404	8.49817	3.66629
10:28:03				1403	10.02822	0.4773129	1.9687	1.4652	8.64469	3.67277
10:28:04				1404	10.02918	0.4773129	1.8703	1.4652	8.69353	3.67268
10:28:04				1405	10.02918	0.4766673	1.8703	1.4652	8.54701	3.66743
10:28:05				1406	10.02822	0.4757112	1.8703	1.51404	8.69353	3.65963
10:28:05				1407	10.02339	0.4765127	1.9687	1.51404	8.59585	3.66669
10:28:06				1408	10.02532	0.4766673	1.9687	1.51404	8.69353	3.66781
10:28:06				1409	10.02339	0.4765127	1.8703	1.51404	8.54701	3.66669
10:28:07				1410	10.02436	0.4760317	1.8703	1.4652	8.98657	3.66265
10:28:07				1411	10.02436	0.476192	2.2639	1.4652	9.18193	3.66394
10:28:08				1412	10.02339	0.4761921	2.6574	1.51404	9.27961	3.66402
10:28:08				1413	10.02243	0.4760318	2.6574	1.4652	8.93773	3.6628
10:28:09				1414	10.02436	0.476192	2.4606	1.51404	8.79121	3.66393
10:28:09				1415	10.02436	0.4763524	2.3623	1.51404	8.93773	3.66525
10:28:10				1416	10.02339	0.4792373	2.559	1.51404	9.23077	3.68901
10:28:10				1417	10.02436	0.4773129	2.7558	1.4652	8.49817	3.67311
10:28:11				1418	10.02725	0.4766673	2.6574	1.4652	8.44933	3.66758
10:28:11				1419	10.02629	0.4769938	2.4606	1.4652	8.64469	3.67032
10:28:12				1420	10.02532	0.4776338	2.559	1.4652	8.98657	3.67566
10:28:12				1421	10.02822	0.4766673	2.6574	1.51404	8.59585	3.66748
10:28:13				1422	10.02725	0.4769938	2.559	1.51404	8.69353	3.67021
10:28:13				1423	10.02725	0.476192	2.559	1.51404	8.69353	3.66363
10:28:14				1424	10.02629	0.476192	2.559	1.51404	8.40049	3.66373
10:28:14				1425	10.02629	0.4761921	2.6574	1.4652	8.84005	3.66373
10:28:15				1426	10.02532	0.4793979	2.8542	1.4652	8.98657	3.69012
10:28:15				1427	10.03304	0.4795585	3.1493	1.51404	8.64469	3.69064
10:28:16				1428	10.03401	0.4779547	3.2477	1.51404	8.74237	3.67738
10:28:16				1429	10.03208	0.4795585	3.2477	1.51404	8.54701	3.69073
10:28:17				1430	10.0369	0.4793979	3.4445	1.51404	8.44933	3.68891
10:28:17				1431	10.04365	0.4792373	3.7396	1.4652	8.69353	3.68689
10:28:18				1432	10.04269	0.4793979	3.838	1.4652	8.54701	3.6883
10:28:18				1433	10.04462	0.4792373	3.838	1.51404	8.49817	3.68679
10:28:19				1434	10.04462	0.4811605	4.0348	1.51404	8.84005	3.70256
10:28:19				1435	10.04558	0.4805192	4.1331	1.51404	8.69353	3.69719
10:28:20				1436	10.04654	0.575604	4.2315	1.51404	8.10745	4.48321
10:28:20				1437	10.10637	0.5996643	4.4283	1.51404	8.40049	4.6762
10:28:21				1438	10.13052	0.5985413	4.7234	1.51404	6.98413	4.66372
10:28:21				1439	10.15074	0.5932473	4.9202	1.4652	7.17949	4.61703
10:28:22				1440	10.14978	0.6102511	4.9202	1.51404	6.39805	4.75887
10:28:22				1441	10.15267	0.6437824	5.117	1.51404	6.39805	5.03888
10:28:23				1442	10.15556	0.6928853	5.4121	1.4652	6.39805	5.45128
10:28:23				1443	10.15363	0.6375243	5.7073	1.51404	6.20269	4.98627
10:28:24				1444	10.15459	0.6295025	5.5105	1.4652	5.81197	4.91902
10:28:25				1447	10.15177	0.7161248	5.7073	1.51404	6.59341	5.64812
10:28:26				1448	10.14117	0.6666973	5.904	1.51404	5.90965	5.23282

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:26				1449	10.14791	0.6702264	5.8056	1.51404	5.51893	5.26153
10:28:27				1450	10.15273	0.673917	5.6089	1.51404	6.05617	5.2919
10:28:27				1451	10.14984	0.7202967	6.0024	1.51404	6.30037	5.68369
10:28:28				1452	10.16043	0.7472633	6.4943	1.4652	5.76313	5.91052
10:28:28				1453	10.19123	0.7254326	6.5927	1.51404	5.37241	5.72062
10:28:29				1454	10.18065	0.7185313	6.4943	1.51404	5.12821	5.66392
10:28:29				1455	10.17583	0.7225448	6.3959	1.51404	5.32357	5.69862
10:28:30				1456	10.19707	0.8710636	6.7895	1.51404	5.51893	6.96163
10:28:30				1457	10.43068	0.8901772	7.183	1.4652	4.49328	7.08056
10:28:31				1458	10.5362	0.8448834	7.3798	1.4652	3.1746	6.67458
10:28:31				1459	10.54386	0.8614266	7.3798	1.4652	3.22344	6.81377
10:28:32				1460	10.56492	0.8492207	7.2814	1.4652	3.27228	6.70617
10:28:32				1461	10.57066	0.9015839	7.3798	1.51404	3.80952	7.15081
10:28:33				1462	10.58603	0.894837	7.6749	1.51404	3.56532	7.09024
10:28:33				1463	10.58603	0.8843961	7.6749	1.51404	2.78388	7.00128
10:28:34				1464	10.58221	0.8574108	7.2814	1.51404	2.9304	6.77254
10:28:34				1465	10.54195	0.8439205	7.183	1.4652	3.22344	6.66537
10:28:35				1466	10.52663	0.9046358	7.3798	1.51404	3.51648	7.18549
10:28:35				1467	10.56588	0.8808619	7.5765	1.51404	3.22344	6.97503
10:28:36				1468	10.57258	0.8835923	7.5765	1.51404	2.88156	6.99701
10:28:36				1469	10.57353	0.8737943	7.3798	1.51404	2.88156	6.91343
10:28:37				1470	10.57545	0.9007807	7.2814	1.51404	3.02808	7.14303
10:28:37				1471	10.58699	0.9125067	7.4781	1.51404	3.12576	7.24084
10:28:38				1472	10.60517	0.9078487	7.6749	1.4652	3.07692	7.19748
10:28:38				1473	10.60612	0.9035102	7.5765	1.51404	2.97924	7.1603
10:28:39				1474	10.60134	0.9064024	7.4781	1.51404	3.02808	7.18592
10:28:39	10:27:15 start transect	10	90	1475	10.60421	0.9047952	7.3798	1.51404	2.97924	7.17165
10:28:40				1476	10.60134	0.9118642	7.3798	1.4652	3.02808	7.23254
10:28:40				1477	10.59847	0.9182901	7.3798	1.56288	3.07692	7.28798
10:28:41				1478	10.59273	0.9152385	7.5765	1.41636	2.88156	7.26303
10:28:41				1479	10.59273	0.9083303	7.4781	1.51404	2.88156	7.20406
10:28:42				1480	10.60038	0.9019048	7.2814	1.51404	2.97924	7.14776
10:28:42				1481	10.6023	0.898691	7.183	1.51404	2.9304	7.12
10:28:43				1482	10.60708	0.9123465	7.3798	1.51404	2.97924	7.23552
10:28:43				1483	10.60995	0.8999756	7.3798	1.4652	2.9304	7.12944
10:28:44				1484	10.61282	0.8978887	7.2814	1.4652	2.83272	7.11111
10:28:44				1485	10.61664	0.8871261	7.183	1.51404	2.97924	7.01872
10:28:45				1486	10.62429	0.8786124	7.0846	1.51404	3.07692	6.94485
10:28:45				1487	10.62907	0.8782903	7.0846	1.51404	3.22344	6.94121
10:28:46				1488	10.63194	0.8806996	7.183	1.51404	3.02808	6.96114
10:28:46				1489	10.62716	0.8725087	7.183	1.51404	3.12576	6.89243
10:28:47				1490	10.62907	0.8721875	7.0846	1.4652	3.12576	6.88935
10:28:47				1491	10.64533	0.8721874	7.0846	1.4652	3.1746	6.8863
10:28:48				1492	10.65208	0.8742753	7.0846	1.51404	3.22344	6.90276
10:28:48				1493	10.65017	0.8789344	7.183	1.51404	3.12576	6.94268

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:28:49				1494	10.63959	0.8734727	7.2814	1.51404	3.1746	6.89827
10:28:49				1495	10.64634	0.8739539	7.2814	1.51404	3.12576	6.90109
10:28:50				1496	10.65303	0.8741155	7.183	1.51404	3.07692	6.90121
10:28:50				1497	10.65208	0.8731513	7.183	1.4652	3.07692	6.8932
10:28:51				1498	10.64246	0.8855189	7.2814	1.51404	3.22344	7.00011
10:28:51				1499	10.63481	0.8806996	7.2814	1.4652	3.12576	6.96058
10:28:52				1500	10.63194	0.8848771	7.183	1.51404	3.27228	6.99666
10:28:52				1501	10.62716	0.8887322	7.183	1.51404	3.1746	7.03038
10:28:53				1502	10.63385	0.8901766	7.183	1.51404	3.07692	7.04139
10:28:53				1503	10.64634	0.8901766	7.2814	1.51404	3.02808	7.03898
10:28:54				1504	10.65017	0.8903374	7.2814	1.4652	2.9304	7.03961
10:28:54				1505	10.65494	0.8913021	7.2814	1.51404	3.07692	7.0469
10:28:55				1506	10.65877	0.8904981	7.2814	1.51404	2.88156	7.03933
10:28:55				1507	10.6645	0.8904981	7.2814	1.51404	2.9304	7.03823
10:28:56				1508	10.6817	0.8895355	7.183	1.51404	2.97924	7.02676
10:28:56				1509	10.6989	0.8949957	7.183	1.4652	3.02808	7.06987
10:28:57				1510	10.69603	0.8948367	7.2814	1.51404	3.02808	7.06906
10:28:57				1511	10.6903	0.891302	7.3798	1.51404	2.88156	7.04011
10:28:58				1512	10.69985	0.8921043	7.2814	1.51404	2.73504	7.0451
10:28:58				1513	10.70558	0.8909803	7.183	1.51404	2.78388	7.03447
10:28:59				1514	10.71322	0.8930697	7.0846	1.4652	2.78388	7.05076
10:28:59				1515	10.7094	0.8940335	7.183	1.51404	2.83272	7.05967
10:29:00				1516	10.70272	0.8933896	7.2814	1.51404	2.9304	7.05547
10:29:00				1517	10.70081	0.8927479	7.2814	1.4652	2.73504	7.05039
10:29:01				1518	10.69985	0.8932287	7.183	1.51404	2.83272	7.05467
10:29:01				1519	10.71322	0.8964416	7.0846	1.51404	2.73504	7.0794
10:29:02				1520	10.71227	0.8998159	7.183	1.4652	2.73504	7.10826
10:29:02				1521	10.71131	0.9001367	7.2814	1.51404	2.78388	7.11116
10:29:03				1522	10.71424	0.9002981	7.2814	1.4652	3.22344	7.11196
10:29:03				1523	10.71997	0.9019044	7.183	1.51404	2.83272	7.12452
10:29:04				1524	10.72379	0.9023849	7.183	1.51404	2.78388	7.12786
10:29:04				1525	10.72761	0.902708	7.183	1.51404	2.78388	7.12986
10:29:05				1526	10.72761	0.9007802	7.183	1.51404	2.58852	7.11348
10:29:05				1527	10.7257	0.9007803	7.2814	1.4652	2.58852	7.11384
10:29:06				1528	10.72952	0.9020639	7.2814	1.51404	2.63736	7.12401
10:29:06				1529	10.72856	0.9023849	7.2814	1.51404	2.49084	7.12692
10:29:07				1530	10.72952	0.9017429	7.2814	1.4652	2.6862	7.12128
10:29:07				1531	10.72952	0.9035098	7.2814	1.51404	2.49084	7.1363
10:29:08				1532	10.72188	0.9025465	7.2814	1.51404	2.6862	7.12959
10:29:08				1533	10.7257	0.9007803	7.2814	1.51404	2.49084	7.11384
10:29:09				1534	10.73143	0.9006188	7.2814	1.4652	2.34432	7.11136
10:29:09				1535	10.73715	0.8994952	7.2814	1.4652	2.53968	7.10071
10:29:10				1536	10.7362	0.8986906	7.2814	1.51404	2.53968	7.09406
10:29:10				1537	10.73047	0.8980476	7.2814	1.51404	2.63736	7.0897
10:29:11				1538	10.72665	0.8980476	7.2814	1.51404	2.73504	7.09044

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:11				1539	10.71806	0.8974067	7.183	1.51404	2.73504	7.08666
10:29:12				1540	10.7171	0.8954789	7.183	1.4652	2.53968	7.07047
10:29:12				1541	10.72379	0.895638	7.2814	1.51404	2.73504	7.07052
10:29:13				1542	10.72856	0.8954788	7.2814	1.51404	2.73504	7.06825
10:29:13				1543	10.73143	0.895799	7.183	1.4652	2.78388	7.07043
10:29:14				1544	10.73715	0.8930696	7.183	1.51404	2.6862	7.04616
10:29:14				1545	10.74193	0.8937114	7.183	1.51404	2.78388	7.05069
10:29:15				1546	10.75147	0.8933895	7.2814	1.51404	2.6862	7.04612
10:29:15				1547	10.75052	0.8924259	7.183	1.51404	2.63736	7.03813
10:29:16				1548	10.75433	0.8906586	7.183	1.4652	2.63736	7.02241
10:29:16				1549	10.75529	0.896923	7.183	1.51404	2.78388	7.07538
10:29:17				1550	10.75529	0.8937114	7.2814	1.51404	2.78388	7.04812
10:29:17				1551	10.7572	0.8909802	7.2814	1.4652	2.73504	7.02458
10:29:18				1552	10.76006	0.8933894	7.183	1.51404	2.63736	7.04448
10:29:18				1553	10.76197	0.8935504	7.183	1.4652	2.63736	7.04548
10:29:19				1554	10.76292	0.890337	7.2814	1.51404	2.6862	7.01803
10:29:19				1555	10.76579	0.8887318	7.183	1.51404	2.63736	7.00389
10:29:20				1556	10.76865	0.8917843	7.2814	1.51404	2.58852	7.02921
10:29:20				1557	10.7677	0.8908194	7.2814	1.4652	2.53968	7.02121
10:29:21				1558	10.76674	0.8892139	7.2814	1.4652	2.88156	7.00778
10:29:21				1559	10.7696	0.8900175	7.183	1.4652	2.83272	7.01406
10:29:22				1560	10.77056	0.8969229	7.183	1.51404	2.73504	7.07244
10:29:22				1561	10.76292	0.8953177	7.2814	1.51404	2.6862	7.06028
10:29:23				1562	10.76102	0.8930695	7.3798	1.51404	2.49084	7.04156
10:29:23				1563	10.76292	0.8938724	7.2814	1.4652	2.53968	7.04802
10:29:24				1564	10.76197	0.8948365	7.2814	1.4652	2.83272	7.05638
10:29:25				1567	10.75911	0.8934073	7.3798	1.51404	2.58852	7.04479
10:29:26				1568	10.76102	0.8958169	7.2814	1.51404	2.49084	7.06488
10:29:26				1569	10.75911	0.8967817	7.3798	1.4652	2.6862	7.07343
10:29:27				1570	10.76102	0.8945323	7.3798	1.4652	2.63736	7.05397
10:29:27				1571	10.76388	0.8937293	7.3798	1.4652	2.6862	7.04661
10:29:28				1572	10.76388	0.8937293	7.3798	1.51404	2.53968	7.04661
10:29:28				1573	10.76388	0.8948544	7.2814	1.51404	2.58852	7.05617
10:29:29				1574	10.76579	0.9004753	7.2814	1.51404	2.78388	7.1035
10:29:29				1575	10.76388	0.8990311	7.3798	1.51404	2.97924	7.0916
10:29:30				1576	10.76292	0.8956558	7.3798	1.4652	2.63736	7.06314
10:29:30				1577	10.76674	0.8948544	7.2814	1.51404	2.58852	7.05562
10:29:31				1578	10.7677	0.8966205	7.183	1.51404	2.58852	7.07043
10:29:31				1579	10.76674	0.9077043	7.2814	1.51404	2.58852	7.1647
10:29:32				1580	10.76197	0.8980654	7.3798	1.51404	2.6862	7.08377
10:29:32				1581	10.76292	0.8985492	7.3798	1.4652	2.63736	7.08769
10:29:33				1582	10.76579	0.8963002	7.0846	1.4652	2.63736	7.06809
10:29:33				1583	10.76674	0.8942102	7.0846	1.51404	2.73504	7.05017
10:29:34				1584	10.77342	0.8979061	7.183	1.51404	2.6862	7.08023
10:29:34	10:28:10 @ 6:00	10	180	1585	10.77247	0.8946933	7.2814	1.51404	2.6862	7.05315

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:35				1586	10.77533	0.8927655	7.183	1.4652	2.63736	7.03627
10:29:35				1587	10.78201	0.8922828	7.0846	1.4652	2.78388	7.03091
10:29:36				1588	10.78201	0.8935682	7.0846	1.51404	2.58852	7.0418
10:29:36				1589	10.78582	0.896139	7.2814	1.4652	2.6862	7.06285
10:29:37				1590	10.78296	0.8924437	7.2814	1.51404	2.58852	7.03207
10:29:37				1591	10.78582	0.8926046	7.2814	1.51404	2.49084	7.03288
10:29:38				1592	10.78582	0.8927655	7.183	1.4652	2.53968	7.03426
10:29:38				1593	10.78773	0.8908372	7.2814	1.4652	2.78388	7.01754
10:29:39				1594	10.79059	0.8906764	7.183	1.4652	2.6862	7.01564
10:29:39				1595	10.78773	0.8983878	7.183	1.51404	2.58852	7.08156
10:29:40				1596	10.77724	0.8932463	7.3798	1.51404	2.63736	7.03996
10:29:40				1597	10.77914	0.885055	7.2814	1.4652	2.58852	6.97018
10:29:41				1598	10.73041	0.8722049	6.9862	1.4652	2.58852	6.87052
10:29:41				1599	10.70081	0.8848948	6.9862	1.4652	2.78388	6.98372
10:29:42				1600	10.71895	0.8890712	7.2814	1.51404	3.02808	7.01569
10:29:42				1601	10.74759	0.8839303	7.2814	1.51404	2.78388	6.96662
10:29:43				1602	10.74187	0.8823232	7.183	1.51404	2.73504	6.95409
10:29:43				1603	10.71513	0.8657805	7.0846	1.51404	2.78388	6.81893
10:29:44				1604	10.57066	0.7870918	6.9862	1.4652	3.02808	6.17953
10:29:44				1605	10.48915	0.8932472	7.183	1.51404	3.76068	7.09549
10:29:45				1606	10.63003	0.876059	7.4781	1.51404	3.71184	6.92202
10:29:45				1607	10.67686	0.8343004	7.3798	1.51404	2.83272	6.55955
10:29:46				1608	10.47669	0.7999365	6.9862	1.51404	3.1746	6.30406
10:29:46				1609	10.38361	0.8036296	6.7895	1.4652	4.00488	6.35149
10:29:47				1610	10.38265	0.8993528	7.3798	1.51404	4.54212	7.16851
10:29:47				1611	10.62041	0.8791123	7.6749	1.51404	4.00488	6.94978
10:29:48				1612	10.61371	0.8404034	7.3798	1.51404	2.83272	6.62252
10:29:48				1613	10.45081	0.798974	6.9862	1.51404	3.32112	6.30037
10:29:49				1614	10.42486	0.8974254	7.2814	1.51404	4.20024	7.14374
10:29:49				1615	10.6185	0.8943717	7.7733	1.4652	3.9072	7.07999
10:29:50				1616	10.67591	0.8739716	7.7733	1.51404	2.6862	6.89563
10:29:50				1617	10.5764	0.8211322	7.183	1.4652	2.88156	6.46605
10:29:51				1618	10.46998	0.8574287	7.0846	1.51404	3.56532	6.7935
10:29:51				1619	10.53806	0.9028861	7.4781	1.51404	4.29792	7.16829
10:29:52				1620	10.6568	0.8852158	7.8717	1.4652	3.27228	6.99473
10:29:52				1621	10.6568	0.8640141	7.6749	1.4652	2.73504	6.81473
10:29:53				1622	10.5438	0.8349434	7.2814	1.4652	3.1746	6.58885
10:29:53				1623	10.45848	0.8301271	7.0846	1.51404	3.4188	6.56331
10:29:54				1624	10.48053	0.8807178	7.2814	1.56288	4.00488	6.99011
10:29:54				1625	10.57736	0.8646568	7.5765	1.51404	3.9072	6.83498
10:29:55				1626	10.61563	0.8432948	7.4781	1.4652	2.78388	6.64666
10:29:55				1627	10.47669	0.8074835	7.0846	1.4652	3.27228	6.36796
10:29:56				1628	10.39609	0.8052365	7.0846	1.4652	4.05372	6.36294
10:29:56				1629	10.40568	0.9006377	7.4781	1.51404	4.59096	7.175
10:29:57				1630	10.57066	0.8659402	7.6749	1.51404	3.1746	6.84713

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:29:57				1631	10.59363	0.8413669	7.4781	1.51404	2.78388	6.63431
10:29:58				1632	10.49298	0.8182418	7.183	1.4652	3.51648	6.45628
10:29:58				1633	10.46998	0.8506822	7.183	1.51404	3.85836	6.73603
10:29:59				1634	10.50166	0.8924445	7.3798	1.51404	4.05372	7.08618
10:29:59				1635	10.60224	0.8791124	7.5765	1.51404	3.61416	6.95323
10:30:00				1636	10.63194	0.8537338	7.5765	1.4652	3.1746	6.73215
10:30:00				1637	10.5898	0.8410457	7.4781	1.4652	2.88156	6.63228
10:30:01				1638	10.51029	0.8336584	7.183	1.4652	3.27228	6.58398
10:30:01				1639	10.47286	0.8736507	7.183	1.51404	3.663	6.93126
10:30:02				1640	10.53231	0.9006374	7.4781	1.51404	4.1514	7.1502
10:30:02				1641	10.62423	0.883127	7.7733	1.51404	3.07692	6.98318
10:30:03				1642	10.64724	0.8530922	7.4781	1.4652	2.73504	6.72392
10:30:03				1643	10.54859	0.8208118	7.183	1.51404	3.07692	6.46824
10:30:04				1644	10.48819	0.8890719	7.183	1.51404	3.76068	7.05999
10:30:04				1645	10.57545	0.899673	7.7733	1.4652	3.85836	7.13353
10:30:05				1646	10.63672	0.8641733	7.7733	1.51404	2.9304	6.8198
10:30:05				1647	10.52178	0.832054	7.2814	1.51404	2.83272	6.56829
10:30:06				1648	10.4949	0.8437764	7.183	1.4652	3.36996	6.67272
10:30:06				1649	10.51507	0.8628892	7.5765	1.4652	3.95604	6.83156
10:30:07				1650	10.58789	0.8556618	7.6749	1.4652	3.12576	6.7566
10:30:07				1651	10.54189	0.8455443	7.2814	1.51404	2.88156	6.67916
10:30:08				1652	10.47286	0.8281997	6.9862	1.4652	3.32112	6.54437
10:30:08				1653	10.46328	0.813104	6.8878	1.4652	3.51648	6.41797
10:30:09				1654	10.46615	0.8188841	6.8878	1.4652	4.29792	6.46649
10:30:09	10:28:45 end transect	10	270	1655	10.45177	0.7983312	6.5927	1.4652	4.29792	6.29479
10:30:10				1656	10.38553	0.7936747	6.1992	1.51404	4.20024	6.26675
10:30:10				1657	10.30962	0.769271	5.904	1.51404	4.49328	6.07271
10:30:11				1658	10.28073	0.7694317	5.8056	1.4652	4.78632	6.07889
10:30:11				1659	10.26247	0.7495248	5.6089	1.4652	5.12821	5.91322
10:30:12				1660	10.21529	0.7363616	5.2153	1.4652	4.93284	5.80941
10:30:12				1661	10.15459	0.6854837	4.8218	1.51404	5.27473	5.38908
10:30:13				1662	10.14882	0.6282016	4.7234	1.51404	6.05617	4.90898
10:30:13				1663	10.12564	0.6694366	4.6251	1.51404	5.86081	5.2582
10:30:14				1664	10.1083	0.6116795	4.4283	1.51404	5.86081	4.77626
10:30:14				1665	10.08228	0.5739857	3.9364	1.4652	6.05617	4.46536
10:30:15				1666	10.0639	0.5319691	3.6412	1.51404	6.73993	4.11909
10:30:15				1667	10.06294	0.5741461	3.6412	1.51404	7.66789	4.46909
10:30:16				1668	10.06487	0.5507317	3.6412	1.51404	8.15629	4.27435
10:30:16				1669	10.06101	0.5160972	3.4445	1.51404	7.66789	3.98833
10:30:17				1670	10.05426	0.4966973	3.0509	1.4652	8.00977	3.82927
10:30:17				1671	10.05137	0.4947738	2.8542	1.51404	8.40049	3.81377
10:30:18				1672	10.04944	0.4936518	2.8542	1.51404	8.84005	3.80474
10:30:18				1673	10.05137	0.4898051	2.7558	1.51404	8.59585	3.77293
10:30:19				1674	10.04751	0.4832318	2.3623	1.51404	8.49817	3.71936
10:30:19				1675	10.04462	0.4833928	2.0671	1.4652	8.49817	3.721

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:30:20				1676	10.04462	0.4805076	1.772	1.4652	8.64469	3.69733
10:30:20				1677	10.04365	0.4793847	1.6736	1.51404	8.79121	3.68822
10:30:21				1678	10.04365	0.4789046	1.6736	1.4652	8.59585	3.68428
10:30:21				1679	10.04172	0.478423	1.4768	1.51404	8.40049	3.68054
10:30:22				1680	10.04172	0.4790651	0.9849	1.4652	8.74237	3.68584
10:30:22				1681	10.04269	0.4808274	0.8865	1.4652	8.69353	3.7002
10:30:23				1682	10.04269	0.4795453	1.0833	1.51404	9.08425	3.68967
10:30:23				1683	10.04365	0.4458864	0.9849	1.51404	8.64469	3.4142
10:30:24				1684	10.04558	0.4789045	0.6898	1.51404	9.18193	3.68414
10:30:25				1687	10.0457	0.4787719	0.8865	2.1978	24.17582	3.68303
10:30:26				1688	10.06402	0.4778088	0.5914	1.51404	27.98535	3.6733
10:30:26				1689	10.13545	0.479573	0.6898	1.51404	28.03419	3.68054
10:30:27				1690	10.24042	0.4795728	0.5914	5.66545	7.13065	3.66997
10:30:27				1691	10.31935	0.4802136	0.5914	5.71429	7.17949	3.66727
10:30:28				1692	10.38277	0.3457732	0.6898	1.4652	2.63736	2.5812
10:30:28				1693	10.47394	0.0843078	0.5914	1.51404	2.53968	0.58347
10:30:29				1694	10.56408	0.0667259	0.6898	1.4652	2.49084	0.45629
10:30:29				1695	10.63111	0.0542602	0.6898	0	0	0.36751
10:30:30				1696	10.68755	0.052663	0.6898	0	0	0.35577
10:30:30				1697	10.743	0.0505852	0.6898	0	0	0.34075
10:30:31				1698	10.80317	0.0328485	0.6898	0	0	0.21796
10:30:31				1699	10.86329	0.0448322	0.6898	0	0	0.29981
10:30:32	10:29:14 switch off	10	90	1700	10.91187	0.0449922	0.6898	0	0	0.30054
10:33:01	10:31:30 switch on	7.5	90	7	10.09252	0.4810307	1.1817	0	0	3.69679
10:33:02				8	10.08674	0.4803894	1.1817	0	0	3.69212
10:33:02				9	10.07903	0.4815114	1.1817	0	0	3.7021
10:33:03				10	10.06746	0.4819922	1.2801	0	0	3.70722
10:33:03				11	10.06746	0.4805502	1.2801	0	0	3.69539
10:33:04				12	10.07324	0.4797485	1.1817	0	0	3.68824
10:33:04				13	10.07421	0.48087	1.1817	0	0	3.69733
10:33:05				14	10.06939	0.4816722	1.2801	0	0	3.7044
10:33:05				15	10.07131	0.4805502	1.2801	0	0	3.695
10:33:06				16	10.07035	0.4797485	1.1817	0	0	3.68853
10:33:06				17	10.07035	0.4797485	1.1817	0	0	3.68853
10:33:07				18	10.06746	0.48087	1.1817	0	0	3.69802
10:33:07				19	10.06553	0.4810307	1.2801	0	0	3.69953
10:33:08				20	10.06264	0.4799091	1.1817	0	0	3.69063
10:33:08				21	10.06264	0.4795879	1.1817	0	0	3.68799
10:33:09				22	10.06456	0.4803895	1.1817	0	0	3.69437
10:33:09				23	10.05974	0.4810307	1.2801	0	0	3.70012
10:33:10				24	10.06264	0.4803895	1.2801	0	0	3.69456
10:33:10				25	10.06264	0.4795879	1.1817	0	0	3.68799
10:33:11				26	10.06167	0.4802288	1.1817	0	0	3.69335
10:33:11				27	10.06264	0.4805502	1.1817	0	0	3.69589

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:12				28	10.06264	0.4800698	1.1817	0	0	3.69195
10:33:12				29	10.06167	0.4795879	1.2801	0	0	3.68809
10:33:13				30	10.06167	0.4803895	1.1817	0	0	3.69467
10:33:13				31	10.06071	0.4803895	1.1817	0	0	3.69476
10:33:14				32	10.05974	0.4792683	1.1817	0	0	3.68567
10:33:14				33	10.06167	0.4805502	1.2801	0	0	3.69598
10:33:15				34	10.06264	0.4803895	1.2801	0	0	3.69456
10:33:15				35	10.06456	0.4792683	1.2801	0	0	3.68517
10:33:16				36	10.06264	0.4797485	1.1817	0	0	3.68931
10:33:16				37	10.05878	0.4802288	1.1817	0	0	3.69364
10:33:17				38	10.05878	0.4792683	1.1817	0	0	3.68576
10:33:17				39	10.05589	0.4800698	1.1817	0	0	3.69263
10:33:18				40	10.05589	0.4802288	1.2801	0	0	3.69393
10:33:18				41	10.05589	0.4799091	1.2801	0	0	3.69131
10:33:19				42	10.05878	0.4789472	1.3784	0	0	3.68312
10:33:19				43	10.05782	0.4787866	1.1817	0	0	3.68191
10:33:20				44	10.05299	0.4795879	1.1817	0	0	3.68897
10:33:20				45	10.04914	0.4799091	1.2801	0	0	3.69199
10:33:21				46	10.05396	0.4791077	1.2801	0	0	3.68493
10:33:21				47	10.05492	0.4786261	1.1817	0	0	3.68089
10:33:22				48	10.05685	0.4791077	1.1817	0	0	3.68464
10:33:22				49	10.05589	0.4795879	1.2801	0	0	3.68867
10:33:23				50	10.05685	0.4791077	1.2801	0	0	3.68464
10:33:23				51	10.05589	0.4786261	1.1817	0	0	3.68079
10:33:24				52	10.05589	0.4789471	1.1817	0	0	3.68342
10:33:24				53	10.05396	0.4791077	1.2801	0	0	3.68493
10:33:25				54	10.05492	0.4787866	1.1817	0	0	3.6822
10:33:25				55	10.05396	0.4786261	1.1817	0	0	3.68098
10:33:26				56	10.05203	0.4789472	1.1817	0	0	3.68381
10:33:26				57	10.0501	0.4791077	1.2801	0	0	3.68532
10:33:27				58	10.05203	0.4791077	1.2801	0	0	3.68512
10:33:27				59	10.05299	0.4787866	1.1817	0	0	3.6824
10:33:28				60	10.05396	0.4786261	1.0833	0	0	3.68099
10:33:28				61	10.05492	0.4787866	1.1817	0	0	3.6822
10:33:29				62	10.05299	0.4789472	1.2801	0	0	3.68371
10:33:29				63	10.05299	0.4787866	1.2801	0	0	3.68239
10:33:30				64	10.05107	0.4784655	1.0833	0	0	3.67997
10:33:30				65	10.05299	0.4786261	1.1817	0	0	3.68108
10:33:31				66	10.0501	0.4787866	1.2801	0	0	3.68269
10:33:31				67	10.05203	0.4787866	1.2801	0	0	3.68249
10:33:32				68	10.05203	0.4784655	1.1817	0	0	3.67986
10:33:32				69	10.05589	0.4784655	1.1817	0	0	3.67947
10:33:33				70	10.05299	0.4786261	1.1817	0	0	3.68108
10:33:33				71	10.05492	0.4787866	1.2801	0	0	3.6822
10:33:34				72	10.05299	0.4786261	1.1817	0	0	3.68108

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:34				73	10.05396	0.4786261	1.1817	0	0	3.68098
10:33:35				74	10.05492	0.4786261	1.1817	0	0	3.68089
10:33:35				75	10.05589	0.4787866	1.2801	0	0	3.6821
10:33:36				76	10.05492	0.4789472	1.2801	0	0	3.68351
10:33:36				77	10.05492	0.4787866	1.2801	0	0	3.6822
10:33:37				78	10.05492	0.4786261	1.1817	0	0	3.68089
10:33:37				79	10.05589	0.4786261	1.1817	0	0	3.68079
10:33:38				80	10.05396	0.4787866	1.2801	0	0	3.6823
10:33:38				81	10.05492	0.4791077	1.2801	0	0	3.68483
10:33:39				82	10.05396	0.4786261	1.1817	0	0	3.68098
10:33:39				83	10.05396	0.4784655	1.1817	0	0	3.67967
10:33:40				84	10.05107	0.4786261	1.1817	0	0	3.68128
10:33:40				85	10.05203	0.4786261	1.2801	0	0	3.68117
10:33:41				86	10.05203	0.4786261	1.1817	0	0	3.68118
10:33:41				87	10.05203	0.4784655	1.1817	0	0	3.67986
10:33:42				88	10.05203	0.4786261	1.2801	0	0	3.68117
10:33:42				89	10.05107	0.4786261	1.2801	0	0	3.68127
10:33:43				90	10.05203	0.4784655	1.2801	0	0	3.67986
10:33:43				91	10.05107	0.4786261	1.2801	0	0	3.68127
10:33:44				92	10.04721	0.4786261	1.2801	0	0	3.68166
10:33:44				93	10.04914	0.4786261	1.2801	0	0	3.68147
10:33:45				94	10.05299	0.4784655	1.1817	0	0	3.67977
10:33:45				95	10.05203	0.4787866	1.1817	0	0	3.6825
10:33:46				96	10.05396	0.478305	1.2801	0.63492	0.29304	3.67835
10:33:46				97	10.04522	0.4784656	1.2801	0.39072	0.14652	3.68055
10:33:47				98	10.05396	0.478305	1.1817	1.51404	1.02564	3.67835
10:33:47				99	10.05589	0.478305	1.0833	1.51404	8.00977	3.67816
10:33:48				100	10.05396	0.478305	1.1817	1.51404	8.64469	3.67835
10:33:48				101	10.05492	0.4781462	1.2801	1.4652	8.59585	3.67695
10:33:49				102	10.05589	0.4781462	1.2801	1.4652	8.69353	3.67685
10:33:49				103	10.05396	0.478305	1.0833	1.4652	8.59585	3.67836
10:33:50				104	10.05492	0.478305	1.0833	1.4652	8.54701	3.67826
10:33:50				105	10.05492	0.478305	1.1817	1.4652	8.59585	3.67825
10:33:51				106	10.05396	0.4784655	1.2801	1.51404	8.49817	3.67966
10:33:51				107	10.05299	0.4784655	1.1817	1.51404	8.64469	3.67977
10:33:52				108	10.05203	0.478305	1.0833	1.4652	8.49817	3.67855
10:33:52				109	10.04914	0.4784655	1.1817	1.4652	9.32845	3.68016
10:33:53				110	10.05107	0.4784655	1.1817	1.51404	8.74237	3.67996
10:33:53				111	10.05107	0.478305	1.2801	1.51404	8.35165	3.67864
10:33:54				112	10.04914	0.4784655	1.1817	1.4652	8.54701	3.68016
10:33:54				113	10.0501	0.478305	1.1817	1.4652	8.49817	3.67874
10:33:55				114	10.0501	0.4784655	1.1817	1.4652	8.30281	3.68006
10:33:55				115	10.04914	0.4784655	1.2801	1.4652	8.74237	3.68015
10:33:56				116	10.04914	0.4784655	1.2801	1.4652	8.54701	3.68015
10:33:56				117	10.04914	0.4784655	1.2801	1.4652	8.64469	3.68015

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:33:57				118	10.04817	0.4784656	1.2801	1.4652	8.44933	3.68025
10:33:57				119	10.04914	0.4784655	1.2801	1.41636	8.40049	3.68015
10:33:58				120	10.05203	0.4784655	1.0833	1.51404	8.79121	3.67987
10:33:58				121	10.04914	0.4784655	1.1817	1.51404	8.40049	3.68016
10:33:59				122	10.04914	0.4784655	1.2801	1.51404	8.54701	3.68015
10:33:59				123	10.04914	0.4784655	1.1817	1.51404	8.69353	3.68016
10:34:00				124	10.0501	0.4784655	1.1817	1.4652	8.59585	3.68006
10:34:01				127	10.0492	0.4784312	1.3784	1.4652	8.64469	3.67986
10:34:02				128	10.05016	0.4784312	1.2801	1.51404	8.44933	3.67976
10:34:02				129	10.05119	0.4784311	1.1817	1.51404	8.49817	3.67967
10:34:03				130	10.05119	0.47859	1.1817	1.51404	8.54701	3.68097
10:34:03				131	10.05215	0.4784312	1.3784	1.51404	8.59585	3.67956
10:34:04				132	10.05119	0.4784311	1.2801	1.51404	8.49817	3.67966
10:34:04				133	10.05119	0.47859	1.1817	1.51404	8.49817	3.68097
10:34:05				134	10.04823	0.47859	1.1817	1.4652	8.98657	3.68127
10:34:05				135	10.04823	0.4784312	1.2801	1.4652	8.88889	3.67996
10:34:06				136	10.05016	0.47859	1.3784	1.4652	8.44933	3.68106
10:34:06				137	10.05016	0.4782706	1.1817	1.51404	8.69353	3.67845
10:34:07				138	10.04823	0.4784311	1.1817	1.4652	8.69353	3.67996
10:34:07				139	10.04727	0.4782707	1.2801	1.51404	8.59585	3.67874
10:34:08				140	10.0492	0.4782706	1.2801	1.4652	8.49817	3.67854
10:34:08				141	10.05215	0.4782706	1.0833	1.4652	8.35165	3.67826
10:34:09				142	10.05215	0.4781101	1.0833	1.4652	8.49817	3.67694
10:34:09				143	10.05016	0.4782706	1.2801	1.4652	8.64469	3.67845
10:34:10				144	10.05215	0.4781102	1.2801	1.4652	8.69353	3.67693
10:34:10				145	10.05311	0.4782706	1.1817	1.51404	8.69353	3.67815
10:34:11				146	10.05601	0.4781101	1.1817	1.4652	8.69353	3.67655
10:34:11				147	10.05601	0.4782706	1.1817	1.4652	8.74237	3.67786
10:34:12				148	10.05601	0.4782706	1.1817	1.4652	8.74237	3.67786
10:34:12				149	10.05601	0.4782706	1.1817	1.4652	8.59585	3.67786
10:34:13				150	10.05697	0.4784311	1.1817	1.51404	8.69353	3.67908
10:34:13				151	10.05504	0.47859	1.1817	1.51404	8.64469	3.68058
10:34:14				152	10.05504	0.47859	1.1817	1.51404	8.64469	3.68058
10:34:14				153	10.05408	0.4789111	1.1817	1.51404	8.69353	3.68331
10:34:15				154	10.05311	0.4793928	1.1817	1.51404	8.79121	3.68736
10:34:15				155	10.05119	0.4792323	1.2801	1.51404	8.59585	3.68623
10:34:16				156	10.05016	0.4790717	1.2801	1.51404	8.25397	3.68502
10:34:16				157	10.05215	0.47859	1.2801	1.51404	8.49817	3.68087
10:34:17				158	10.05119	0.4782706	1.1817	1.51404	8.54701	3.67835
10:34:17				159	10.05215	0.4779497	1.1817	1.51404	8.74237	3.67562
10:34:18				160	10.05311	0.4779497	1.1817	1.51404	8.69353	3.67552
10:34:18				161	10.05408	0.4784311	1.2801	1.51404	8.64469	3.67937
10:34:19				162	10.05119	0.4784311	1.2801	1.51404	8.49817	3.67966
10:34:19				163	10.05311	0.4789111	1.0833	1.51404	8.49817	3.68341
10:34:20				164	10.05504	0.4789111	1.0833	1.51404	8.44933	3.68322

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:20				165	10.05794	0.4787506	1.1817	1.51404	8.49817	3.6816
10:34:21				166	10.0589	0.4787506	1.2801	1.51404	8.64469	3.6815
10:34:21				167	10.05986	0.4787505	1.1817	1.4652	8.49817	3.68141
10:34:22				168	10.06083	0.4784311	1.1817	1.4652	8.59585	3.67869
10:34:22				169	10.05986	0.4787505	1.1817	1.4652	8.88889	3.68141
10:34:23				170	10.06083	0.47859	1.2801	1.51404	8.69353	3.67999
10:34:23	10:32:59 start transect	7.5	90	171	10.06083	0.47859	1.1817	1.51404	8.74237	3.67999
10:34:24				172	10.05794	0.47859	1.1817	1.51404	8.54701	3.68029
10:34:24				173	10.05794	0.4782706	1.0833	1.4652	8.54701	3.67767
10:34:25				174	10.05697	0.4784311	1.0833	1.4652	8.44933	3.67909
10:34:25				175	10.05504	0.4782706	1.0833	1.51404	8.59585	3.67797
10:34:26				176	10.05215	0.4779497	1.0833	1.51404	9.03541	3.67563
10:34:26				177	10.05119	0.4776288	1.0833	1.51404	8.69353	3.67309
10:34:27				178	10.05215	0.4777892	1.0833	1.4652	8.74237	3.67431
10:34:27				179	10.05408	0.4776288	1.0833	1.51404	8.69353	3.6728
10:34:28				180	10.0492	0.4774683	1.0833	1.51404	8.84005	3.67198
10:34:28				181	10.04823	0.4776288	1.0833	1.51404	8.59585	3.67339
10:34:29				182	10.05119	0.4776288	1.1817	1.4652	8.54701	3.67309
10:34:29				183	10.05215	0.4776288	1.1817	1.4652	8.74237	3.67299
10:34:30				184	10.05504	0.4777892	1.1817	1.4652	8.84005	3.67401
10:34:30				185	10.05504	0.4779497	1.2801	1.51404	8.88889	3.67532
10:34:31				186	10.05408	0.4777892	1.2801	1.4652	8.79121	3.6741
10:34:31				187	10.05311	0.4777892	1.3784	1.51404	8.74237	3.6742
10:34:32				188	10.05311	0.4777892	1.3784	1.51404	8.74237	3.6742
10:34:32				189	10.05311	0.4777892	1.3784	1.51404	8.74237	3.6742
10:34:33				190	10.05504	0.4777892	1.3784	1.51404	8.59585	3.674
10:34:33				191	10.05601	0.4777892	1.3784	1.51404	8.64469	3.6739
10:34:34				192	10.05504	0.4777892	1.3784	1.51404	8.40049	3.674
10:34:34				193	10.05504	0.4777892	1.3784	1.4652	8.69353	3.674
10:34:35				194	10.05504	0.4781102	1.3784	1.4652	8.59585	3.67663
10:34:35				195	10.05601	0.4781102	1.3784	1.51404	9.13309	3.67654
10:34:36				196	10.05408	0.4779497	1.3784	1.51404	8.79121	3.67541
10:34:36				197	10.05504	0.4779497	1.3784	1.4652	8.59585	3.67532
10:34:37				198	10.05504	0.4779497	1.3784	1.51404	8.30281	3.67532
10:34:37				199	10.05311	0.4781102	1.3784	1.51404	8.54701	3.67683
10:34:38				200	10.05119	0.4779497	1.4768	1.4652	8.79121	3.6757
10:34:38				201	10.05119	0.4779497	1.3784	1.51404	8.59585	3.67571
10:34:39				202	10.05215	0.4779497	1.3784	1.4652	8.59585	3.67561
10:34:39				203	10.0492	0.4777892	1.3784	1.4652	8.64469	3.67459
10:34:40				204	10.05016	0.47859	1.3784	1.51404	8.69353	3.68106
10:34:40				205	10.05119	0.4781102	1.3784	1.4652	8.74237	3.67702
10:34:41				206	10.0492	0.4784312	1.3784	1.4652	8.49817	3.67986
10:34:41				207	10.04823	0.4782707	1.3784	1.51404	8.88889	3.67864
10:34:42				208	10.04823	0.4782707	1.3784	1.51404	8.79121	3.67864
10:34:42				209	10.05016	0.4781102	1.3784	1.51404	8.54701	3.67713

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:34:43				210	10.05119	0.4779497	1.3784	1.51404	8.54701	3.67571
10:34:43				211	10.05215	0.4779497	1.3784	1.4652	8.88889	3.67561
10:34:44				212	10.05215	0.4779497	1.3784	1.51404	8.88889	3.67561
10:34:44				213	10.05504	0.4779497	1.3784	1.4652	8.74237	3.67532
10:34:45				214	10.05408	0.4781102	1.4768	1.4652	8.79121	3.67672
10:34:45				215	10.05601	0.4781102	1.3784	1.51404	8.59585	3.67654
10:34:46				216	10.05697	0.4782706	1.3784	1.4652	8.54701	3.67775
10:34:46				217	10.05697	0.4781101	1.3784	1.51404	8.69353	3.67644
10:34:47				218	10.05601	0.4781102	1.4768	1.4652	8.88889	3.67653
10:34:47				219	10.05601	0.4782706	1.3784	1.4652	8.54701	3.67785
10:34:48				220	10.05697	0.4784311	1.3784	1.51404	8.54701	3.67907
10:34:48				221	10.05408	0.4789111	1.3784	1.51404	8.64469	3.6833
10:34:49				222	10.0492	0.47859	1.4768	1.51404	8.79121	3.68115
10:34:49				223	10.05016	0.4782707	1.4768	1.4652	8.54701	3.67844
10:34:50				224	10.04823	0.4781102	1.4768	1.51404	8.64469	3.67731
10:34:50				225	10.04823	0.4782707	1.3784	1.4652	8.74237	3.67864
10:34:51				226	10.05119	0.4782706	1.3784	1.51404	8.59585	3.67834
10:34:51				227	10.05215	0.4782706	1.3784	1.4652	8.49817	3.67824
10:34:52				228	10.05119	0.4782706	1.3784	1.51404	8.84005	3.67834
10:34:52				229	10.05311	0.4782706	1.3784	1.51404	8.64469	3.67814
10:34:53				230	10.05408	0.4777892	1.3784	1.4652	8.84005	3.6741
10:34:53				231	10.0492	0.4782707	1.4768	1.51404	9.08425	3.67853
10:34:54				232	10.05016	0.4782707	1.3784	1.4652	8.59585	3.67844
10:34:54				233	10.04727	0.4787506	1.3784	1.51404	8.69353	3.68267
10:34:55				234	10.04341	0.4787506	1.3784	1.4652	8.49817	3.68306
10:34:55				235	10.04148	0.4789111	1.3784	1.51404	8.59585	3.68457
10:34:56				236	10.04052	0.4787506	1.4768	1.51404	8.74237	3.68335
10:34:56				237	10.04341	0.4789111	1.3784	1.4652	8.54701	3.68438
10:34:57				238	10.04341	0.4782707	1.3784	1.4652	8.79121	3.67912
10:34:57				239	10.04052	0.4781102	1.3784	1.51404	8.84005	3.6781
10:34:58				240	10.04341	0.4782707	1.3784	1.51404	8.79121	3.67912
10:34:58				241	10.04341	0.4781102	1.3784	1.51404	8.54701	3.67781
10:34:59				242	10.04534	0.4779497	1.4768	1.51404	8.84005	3.67629
10:34:59				243	10.04727	0.4777892	1.3784	1.4652	8.98657	3.67479
10:35:00				244	10.0463	0.4779497	1.3784	1.4652	8.74237	3.6762
10:35:01				247	10.04648	0.4777876	1.3784	1.4652	9.03541	3.67485
10:35:02				248	10.04552	0.4777876	1.4768	1.51404	8.54701	3.67494
10:35:02				249	10.04552	0.4777876	1.3784	1.41636	8.59585	3.67495
10:35:03				250	10.04552	0.4779481	1.3784	1.51404	8.84005	3.67626
10:35:03	10:33:39 @ 6:00	7.5	180	251	10.04745	0.478269	1.3784	1.51404	9.08425	3.6787
10:35:04				252	10.04552	0.478269	1.4768	1.51404	9.27961	3.67889
10:35:04				253	10.04456	0.4781085	1.4768	1.51404	8.69353	3.67767
10:35:05				254	10.05034	0.477948	1.3784	1.4652	8.74237	3.67578
10:35:05				255	10.05034	0.477948	1.2801	1.51404	8.79121	3.67578
10:35:06				256	10.05227	0.477948	1.4768	1.4652	8.88889	3.67558

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:06				257	10.05323	0.477948	1.4768	1.51404	8.74237	3.67548
10:35:07				258	10.05516	0.477948	1.3784	1.51404	8.84005	3.67529
10:35:07				259	10.05516	0.478269	1.3784	1.4652	8.79121	3.67792
10:35:08				260	10.05323	0.4787489	1.3784	1.51404	9.23077	3.68205
10:35:08				261	10.04938	0.478269	1.4768	1.4652	8.93773	3.6785
10:35:09				262	10.05323	0.477948	1.3784	1.51404	8.69353	3.67549
10:35:09				263	10.05323	0.4781085	1.3784	1.51404	8.69353	3.6768
10:35:10				264	10.05131	0.477948	1.4768	1.51404	8.74237	3.67567
10:35:10				265	10.05323	0.477948	1.4768	1.51404	8.74237	3.67548
10:35:11				266	10.0542	0.477948	1.3784	1.4652	8.59585	3.67539
10:35:11				267	10.05323	0.4781085	1.3784	1.51404	8.44933	3.6768
10:35:12				268	10.05323	0.4781085	1.3784	1.4652	8.79121	3.6768
10:35:12				269	10.05227	0.4781085	1.4768	1.4652	8.79121	3.67689
10:35:13				270	10.05323	0.4781085	1.3784	1.4652	8.54701	3.6768
10:35:13				271	10.05227	0.4781085	1.3784	1.4652	8.49817	3.6769
10:35:14				272	10.05034	0.4781085	1.4768	1.51404	8.64469	3.67709
10:35:14				273	10.05227	0.4781085	1.4768	1.51404	8.54701	3.67689
10:35:15				274	10.05034	0.4781085	1.3784	1.4652	8.49817	3.67709
10:35:15				275	10.05131	0.4781085	1.3784	1.51404	9.03541	3.677
10:35:16				276	10.04938	0.4781085	1.3784	1.4652	8.74237	3.67719
10:35:16				277	10.05034	0.478269	1.3784	1.51404	8.64469	3.67841
10:35:17				278	10.04841	0.4781085	1.4768	1.51404	9.13309	3.67728
10:35:17				279	10.05034	0.4781085	1.4768	1.41636	8.74237	3.67709
10:35:18				280	10.04938	0.478269	1.3784	1.51404	8.59585	3.67851
10:35:18				281	10.04938	0.478269	1.3784	1.51404	8.69353	3.67851
10:35:19				282	10.04841	0.478269	1.4768	1.4652	8.98657	3.6786
10:35:19				283	10.04938	0.478269	1.4768	1.51404	8.49817	3.6785
10:35:20				284	10.04938	0.478269	1.4768	1.4652	8.88889	3.6785
10:35:20				285	10.04841	0.478269	1.3784	1.51404	8.69353	3.67861
10:35:21				286	10.04938	0.478269	1.3784	1.51404	8.49817	3.67851
10:35:21				287	10.04938	0.4784295	1.3784	1.51404	8.84005	3.67982
10:35:22				288	10.04938	0.478269	1.4768	1.4652	8.98657	3.6785
10:35:22				289	10.05034	0.478269	1.4768	1.51404	8.40049	3.6784
10:35:23				290	10.04938	0.4781085	1.3784	1.51404	8.54701	3.67719
10:35:23				291	10.04938	0.4781085	1.2801	1.51404	8.69353	3.6772
10:35:24				292	10.05131	0.4781085	1.4768	1.4652	9.13309	3.67699
10:35:24				293	10.05034	0.478269	1.4768	1.51404	8.98657	3.6784
10:35:25				294	10.04938	0.4781085	1.4768	1.4652	8.64469	3.67719
10:35:25				295	10.05034	0.478269	1.3784	1.51404	8.74237	3.67841
10:35:26				296	10.04938	0.478269	1.3784	1.51404	8.98657	3.67851
10:35:26				297	10.04745	0.478269	1.3784	1.4652	9.47497	3.6787
10:35:27				298	10.04745	0.478269	1.4768	1.4652	9.03541	3.6787
10:35:27				299	10.04841	0.478269	1.4768	1.51404	8.79121	3.6786
10:35:28				300	10.04745	0.478269	1.2801	1.51404	8.59585	3.67871
10:35:28				301	10.04841	0.4784295	1.2801	1.4652	8.64469	3.67993

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:29				302	10.04745	0.47859	1.3784	1.4652	9.13309	3.68134
10:35:29				303	10.04745	0.4784295	1.4768	1.51404	8.74237	3.68001
10:35:30				304	10.04841	0.4789095	1.3784	1.51404	8.64469	3.68386
10:35:30				305	10.05034	0.47907	1.3784	1.4652	8.44933	3.68498
10:35:31				306	10.04841	0.47907	1.2801	1.51404	8.79121	3.68518
10:35:31				307	10.04841	0.4793912	1.3784	1.51404	8.88889	3.68781
10:35:32				308	10.05034	0.4792306	1.3784	1.4652	8.64469	3.6863
10:35:32				309	10.04745	0.4793912	1.4768	1.4652	8.74237	3.6879
10:35:33				310	10.04745	0.4798715	1.4768	1.51404	8.69353	3.69184
10:35:33				311	10.04648	0.4798715	1.4768	1.51404	8.35165	3.69194
10:35:34				312	10.04745	0.4798714	1.2801	1.51404	8.79121	3.69185
10:35:34				313	10.04841	0.4792306	1.2801	1.4652	8.64469	3.6865
10:35:35				314	10.04648	0.4795518	1.4768	1.51404	8.64469	3.68932
10:35:35				315	10.04745	0.4797108	1.4768	1.51404	8.69353	3.69052
10:35:36				316	10.04841	0.4798714	1.2801	1.4652	8.64469	3.69176
10:35:36				317	10.05131	0.4795518	1.1817	1.51404	8.59585	3.68885
10:35:37				318	10.05516	0.4808339	1.2801	1.51404	8.59585	3.69897
10:35:37				319	10.05613	0.4798714	1.2801	1.51404	8.93773	3.69097
10:35:38				320	10.05613	0.4798714	1.3784	1.4652	8.59585	3.69097
10:35:38				321	10.05516	0.4795518	1.2801	1.4652	8.49817	3.68845
10:35:39				322	10.05516	0.4797108	1.3784	1.51404	8.69353	3.68975
10:35:39				323	10.05131	0.4798714	1.3784	1.51404	8.59585	3.69146
10:35:40				324	10.05613	0.4797108	1.3784	1.4652	8.49817	3.68965
10:35:40				325	10.05516	0.4798714	1.3784	1.4652	8.79121	3.69107
10:35:41				326	10.05516	0.4797108	1.4768	1.4652	8.49817	3.68974
10:35:41				327	10.05516	0.4798714	1.4768	1.51404	8.40049	3.69106
10:35:42				328	10.05613	0.4798714	1.2801	1.51404	8.59585	3.69097
10:35:42				329	10.05613	0.4800321	1.3784	1.41636	8.74237	3.69229
10:35:43				330	10.05709	0.4800321	1.4768	1.4652	8.59585	3.69218
10:35:43	10:34:19 end transect	7.5	270	331	10.05709	0.4798714	1.4768	1.51404	8.40049	3.69086
10:35:44	reposition to 90			332	10.05709	0.4798714	1.3784	1.51404	8.98657	3.69087
10:35:44				333	10.05709	0.4798714	1.3784	1.4652	9.08425	3.69087
10:35:45				334	10.05613	0.4798714	1.3784	1.4652	8.30281	3.69097
10:35:45				335	10.05613	0.4797108	1.3784	1.56288	8.49817	3.68965
10:35:46				336	10.05709	0.4795518	1.3784	1.51404	8.49817	3.68825
10:35:46				337	10.05806	0.4797108	1.4768	1.4652	8.69353	3.68945
10:35:47				338	10.05709	0.4797108	1.4768	1.4652	8.20513	3.68955
10:35:47				339	10.05902	0.4797108	1.5752	1.51404	8.84005	3.68935
10:35:48				340	10.05806	0.4795518	1.5752	1.51404	8.44933	3.68814
10:35:48				341	10.05806	0.4793912	1.5752	1.51404	8.49817	3.68682
10:35:49				342	10.05902	0.4789095	1.6736	1.4652	8.54701	3.68277
10:35:49				343	10.05709	0.4793912	1.772	1.4652	9.23077	3.68691
10:35:50				344	10.05613	0.4797108	1.772	1.4652	8.59585	3.68963
10:35:50				345	10.05709	0.4793912	1.6736	1.51404	8.44933	3.68691
10:35:51				346	10.05709	0.4793912	1.6736	1.51404	8.54701	3.68691

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:35:51				347	10.05806	0.4793912	1.6736	1.51404	8.54701	3.68682
10:35:52				348	10.05709	0.4793912	1.772	1.4652	9.13309	3.68691
10:35:52				349	10.05709	0.4795518	1.772	1.4652	8.49817	3.68823
10:35:53				350	10.05902	0.47907	1.6736	1.51404	8.59585	3.68409
10:35:53				351	10.05709	0.47907	1.5752	1.51404	8.54701	3.68429
10:35:54				352	10.05613	0.4787489	1.5752	1.51404	8.40049	3.68175
10:35:54				353	10.05516	0.4789095	1.772	1.51404	8.44933	3.68315
10:35:55				354	10.0542	0.4789095	1.772	1.51404	8.49817	3.68325
10:35:55				355	10.0542	0.4792306	1.6736	1.4652	8.74237	3.68589
10:35:56				356	10.05516	0.4797108	1.5752	1.51404	8.59585	3.68974
10:35:56				357	10.05323	0.4795518	1.772	1.51404	9.23077	3.68862
10:35:57				358	10.05323	0.4797108	1.8703	1.51404	8.44933	3.68992
10:35:57				359	10.0542	0.4798715	1.772	1.4652	8.59585	3.69114
10:35:58				360	10.05323	0.4792306	1.5752	1.4652	8.64469	3.68599
10:35:58				361	10.05323	0.4800321	1.5752	1.51404	8.54701	3.69257
10:35:59				362	10.04938	0.4797108	1.772	1.51404	8.69353	3.69031
10:35:59				363	10.05131	0.4792306	1.8703	1.51404	8.49817	3.68617
10:36:00				364	10.05227	0.4789095	1.6736	1.51404	8.69353	3.68345
10:36:01				367	10.05131	0.4787473	1.772	1.4652	8.74237	3.68221
10:36:02				368	10.05034	0.4784279	1.772	1.51404	8.59585	3.67969
10:36:02				369	10.05227	0.4784279	1.6736	1.51404	8.59585	3.6795
10:36:03				370	10.05131	0.4789079	1.6736	1.51404	8.88889	3.68354
10:36:03				371	10.05131	0.4784279	1.6736	1.51404	8.59585	3.6796
10:36:04				372	10.05131	0.4781069	1.6736	1.51404	8.69353	3.67697
10:36:04				373	10.05131	0.4782674	1.772	1.4652	8.64469	3.67828
10:36:05				374	10.04938	0.4781069	1.772	1.4652	8.49817	3.67716
10:36:05				375	10.05131	0.4779464	1.6736	1.51404	8.98657	3.67565
10:36:06				376	10.05131	0.4779464	1.6736	1.51404	8.74237	3.67565
10:36:06				377	10.04938	0.4779464	1.6736	1.51404	8.84005	3.67585
10:36:07				378	10.04938	0.4779464	1.772	1.51404	8.98657	3.67584
10:36:07				379	10.04841	0.4779464	1.772	1.51404	8.88889	3.67594
10:36:08				380	10.05034	0.4781069	1.772	1.4652	8.64469	3.67706
10:36:08				381	10.04841	0.4781069	1.6736	1.4652	8.44933	3.67726
10:36:09				382	10.05131	0.4782674	1.6736	1.51404	8.74237	3.67828
10:36:09				383	10.05034	0.4782674	1.772	1.51404	9.23077	3.67837
10:36:10				384	10.05131	0.4782674	1.8703	1.51404	8.79121	3.67827
10:36:10				385	10.05131	0.4781069	1.772	1.51404	8.59585	3.67696
10:36:11				386	10.05034	0.4781069	1.4768	1.51404	9.47497	3.67707
10:36:11				387	10.05034	0.4781069	1.4768	1.4652	9.08425	3.67707
10:36:12				388	10.05131	0.4781069	1.8703	1.51404	9.18193	3.67696
10:36:12				389	10.05227	0.4782674	1.8703	1.51404	8.74237	3.67817
10:36:13				390	10.05131	0.4782674	1.5752	1.4652	8.88889	3.67829
10:36:13				391	10.05131	0.4784279	1.4768	1.51404	8.98657	3.67961
10:36:14				392	10.05131	0.4782674	1.6736	1.51404	10.01221	3.67828
10:36:14				393	10.05227	0.4782674	1.8703	1.51404	9.42613	3.67817

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:36:15				394	10.0542	0.4782674	1.772	1.51404	8.74237	3.67798
10:36:15				395	10.0542	0.4798698	1.3784	1.51404	8.84005	3.69115
10:36:16				396	10.05516	0.4809914	1.3784	1.51404	8.74237	3.70025
10:36:16				397	10.05709	0.479229	1.5752	1.4652	8.49817	3.68559
10:36:17				398	10.05516	0.4787473	1.5752	1.4652	8.69353	3.68183
10:36:17				399	10.0542	0.4803502	1.3784	1.4652	8.79121	3.69509
10:36:18				400	10.0542	0.4787473	1.3784	1.4652	8.64469	3.68194
10:36:18				401	10.05227	0.4790684	1.4768	1.51404	8.54701	3.68477
10:36:19				402	10.05227	0.4787473	1.4768	1.51404	8.74237	3.68213
10:36:19				403	10.05131	0.4785884	1.3784	1.51404	8.69353	3.68093
10:36:20				404	10.05034	0.4785884	1.2801	1.4652	8.59585	3.68104
10:36:20				405	10.04938	0.4785884	1.4768	1.51404	8.49817	3.68112
10:36:21				406	10.05034	0.4785884	1.5752	1.51404	8.59585	3.68102
10:36:21				407	10.04938	0.4787473	1.3784	1.4652	8.79121	3.68243
10:36:22				408	10.04841	0.4789078	1.2801	1.4652	8.79121	3.68385
10:36:22				409	10.04841	0.4789078	1.1817	1.51404	8.93773	3.68386
10:36:23				410	10.04552	0.4787473	1.3784	1.4652	8.59585	3.68282
10:36:23				411	10.04648	0.4787473	1.3784	1.51404	8.79121	3.68272
10:36:24				412	10.04552	0.4789078	1.2801	1.51404	8.88889	3.68414
10:36:24				413	10.04552	0.4787473	1.1817	1.4652	8.79121	3.68283
10:36:25				414	10.04552	0.4790684	1.3784	1.51404	8.74237	3.68546
10:36:25				415	10.04841	0.4793896	1.3784	1.51404	8.64469	3.6878
10:36:26				416	10.04841	0.4795502	1.3784	1.51404	8.84005	3.68911
10:36:26				417	10.05034	0.4795502	1.3784	1.51404	8.88889	3.68892
10:36:27				418	10.04841	0.4797092	1.3784	1.51404	8.64469	3.69042
10:36:27				419	10.04938	0.4800305	1.4768	1.51404	8.59585	3.69295
10:36:28				420	10.04938	0.4798698	1.4768	1.4652	8.64469	3.69163
10:36:28				421	10.04938	0.4800305	1.4768	1.4652	8.74237	3.69295
10:36:29				422	10.04841	0.4805109	1.4768	1.4652	8.79121	3.69699
10:36:29				423	10.04841	0.4811522	1.5752	1.4652	8.64469	3.70225
10:36:30				424	10.04745	0.4803502	1.6736	1.4652	8.44933	3.69576
10:36:30				425	10.04648	0.4803502	1.6736	1.51404	8.64469	3.69586
10:36:31				426	10.04745	0.4805109	1.4768	1.56288	8.59585	3.69709
10:36:31				427	10.05034	0.4805109	1.5752	1.51404	8.49817	3.69679
10:36:32				428	10.05034	0.4803502	1.5752	1.51404	8.59585	3.69547
10:36:32				429	10.05034	0.4803502	1.6736	1.51404	8.49817	3.69546
10:36:33				430	10.05034	0.4806716	1.6736	1.51404	8.54701	3.6981
10:36:33				431	10.05516	0.4805109	1.5752	1.51404	8.69353	3.6963
10:36:34				432	10.05806	0.4809914	1.5752	1.51404	8.69353	3.69995
10:36:34				433	10.05806	0.4808323	1.5752	1.4652	8.59585	3.69864
10:36:35				434	10.06095	0.4808323	1.6736	1.51404	8.49817	3.69834
10:36:35				435	10.06481	0.4808323	1.5752	1.4652	8.54701	3.69796
10:36:36				436	10.06481	0.4806715	1.4768	1.4652	8.64469	3.69664
10:36:36				437	10.06384	0.4806715	1.3784	1.4652	8.59585	3.69675
10:36:37				438	10.06384	0.4808323	1.4768	1.4652	8.84005	3.69806

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:36:37				439	10.06288	0.4806716	1.4768	1.4652	8.74237	3.69684
10:36:38				440	10.06384	0.4805108	1.4768	1.51404	8.54701	3.69542
10:36:38				441	10.06384	0.4805108	1.4768	1.51404	8.64469	3.69542
10:36:39				442	10.06095	0.4803501	1.4768	1.4652	8.69353	3.6944
10:36:39				443	10.05806	0.4801911	1.4768	1.51404	8.49817	3.69339
10:36:40				444	10.05902	0.4803502	1.5752	1.51404	8.59585	3.69459
10:36:40				445	10.05613	0.4800305	1.5752	1.51404	8.69353	3.69226
10:36:41				446	10.05516	0.4800305	1.4768	1.51404	8.69353	3.69236
10:36:41				447	10.0542	0.4800305	1.4768	1.51404	8.69353	3.69246
10:36:42				448	10.05227	0.4798698	1.4768	1.51404	8.69353	3.69134
10:36:42				449	10.05323	0.4798698	1.5752	1.51404	8.64469	3.69124
10:36:43				450	10.05227	0.4795502	1.4768	1.51404	8.69353	3.68872
10:36:43				451	10.05613	0.479229	1.4768	1.51404	8.79121	3.68569
10:36:44				452	10.05902	0.4793896	1.5752	1.51404	8.44933	3.68671
10:36:44				453	10.06384	0.4793896	1.772	1.51404	8.59585	3.68621
10:36:45				454	10.06191	0.479229	1.6736	1.51404	8.64469	3.6851
10:36:45				455	10.06384	0.479229	1.5752	1.51404	8.44933	3.68491
10:36:46				456	10.06288	0.4790684	1.5752	1.4652	8.74237	3.68369
10:36:46				457	10.06288	0.4790684	1.4768	1.51404	8.64469	3.68369
10:36:47				458	10.06384	0.479229	1.5752	1.4652	8.69353	3.68491
10:36:47				459	10.06095	0.4793896	1.4768	1.4652	8.59585	3.68652
10:36:48				460	10.06384	0.4793896	1.4768	1.4652	8.64469	3.68623
10:36:48				461	10.05806	0.4793896	1.4768	1.4652	8.54701	3.68681
10:36:49				462	10.05516	0.4795502	1.4768	1.51404	8.84005	3.68842
10:36:49				463	10.05516	0.4795502	1.4768	1.51404	8.64469	3.68842
10:36:50				464	10.05806	0.4797092	1.5752	1.4652	8.59585	3.68943
10:36:50				465	10.05902	0.4797092	1.5752	1.51404	8.69353	3.68933
10:36:51				466	10.05516	0.4797092	1.5752	1.51404	8.74237	3.68972
10:36:51				467	10.05034	0.4798698	1.5752	1.51404	8.74237	3.69153
10:36:52				468	10.04841	0.4840383	1.5752	1.4652	8.49817	3.72594
10:36:52				469	10.05323	0.4845182	1.5752	1.51404	8.69353	3.72938
10:36:53				470	10.05516	0.4821137	1.5752	1.51404	8.54701	3.70945
10:36:53				471	10.05227	0.4798698	1.5752	1.51404	8.49817	3.69133
10:36:54				472	10.04552	0.4797092	1.5752	1.51404	8.79121	3.6907
10:36:54				473	10.04456	0.4801911	1.4768	1.51404	8.88889	3.69476
10:36:55				474	10.04552	0.4806716	1.5752	1.51404	8.69353	3.6986
10:36:55				475	10.04841	0.4864422	1.6736	1.51404	8.64469	3.74567
10:36:56				476	10.05613	0.4827556	1.6736	1.51404	8.49817	3.71461
10:36:56				477	10.05709	0.4805109	1.5752	1.51404	8.84005	3.6961
10:36:57				478	10.05131	0.4800305	1.5752	1.51404	8.54701	3.69275
10:36:57				479	10.05131	0.4805109	1.5752	1.51404	8.54701	3.69669
10:36:58				480	10.05131	0.4805109	1.5752	1.51404	8.69353	3.69669
10:36:58				481	10.05227	0.4805109	1.5752	1.51404	8.93773	3.69659
10:36:59				482	10.05323	0.4806716	1.5752	1.51404	8.25397	3.69781
10:36:59				483	10.05516	0.4806716	1.5752	1.51404	8.30281	3.69762

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:00				484	10.05806	0.4806716	1.6736	1.51404	8.59585	3.69732
10:37:01				487	10.05522	0.4809881	1.6736	1.51404	8.49817	3.7002
10:37:02				488	10.05812	0.4809881	1.6736	1.51404	8.64469	3.69991
10:37:02				489	10.05908	0.4809881	1.6736	1.51404	8.44933	3.69981
10:37:03				490	10.06005	0.4809881	1.6736	1.51404	8.64469	3.69971
10:37:03				491	10.05908	0.4808274	1.772	1.51404	8.79121	3.69849
10:37:04				492	10.06197	0.4808274	1.6736	1.4652	8.54701	3.6982
10:37:04				493	10.06101	0.4809881	1.6736	1.51404	8.59585	3.69961
10:37:05				494	10.05812	0.4809881	1.6736	1.51404	9.13309	3.69991
10:37:05				495	10.05522	0.4808274	1.6736	1.51404	8.79121	3.69888
10:37:06				496	10.05908	0.4808274	1.6736	1.51404	8.54701	3.69849
10:37:06				497	10.06101	0.4808274	1.6736	1.51404	8.64469	3.6983
10:37:07				498	10.06294	0.4806666	1.6736	1.4652	8.74237	3.69678
10:37:07				499	10.06101	0.4808274	1.6736	1.51404	8.69353	3.6983
10:37:08				500	10.05908	0.4811489	1.5752	1.51404	8.79121	3.70114
10:37:08				501	10.06679	0.4811488	1.5752	1.51404	8.49817	3.70035
10:37:09				502	10.06872	0.481308	1.4768	1.51404	8.59585	3.70147
10:37:09				503	10.06975	0.481308	1.4768	1.51404	8.54701	3.70136
10:37:10				504	10.06975	0.4814687	1.4768	1.51404	8.69353	3.70268
10:37:10				505	10.07071	0.4816295	1.4768	1.51404	8.69353	3.7039
10:37:11				506	10.07168	0.4816295	1.4768	1.51404	8.64469	3.7038
10:37:11				507	10.07264	0.4817887	1.4768	1.51404	8.64469	3.70501
10:37:12				508	10.07264	0.4819495	1.4768	1.51404	8.88889	3.70633
10:37:12				509	10.07071	0.4816295	1.4768	1.51404	8.64469	3.7039
10:37:13				510	10.07071	0.4817887	1.4768	1.51404	8.44933	3.70521
10:37:13				511	10.06872	0.4811488	1.4768	1.51404	8.49817	3.70016
10:37:14				512	10.06776	0.4811488	1.4768	1.51404	8.49817	3.70026
10:37:14				513	10.06487	0.4814687	1.4768	1.4652	8.69353	3.70318
10:37:15				514	10.06487	0.481308	1.3784	1.51404	8.64469	3.70186
10:37:15				515	10.06197	0.4809881	1.3784	1.51404	8.59585	3.69953
10:37:16				516	10.05619	0.4805076	1.3784	1.51404	8.93773	3.69618
10:37:16				517	10.05715	0.4803469	1.3784	1.51404	8.84005	3.69476
10:37:17				518	10.06294	0.4797059	1.3784	1.51404	8.69353	3.68892
10:37:17				519	10.06583	0.4790651	1.3784	1.51404	8.64469	3.68337
10:37:18				520	10.06583	0.4785835	1.3784	1.51404	8.54701	3.67942
10:37:18				521	10.06294	0.4792241	1.4768	1.51404	8.59585	3.68496
10:37:19				522	10.06294	0.4790651	1.4768	1.51404	8.44933	3.68366
10:37:19				523	10.06294	0.4795453	1.5752	1.51404	8.49817	3.68759
10:37:20				524	10.06294	0.4798665	1.3784	1.51404	8.54701	3.69024
10:37:20				525	10.06487	0.4803469	1.3784	1.51404	8.35165	3.69398
10:37:21				526	10.06294	0.4798665	1.3784	1.51404	8.64469	3.69024
10:37:21				527	10.06005	0.4798665	1.4768	1.51404	8.54701	3.69052
10:37:22				528	10.05908	0.4797059	1.4768	1.51404	8.54701	3.6893
10:37:22				529	10.05908	0.4795453	1.4768	1.51404	8.69353	3.68799
10:37:23				530	10.05908	0.4797059	1.5752	1.51404	8.59585	3.6893

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:23				531	10.05908	0.4797059	1.6736	1.51404	8.30281	3.68929
10:37:24				532	10.05908	0.4797059	1.772	1.51404	8.74237	3.68929
10:37:24				533	10.05908	0.4795453	1.772	1.4652	8.64469	3.68797
10:37:25				534	10.05715	0.4795453	1.6736	1.51404	8.35165	3.68817
10:37:25				535	10.05619	0.4795453	1.6736	1.51404	8.30281	3.68827
10:37:26				536	10.05715	0.4793847	1.772	1.4652	8.59585	3.68685
10:37:26				537	10.05619	0.4793847	1.8703	1.4652	8.69353	3.68694
10:37:27				538	10.05715	0.4795453	1.9687	1.51404	8.59585	3.68815
10:37:27				539	10.05812	0.4798665	1.8703	1.4652	8.54701	3.6907
10:37:28				540	10.05908	0.4827506	1.9687	1.51404	8.93773	3.71425
10:37:28				541	10.06487	0.4859569	2.1655	1.4652	8.93773	3.73997
10:37:29				542	10.07457	0.4830725	2.4606	1.4652	8.54701	3.71529
10:37:29				543	10.0765	0.4835521	2.3623	1.51404	8.30281	3.71903
10:37:30				544	10.0765	0.4808274	2.3623	1.51404	8.49817	3.69668
10:37:30				545	10.0765	0.4845149	2.3623	1.4652	8.88889	3.72693
10:37:31				546	10.0736	0.4832318	2.3623	1.51404	8.59585	3.7167
10:37:31				547	10.06872	0.4837131	2.4606	1.51404	8.49817	3.72114
10:37:32				548	10.06776	0.4840334	2.559	1.51404	8.54701	3.72386
10:37:32				549	10.07071	0.4854766	2.559	1.51404	8.44933	3.7354
10:37:33				550	10.06776	0.4848354	2.4606	1.51404	8.44933	3.73045
10:37:33				551	10.06872	0.4898051	2.4606	1.51404	8.49817	3.77115
10:37:34				552	10.0765	0.4923686	2.559	1.51404	8.88889	3.79139
10:37:34				553	10.08228	0.4872403	2.6574	1.51404	8.74237	3.74868
10:37:35				554	10.08132	0.4886829	2.6574	1.51404	8.54701	3.76062
10:37:35				555	10.07746	0.4883616	2.559	1.51404	8.44933	3.75839
10:37:36				556	10.07842	0.4925304	2.559	1.51404	8.69353	3.79252
10:37:36				557	10.08421	0.4902848	2.559	1.51404	8.35165	3.77348
10:37:37				558	10.08517	0.4859569	2.6574	1.51404	8.44933	3.73785
10:37:37				559	10.07939	0.4861181	2.559	1.51404	8.44933	3.73977
10:37:38				560	10.07939	0.4856361	2.559	1.51404	8.30281	3.73582
10:37:38				561	10.07553	0.4805076	2.559	1.51404	8.49817	3.69415
10:37:39				562	10.07457	0.5010264	2.6574	1.4652	8.49817	3.86276
10:37:39				563	10.0871	0.493171	2.7558	1.51404	8.35165	3.79687
10:37:40				564	10.09577	0.4907663	2.7558	1.51404	8.15629	3.77622
10:37:40				565	10.08421	0.4922084	2.7558	1.4652	8.10745	3.78926
10:37:41				566	10.0871	0.4928507	2.7558	1.51404	8.30281	3.79423
10:37:41				567	10.08903	0.4933312	2.8542	1.51404	8.69353	3.79797
10:37:42				568	10.09192	0.4901249	2.8542	1.4652	8.44933	3.77135
10:37:42				569	10.08999	0.4910864	2.8542	1.51404	8.20513	3.77944
10:37:43				570	10.08806	0.4928507	2.8542	1.51404	8.30281	3.79413
10:37:43				571	10.08999	0.4912464	2.8542	1.4652	8.30281	3.78075
10:37:44				572	10.08806	0.5048738	2.8542	1.51404	8.69353	3.89297
10:37:44				573	10.10348	0.5124095	2.8542	1.51404	8.54701	3.95334
10:37:45				574	10.12082	0.5042322	2.9526	1.51404	8.44933	3.88419
10:37:45				575	10.12082	0.5043934	2.8542	1.56288	8.00977	3.88552

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:37:46				576	10.11793	0.4939722	2.7558	1.51404	8.35165	3.80023
10:37:46				577	10.10926	0.5093625	2.7558	1.51404	8.84005	3.92764
10:37:47				578	10.12179	0.5040727	2.9526	1.51404	8.25397	3.88277
10:37:47				579	10.12082	0.5013465	2.9526	1.51404	8.00977	3.86047
10:37:48				580	10.11023	0.4920483	2.7558	1.51404	8.20513	3.78524
10:37:48				581	10.10445	0.5039115	2.6574	1.51404	8.44933	3.88331
10:37:49				582	10.09866	0.5000645	2.8542	1.4652	8.54701	3.85229
10:37:49	10:36:25 start transect	7.5	90	583	10.10734	0.4981407	3.0509	1.51404	8.15629	3.83555
10:37:50				584	10.10252	0.4962174	2.8542	1.51404	8.00977	3.82027
10:37:50				585	10.10059	0.4920483	2.7558	1.4652	8.25397	3.78624
10:37:51				586	10.09866	0.4888426	2.7558	1.51404	8.44933	3.76013
10:37:51				587	10.09288	0.4949341	2.7558	1.51404	8.44933	3.81074
10:37:52				588	10.09674	0.4963762	2.7558	1.4652	8.30281	3.82219
10:37:52				589	10.09963	0.495736	2.7558	1.51404	8.25397	3.81662
10:37:53				590	10.09674	0.4934914	2.7558	1.51404	8.35165	3.79849
10:37:53				591	10.09963	0.4928506	2.8542	1.4652	8.30281	3.79292
10:37:54				592	10.09674	0.4915681	2.7558	1.51404	8.44933	3.7827
10:37:54				593	10.09481	0.4907664	2.7558	1.51404	8.54701	3.77632
10:37:55				594	10.09288	0.4950944	2.7558	1.51404	8.40049	3.81206
10:37:55				595	10.0977	0.4942928	2.8542	1.51404	8.40049	3.80497
10:37:56				596	10.09481	0.4944531	2.8542	1.51404	8.35165	3.80659
10:37:56				597	10.09674	0.5019887	2.8542	1.51404	8.25397	3.86831
10:37:57				598	10.11215	0.5026294	2.8542	1.51404	8.20513	3.87194
10:37:57				599	10.10637	0.5002237	2.8542	1.51404	8.35165	3.85278
10:37:58				600	10.10445	0.5183414	2.7558	1.51404	8.25397	4.00211
10:37:58				601	10.11408	0.5186612	2.8542	1.51404	7.86325	4.00368
10:37:59				602	10.11793	0.5138523	2.8542	1.4652	8.15629	3.96365
10:37:59				603	10.1189	0.5112865	2.8542	1.51404	8.20513	3.94242
10:38:00				604	10.12082	0.5130506	2.8542	1.51404	8.30281	3.95674
10:38:01				607	10.12275	0.5130523	2.8542	1.51404	7.91209	3.95654
10:38:02				608	10.11986	0.5106477	2.8542	1.51404	7.81441	3.93706
10:38:02				609	10.11793	0.5154566	2.7558	1.56288	8.05861	3.97687
10:38:03				610	10.11793	0.5159382	2.7558	1.56288	8.25397	3.98083
10:38:03				611	10.1189	0.5098458	2.8542	1.51404	8.15629	3.93057
10:38:04				612	10.11697	0.5064786	2.8542	1.51404	8.30281	3.90308
10:38:04				613	10.11408	0.5117703	2.7558	1.51404	8.05861	3.94693
10:38:05				614	10.11601	0.5140143	2.8542	1.51404	8.20513	3.96519
10:38:05				615	10.11697	0.5111128	2.8542	1.51404	8.00977	3.94133
10:38:06				616	10.11504	0.5132126	2.8542	1.4652	7.91209	3.9587
10:38:06				617	10.11504	0.5144955	2.8542	1.51404	7.81441	3.96926
10:38:07				618	10.11504	0.512892	2.8542	1.51404	7.86325	3.95606
10:38:07				619	10.11312	0.5084029	2.8542	1.4652	7.76557	3.91932
10:38:08				620	10.11215	0.5069595	2.8542	1.51404	7.81441	3.90755
10:38:08				621	10.10728	0.494615	2.8542	1.51404	7.81441	3.80661
10:38:09				622	10.09378	0.4928523	2.7558	1.51404	8.15629	3.79355

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:09				623	10.08511	0.49654	2.8542	1.51404	8.30281	3.82475
10:38:10				624	10.08704	0.4984637	2.8542	1.51404	8.40049	3.84036
10:38:10				625	10.08607	0.4957377	2.8542	1.51404	8.15629	3.81805
10:38:11				626	10.08511	0.496219	2.8542	1.51404	8.20513	3.82211
10:38:11				627	10.08607	0.4952565	2.7558	1.51404	8.05861	3.8141
10:38:12				628	10.08415	0.4950961	2.7558	1.51404	8.44933	3.81299
10:38:12				629	10.08607	0.4891656	2.8542	1.51404	8.35165	3.76408
10:38:13				630	10.08415	0.4904481	2.8542	1.4652	8.10745	3.77481
10:38:13				631	10.0774	0.4890041	2.7558	1.51404	8.44933	3.76366
10:38:14				632	10.07354	0.4837147	2.7558	1.51404	8.44933	3.72064
10:38:14				633	10.07354	0.4840351	2.7558	1.4652	8.49817	3.72327
10:38:15				634	10.07354	0.4843555	2.8542	1.51404	8.40049	3.72589
10:38:15				635	10.07354	0.4843555	2.8542	1.51404	8.59585	3.72589
10:38:16				636	10.07258	0.4862793	2.7558	1.4652	8.40049	3.74179
10:38:16				637	10.07258	0.4874017	2.7558	1.56288	8.59585	3.751
10:38:17				638	10.07161	0.4904481	2.8542	1.51404	8.49817	3.77611
10:38:17				639	10.07354	0.4874017	2.8542	1.51404	8.44933	3.75089
10:38:18				640	10.07258	0.4867614	2.8542	1.51404	8.64469	3.74574
10:38:18				641	10.07258	0.4845166	2.7558	1.51404	8.54701	3.72732
10:38:19				642	10.07258	0.4849965	2.7558	1.51404	8.74237	3.73126
10:38:19				643	10.07354	0.4851577	2.8542	1.4652	8.69353	3.73248
10:38:20				644	10.07354	0.4841961	2.8542	1.4652	8.64469	3.72459
10:38:20				645	10.07161	0.4849966	2.8542	1.4652	8.44933	3.73135
10:38:21				646	10.07258	0.4849965	2.7558	1.51404	8.49817	3.73126
10:38:21				647	10.07354	0.4859585	2.8542	1.4652	8.88889	3.73905
10:38:22				648	10.07354	0.484676	2.8542	1.51404	8.30281	3.72852
10:38:22				649	10.07354	0.4856378	2.8542	1.51404	8.49817	3.73642
10:38:23				650	10.07161	0.4853172	2.8542	1.51404	8.44933	3.73398
10:38:23				651	10.07258	0.4838757	2.7558	1.51404	8.74237	3.72206
10:38:24				652	10.07258	0.4840351	2.8542	1.51404	8.84005	3.72336
10:38:24				653	10.07161	0.4833944	2.8542	1.51404	8.49817	3.71821
10:38:25				654	10.07161	0.4835554	2.8542	1.51404	8.44933	3.71953
10:38:25				655	10.07065	0.4833944	2.8542	1.4652	8.35165	3.7183
10:38:26				656	10.07065	0.4832334	2.8542	1.51404	8.44933	3.71698
10:38:26				657	10.06969	0.4832334	2.8542	1.51404	8.30281	3.71708
10:38:27				658	10.07161	0.4832334	2.8542	1.4652	8.25397	3.71689
10:38:27	10:37:03 @ 6:00	7.5	180	659	10.06969	0.4833944	2.8542	1.51404	8.25397	3.7184
10:38:28				660	10.06969	0.4832334	2.8542	1.51404	8.44933	3.71708
10:38:28				661	10.07065	0.4837147	2.8542	1.51404	8.49817	3.72093
10:38:29				662	10.07065	0.4843555	2.7558	1.51404	8.49817	3.7262
10:38:29				663	10.07161	0.4841961	2.8542	1.51404	8.49817	3.72478
10:38:30				664	10.07161	0.4841961	2.8542	1.51404	9.03541	3.72478
10:38:30				665	10.07065	0.4840351	2.8542	1.51404	8.40049	3.72356
10:38:31				666	10.07161	0.4837147	2.8542	1.51404	8.59585	3.72083
10:38:31				667	10.06969	0.4830741	2.8542	1.4652	8.49817	3.71578

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:32				668	10.06969	0.4829132	2.8542	1.51404	8.98657	3.71446
10:38:32				669	10.06969	0.4841961	2.8542	1.4652	8.49817	3.72498
10:38:33				670	10.06776	0.4840351	2.8542	1.4652	8.79121	3.72386
10:38:33				671	10.06583	0.4848371	2.8542	1.51404	8.88889	3.73064
10:38:34				672	10.0639	0.4837147	2.8542	1.51404	8.74237	3.72162
10:38:34				673	10.06101	0.4837147	2.8542	1.51404	8.49817	3.72192
10:38:35				674	10.06005	0.4841961	2.8542	1.51404	8.35165	3.72597
10:38:35				675	10.05812	0.4837147	2.8542	1.51404	8.59585	3.72221
10:38:36				676	10.05812	0.4822729	2.7558	1.51404	8.44933	3.71039
10:38:36				677	10.05812	0.4821121	2.8542	1.4652	8.59585	3.70906
10:38:37				678	10.05812	0.4824322	2.9526	1.4652	8.59585	3.71168
10:38:37				679	10.05715	0.4824322	2.8542	1.51404	8.69353	3.71179
10:38:38				680	10.05812	0.4851577	2.7558	1.4652	8.54701	3.73406
10:38:38				681	10.05908	0.4862793	2.8542	1.51404	8.88889	3.74317
10:38:39				682	10.0639	0.4853172	2.9526	1.51404	8.84005	3.73477
10:38:39				683	10.06487	0.4851577	2.8542	1.51404	8.35165	3.73337
10:38:40				684	10.06487	0.4845166	2.7558	1.51404	8.64469	3.72811
10:38:40				685	10.06197	0.484676	2.7558	1.51404	8.74237	3.72971
10:38:41				686	10.06101	0.4840351	2.8542	1.51404	8.93773	3.72455
10:38:41				687	10.06294	0.4853172	2.9526	1.51404	8.44933	3.73487
10:38:42				688	10.06487	0.4849966	2.8542	1.4652	8.59585	3.73204
10:38:42				689	10.06776	0.4862793	2.8542	1.4652	8.40049	3.74227
10:38:43				690	10.06776	0.4861197	2.8542	1.51404	8.49817	3.74097
10:38:43				691	10.06679	0.4859585	2.8542	1.4652	8.49817	3.73974
10:38:44				692	10.06776	0.4853172	2.8542	1.51404	8.49817	3.73438
10:38:44				693	10.06679	0.4853172	2.8542	1.51404	8.30281	3.73448
10:38:45				694	10.06487	0.4853172	2.8542	1.51404	8.54701	3.73467
10:38:45				695	10.0639	0.4822729	2.8542	1.51404	8.79121	3.70979
10:38:46				696	10.06101	0.4830742	2.8542	1.4652	8.93773	3.71666
10:38:46				697	10.06101	0.4833944	2.9526	1.51404	8.59585	3.71928
10:38:47				698	10.06197	0.4833944	2.8542	1.51404	8.59585	3.71919
10:38:47				699	10.06197	0.4825931	2.7558	1.4652	8.40049	3.71262
10:38:48				700	10.0639	0.4817921	2.8542	1.51404	8.30281	3.70585
10:38:48				701	10.06101	0.4817921	2.9526	1.56288	8.69353	3.70614
10:38:49				702	10.06005	0.4824322	2.9526	1.51404	8.59585	3.71149
10:38:49				703	10.06101	0.4821121	2.8542	1.51404	8.15629	3.70877
10:38:50				704	10.06101	0.4817921	2.8542	1.51404	8.35165	3.70614
10:38:50				705	10.06101	0.4798682	2.7558	1.4652	8.54701	3.69037
10:38:51				706	10.06101	0.4798682	2.8542	1.51404	8.98657	3.69036
10:38:51				707	10.06197	0.4805093	2.8542	1.4652	8.30281	3.69552
10:38:52				708	10.06101	0.4803486	2.8542	1.51404	8.44933	3.6943
10:38:52				709	10.06197	0.4805093	2.7558	1.51404	8.59585	3.69553
10:38:53				710	10.06197	0.4803486	2.6574	1.4652	8.49817	3.69422
10:38:53				711	10.06197	0.4803486	2.9526	1.51404	8.98657	3.6942
10:38:54				712	10.06197	0.4801879	3.0509	1.51404	8.98657	3.69287

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:38:54				713	10.0639	0.4801879	2.6574	1.56288	8.54701	3.6927
10:38:55				714	10.06294	0.4805092	2.4606	1.51404	8.59585	3.69545
10:38:55				715	10.06583	0.4803486	2.6574	1.51404	9.08425	3.69382
10:38:56				716	10.06583	0.4803486	2.9526	1.51404	9.03541	3.69381
10:38:56				717	10.06487	0.4801879	3.0509	1.51404	8.49817	3.69258
10:38:57				718	10.06583	0.4801879	2.7558	1.4652	8.40049	3.6925
10:38:57				719	10.06583	0.4798682	2.6574	1.51404	8.44933	3.68988
10:38:58				720	10.06487	0.4798682	2.6574	1.51404	8.59585	3.68998
10:38:58				721	10.06487	0.4801879	2.8542	1.51404	8.74237	3.69259
10:38:59				722	10.0639	0.4801879	2.9526	1.51404	8.40049	3.69268
10:38:59				723	10.06487	0.4800272	2.8542	1.51404	8.25397	3.69128
10:39:00				724	10.06294	0.4798682	2.8542	1.4652	8.40049	3.69017
10:39:01				727	10.06288	0.4816362	2.9526	1.51404	9.13309	3.70467
10:39:02				728	10.06384	0.4816362	3.0509	1.51404	8.74237	3.70456
10:39:02				729	10.06384	0.4816362	2.8542	1.51404	8.64469	3.70458
10:39:03				730	10.06384	0.4819562	2.7558	1.51404	8.69353	3.70721
10:39:03				731	10.06384	0.482117	2.7558	1.51404	8.79121	3.70853
10:39:04				732	10.06384	0.482598	2.8542	1.51404	8.64469	3.71247
10:39:04				733	10.06384	0.4822779	2.9526	1.51404	8.79121	3.70983
10:39:05				734	10.06288	0.482598	2.8542	1.4652	8.40049	3.71256
10:39:05				735	10.06288	0.4822779	2.6574	1.4652	8.44933	3.70995
10:39:06				736	10.06384	0.4797125	2.559	1.51404	8.44933	3.68881
10:39:06				737	10.06384	0.4801928	2.6574	1.4652	8.88889	3.69275
10:39:07				738	10.06481	0.4798731	2.6574	1.51404	8.59585	3.69003
10:39:07				739	10.06481	0.4800338	2.6574	1.51404	8.59585	3.69135
10:39:08				740	10.06866	0.4809947	2.7558	1.51404	8.59585	3.69883
10:39:08				741	10.07059	0.4809947	2.8542	1.51404	8.59585	3.69863
10:39:09				742	10.07354	0.4811554	2.7558	1.51404	8.49817	3.69965
10:39:09				743	10.07547	0.4814754	2.7558	1.4652	8.40049	3.70208
10:39:10				744	10.07547	0.4814754	2.8542	1.4652	8.64469	3.70207
10:39:10				745	10.07547	0.4813162	2.8542	1.4652	8.59585	3.70077
10:39:11				746	10.07547	0.4809947	2.7558	1.51404	8.54701	3.69814
10:39:11				747	10.07451	0.4813162	2.7558	1.51404	8.79121	3.70087
10:39:12				748	10.07258	0.4809947	2.8542	1.51404	8.64469	3.69843
10:39:12				749	10.07547	0.4808356	2.7558	1.51404	8.40049	3.69683
10:39:13				750	10.07354	0.4806749	2.6574	1.51404	8.20513	3.69572
10:39:13				751	10.07258	0.4806749	2.8542	1.51404	8.93773	3.6958
10:39:14				752	10.07059	0.4805142	2.9526	1.51404	8.59585	3.69468
10:39:14	10:37:50 end transect	7.5	270	753	10.07258	0.4803535	2.8542	1.4652	8.35165	3.69317
10:39:15	reposition to 90			754	10.07059	0.4803535	2.7558	1.51404	8.44933	3.69338
10:39:15				755	10.07155	0.4806749	2.7558	1.51404	8.69353	3.69591
10:39:16				756	10.07258	0.4805142	2.9526	1.51404	8.84005	3.69448
10:39:16				757	10.07258	0.4801928	2.9526	1.51404	8.59585	3.69185
10:39:17				758	10.07155	0.4798731	2.6574	1.51404	8.49817	3.68934
10:39:17				759	10.06963	0.4795519	2.7558	1.51404	8.69353	3.6869

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:18				760	10.0677	0.4797125	2.8542	1.51404	9.13309	3.68841
10:39:18				761	10.0677	0.4797125	2.9526	1.4652	8.44933	3.6884
10:39:19				762	10.06963	0.4800338	2.8542	1.4652	8.44933	3.69085
10:39:19				763	10.06866	0.4801928	2.7558	1.4652	8.54701	3.69225
10:39:20				764	10.06866	0.4803535	2.7558	1.4652	8.64469	3.69357
10:39:20				765	10.06963	0.4800338	2.8542	1.51404	8.93773	3.69085
10:39:21				766	10.06866	0.4801928	2.8542	1.51404	8.59585	3.69225
10:39:21				767	10.0677	0.4806749	2.7558	1.51404	8.54701	3.6963
10:39:22				768	10.06577	0.4808356	2.7558	1.51404	8.44933	3.69782
10:39:22				769	10.06481	0.4806749	2.8542	1.4652	8.69353	3.69659
10:39:23				770	10.06577	0.4808356	2.8542	1.51404	8.35165	3.69781
10:39:23				771	10.06481	0.4808356	2.7558	1.51404	8.69353	3.69792
10:39:24				772	10.06577	0.4808356	2.8542	1.4652	8.64469	3.69781
10:39:24				773	10.06673	0.4808356	2.8542	1.51404	8.44933	3.69772
10:39:25				774	10.06577	0.4809947	2.7558	1.51404	8.49817	3.69912
10:39:25				775	10.06577	0.4808356	2.6574	1.51404	8.44933	3.69782
10:39:26				776	10.06481	0.4806749	2.8542	1.51404	8.64469	3.69659
10:39:26				777	10.06191	0.4809947	2.8542	1.4652	8.49817	3.69951
10:39:27				778	10.06191	0.4809947	2.7558	1.4652	8.69353	3.69952
10:39:27				779	10.06384	0.4801928	2.6574	1.51404	8.93773	3.69275
10:39:28				780	10.06481	0.4803535	2.8542	1.51404	8.79121	3.69396
10:39:28				781	10.06481	0.4803535	2.9526	1.51404	8.44933	3.69395
10:39:29				782	10.06673	0.4806749	2.8542	1.51404	8.74237	3.6964
10:39:29				783	10.06577	0.4805142	2.7558	1.51404	8.74237	3.69518
10:39:30				784	10.06577	0.4805142	2.7558	1.51404	8.98657	3.69518
10:39:30				785	10.06577	0.4805142	2.9526	1.4652	8.74237	3.69517
10:39:31				786	10.06481	0.4805142	2.8542	1.51404	8.98657	3.69527
10:39:31				787	10.06481	0.4803535	2.7558	1.51404	8.59585	3.69396
10:39:32				788	10.06673	0.4801928	2.7558	1.4652	8.74237	3.69245
10:39:32				789	10.06577	0.4801928	2.8542	1.51404	8.54701	3.69254
10:39:33				790	10.06481	0.4803535	2.8542	1.51404	8.49817	3.69396
10:39:33				791	10.06673	0.4803535	2.8542	1.51404	8.49817	3.69376
10:39:34				792	10.06577	0.4808356	2.7558	1.51404	8.64469	3.69782
10:39:34				793	10.06577	0.4809947	2.7558	1.51404	8.59585	3.69912
10:39:35				794	10.06481	0.4809947	2.7558	1.4652	8.74237	3.69922
10:39:35				795	10.06481	0.4809947	2.7558	1.51404	8.59585	3.69922
10:39:36				796	10.06481	0.4811555	2.7558	1.4652	8.59585	3.70054
10:39:36				797	10.06673	0.4809947	2.7558	1.51404	8.59585	3.69903
10:39:37				798	10.06577	0.4809947	2.8542	1.51404	8.49817	3.69912
10:39:37				799	10.06481	0.4809947	2.7558	1.51404	8.64469	3.69922
10:39:38				800	10.06481	0.4808356	2.8542	1.51404	8.88889	3.69791
10:39:38				801	10.06288	0.4809947	2.8542	1.4652	8.40049	3.69941
10:39:39				802	10.06481	0.4809947	2.8542	1.51404	8.54701	3.69922
10:39:39				803	10.06384	0.4811555	2.8542	1.51404	8.59585	3.70063
10:39:40				804	10.06481	0.4811555	2.7558	1.4652	8.44933	3.70054

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:39:40				805	10.06384	0.4811555	2.8542	1.51404	8.49817	3.70063
10:39:41				806	10.06577	0.4811555	2.9526	1.51404	8.44933	3.70043
10:39:41				807	10.06577	0.4811555	2.8542	1.51404	8.40049	3.70044
10:39:42				808	10.06481	0.4811555	2.7558	1.51404	8.69353	3.70054
10:39:42				809	10.06481	0.4813162	2.6574	1.51404	8.35165	3.70186
10:39:43				810	10.06384	0.4819562	2.7558	1.4652	8.30281	3.70721
10:39:43				811	10.06577	0.4816362	2.7558	1.51404	8.40049	3.70438
10:39:44				812	10.06577	0.4814754	2.7558	1.4652	8.30281	3.70307
10:39:44				813	10.06481	0.481797	2.6574	1.51404	8.20513	3.70581
10:39:45				814	10.06673	0.482117	2.6574	1.51404	8.59585	3.70824
10:39:45				815	10.06866	0.481797	2.6574	1.51404	8.49817	3.70542
10:39:46				816	10.0677	0.4819562	2.559	1.51404	8.49817	3.70682
10:39:46				817	10.0677	0.4822778	2.4606	1.4652	8.84005	3.70947
10:39:47				818	10.06963	0.482117	2.559	1.51404	8.64469	3.70795
10:39:47				819	10.07155	0.482598	2.559	1.51404	8.79121	3.7117
10:39:48				820	10.07059	0.482598	2.559	1.4652	8.88889	3.71179
10:39:48				821	10.07059	0.4827589	2.559	1.51404	8.64469	3.71311
10:39:49				822	10.07354	0.4829181	2.559	1.51404	8.49817	3.71412
10:39:49				823	10.07547	0.483079	2.559	1.51404	8.88889	3.71524
10:39:50				824	10.07547	0.4829181	2.7558	1.51404	8.35165	3.71391
10:39:50				825	10.07547	0.4830791	2.7558	1.51404	8.40049	3.71523
10:39:51				826	10.07547	0.4830791	2.6574	1.4652	8.54701	3.71524
10:39:51				827	10.07644	0.4833993	2.559	1.4652	8.69353	3.71777
10:39:52				828	10.07547	0.4833993	2.7558	1.4652	8.59585	3.71786
10:39:52				829	10.07644	0.4835603	2.8542	1.51404	8.69353	3.71907
10:39:53				830	10.07547	0.4835603	2.7558	1.51404	8.59585	3.71918
10:39:53				831	10.07644	0.4833993	2.559	1.51404	8.59585	3.71777
10:39:54				832	10.07547	0.4830791	2.6574	1.51404	8.44933	3.71524
10:39:54				833	10.07547	0.4833993	2.7558	1.4652	8.25397	3.71786
10:39:55				834	10.07644	0.484201	2.7558	1.51404	8.49817	3.72434
10:39:55				835	10.07836	0.484201	2.559	1.4652	8.74237	3.72415
10:39:56				836	10.08125	0.4838806	2.2639	1.51404	8.74237	3.72124
10:39:56				837	10.08222	0.48404	2.559	1.51404	8.44933	3.72244
10:39:57				838	10.08222	0.484201	2.559	1.56288	8.35165	3.72376
10:39:57				839	10.08415	0.484201	2.4606	1.51404	8.74237	3.72356
10:39:58				840	10.08318	0.48404	2.3623	1.56288	8.49817	3.72235
10:39:58				841	10.08222	0.48404	2.559	1.4652	8.54701	3.72244
10:39:59				842	10.08029	0.4838806	2.6574	1.4652	8.35165	3.72132
10:39:59				843	10.08125	0.4837196	2.559	1.51404	8.59585	3.71991
10:40:00				844	10.08029	0.4838806	2.559	1.4652	8.40049	3.72133
10:40:01				847	10.07854	0.4837229	2.6574	1.51404	8.69353	3.7202
10:40:02				848	10.07854	0.4846858	2.6574	1.51404	8.40049	3.7281
10:40:02				849	10.07951	0.4872502	2.8542	1.4652	8.30281	3.74904
10:40:03				850	10.07951	0.4882118	2.8542	1.51404	8.20513	3.75693
10:40:03				851	10.07951	0.4877309	2.8542	1.51404	8.59585	3.75298

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:04				852	10.08047	0.4893337	2.7558	1.4652	8.74237	3.76604
10:40:04				853	10.08433	0.494144	2.7558	1.51404	8.88889	3.80515
10:40:05				854	10.09011	0.491418	2.9526	1.51404	10.01221	3.78215
10:40:05				855	10.09107	0.4930207	2.8542	1.51404	8.40049	3.79521
10:40:06				856	10.08818	0.4931809	2.7558	1.51404	8.54701	3.79683
10:40:06				857	10.08915	0.5016784	2.6574	1.4652	8.93773	3.86658
10:40:07				858	10.1036	0.5010363	2.7558	1.51404	8.54701	3.85976
10:40:07				859	10.10649	0.5036026	2.8542	1.51404	8.15629	3.88054
10:40:08				860	10.11035	0.5188338	2.7558	1.51404	8.74237	4.00552
10:40:08				861	10.12191	0.510656	2.559	1.51404	8.44933	3.93693
10:40:09				862	10.14508	0.5098541	2.6574	1.51404	8.30281	3.92782
10:40:09				863	10.14701	0.506808	2.6574	1.51404	8.10745	3.90258
10:40:10				864	10.13931	0.500396	2.6574	1.51404	8.20513	3.85073
10:40:10				865	10.12961	0.5011971	2.6574	1.4652	8.25397	3.85833
10:40:11				866	10.11805	0.5015174	2.6574	1.51404	8.20513	3.86219
10:40:11				867	10.11805	0.5007161	2.6574	1.51404	8.30281	3.8556
10:40:12				868	10.1142	0.5010363	2.6574	1.51404	8.05861	3.85864
10:40:12				869	10.11227	0.4957459	2.6574	1.51404	8.59585	3.81539
10:40:13				870	10.10649	0.4904563	2.7558	1.51404	8.25397	3.77256
10:40:13				871	10.09878	0.4936616	2.8542	1.51404	8.10745	3.79967
10:40:14				872	10.10167	0.4925402	2.8542	1.4652	8.69353	3.79016
10:40:14				873	10.10167	0.489655	2.7558	1.4652	8.40049	3.76649
10:40:15				874	10.09686	0.489014	2.7558	1.51404	8.20513	3.76173
10:40:15				875	10.09686	0.4902964	2.7558	1.51404	8.40049	3.77225
10:40:16				876	10.09397	0.4872502	2.6574	1.51404	8.59585	3.74756
10:40:16				877	10.09107	0.4891738	2.6574	1.51404	8.30281	3.76364
10:40:17				878	10.09107	0.4882117	2.6574	1.51404	8.64469	3.75575
10:40:17				879	10.093	0.4888525	2.6574	1.51404	8.40049	3.76081
10:40:18				880	10.09397	0.4896551	2.559	1.51404	8.74237	3.7673
10:40:18				881	10.09397	0.491578	2.559	1.4652	8.49817	3.78308
10:40:19				882	10.09686	0.4936616	2.559	1.51404	8.44933	3.79989
10:40:19				883	10.09686	0.4952647	2.559	1.51404	8.44933	3.81305
10:40:20				884	10.10071	0.4925402	2.559	1.51404	8.49817	3.79028
10:40:20				885	10.09686	0.4989524	2.559	1.51404	8.64469	3.84335
10:40:21				886	10.11131	0.4992738	2.559	1.4652	8.40049	3.84447
10:40:21				887	10.1142	0.49799	2.559	1.4652	8.20513	3.83362
10:40:22				888	10.11035	0.4933411	2.559	1.51404	8.30281	3.79585
10:40:22				889	10.10071	0.4907762	2.559	1.51404	8.49817	3.7758
10:40:23				890	10.093	0.4896551	2.559	1.51404	8.54701	3.7674
10:40:23				891	10.08915	0.4878906	2.6574	1.51404	8.49817	3.75331
10:40:24				892	10.08722	0.4869292	2.6574	1.51404	8.59585	3.74562
10:40:24				893	10.0824	0.4859684	2.559	1.51404	8.74237	3.73824
10:40:25				894	10.0824	0.4870905	2.6574	1.4652	8.54701	3.74744
10:40:25				895	10.0824	0.4888525	2.7558	1.51404	8.54701	3.76189
10:40:26				896	10.08626	0.4907763	2.6574	1.51404	8.69353	3.77729

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:26				897	10.09107	0.4875712	2.559	1.4652	8.49817	3.7505
10:40:27				898	10.08722	0.4872502	2.4606	1.51404	8.40049	3.74826
10:40:27				899	10.08433	0.4861279	2.3623	1.51404	8.49817	3.73936
10:40:28				900	10.0824	0.4859684	2.4606	1.51404	8.54701	3.73824
10:40:28				901	10.08144	0.4866083	2.4606	1.4652	8.49817	3.74359
10:40:29				902	10.0824	0.4878906	2.4606	1.4652	8.54701	3.75402
10:40:29				903	10.08433	0.4931809	2.559	1.51404	8.40049	3.79725
10:40:30				904	10.09204	0.4917381	2.6574	1.51404	8.40049	3.78459
10:40:30				905	10.09397	0.4962273	2.559	1.56288	8.40049	3.82127
10:40:31				906	10.09589	0.4960668	2.7558	1.51404	8.84005	3.81973
10:40:31				907	10.09782	0.489014	2.7558	1.4652	8.44933	3.76163
10:40:32				908	10.09107	0.4949456	2.7558	1.51404	8.54701	3.81103
10:40:32				909	10.09011	0.4896551	2.8542	1.51404	8.10745	3.76768
10:40:33				910	10.08722	0.4906163	2.7558	1.4652	8.20513	3.77587
10:40:33				911	10.08433	0.4854865	2.7558	1.51404	8.25397	3.73407
10:40:34				912	10.08047	0.4859684	2.7558	1.51404	8.49817	3.73842
10:40:34				913	10.07951	0.4866084	2.7558	1.51404	8.40049	3.74377
10:40:35				914	10.07758	0.4856477	2.6574	1.51404	8.44933	3.73609
10:40:35				915	10.07463	0.4856477	2.559	1.4652	8.40049	3.7364
10:40:36				916	10.0727	0.4856477	2.559	1.51404	8.44933	3.7366
10:40:36				917	10.07565	0.4846858	2.559	1.51404	8.30281	3.72841
10:40:37				918	10.07854	0.4856477	2.4606	1.51404	8.54701	3.73601
10:40:37				919	10.07758	0.4838839	2.4606	1.51404	8.49817	3.72164
10:40:38				920	10.0727	0.4837229	2.3623	1.51404	8.25397	3.72082
10:40:38				921	10.06884	0.4848453	2.3623	1.51404	8.64469	3.73042
10:40:39				922	10.06884	0.4850064	2.559	1.51404	8.44933	3.73173
10:40:39				923	10.07463	0.4850064	2.559	1.4652	8.49817	3.73114
10:40:40				924	10.08047	0.4896551	2.4606	1.51404	8.49817	3.7687
10:40:40				925	10.08336	0.49222	2.559	1.51404	8.69353	3.78946
10:40:41				926	10.08818	0.4883715	2.559	1.51404	8.35165	3.75736
10:40:41				927	10.08626	0.4883715	2.6574	1.51404	8.40049	3.75755
10:40:42				928	10.08336	0.488052	2.559	1.51404	8.30281	3.75524
10:40:42				929	10.08529	0.4904563	2.559	1.51404	8.74237	3.77477
10:40:43				930	10.08818	0.4918981	2.559	1.4652	8.49817	3.78631
10:40:43				931	10.093	0.4939837	2.559	1.4652	9.23077	3.80294
10:40:44				932	10.10167	0.4944646	2.559	1.51404	8.69353	3.80598
10:40:44				933	10.09878	0.4949456	2.4606	1.51404	9.37729	3.81024
10:40:45				934	10.09878	0.4978311	2.4606	1.51404	10.01221	3.83394
10:40:45				935	10.09975	0.5029615	2.4606	1.51404	8.59585	3.87601
10:40:46				936	10.11613	0.4976704	2.4606	1.4652	8.74237	3.8308
10:40:46				937	10.10649	0.4965482	2.4606	1.4652	8.69353	3.82259
10:40:47				938	10.09975	0.4920599	2.4606	1.51404	8.44933	3.78644
10:40:47				939	10.08915	0.4901348	2.4606	1.4652	8.20513	3.77174
10:40:48				940	10.07758	0.4883715	2.4606	1.51404	8.35165	3.75846
10:40:48				941	10.07565	0.4904563	2.3623	1.51404	8.44933	3.77578

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:40:49				942	10.0824	0.4901348	2.559	1.51404	8.40049	3.77243
10:40:49				943	10.08144	0.4882118	2.559	1.51404	8.49817	3.75675
10:40:50				944	10.07951	0.4885329	2.559	1.4652	8.64469	3.75958
10:40:50				945	10.07854	0.489014	2.559	1.4652	8.40049	3.76363
10:40:51				946	10.07758	0.4888525	2.559	1.51404	8.40049	3.7624
10:40:51				947	10.07758	0.4899749	2.559	1.51404	8.35165	3.77162
10:40:52				948	10.07758	0.4906163	2.559	1.56288	8.44933	3.77689
10:40:52				949	10.0824	0.4910979	2.559	1.51404	8.44933	3.78034
10:40:53				950	10.08626	0.4896551	2.6574	1.51404	8.35165	3.76809
10:40:53				951	10.08818	0.4904563	2.6574	1.51404	8.35165	3.77447
10:40:54				952	10.09107	0.4899749	2.6574	1.4652	8.40049	3.77022
10:40:54				953	10.09107	0.4952647	2.4606	1.51404	8.30281	3.81367
10:40:55				954	10.09107	0.5019986	2.4606	1.56288	8.35165	3.86902
10:40:55				955	10.10167	0.5040827	2.6574	1.51404	8.15629	3.88502
10:40:56				956	10.10071	0.4986327	2.6574	1.51404	8.15629	3.84031
10:40:56				957	10.09975	0.4936616	2.6574	1.51404	8.30281	3.79958
10:40:57				958	10.10264	0.5109763	2.6574	1.51404	8.40049	3.94164
10:40:57				959	10.11131	0.5090526	2.8542	1.51404	8.40049	3.92486
10:40:58				960	10.1142	0.5007161	2.8542	1.4652	8.15629	3.856
10:40:58				961	10.11035	0.5003961	2.7558	1.51404	8.05861	3.85378
10:40:59				962	10.10746	0.4918981	2.6574	1.51404	8.35165	3.7843
10:40:59				963	10.10553	0.495106	2.7558	1.51404	8.69353	3.81083
10:41:00				964	10.10553	0.4931809	2.9526	1.51404	8.49817	3.79501
10:41:01				967	10.10264	0.4925353	2.559	1.51404	8.49817	3.79004
10:41:02				968	10.1036	0.4936583	2.8542	1.51404	8.79121	3.79914
10:41:02				969	10.10457	0.4925353	3.0509	1.51404	8.40049	3.78981
10:41:03				970	10.1036	0.4920549	2.8542	1.51404	8.30281	3.78598
10:41:03				971	10.09969	0.48981	2.6574	1.51404	8.10745	3.76797
10:41:04				972	10.0968	0.4902914	2.7558	1.4652	8.54701	3.77222
10:41:04				973	10.09487	0.4880471	2.9526	1.4652	8.25397	3.75399
10:41:05				974	10.09391	0.4893287	2.9526	1.51404	8.05861	3.7646
10:41:05				975	10.09391	0.4894902	2.8542	1.51404	8.44933	3.76593
10:41:06				976	10.09294	0.4875663	2.7558	1.51404	8.44933	3.75025
10:41:06				977	10.09294	0.4880471	2.8542	1.51404	8.54701	3.75419
10:41:07				978	10.09294	0.4878873	2.9526	1.4652	8.30281	3.75287
10:41:07				979	10.09294	0.4878873	2.8542	1.51404	8.40049	3.75288
10:41:08				980	10.09391	0.4880471	2.7558	1.51404	8.44933	3.7541
10:41:08				981	10.09294	0.487726	2.7558	1.4652	8.59585	3.75156
10:41:09				982	10.09294	0.4878873	2.9526	1.51404	8.64469	3.75287
10:41:09				983	10.09101	0.4880471	3.0509	1.51404	8.64469	3.75438
10:41:10				984	10.09294	0.4874049	3.1493	1.51404	8.49817	3.74891
10:41:10				985	10.09198	0.502475	3.3461	1.4652	8.59585	3.87279
10:41:11				986	10.09969	0.5029565	3.6412	1.4652	8.59585	3.87591
10:41:11				987	10.10938	0.5090476	3.838	1.51404	8.15629	3.92497
10:41:12				988	10.11516	0.5146593	3.9364	1.51404	8.49817	3.97053

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:12				989	10.12287	0.5169035	3.9364	1.51404	8.05861	3.98817
10:41:13				990	10.13058	0.5308543	3.9364	1.51404	8.20513	4.10233
10:41:13				991	10.13925	0.5537839	4.0348	1.4652	8.00977	4.29087
10:41:14				992	10.16145	0.5879447	4.1331	1.51404	7.96093	4.57162
10:41:14				993	10.18456	0.5905116	4.2315	1.51404	7.47253	4.59005
10:41:15				994	10.20188	0.6173005	4.5267	1.4652	6.88645	4.81086
10:41:15				995	10.24619	0.6116845	4.6251	1.56288	6.93529	4.75825
10:41:16				996	10.30872	0.6063908	4.7234	1.51404	6.88645	4.70613
10:41:16				997	10.30392	0.6251614	4.7234	16.89866	6.15385	4.86283
10:41:17				998	10.3068	0.6882193	4.8218	18.55922	6.39805	5.38959
10:41:17				999	10.33946	0.7228868	4.9202	12.94261	6.25153	5.67612
10:41:18				1000	10.32409	0.6696042	5.117	8.00977	5.66545	5.23103
10:41:18				1001	10.32793	0.6724938	5.117	3.56532	5.51893	5.25466
10:41:19				1002	10.32313	0.6818002	5.117	5.27473	6.05617	5.33332
10:41:19				1003	10.31833	0.6816402	5.0186	5.71429	5.66545	5.33269
10:41:20				1004	10.30103	0.7639812	5.117	3.4188	5.56777	6.02939
10:41:20				1005	10.2847	0.7973773	5.3137	1.90476	5.61661	6.31566
10:41:21				1006	10.36928	0.7787517	5.5105	1.9536	5.66545	6.14309
10:41:21				1007	10.36928	0.7654255	5.5105	1.4652	4.49328	6.03031
10:41:22				1008	10.34042	0.7617333	5.3137	1.51404	4.49328	6.00385
10:41:22				1009	10.33465	0.7803572	5.3137	1.51404	5.03053	6.16255
10:41:23				1010	10.38463	0.7755404	5.5105	1.51404	4.93284	6.11333
10:41:23				1011	10.4106	0.7708848	5.5105	1.51404	4.44444	6.06963
10:41:24				1012	10.39135	0.7699208	5.4121	1.4652	4.3956	6.06468
10:41:24				1013	10.38751	0.7704028	5.4121	1.51404	4.73748	6.06939
10:41:25				1014	10.38847	0.7665499	5.4121	1.51404	4.78632	6.03665
10:41:25				1015	10.38463	0.7591659	5.4121	1.51404	4.73748	5.97488
10:41:26				1016	10.38271	0.7827653	5.4121	1.51404	4.884	6.17484
10:41:26				1017	10.37791	0.7787517	5.5105	1.51404	4.59096	6.14164
10:41:27				1018	10.38079	0.7651048	5.5105	1.51404	4.49328	6.02569
10:41:27				1019	10.36544	0.7734538	5.4121	1.51404	4.3956	6.09888
10:41:28				1020	10.35584	0.7795543	5.4121	1.4652	4.73748	6.15217
10:41:28				1021	10.38751	0.7838886	5.5105	1.51404	4.93284	6.18353
10:41:29				1022	10.39998	0.7700814	5.5105	1.51404	4.44444	6.06459
10:41:29				1023	10.39135	0.7700814	5.4121	1.51404	4.44444	6.06604
10:41:30				1024	10.38943	0.7781087	5.4121	1.51404	4.68864	6.13427
10:41:30				1025	10.39519	0.7740954	5.5105	1.4652	4.93284	6.09934
10:41:31				1026	10.38847	0.7604492	5.5105	1.51404	4.68864	5.98509
10:41:31				1027	10.35968	0.7530641	5.4121	1.51404	4.3956	5.9274
10:41:32				1028	10.35584	0.7691178	5.4121	1.51404	4.73748	6.06378
10:41:32				1029	10.35008	0.7758626	5.5105	1.51404	4.54212	6.12184
10:41:33				1030	10.35488	0.7604493	5.5105	1.4652	4.44444	5.99059
10:41:33				1031	10.34816	0.7538673	5.3137	1.51404	4.3956	5.93607
10:41:34				1032	10.3385	0.7660688	5.3137	1.51404	4.59096	6.04085
10:41:34				1033	10.33369	0.7676731	5.5105	1.4652	4.93284	6.05521

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:35				1034	10.36448	0.7498543	5.5105	1.51404	4.54212	5.89951
10:41:35				1035	10.33753	0.7524226	5.4121	1.51404	4.59096	5.92558
10:41:36				1036	10.33081	0.7676731	5.4121	1.51404	4.6398	6.0557
10:41:36				1037	10.3424	0.764624	5.4121	1.51404	4.98168	6.02797
10:41:37				1038	10.35968	0.7525838	5.5105	1.4652	4.78632	5.92334
10:41:37				1039	10.35104	0.753385	5.4121	1.51404	4.73748	5.93152
10:41:38				1040	10.34624	0.7728123	5.4121	1.51404	4.68864	6.09666
10:41:38				1041	10.37024	0.7843716	5.5105	1.51404	4.68864	6.19055
10:41:39				1042	10.38847	0.7687985	5.5105	1.51404	4.34676	6.05566
10:41:39				1043	10.38559	0.773132	5.4121	1.4652	4.3956	6.0928
10:41:40				1044	10.38271	0.7699208	5.2153	1.51404	4.59096	6.06613
10:41:40				1045	10.38175	0.7893491	5.3137	1.51404	4.78632	6.2308
10:41:41				1046	10.41539	0.7922395	5.6089	1.4652	4.83516	6.24952
10:41:41				1047	10.42403	0.7843714	5.6089	1.56288	4.49328	6.18143
10:41:42				1048	10.4106	0.7747373	5.3137	1.56288	4.3956	6.10222
10:41:42				1049	10.37983	0.7739345	5.117	1.51404	4.44444	6.10058
10:41:43				1050	10.37983	0.8004285	5.3137	1.51404	4.83516	6.32511
10:41:43	10:40:19 start transect	7.5	90	1051	10.40964	0.7885451	5.6089	1.4652	4.59096	6.21921
10:41:44			91.406	1052	10.41156	0.7806778	5.4121	1.4652	4.3956	6.1523
10:41:44			92.812	1053	10.38463	0.7755404	5.2153	1.51404	4.44444	6.11336
10:41:45			94.218	1054	10.36544	0.7622154	5.117	1.51404	4.78632	6.00383
10:41:45			95.624	1055	10.38175	0.7879033	5.2153	1.51404	4.83516	6.21855
10:41:46			97.03	1056	10.40964	0.7787516	5.4121	1.51404	4.68864	6.13632
10:41:46			98.436	1057	10.41635	0.7636605	5.4121	1.51404	4.54212	6.00765
10:41:47			99.842	1058	10.50364	0.7614128	5.2153	1.51404	4.59096	5.97442
10:41:47			101.248	1059	10.57646	0.7631776	5.117	1.4652	4.59096	5.9774
10:41:48		7.5	102.654	1060	10.59566	0.7633378	5.117	10.84249	4.78632	5.97562
10:41:48		7.5	104.06	1061	10.60331	0.7707236	5.3137	8.64469	4.73748	6.03643
10:41:49		7.5	105.466	1062	10.59177	0.758682	5.3137	8.88889	4.68864	5.93712
10:41:49		7.5	106.872	1063	10.61383	0.7432719	5.3137	8.10745	4.6398	5.80431
10:41:50		7.5	108.278	1064	10.65883	0.7381344	5.3137	8.84005	4.59096	5.75422
10:41:50		7.5	109.684	1065	10.66456	0.7521011	5.3137	10.06105	4.83516	5.87021
10:41:51		7.5	111.09	1066	10.60522	0.7638202	5.4121	11.81929	4.83516	5.97809
10:41:51		7.5	112.496	1067	10.57072	0.7590037	5.4121	11.37973	4.73748	5.94322
10:41:52		7.5	113.902	1068	10.54201	0.7707238	5.4121	10.35409	4.73748	6.04653
10:41:52		7.5	115.308	1069	10.47202	0.7570786	5.4121	11.96581	4.83516	5.94304
10:41:53		7.5	116.714	1070	10.54392	0.7389382	5.3137	12.50305	4.884	5.77901
10:41:53		7.5	118.12	1071	10.57264	0.7572381	5.3137	11.47741	5.03053	5.92809
10:41:54		7.5	119.526	1072	10.45854	0.761251	5.4121	12.84493	5.37241	5.9804
10:41:54		7.5	120.932	1073	10.32505	0.7506564	5.5105	2.58852	5.03053	5.91266
10:41:55		7.5	122.338	1074	10.4816	0.7416661	5.3137	1.51404	5.12821	5.81179
10:41:55		7.5	123.744	1075	10.54775	0.7004155	5.2153	7.61905	5.07937	5.45596
10:41:56		7.5	125.15	1076	10.53626	0.7065146	5.2153	13.23565	5.27473	5.50864
10:41:56		7.5	126.556	1077	10.51322	0.7090837	5.4121	11.72161	5.22589	5.53358
10:41:57		7.5	127.962	1078	10.51418	0.6659134	5.4121	11.08669	5.47009	5.17317

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:41:57		7.5	129.368	1079	10.51226	0.6607785	5.3137	11.62393	5.61661	5.13072
10:41:58		7.5	130.774	1080	10.47777	0.6622223	5.2153	11.81929	5.61661	5.14758
10:41:58		7.5	132.18	1081	10.48256	0.6980086	5.2153	11.86813	5.71429	5.44554
10:41:59		7.5	133.586	1082	10.46819	0.6930343	5.3137	12.74725	5.71429	5.40606
10:41:59		7.5	134.992	1083	10.39903	0.6846896	5.4121	10.98901	5.56777	5.34641
10:42:00		7.5	136.398	1084	10.42307	0.6768263	5.3137	10.01221	5.42125	5.27718
10:42:01		7.5	137.804	1087	10.33105	0.6781196	5.4121	10.25641	5.81197	5.3013
10:42:02		7.5	139.21	1088	10.32433	0.6747496	5.4121	7.27717	5.61661	5.27405
10:42:02		7.5	140.616	1089	10.31178	0.672664	5.4121	8.10745	5.71429	5.25839
10:42:03		7.5	142.022	1090	10.3137	0.6692935	5.3137	8.10745	5.90965	5.2299
10:42:03		7.5	143.428	1091	10.27527	0.6970554	5.3137	7.08181	5.76313	5.46848
10:42:04		7.5	144.834	1092	10.26181	0.7066862	5.3137	6.25153	6.10501	5.55158
10:42:04		7.5	146.24	1093	10.28296	0.6898349	5.4121	4.20024	5.71429	5.40664
10:42:05		7.5	147.646	1094	10.25021	0.6874267	5.3137	3.12576	5.71429	5.39125
10:42:05		7.5	149.052	1095	10.21944	0.6991428	5.3137	3.36996	5.76313	5.49445
10:42:06		7.5	150.458	1096	10.25604	0.7140691	5.4121	2.6862	5.90965	5.61467
10:42:06			151.864	1097	10.2406	0.6927225	5.4121	1.56288	5.66545	5.43721
10:42:07			153.27	1098	10.18089	0.6848594	5.3137	1.51404	5.66545	5.3799
10:42:07			154.676	1099	10.13461	0.6935265	5.3137	1.51404	5.66545	5.45984
10:42:08			156.082	1100	10.10282	0.7187236	5.3137	1.4652	5.86081	5.67777
10:42:08			157.488	1101	10.09125	0.6781201	5.4121	1.4652	5.56777	5.3363
10:42:09			158.894	1102	10.09318	0.6745889	5.3137	1.51404	5.66545	5.30625
10:42:09			160.3	1103	10.09896	0.6691332	5.3137	1.51404	5.66545	5.25945
10:42:10			161.706	1104	10.09993	0.6633561	5.3137	1.56288	5.76313	5.21067
10:42:10			163.112	1105	10.10186	0.6893538	5.3137	1.51404	5.76313	5.42952
10:42:11			164.518	1106	10.09415	0.6794032	5.4121	1.51404	5.61661	5.34669
10:42:11			165.924	1107	10.09029	0.6721832	5.4121	1.51404	5.61661	5.28639
10:42:12			167.33	1108	10.098	0.6689724	5.3137	1.4652	5.56777	5.25823
10:42:12			168.736	1109	10.10186	0.6704162	5.3137	1.51404	5.71429	5.26983
10:42:13			170.142	1110	10.10282	0.6867858	5.3137	1.56288	5.90965	5.4077
10:42:13			171.548	1111	10.09993	0.6728237	5.4121	1.51404	5.86081	5.29038
10:42:14			172.954	1112	10.10282	0.6635165	5.4121	1.51404	5.76313	5.2116
10:42:14			174.36	1113	10.10956	0.6627148	5.3137	1.4652	5.81197	5.2039
10:42:15			175.766	1114	10.11342	0.667849	5.3137	1.51404	5.90965	5.24655
10:42:15			177.172	1115	10.1192	0.6617513	5.3137	1.51404	5.76313	5.19442
10:42:16			178.578	1116	10.10956	0.6553336	5.3137	1.51404	5.90965	5.14184
10:42:16	10:40:52 @ 6:00	7.5	180	1117	10.09607	0.6625545	5.3137	1.51404	5.95849	5.20448
10:42:17				1118	10.11631	0.6766746	5.3137	1.51404	6.05617	5.32045
10:42:17				1119	10.11342	0.6609503	5.4121	1.51404	6.10501	5.1885
10:42:18				1120	10.11824	0.6575803	5.3137	1.51404	5.81197	5.15949
10:42:18				1121	10.11053	0.6434594	5.117	1.51404	6.00733	5.04201
10:42:19				1122	10.09607	0.6404114	5.2153	1.51404	6.05617	5.01842
10:42:19				1123	10.07872	0.6376846	5.2153	1.51404	5.66545	4.99793
10:42:20				1124	10.07384	0.6429794	5.3137	1.4652	5.90965	5.04305
10:42:20				1125	10.06999	0.6306252	5.3137	1.51404	6.05617	4.93989

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:21				1126	10.05553	0.6278971	5.2153	1.4652	6.05617	4.91898
10:42:21				1127	10.05167	0.6527667	5.2153	1.51404	6.20269	5.12843
10:42:22				1128	10.07577	0.6550124	5.3137	1.51404	6.25153	5.14391
10:42:22				1129	10.09993	0.6495582	5.4121	1.51404	6.25153	5.09466
10:42:23				1130	10.09029	0.642016	5.3137	1.4652	5.86081	5.03268
10:42:23				1131	10.07577	0.6397699	5.2153	1.4652	6.25153	5.01584
10:42:24				1132	10.06227	0.6558148	5.4121	1.51404	6.34921	5.15257
10:42:24				1133	10.06324	0.6408927	5.4121	1.51404	6.20269	5.02698
10:42:25				1134	10.04685	0.6413741	5.2153	1.51404	6.20269	5.03331
10:42:25				1135	10.0507	0.6396096	5.2153	1.51404	6.34921	5.01795
10:42:26				1136	10.03624	0.651643	5.3137	1.4652	6.30037	5.12114
10:42:26				1137	10.03141	0.6497177	5.4121	1.51404	6.15385	5.10561
10:42:27				1138	10.03431	0.6508404	5.3137	1.51404	6.30037	5.11466
10:42:27				1139	10.04492	0.6484345	5.3137	1.51404	6.15385	5.09293
10:42:28				1140	10.04202	0.6577404	5.3137	1.56288	6.34921	5.17166
10:42:28				1141	10.06324	0.6635165	5.3137	1.4652	6.49573	5.21728
10:42:29				1142	10.10667	0.6535681	5.4121	1.51404	6.00733	5.1274
10:42:29				1143	10.09607	0.6469893	5.3137	1.4652	5.66545	5.07363
10:42:30				1144	10.07776	0.612657	5.3137	1.4652	5.95849	4.78838
10:42:30				1145	10.05456	0.6315886	5.4121	1.51404	6.20269	4.95007
10:42:31				1146	10.03624	0.6176305	5.5105	1.51404	6.30037	4.83549
10:42:31				1147	10.03141	0.6057587	5.4121	1.51404	6.25153	4.73674
10:42:32				1148	10.02852	0.5768869	5.2153	1.51404	6.25153	4.49605
10:42:32				1149	10.03431	0.5735186	5.3137	1.4652	6.34921	4.46727
10:42:33				1150	10.04974	0.5881152	5.4121	1.51404	6.69109	4.587
10:42:33				1151	10.05167	0.5765674	5.4121	1.51404	6.88645	4.49051
10:42:34				1152	10.05938	0.5624523	5.3137	1.51404	6.64225	4.37218
10:42:34				1153	10.07872	0.5507454	5.117	1.51404	6.73993	4.27274
10:42:35				1154	10.08451	0.5476997	5.117	1.4652	7.47253	4.24683
10:42:35				1155	10.08065	0.5493028	5.3137	1.51404	7.71673	4.26055
10:42:36				1156	10.07969	0.55267	5.3137	1.51404	7.13065	4.28857
10:42:36				1157	10.07674	0.5706328	5.2153	1.4652	7.17949	4.43807
10:42:37				1158	10.07384	0.5927669	5.3137	1.51404	7.13065	4.62275
10:42:37				1159	10.05553	0.5847467	5.4121	1.51404	7.27717	4.55818
10:42:38				1160	10.05745	0.5768868	5.4121	1.4652	6.59341	4.49246
10:42:38				1161	10.06324	0.5688674	5.3137	1.51404	7.03297	4.42503
10:42:39				1162	10.0642	0.585548	5.3137	1.51404	7.47253	4.56378
10:42:39				1163	10.06227	0.5910023	5.3137	1.56288	7.61905	4.6095
10:42:40				1164	10.05842	0.6275764	5.4121	1.51404	7.17949	4.91589
10:42:40				1165	10.04685	0.5972586	5.4121	1.51404	6.98413	4.66369
10:42:41				1166	10.04685	0.5908423	5.4121	1.51404	6.39805	4.61012
10:42:41				1167	10.05553	0.5788117	5.3137	1.4652	6.83761	4.50874
10:42:42				1168	10.05456	0.6339947	5.4121	1.56288	7.37485	4.97026
10:42:42				1169	10.04588	0.6084871	5.5105	1.56288	7.32601	4.75767
10:42:43				1170	10.04492	0.6044764	5.5105	1.51404	6.10501	4.72425

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:42:43				1171	10.04877	0.5964561	5.3137	1.51404	6.49573	4.65674
10:42:44				1172	10.0507	0.6286997	5.3137	1.4652	6.88645	4.92636
10:42:44				1173	10.04588	0.6209999	5.5105	1.51404	6.98413	4.86244
10:42:45				1174	10.04492	0.6189141	5.5105	1.51404	6.93529	4.84509
10:42:45				1175	10.04588	0.6046357	5.4121	1.51404	6.59341	4.72546
10:42:46				1176	10.04781	0.6229252	5.4121	1.51404	6.64225	4.87832
10:42:46				1177	10.04588	0.6139411	5.5105	1.4652	6.83761	4.80331
10:42:47				1178	10.04685	0.6141012	5.4121	1.51404	6.34921	4.80453
10:42:47				1179	10.05456	0.6020698	5.3137	1.51404	6.59341	4.7029
10:42:48				1180	10.05263	0.613299	5.4121	1.51404	7.03297	4.79705
10:42:48				1181	10.05842	0.6025509	5.5105	1.51404	6.83761	4.7064
10:42:49				1182	10.05842	0.5996645	5.5105	1.51404	6.30037	4.68229
10:42:49				1183	10.06227	0.6022308	5.4121	1.4652	6.15385	4.70324
10:42:50				1184	10.06131	0.6039948	5.3137	1.51404	6.64225	4.71811
10:42:50				1185	10.06131	0.5972585	5.3137	1.51404	6.98413	4.66184
10:42:51				1186	10.05842	0.6009472	5.4121	1.51404	6.93529	4.69301
10:42:51				1187	10.06035	0.6047968	5.5105	1.51404	6.83761	4.72492
10:42:52				1188	10.05842	0.6051174	5.4121	1.51404	6.54457	4.72786
10:42:52				1189	10.05745	0.6041559	5.4121	1.51404	6.64225	4.71995
10:42:53				1190	10.05938	0.6033541	5.3137	1.4652	6.44689	4.713
10:42:53				1191	10.06131	0.6201967	5.3137	1.51404	6.44689	4.85366
10:42:54				1192	10.05938	0.607845	5.6089	1.51404	6.98413	4.75052
10:42:54				1193	10.05842	0.6065614	5.5105	1.51404	6.34921	4.73992
10:42:55				1194	10.06131	0.5950123	5.2153	1.51404	6.44689	4.64309
10:42:55				1195	10.06324	0.6118554	5.2153	1.4652	6.54457	4.78359
10:42:56	10:41:31 end transect	7.5	270	1196	10.06131	0.6076836	5.6089	1.51404	6.88645	4.74892
10:42:56	reposition to 90			1197	10.06035	0.6064018	5.6089	1.51404	6.59341	4.73833
10:42:57				1198	10.06227	0.600145	5.4121	1.51404	6.49573	4.68581
10:42:57				1199	10.0642	0.5929271	5.0186	1.51404	6.64225	4.62534
10:42:58				1200	10.07095	0.5847467	4.8218	1.4652	6.88645	4.55629
10:42:58				1201	10.07192	0.5704727	4.5267	1.51404	6.73993	4.43738
10:42:59				1202	10.07384	0.5653395	4.2315	1.51404	6.88645	4.3945
10:42:59				1203	10.07776	0.5526699	3.7396	1.4652	7.17949	4.2889
10:43:00				1204	10.07776	0.5209204	3.2477	1.51404	7.42369	4.02629
10:43:01				1207	10.07975	0.4954367	2.559	1.51404	7.86325	3.81626
10:43:02				1208	10.08168	0.485498	2.0671	1.4652	8.40049	3.73448
10:43:02				1209	10.08264	0.4846957	1.8703	1.56288	8.64469	3.72781
10:43:03				1210	10.0836	0.4851773	1.772	1.51404	8.93773	3.73167
10:43:03				1211	10.08264	0.4846957	1.5752	1.51404	8.35165	3.72783
10:43:04				1212	10.08457	0.4845362	1.1817	1.51404	8.64469	3.72634
10:43:04				1213	10.08553	0.483253	1.1817	1.4652	8.59585	3.71572
10:43:05				1214	10.09035	0.483414	1.2801	1.51404	8.84005	3.71655
10:43:05				1215	10.09132	0.4840547	1.2801	1.51404	8.54701	3.7217
10:43:06				1216	10.09324	0.4856574	1.0833	1.51404	8.35165	3.73466
10:43:06				1217	10.09909	0.4854979	1.2801	1.51404	8.54701	3.73274

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:43:07				1218	10.09812	0.4853368	1.4768	1.4652	9.32845	3.73151
10:43:07				1219	10.09909	0.4854979	1.5752	1.4652	8.44933	3.73272
10:43:08				1220	10.09909	0.4856574	1.4768	1.51404	8.54701	3.73404
10:43:08				1221	10.10101	0.4862989	1.4768	1.51404	8.40049	3.7391
10:43:09				1222	10.10198	0.4859782	1.5752	1.51404	8.54701	3.73637
10:43:09				1223	10.10294	0.4861394	1.6736	1.4652	8.30281	3.73758
10:43:10				1224	10.10487	0.4861394	1.5752	1.51404	8.59585	3.73739
10:43:10				1225	10.1039	0.4859782	1.4768	1.51404	8.49817	3.73617
10:43:11				1226	10.10294	0.4862989	1.5752	1.51404	8.59585	3.7389
10:43:11				1227	10.1039	0.4861394	1.772	1.51404	8.25397	3.73748
10:43:12				1228	10.1039	0.4862989	1.5752	1.51404	8.49817	3.7388
10:43:12				1229	10.10294	0.4862989	1.5752	1.51404	8.74237	3.7389
10:43:13				1230	10.10294	0.4861394	1.5752	1.51404	8.74237	3.73759
10:43:13				1231	10.10294	0.4859782	1.5752	1.4652	8.64469	3.73627
10:43:14				1232	10.10294	0.4859782	1.6736	1.51404	8.74237	3.73626
10:43:14				1233	10.10294	0.4861394	1.6736	1.51404	10.30525	3.73758
10:43:15				1234	10.10294	0.4861394	1.5752	1.51404	8.64469	3.73759
10:43:15				1235	10.10294	0.4861394	1.5752	1.51404	8.69353	3.73759
10:43:16				1236	10.1039	0.4861394	1.6736	1.4652	8.49817	3.73748
10:43:16				1237	10.10294	0.4861394	1.5752	1.51404	8.10745	3.73759
10:43:17				1238	10.10487	0.4862989	1.5752	1.51404	8.54701	3.7387
10:43:17				1239	10.1039	0.4861394	1.5752	1.51404	8.54701	3.73749
10:43:18				1240	10.1039	0.4862989	1.5752	1.51404	8.30281	3.7388
10:43:18				1241	10.1039	0.4861394	1.5752	1.4652	8.49817	3.73749
10:43:19				1242	10.1039	0.4861394	1.4768	1.4652	8.44933	3.7375
10:43:19				1243	10.10487	0.4858186	1.5752	1.51404	8.40049	3.73476
10:43:20				1244	10.10294	0.4853368	1.6736	1.51404	8.20513	3.731
10:43:20				1245	10.09909	0.4851773	1.6736	1.51404	8.49817	3.73009
10:43:21				1246	10.09613	0.4851773	1.4768	1.4652	8.49817	3.7304
10:43:21				1247	10.09132	0.4858186	1.4768	1.51404	8.30281	3.73616
10:43:22				1248	10.0865	0.4851773	1.6736	1.51404	8.49817	3.73138
10:43:22				1249	10.0865	0.4851773	1.772	1.4652	8.35165	3.73137
10:43:23				1250	10.08842	0.4850162	1.5752	1.51404	8.54701	3.72986
10:43:23				1251	10.08842	0.4835733	1.4768	1.51404	8.35165	3.71804
10:43:24				1252	10.08071	0.4843752	1.6736	1.4652	8.40049	3.72539
10:43:24				1253	10.0836	0.4842158	1.6736	1.51404	8.40049	3.72379
10:43:25				1254	10.0836	0.4843752	1.6736	1.4652	8.54701	3.72509
10:43:25				1255	10.08553	0.483414	1.5752	1.51404	8.59585	3.71702
10:43:26				1256	10.08264	0.4835734	1.5752	1.51404	8.54701	3.71862
10:43:26				1257	10.08071	0.4835734	1.6736	1.56288	8.74237	3.71881
10:43:27				1258	10.07975	0.4835734	1.6736	1.51404	8.54701	3.71891
10:43:27				1259	10.08168	0.4832531	1.5752	1.4652	8.74237	3.71609
10:43:28				1260	10.07975	0.4832531	1.5752	1.51404	8.98657	3.71629
10:43:28				1261	10.08071	0.483414	1.6736	1.51404	8.49817	3.71751
10:43:29				1262	10.08168	0.483414	1.6736	1.51404	8.59585	3.71741

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:43:29				1263	10.07975	0.4846957	1.5752	1.51404	8.69353	3.72812
10:43:30				1264	10.08264	0.4851773	1.5752	1.4652	8.49817	3.73178
10:43:30				1265	10.08553	0.4845362	1.6736	1.51404	8.88889	3.72622
10:43:31				1266	10.0865	0.4838954	1.6736	1.51404	8.54701	3.72086
10:43:31				1267	10.08553	0.4843752	1.6736	1.51404	8.88889	3.7249
10:43:32				1268	10.0836	0.4837343	1.5752	1.56288	8.44933	3.71984
10:43:32				1269	10.08168	0.4840547	1.5752	1.51404	8.64469	3.72267
10:43:33				1270	10.08071	0.4838954	1.6736	1.51404	8.15629	3.72145
10:43:33				1271	10.07975	0.4838954	1.6736	1.51404	8.20513	3.72155
10:43:34				1272	10.07878	0.4835734	1.5752	1.4652	8.93773	3.71902
10:43:34				1273	10.07782	0.4835734	1.6736	1.51404	8.88889	3.71911
10:43:35				1274	10.07782	0.4835734	1.6736	1.51404	8.40049	3.71911
10:43:35				1275	10.07782	0.4830938	1.5752	1.51404	8.44933	3.71518
10:43:36				1276	10.07493	0.4830938	1.5752	1.51404	8.54701	3.71548
10:43:36				1277	10.07493	0.4830938	1.5752	1.4652	8.74237	3.71548
10:43:37				1278	10.07396	0.483414	1.6736	1.51404	8.64469	3.7182
10:43:37				1279	10.073	0.4832531	1.6736	1.51404	8.49817	3.71697
10:43:38				1280	10.07204	0.483414	1.5752	1.51404	8.69353	3.7184
10:43:38				1281	10.073	0.4838954	1.5752	1.51404	8.59585	3.72225
10:43:39				1282	10.073	0.4835734	1.5752	1.4652	8.54701	3.71961
10:43:39				1283	10.07204	0.4835734	1.5752	1.51404	8.49817	3.71971
10:43:40				1284	10.07204	0.4840547	1.5752	1.56288	8.64469	3.72365
10:43:40				1285	10.073	0.4838954	1.5752	1.51404	8.64469	3.72225
10:43:41				1286	10.073	0.4838954	1.5752	1.51404	8.30281	3.72225
10:43:41				1287	10.07396	0.4838954	1.5752	1.51404	8.40049	3.72215
10:43:42				1288	10.07493	0.4838954	1.4768	1.51404	8.40049	3.72206
10:43:42				1289	10.07493	0.4842158	1.5752	1.51404	8.54701	3.72468
10:43:43				1290	10.07493	0.4842158	1.6736	1.51404	8.59585	3.72467
10:43:43				1291	10.07493	0.4842158	1.6736	1.51404	8.59585	3.72467
10:43:44				1292	10.07589	0.4843752	1.5752	1.51404	8.93773	3.72589
10:43:44				1293	10.07686	0.4843752	1.5752	1.51404	8.84005	3.72579
10:43:45				1294	10.07975	0.4845362	1.5752	1.51404	8.74237	3.72682
10:43:45				1295	10.08168	0.4851773	1.6736	1.51404	8.79121	3.73187
10:43:46				1296	10.08553	0.4853368	1.5752	1.51404	8.64469	3.73279
10:43:46				1297	10.08842	0.4846956	1.4768	1.51404	8.44933	3.72724
10:43:47				1298	10.08842	0.4838953	1.5752	1.4652	8.93773	3.72067
10:43:47				1299	10.08168	0.4846957	1.6736	1.51404	8.64469	3.72792
10:43:48				1300	10.08842	0.4854979	1.5752	1.4652	8.54701	3.73382
10:43:48				1301	10.08939	0.4850162	1.4768	1.51404	8.49817	3.72977
10:43:49				1302	10.09132	0.4853368	1.5752	1.51404	8.44933	3.7322
10:43:49				1303	10.09035	0.4854979	1.5752	1.51404	8.79121	3.73362
10:43:50				1304	10.09132	0.4856575	1.5752	1.51404	8.59585	3.73483
10:43:50				1305	10.09132	0.4864602	1.4768	1.4652	8.88889	3.74142
10:43:51				1306	10.09228	0.4871003	1.4768	1.51404	8.30281	3.74657
10:43:51				1307	10.09517	0.4864602	1.4768	1.56288	8.44933	3.74102

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:43:52				1308	10.0971	0.4869407	1.5752	1.51404	8.40049	3.74476
10:43:52				1309	10.09613	0.4871003	1.3784	1.51404	8.59585	3.74618
10:43:53				1310	10.0971	0.4871003	1.3784	1.4652	8.59585	3.74608
10:43:53				1311	10.10005	0.4871003	1.4768	1.51404	8.40049	3.74577
10:43:54				1312	10.10005	0.4872616	1.4768	1.51404	8.54701	3.7471
10:43:54				1313	10.09909	0.4874213	1.2801	1.51404	8.49817	3.74852
10:43:55				1314	10.10005	0.487581	1.3784	1.51404	8.20513	3.74972
10:43:55				1315	10.10005	0.4877424	1.4768	1.51404	8.25397	3.75104
10:43:56				1316	10.10198	0.4880634	1.2801	1.51404	8.54701	3.75349
10:43:56				1317	10.10487	0.4882232	1.0833	1.51404	8.35165	3.75451
10:43:57				1318	10.10487	0.488383	1.3784	1.4652	8.05861	3.7558
10:43:57				1319	10.1039	0.488383	1.4768	1.51404	8.20513	3.7559
10:43:58				1320	10.10776	0.4882232	1.3784	1.51404	8.44933	3.75419
10:43:58				1321	10.10583	0.4898264	1.2801	1.51404	8.84005	3.76755
10:43:59				1322	10.10101	0.4896665	1.4768	1.51404	8.30281	3.76673
10:43:59				1323	10.10101	0.4896665	1.5752	1.51404	8.15629	3.76672
10:44:00				1324	10.10005	0.4891853	1.4768	1.51404	8.40049	3.76288
10:44:01				1327	10.10673	0.4893385	1.6736	1.51404	8.15629	3.76343
10:44:02				1328	10.10673	0.4893385	1.4768	1.4652	8.44933	3.76344
10:44:02				1329	10.10577	0.4885378	1.2801	1.51404	8.15629	3.75699
10:44:03				1330	10.10866	0.488378	1.4768	1.51404	8.25397	3.75537
10:44:03				1331	10.1077	0.4882166	1.3784	1.56288	8.20513	3.75415
10:44:04				1332	10.1077	0.4880569	1.4768	1.51404	8.40049	3.75283
10:44:04				1333	10.1077	0.4895	1.3784	1.51404	8.49817	3.76467
10:44:05				1334	10.10673	0.4891787	1.3784	1.4652	8.20513	3.76214
10:44:05				1335	10.10866	0.4890188	1.3784	1.51404	8.40049	3.76063
10:44:06				1336	10.1077	0.487255	1.4768	1.51404	8.40049	3.74625
10:44:06				1337	10.1077	0.4861328	1.3784	1.51404	8.49817	3.73706
10:44:07				1338	10.10673	0.4874147	1.3784	1.4652	8.49817	3.74767
10:44:07				1339	10.10577	0.4869341	1.3784	1.4652	8.40049	3.74383
10:44:08				1340	10.10673	0.4867745	1.3784	1.51404	8.69353	3.74242
10:44:08				1341	10.10673	0.487255	1.1817	1.51404	8.74237	3.74637
10:44:09				1342	10.1077	0.4874147	1.3784	1.51404	8.44933	3.74757
10:44:09				1343	10.10673	0.4866132	1.3784	1.56288	8.44933	3.7411
10:44:10				1344	10.10481	0.4864536	1.3784	1.51404	8.30281	3.73998
10:44:10				1345	10.10384	0.4866132	1.4768	1.51404	8.20513	3.74139
10:44:11				1346	10.10288	0.4866132	1.5752	1.4652	8.59585	3.74148
10:44:11				1347	10.10384	0.4859732	1.4768	1.51404	8.69353	3.73614
10:44:12				1348	10.10481	0.4859732	1.4768	1.56288	8.30281	3.73604
10:44:12				1349	10.10288	0.4859732	1.4768	1.51404	8.44933	3.73624
10:44:13				1350	10.10384	0.485812	1.5752	1.51404	8.40049	3.73481
10:44:13				1351	10.10384	0.4854913	1.4768	1.4652	8.49817	3.73219
10:44:14				1352	10.10384	0.4856525	1.5752	1.51404	8.49817	3.7335
10:44:14				1353	10.10288	0.4856525	1.5752	1.51404	8.44933	3.7336
10:44:15				1354	10.10288	0.485812	1.5752	1.51404	8.10745	3.73491

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:44:15				1355	10.10288	0.4856525	1.5752	1.51404	8.05861	3.7336
10:44:16				1356	10.10192	0.4856525	1.4768	1.4652	8.59585	3.73371
10:44:16				1357	10.10384	0.485812	1.5752	1.51404	8.54701	3.73481
10:44:17				1358	10.10481	0.4870954	1.4768	1.51404	8.49817	3.74524
10:44:17				1359	10.10481	0.4872551	1.5752	1.51404	8.44933	3.74655
10:44:18				1360	10.10288	0.4866132	1.6736	1.51404	8.64469	3.74147
10:44:18				1361	10.10384	0.4861328	1.6736	1.4652	8.49817	3.73744
10:44:19				1362	10.10384	0.4861328	1.5752	1.51404	8.59585	3.73744
10:44:19				1363	10.10384	0.4864536	1.4768	1.51404	8.49817	3.74008
10:44:20				1364	10.10288	0.4861328	1.4768	1.4652	8.40049	3.73755
10:44:20				1365	10.10288	0.4861328	1.4768	1.56288	8.59585	3.73755
10:44:21				1366	10.10192	0.4859732	1.3784	1.51404	8.35165	3.73634
10:44:21				1367	10.10288	0.4859732	1.3784	1.51404	8.54701	3.73624
10:44:22				1368	10.10192	0.4861328	1.3784	1.4652	8.49817	3.73765
10:44:22				1369	10.10288	0.4861328	1.3784	1.51404	8.54701	3.73755
10:44:23				1370	10.10192	0.4861328	1.4768	1.51404	8.59585	3.73765
10:44:23				1371	10.10288	0.4864536	1.4768	1.51404	8.59585	3.74018
10:44:24				1372	10.10384	0.4867745	1.4768	1.51404	8.49817	3.74271
10:44:24				1373	10.10288	0.4869341	1.4768	1.51404	8.44933	3.74412
10:44:25				1374	10.10288	0.4866132	1.4768	1.4652	8.44933	3.74149
10:44:25				1375	10.10288	0.4867745	1.4768	1.51404	8.40049	3.74281
10:44:26				1376	10.10384	0.4866132	1.5752	1.51404	8.40049	3.74138
10:44:26				1377	10.10384	0.4864536	1.5752	1.51404	8.30281	3.74007
10:44:27				1378	10.10384	0.4867745	1.4768	1.51404	8.49817	3.74271
10:44:27				1379	10.10577	0.4870954	1.4768	1.4652	8.30281	3.74514
10:44:28				1380	10.10673	0.4877358	1.4768	1.51404	8.79121	3.7503
10:44:28				1381	10.1077	0.4886976	1.4768	1.51404	8.49817	3.75809
10:44:29				1382	10.10673	0.4890189	1.5752	1.51404	8.40049	3.76082
10:44:29				1383	10.10673	0.4885378	1.4768	1.51404	8.35165	3.75687
10:44:30				1384	10.1077	0.4880568	1.2801	1.51404	8.35165	3.75284
10:44:30				1385	10.1077	0.4878955	1.2801	1.51404	8.35165	3.75152
10:44:31				1386	10.10866	0.4880569	1.4768	1.51404	8.25397	3.75273
10:44:31				1387	10.1077	0.4880569	1.5752	1.51404	8.44933	3.75282
10:44:32				1388	10.10866	0.4878955	1.5752	1.56288	8.35165	3.7514
10:44:32				1389	10.1077	0.4878955	1.5752	1.51404	8.49817	3.7515
10:44:33				1390	10.1077	0.487255	1.5752	1.4652	8.25397	3.74625
10:44:33				1391	10.10866	0.4869341	1.5752	1.51404	8.30281	3.74352
10:44:34				1392	10.11059	0.4875761	1.4768	1.4652	8.25397	3.74859
10:44:34				1393	10.10962	0.487255	1.4768	1.51404	8.54701	3.74606
10:44:35				1394	10.10866	0.4864536	1.3784	1.51404	8.25397	3.73959
10:44:35				1395	10.10673	0.4861328	1.3784	1.51404	8.54701	3.73716
10:44:36				1396	10.1077	0.4866132	1.3784	1.51404	8.35165	3.741
10:44:36				1397	10.10673	0.486294	1.3784	1.4652	8.30281	3.73848
10:44:37				1398	10.10866	0.4861328	1.2801	1.51404	8.49817	3.73696
10:44:37				1399	10.10962	0.486294	1.1817	1.51404	8.79121	3.73819

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:44:38				1400	10.10962	0.4864536	1.0833	1.51404	9.03541	3.73951
10:44:38				1401	10.1077	0.4870954	1.0833	1.51404	8.44933	3.74497
10:44:39				1402	10.10673	0.4870954	1.1817	1.4652	8.64469	3.74506
10:44:39				1403	10.10577	0.4877357	1.1817	1.51404	10.15873	3.75041
10:44:40				1404	10.10288	0.4880568	1.0833	1.51404	8.74237	3.75335
10:44:40				1405	10.10384	0.4877358	1.1817	1.51404	8.59585	3.75061
10:44:41				1406	10.10288	0.487576	1.1817	1.56288	8.88889	3.7494
10:44:41				1407	10.10288	0.4882166	1.2801	1.4652	8.59585	3.75465
10:44:42				1408	10.10288	0.4880569	1.2801	1.51404	8.69353	3.75334
10:44:42				1409	10.10288	0.4886976	1.3784	1.51404	8.69353	3.75859
10:44:43				1410	10.10192	0.4893385	1.3784	1.51404	8.84005	3.76395
10:44:43				1411	10.10095	0.4870954	1.3784	1.51404	8.54701	3.74564
10:44:44				1412	10.10095	0.4851707	1.4768	1.51404	8.59585	3.72985
10:44:44				1413	10.10288	0.4848501	1.3784	1.4652	8.49817	3.72703
10:44:45				1414	10.10481	0.4845296	1.4768	1.51404	8.49817	3.7242
10:44:45				1415	10.10481	0.4840498	1.5752	1.4652	8.44933	3.72027
10:44:46				1416	10.10577	0.4837277	1.5752	1.51404	8.44933	3.71753
10:44:46				1417	10.10384	0.4843702	1.5752	1.51404	8.44933	3.72299
10:44:47				1418	10.10384	0.4846907	1.5752	1.51404	8.59585	3.72562
10:44:47				1419	10.10095	0.4848501	1.6736	1.51404	8.40049	3.72721
10:44:48				1420	10.09999	0.4851707	1.6736	1.4652	8.30281	3.72994
10:44:48				1421	10.09902	0.4848501	1.6736	1.51404	8.35165	3.72741
10:44:49				1422	10.09902	0.4848501	1.6736	1.56288	8.40049	3.72741
10:44:49				1423	10.10095	0.4848501	1.6736	1.51404	8.35165	3.72721
10:44:50				1424	10.09999	0.4851707	1.6736	1.51404	8.40049	3.72994
10:44:50				1425	10.10095	0.4856525	1.6736	1.4652	8.59585	3.73379
10:44:51				1426	10.10095	0.4859732	1.772	1.51404	8.15629	3.73642
10:44:51				1427	10.10288	0.4859732	1.772	1.51404	8.54701	3.73622
10:44:52				1428	10.10577	0.4864536	1.772	1.51404	8.40049	3.73986
10:44:52				1429	10.10673	0.4864536	1.772	1.51404	8.30281	3.73976
10:44:53				1430	10.10673	0.4864536	1.772	1.4652	8.15629	3.73976
10:44:53				1431	10.10481	0.4872551	1.772	1.51404	8.64469	3.74653
10:44:54				1432	10.10384	0.4875761	1.8703	1.51404	8.69353	3.74926
10:44:54				1433	10.10384	0.4866132	1.8703	1.51404	8.30281	3.74136
10:44:55				1434	10.10384	0.4869341	1.772	1.56288	8.25397	3.744
10:44:55				1435	10.10384	0.4936681	1.772	1.51404	8.30281	3.79926
10:44:56				1436	10.10384	0.492385	1.8703	1.51404	8.40049	3.78872
10:44:56				1437	10.10481	0.4886976	1.9687	1.51404	8.40049	3.75836
10:44:57				1438	10.10481	0.4867745	1.8703	1.51404	8.25397	3.74259
10:44:57				1439	10.10481	0.4896599	1.8703	1.56288	8.30281	3.76626
10:44:58				1440	10.10577	0.4901413	1.9687	1.51404	8.49817	3.7701
10:44:58				1441	10.10577	0.488378	1.9687	1.51404	8.20513	3.75564
10:44:59				1442	10.10577	0.4874147	1.8703	1.51404	8.30281	3.74774
10:44:59				1443	10.10481	0.4870954	1.772	1.4652	8.64469	3.74523
10:45:00				1444	10.10577	0.4890189	1.8703	1.56288	8.74237	3.7609

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:01				1447	10.10529	0.4866	1.772	1.51404	8.79121	3.74111
10:45:02				1448	10.10529	0.4864404	1.772	1.51404	8.44933	3.7398
10:45:02				1449	10.10336	0.4866001	1.8703	1.51404	8.15629	3.74131
10:45:03				1450	10.1024	0.4930124	1.9687	1.51404	8.15629	3.79402
10:45:03				1451	10.10625	0.4883632	2.0671	1.51404	8.44933	3.75546
10:45:04				1452	10.10529	0.4882035	2.0671	1.51404	8.35165	3.75425
10:45:04				1453	10.10432	0.4869209	1.8703	1.4652	8.30281	3.74384
10:45:05				1454	10.10432	0.4939754	1.8703	1.51404	8.49817	3.80173
10:45:05				1455	10.10625	0.4939754	2.1655	1.56288	8.25397	3.80151
10:45:06				1456	10.10914	0.4950977	2.3623	1.51404	8.15629	3.81041
10:45:06				1457	10.11107	0.4946166	2.3623	1.51404	8.30281	3.80626
10:45:07				1458	10.113	0.4952581	2.6574	1.51404	8.20513	3.81131
10:45:07				1459	10.11203	0.4960585	2.9526	1.51404	8.05861	3.81796
10:45:08				1460	10.11492	0.4971805	3.3461	1.51404	8.25397	3.82685
10:45:08				1461	10.11589	0.4975016	3.6412	1.51404	8.35165	3.82937
10:45:09				1462	10.11589	0.4971805	3.6412	1.51404	8.20513	3.82673
10:45:09				1463	10.11589	0.4987834	3.7396	1.4652	8.30281	3.83989
10:45:10				1464	10.11589	0.5242756	3.9364	1.51404	8.44933	4.0497
10:45:10				1465	10.12456	0.5720638	4.1331	1.51404	8.59585	4.44421
10:45:11				1466	10.13515	0.5391878	4.3299	1.51404	8.05861	4.1706
10:45:11				1467	10.13901	0.5348593	4.3299	1.56288	7.71673	4.13442
10:45:12				1468	10.1313	0.5350198	4.2315	1.51404	7.91209	4.13662
10:45:12				1469	10.13901	0.5816867	4.3299	1.51404	7.91209	4.52237
10:45:13				1470	10.16218	0.591792	4.5267	1.51404	8.15629	4.6035
10:45:13				1471	10.18528	0.5908299	4.7234	1.51404	7.27717	4.59257
10:45:14				1472	10.21421	0.5938777	4.9202	1.56288	6.73993	4.61424
10:45:14				1473	10.2219	0.6156921	5.2153	1.51404	6.83761	4.79477
10:45:15				1474	10.271	0.5967644	5.4121	1.51404	7.08181	4.63098
10:45:15				1475	10.24402	0.5993305	5.3137	12.69841	6.34921	4.65573
10:45:16				1476	10.23441	0.6046248	5.3137	4.49328	6.54457	4.70098
10:45:16				1477	10.2671	0.6049453	5.5105	2.34432	6.78877	4.69942
10:45:17				1478	10.26517	0.5982076	5.5105	3.32112	6.59341	4.6437
10:45:17				1479	10.24787	0.5982076	5.4121	3.80952	6.64225	4.64591
10:45:18				1480	10.23248	0.6221103	5.4121	3.1746	6.78877	4.84686
10:45:18				1481	10.29311	0.6511498	5.5105	4.3956	6.54457	5.08102
10:45:19				1482	10.38343	0.6246766	5.4121	7.47253	6.39805	4.84818
10:45:19				1483	10.40652	0.6184195	5.5105	11.37973	5.95849	4.79319
10:45:20				1484	10.34792	0.6318951	5.4121	11.86813	6.20269	4.91295
10:45:20				1485	10.36616	0.6429664	5.4121	8.44933	6.69109	5.00267
10:45:21				1486	10.37959	0.6264408	5.5105	7.86325	6.49573	4.86334
10:45:21				1487	10.35752	0.6163347	5.4121	9.62149	6.10501	4.78231
10:45:22				1488	10.32961	0.6532341	5.4121	8.59585	6.49573	5.09336
10:45:22				1489	10.34888	0.645534	5.5105	8.84005	6.83761	5.02643
10:45:23				1490	10.34216	0.6407193	5.7073	7.47253	6.05617	4.9872
10:45:23				1491	10.33351	0.6381523	5.5105	7.91209	5.90965	4.967

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:24				1492	10.32577	0.6413611	5.5105	6.93529	6.39805	4.9948
10:45:24				1493	10.31328	0.6814768	5.7073	2.73504	7.13065	5.332
10:45:25				1494	10.3412	0.6487416	5.8056	6.25153	6.73993	5.05422
10:45:25				1495	10.32481	0.6665526	5.8056	8.10745	5.42125	5.20533
10:45:26				1496	10.32385	0.7297868	5.8056	7.86325	5.71429	5.73663
10:45:26				1497	10.36424	0.7484065	6.1992	7.37485	5.86081	5.88726
10:45:27				1498	10.4305	0.7204755	6.2976	4.73748	5.32357	5.64163
10:45:27				1499	10.41228	0.7151793	6.1992	4.20024	4.93284	5.59996
10:45:28				1500	10.42187	0.7830845	6.2976	4.83516	5.07937	6.17084
10:45:28				1501	10.44872	0.7951259	6.7895	3.9072	5.17705	6.26816
10:45:29				1502	10.43433	0.7787498	6.8878	3.85836	5.12821	6.13203
10:45:29				1503	10.44584	0.7617313	6.6911	1.51404	4.3956	5.98641
10:45:30				1504	10.45063	0.7859749	6.6911	1.51404	4.54212	6.1904
10:45:30				1505	10.43817	0.8097387	7.0846	1.51404	4.59096	6.3938
10:45:31				1506	10.43529	0.7936804	7.183	1.51404	4.44444	6.25818
10:45:31				1507	10.42954	0.7936804	7.0846	1.51404	4.10256	6.25917
10:45:32				1508	10.42474	0.8039573	7.0846	1.51404	4.20024	6.3471
10:45:32				1509	10.43817	0.8259566	7.2814	1.4652	4.44444	6.53148
10:45:33				1510	10.46603	0.8147172	7.3798	1.51404	4.05372	6.43112
10:45:33				1511	10.47178	0.8150369	7.3798	1.56288	3.95604	6.43282
10:45:34				1512	10.46507	0.8310963	7.2814	1.51404	4.05372	6.57034
10:45:34				1513	10.48041	0.8744612	7.4781	1.51404	4.34676	6.93671
10:45:35				1514	10.54847	0.8428197	7.5765	1.4652	4.3956	6.6548
10:45:35				1515	10.53219	0.8420173	7.3798	1.51404	4.00488	6.65097
10:45:36				1516	10.51011	0.8232282	7.183	1.51404	4.20024	6.49553
10:45:36				1517	10.50627	0.8734968	7.3798	1.51404	4.24908	6.9236
10:45:37				1518	10.57718	0.8574343	7.5765	1.51404	4.49328	6.77364
10:45:37				1519	10.61264	0.8559887	7.6749	1.4652	3.27228	6.75481
10:45:38				1520	10.56953	0.8476375	7.3798	1.51404	2.97924	6.69188
10:45:38				1521	10.52166	0.8209798	7.183	1.56288	3.71184	6.47442
10:45:39				1522	10.50627	0.8715691	7.3798	1.51404	4.05372	6.90717
10:45:39				1523	10.56283	0.8530983	7.5765	1.51404	3.76068	6.73945
10:45:40				1524	10.5849	0.8447468	7.5765	1.51404	3.1746	6.66454
10:45:40				1525	10.5456	0.8473175	7.3798	1.51404	3.36996	6.69353
10:45:41				1526	10.5207	0.8344678	7.2814	1.51404	3.663	6.58897
10:45:41				1527	10.53411	0.8519739	7.2814	1.51404	3.9072	6.73521
10:45:42				1528	10.54943	0.8749424	7.3798	1.56288	4.00488	6.92776
10:45:42				1529	10.57144	0.8569524	7.4781	1.51404	3.46764	6.77062
10:45:43				1530	10.58298	0.8439438	7.4781	1.51404	3.32112	6.65808
10:45:43				1531	10.56474	0.8506897	7.3798	1.51404	3.1746	6.71867
10:45:44				1532	10.55517	0.8743012	7.3798	1.4652	3.07692	6.92121
10:45:44	10:44:20 start transect	7.5	90	1533	10.6002	0.8755855	7.4781	1.56288	3.4188	6.92363
10:45:45				1534	10.62507	0.8643423	7.4781	1.51404	3.71184	6.82343
10:45:45				1535	10.59925	0.8637	7.3798	1.51404	3.12576	6.82279
10:45:46				1536	10.6002	0.8763888	7.3798	1.51404	2.9304	6.93047

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:45:46				1537	10.62411	0.8768704	7.4781	1.51404	3.1746	6.93004
10:45:47				1538	10.62889	0.8685167	7.4781	1.51404	3.07692	6.85816
10:45:47				1539	10.62889	0.8733367	7.3798	1.51404	3.07692	6.89911
10:45:48				1540	10.64521	0.8763886	7.2814	1.51404	3.07692	6.92198
10:45:48				1541	10.64616	0.877834	7.3798	1.51404	3.07692	6.93407
10:45:49				1542	10.65668	0.8749421	7.5765	1.4652	3.1746	6.9075
10:45:49				1543	10.65859	0.8744607	7.4781	1.51404	3.07692	6.90307
10:45:50				1544	10.65763	0.8656254	7.2814	1.56288	3.02808	6.82828
10:45:50				1545	10.64999	0.8768703	7.2814	1.51404	3.27228	6.92517
10:45:51				1546	10.6605	0.8744607	7.2814	1.51404	3.22344	6.90273
10:45:51				1547	10.6605	0.8698019	7.2814	1.4652	3.36996	6.86318
10:45:52				1548	10.65094	0.8494041	7.2814	1.51404	3.4188	6.69201
10:45:52				1549	10.62411	0.8567916	7.183	1.51404	3.46764	6.75956
10:45:53				1550	10.59542	0.8500468	7.0846	1.51404	3.51648	6.70762
10:45:53				1551	10.55613	0.8360736	6.9862	1.51404	3.76068	6.59625
10:45:54				1552	10.52166	0.8351104	7.0846	1.4652	3.9072	6.59427
10:45:54				1553	10.51011	0.8294895	7.0846	1.51404	4.05372	6.54864
10:45:55				1554	10.51106	0.820337	7.0846	1.51404	4.1514	6.47086
10:45:55				1555	10.4852	0.8211401	6.9862	1.51404	3.9072	6.48225
10:45:56				1556	10.47274	0.8166437	6.9862	1.51404	4.00488	6.44631
10:45:56				1557	10.47178	0.8333442	7.183	1.4652	4.29792	6.58824
10:45:57				1558	10.49286	0.8193741	7.183	1.51404	4.05372	6.4659
10:45:57				1559	10.4852	0.8185697	7.183	1.51404	3.9072	6.46043
10:45:58				1560	10.4622	0.8068481	7.0846	1.51404	3.95604	6.3651
10:45:58				1561	10.44296	0.8600046	7.183	1.56288	4.24908	6.82047
10:45:59				1562	10.48328	0.8468357	7.2814	1.4652	4.34676	6.70085
10:45:59				1563	10.51298	0.8135928	7.2814	1.51404	4.05372	6.41336
10:46:00				1564	10.4468	0.8177676	7.183	1.51404	4.24908	6.46041
10:46:01				1567	10.48843	0.8212927	7.183	1.51404	3.95604	6.48295
10:46:02				1568	10.41359	0.8113363	7.0846	1.51404	3.80952	6.41166
10:46:02				1569	10.40304	0.7989722	7.0846	1.51404	4.3956	6.30858
10:46:03				1570	10.38187	0.8002564	7.183	1.51404	4.6398	6.32312
10:46:03				1571	10.37995	0.7996152	7.0846	1.56288	4.20024	6.31802
10:46:04				1572	10.36748	0.7992937	6.9862	1.4652	4.34676	6.31746
10:46:04				1573	10.36076	0.7992938	6.9862	1.51404	4.59096	6.31862
10:46:05				1574	10.36652	0.799776	6.9862	1.51404	4.29792	6.32172
10:46:05				1575	10.37324	0.7999348	6.9862	1.51404	4.44444	6.32191
10:46:06				1576	10.37708	0.7999348	6.9862	1.51404	4.49328	6.32124
10:46:06				1577	10.38475	0.8010605	6.9862	1.51404	4.44444	6.32947
10:46:07				1578	10.38667	0.8012194	6.9862	1.4652	4.24908	6.33048
10:46:07				1579	10.38859	0.8018629	6.9862	1.51404	4.1514	6.33561
10:46:08				1580	10.38955	0.8028266	6.9862	1.51404	4.20024	6.34362
10:46:08				1581	10.39051	0.8028266	6.9862	1.51404	4.34676	6.34346
10:46:09				1582	10.40304	0.8036277	6.9862	1.51404	4.34676	6.34808
10:46:09				1583	10.4088	0.8047531	6.9862	1.51404	4.20024	6.35663

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:10				1584	10.40496	0.8185622	7.0846	1.51404	4.24908	6.47456
10:46:10				1585	10.45675	0.8246645	7.0846	1.4652	4.29792	6.51721
10:46:11				1586	10.47981	0.8195246	7.0846	1.51404	4.29792	6.46949
10:46:11				1587	10.44812	0.809731	6.9862	1.51404	4.00488	6.392
10:46:12				1588	10.41168	0.8431317	7.0846	1.51404	4.1514	6.68243
10:46:12				1589	10.50568	0.8289994	7.183	1.51404	4.34676	6.54527
10:46:13				1590	10.4961	0.8373504	7.183	1.4652	4.10256	6.61789
10:46:13				1591	10.521	0.8593533	7.183	1.51404	4.00488	6.8004
10:46:14				1592	10.61587	0.8628869	7.183	1.51404	4.00488	6.81282
10:46:14				1593	10.63021	0.863529	7.183	1.51404	3.32112	6.8156
10:46:15				1594	10.65506	0.8871399	7.0846	1.51404	3.22344	7.0115
10:46:15				1595	10.68379	0.8864976	7.2814	1.4652	3.27228	7.00054
10:46:16				1596	10.69335	0.877824	7.3798	1.51404	2.83272	6.92508
10:46:16				1597	10.68857	0.8795904	7.2814	1.56288	2.78388	6.94098
10:46:17				1598	10.7029	0.880555	7.2814	1.51404	2.83272	6.94646
10:46:17				1599	10.71149	0.8744507	7.2814	1.51404	3.02808	6.89306
10:46:18				1600	10.70767	0.875897	7.2814	1.4652	3.02808	6.90604
10:46:18				1601	10.69143	0.8763786	7.2814	1.51404	2.83272	6.91318
10:46:19				1602	10.6685	0.8516432	7.2814	1.51404	3.1746	6.70777
10:46:19				1603	10.55744	0.8492344	7.183	1.51404	3.51648	6.70767
10:46:20				1604	10.51621	0.8701154	7.0846	1.51404	3.76068	6.89294
10:46:20				1605	10.56701	0.8811981	7.2814	1.4652	3.80952	6.97771
10:46:21				1606	10.62256	0.8680267	7.3798	1.51404	3.56532	6.85519
10:46:21	10:44:57 @ 6:00	7.5	180	1607	10.60247	0.848914	7.183	1.51404	3.22344	6.69672
10:46:22				1608	10.55266	0.8204894	7.0846	1.51404	3.51648	6.4648
10:46:22				1609	10.50759	0.848272	7.183	1.51404	3.76068	6.70862
10:46:23				1610	10.51334	0.8342989	7.3798	1.4652	3.80952	6.58885
10:46:23				1611	10.49514	0.8347804	7.2814	1.51404	3.80952	6.59623
10:46:24				1612	10.4731	0.8228978	7.0846	1.51404	3.71184	6.4993
10:46:24				1613	10.4846	0.8473079	7.183	1.51404	4.20024	6.70463
10:46:25				1614	10.48077	0.8383147	7.3798	1.51404	3.80952	6.62884
10:46:25				1615	10.49801	0.8333363	7.3798	1.4652	3.80952	6.58344
10:46:26				1616	10.47597	0.823379	7.2814	1.51404	3.85836	6.50286
10:46:26				1617	10.48172	0.828678	7.2814	1.51404	4.1514	6.54681
10:46:27				1618	10.4731	0.824504	7.2814	1.51404	3.95604	6.51292
10:46:27				1619	10.47502	0.8241831	7.2814	1.51404	4.00488	6.50985
10:46:28				1620	10.47502	0.824504	7.2814	1.51404	3.80952	6.51258
10:46:28				1621	10.47502	0.823379	7.3798	1.4652	3.85836	6.50302
10:46:29				1622	10.47502	0.8238622	7.2814	1.51404	3.95604	6.50713
10:46:29				1623	10.47789	0.8460223	7.2814	1.51404	3.9072	6.69491
10:46:30				1624	10.48077	0.8265911	7.4781	1.51404	3.95604	6.52925
10:46:30				1625	10.4846	0.8267517	7.2814	1.4652	3.85836	6.52995
10:46:31				1626	10.49993	0.8288387	7.0846	1.51404	3.9072	6.54494
10:46:31				1627	10.49993	0.8900322	7.3798	1.51404	3.85836	7.06591
10:46:32				1628	10.53351	0.8487542	7.5765	1.51404	4.00488	6.70793

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:32				1629	10.51238	0.8325331	7.2814	1.51404	3.85836	6.57404
10:46:33				1630	10.51525	0.8233789	6.9862	1.51404	3.85836	6.49591
10:46:33				1631	10.50184	0.8394387	7.183	1.51404	4.00488	6.63459
10:46:34				1632	10.51525	0.8342989	7.4781	1.51404	4.05372	6.5885
10:46:34				1633	10.52579	0.8339786	7.3798	1.51404	3.85836	6.58389
10:46:35				1634	10.521	0.8246643	7.0846	1.56288	3.9072	6.50578
10:46:35				1635	10.50472	0.820007	6.9862	1.51404	3.85836	6.46919
10:46:36				1636	10.47981	0.8344601	7.183	1.51404	4.00488	6.59628
10:46:36				1637	10.51334	0.8256275	7.2814	1.51404	3.9072	6.51529
10:46:37				1638	10.51238	0.8246644	7.2814	1.51404	3.9072	6.50729
10:46:37				1639	10.51909	0.8267516	7.183	1.51404	3.85836	6.52381
10:46:38				1640	10.52675	0.8265909	7.183	1.51404	3.9072	6.52108
10:46:38				1641	10.51813	0.8249854	7.2814	1.4652	4.10256	6.50899
10:46:39				1642	10.51238	0.8227374	7.2814	1.51404	3.85836	6.49095
10:46:39				1643	10.5028	0.8296426	7.183	1.51404	3.9072	6.55124
10:46:40				1644	10.51909	0.8328551	7.4781	1.51404	4.20024	6.57555
10:46:40				1645	10.52387	0.8299642	7.4781	1.51404	3.9072	6.55017
10:46:41				1646	10.521	0.8280369	7.2814	1.51404	3.85836	6.53436
10:46:41				1647	10.51525	0.8254669	7.0846	1.51404	4.00488	6.51361
10:46:42				1648	10.50951	0.8660996	7.3798	1.4652	4.00488	6.85996
10:46:42				1649	10.52387	0.842812	7.6749	1.51404	3.95604	6.6592
10:46:43				1650	10.5277	0.8334973	7.5765	1.51404	3.51648	6.57945
10:46:43				1651	10.5028	0.820007	7.0846	1.4652	3.80952	6.46952
10:46:44				1652	10.48652	0.8294818	7.183	1.51404	3.95604	6.55279
10:46:44				1653	10.50376	0.8375118	7.5765	1.51404	4.00488	6.61784
10:46:45				1654	10.52483	0.8322111	7.5765	1.51404	3.85836	6.56905
10:46:45				1655	10.51813	0.8272335	7.2814	1.51404	3.80952	6.52806
10:46:46				1656	10.51909	0.8273941	7.0846	1.51404	3.76068	6.52927
10:46:46				1657	10.52196	0.8498771	7.183	1.51404	3.9072	6.71963
10:46:47				1658	10.53351	0.8407228	7.4781	1.4652	3.85836	6.63973
10:46:47				1659	10.53542	0.8339786	7.3798	1.56288	3.9072	6.58216
10:46:48				1660	10.53638	0.832211	7.183	1.51404	3.76068	6.56702
10:46:48				1661	10.53351	0.8465059	7.2814	1.51404	3.9072	6.68886
10:46:49				1662	10.52872	0.8365478	7.4781	1.51404	3.95604	6.60516
10:46:49				1663	10.5277	0.8362272	7.3798	1.51404	3.663	6.60263
10:46:50				1664	10.52483	0.8375117	7.2814	1.51404	3.71184	6.61406
10:46:50				1665	10.521	0.8396001	7.3798	1.51404	3.80952	6.63247
10:46:51				1666	10.52292	0.8342989	7.5765	1.51404	3.76068	6.58711
10:46:51				1667	10.52387	0.8351027	7.4781	1.51404	3.61416	6.59377
10:46:52				1668	10.52292	0.8341397	7.3798	1.4652	3.85836	6.58578
10:46:52				1669	10.52483	0.8399211	7.2814	1.51404	3.76068	6.63451
10:46:53				1670	10.52872	0.8577479	7.3798	1.51404	3.85836	6.78529
10:46:53				1671	10.54117	0.8453805	7.5765	1.51404	3.51648	6.67787
10:46:54				1672	10.54979	0.8413651	7.4781	1.4652	3.61416	6.64223
10:46:54	10:45:30 end transect	7.5	270	1673	10.53255	0.8415267	7.3798	1.4652	3.51648	6.64674

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:46:55				1674	10.53255	0.8572659	7.4781	1.51404	3.76068	6.78047
10:46:55	reposition to 90			1675	10.54979	0.8479498	7.6749	1.51404	3.56532	6.69811
10:46:56				1676	10.54213	0.8457023	7.4781	1.51404	3.4188	6.68044
10:46:56				1677	10.53064	0.8383145	7.2814	1.51404	3.71184	6.61983
10:46:57				1678	10.53255	0.838474	7.2814	1.4652	3.80952	6.62083
10:46:57				1679	10.52968	0.832372	7.183	1.51404	3.76068	6.56958
10:46:58				1680	10.51334	0.8286779	6.8878	1.51404	3.85836	6.5412
10:46:58				1681	10.5028	0.8306057	6.8878	1.51404	3.85836	6.55944
10:46:59				1682	10.49897	0.8273942	6.8878	1.51404	4.05372	6.53287
10:46:59				1683	10.47981	0.8139046	6.5927	1.4652	3.85836	6.42188
10:47:00				1684	10.32325	0.7764937	6.0024	1.51404	3.9072	6.13165
10:47:01				1687	10.16512	0.7066808	4.9202	1.51404	5.61661	5.56631
10:47:02				1688	10.16705	0.6068767	4.5267	1.4652	5.71429	4.7285
10:47:02				1689	10.15165	0.5260454	4.0348	1.51404	6.25153	4.06031
10:47:03				1690	10.13624	0.5324583	3.6412	1.56288	7.37485	4.11495
10:47:03				1691	10.13046	0.5116152	3.3461	1.51404	8.20513	3.94385
10:47:04				1692	10.12943	0.4997512	3.0509	1.51404	8.40049	3.84645
10:47:04				1693	10.12173	0.4946216	2.559	1.4652	8.35165	3.80517
10:47:05				1694	10.11498	0.4906129	2.1655	1.51404	8.49817	3.773
10:47:05				1695	10.11691	0.4904529	1.8703	1.51404	8.59585	3.77151
10:47:06				1696	10.11498	0.4898116	1.6736	1.51404	8.84005	3.76646
10:47:06				1697	10.11209	0.4885295	1.1817	1.51404	9.03541	3.75627
10:47:07				1698	10.11113	0.4875678	1.0833	1.4652	8.64469	3.74849
10:47:07				1699	10.11017	0.4878872	0.9849	1.51404	9.23077	3.75121
10:47:08				1700	10.1092	0.0838242	0.7881	1.51404	8.44933	0.58571
10:47:08				1701	10.1198	0.4872468	0.5914	1.56288	15.38462	3.74499
10:47:09				1702	10.11498	0.4874064	0.7881	0	0	3.74679
10:47:09				1703	10.11402	0.4878872	0.9849	0	0	3.75082
10:47:10				1704	10.11209	0.4893303	0.7881	0	0	3.76286
10:47:10				1705	10.11691	0.1068429	0.5914	0	0	0.75444
10:47:11				1706	10.14587	0.0620878	0.5914	0	0	0.42815
10:47:11				1707	10.2008	0.0577734	0.5914	0	0	0.39672
10:47:12				1708	10.26914	0.0451489	0.5914	0	0	0.30676
10:47:12				1709	10.34126	0.05218	0.5914	0	0	0.35564
10:47:13				1710	10.41042	0.0424331	0.5914	0	0	0.28664
10:47:13				1711	10.47088	0.0406751	0.6898	0	0	0.27396
10:47:14				1712	10.5198	0.0366808	0.5914	0	0	0.24596
10:47:14				1713	10.5706	0.0425927	0.6898	0	0	0.28655
10:47:15				1714	10.63284	0.0582523	0.6898	0	0	0.39556
10:47:15				1715	10.68063	0.0703979	0.6898	0	0	0.48093
10:47:16				1716	10.71316	0.0483444	0.5914	0	0	0.3254
10:47:16				1717	10.74563	0.0580922	0.6898	0	0	0.39325
10:47:17				1718	10.78576	0.0686398	0.6898	0	0	0.46714
10:47:17	10:45:59 switch off	7.5	90	1719	10.82016	0.083824	0.6898	0	0	0.57464

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:51:58	10:50:31 switch on	5	90	7	10.14087	0.4938465	1.2801	0	0	3.79689
10:51:59				8	10.14183	0.4936862	1.2801	0	0	3.79548
10:51:59				9	10.13895	0.4949686	1.2801	0	0	3.8063
10:52:00				10	10.13702	0.4952894	1.2801	0	0	3.80913
10:52:00				11	10.13798	0.4956102	1.2801	0	0	3.81166
10:52:01				12	10.13798	0.4943273	1.3784	0	0	3.80113
10:52:01				13	10.13895	0.4928835	1.2801	0	0	3.7892
10:52:02				14	10.13991	0.4952894	1.2801	0	0	3.80883
10:52:02				15	10.13895	0.495129	1.2801	0	0	3.80762
10:52:03				16	10.13798	0.4932056	1.2801	0	0	3.79194
10:52:03				17	10.13991	0.4936862	1.2801	0	0	3.79568
10:52:04				18	10.13895	0.4948083	1.1817	0	0	3.80499
10:52:04				19	10.13895	0.4938465	1.2801	0	0	3.79709
10:52:05				20	10.13798	0.4932056	1.2801	0	0	3.79194
10:52:05				21	10.13895	0.494648	1.2801	0	0	3.80367
10:52:06				22	10.13702	0.4943273	1.3784	0	0	3.80123
10:52:06				23	10.13991	0.4932056	1.3784	0	0	3.79173
10:52:07				24	10.14183	0.4938465	1.2801	0	0	3.79679
10:52:07				25	10.13702	0.4954498	1.2801	0	0	3.81045
10:52:08				26	10.13509	0.4956102	1.2801	0	0	3.81197
10:52:08				27	10.13702	0.4938465	1.2801	0	0	3.79729
10:52:09				28	10.13702	0.4938465	1.2801	0	0	3.79729
10:52:09				29	10.13895	0.495129	1.2801	0	0	3.80762
10:52:10				30	10.14087	0.4962503	1.2801	0	0	3.81661
10:52:10				31	10.13798	0.4944876	1.2801	0	0	3.80245
10:52:11				32	10.13606	0.4936862	1.2801	0	0	3.79608
10:52:11				33	10.13606	0.4940067	1.2801	0	0	3.79871
10:52:12				34	10.13606	0.495129	1.2801	0	0	3.80792
10:52:12				35	10.13702	0.4949686	1.2801	0	0	3.8065
10:52:13				36	10.13798	0.4952894	1.3784	0	0	3.80903
10:52:13				37	10.13895	0.4952894	1.3784	0	0	3.80893
10:52:14				38	10.13798	0.4949686	1.2801	0	0	3.8064
10:52:14				39	10.13798	0.495129	1.2801	0	0	3.80772
10:52:15				40	10.13798	0.495129	1.3784	0	0	3.80771
10:52:15				41	10.13895	0.4952894	1.3784	0	0	3.80893
10:52:16				42	10.13509	0.4949686	1.2801	0	0	3.8067
10:52:16				43	10.13606	0.4948083	1.2801	0	0	3.80529
10:52:17				44	10.13606	0.4952894	1.2801	0	0	3.80923
10:52:17				45	10.13606	0.4956102	1.2801	0	0	3.81187
10:52:18				46	10.13509	0.4959311	1.2801	0	0	3.8146
10:52:18				47	10.1322	0.4925632	1.2801	0	0	3.78727
10:52:19				48	10.13124	0.4925632	1.2801	0	0	3.78737
10:52:19				49	10.13028	0.4944876	1.2801	0	0	3.80326
10:52:20				50	10.13028	0.4930437	1.2801	0	0	3.79141
10:52:20				51	10.1322	0.491601	1.2801	0	0	3.77938

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:21				52	10.13413	0.4930437	1.2801	0	0	3.79101
10:52:21				53	10.13509	0.493526	1.2801	0	0	3.79487
10:52:22				54	10.13413	0.4932056	1.2801	0	0	3.79234
10:52:22				55	10.13124	0.4932056	1.2801	0	0	3.79264
10:52:23				56	10.13124	0.493526	1.1817	0	0	3.79527
10:52:23				57	10.13413	0.494167	1.2801	0	0	3.80023
10:52:24				58	10.13702	0.4936862	1.2801	0	0	3.79598
10:52:24				59	10.13798	0.495129	1.2801	0	0	3.80772
10:52:25				60	10.13413	0.4949687	1.2801	0	0	3.8068
10:52:25				61	10.13317	0.4948083	1.2801	0	0	3.80559
10:52:26				62	10.1322	0.494167	1.3784	0	0	3.80042
10:52:26				63	10.13413	0.494648	1.2801	0	0	3.80417
10:52:27				64	10.13509	0.494648	1.2801	0	0	3.80407
10:52:27				65	10.13606	0.4948083	1.2801	0	0	3.80529
10:52:28				66	10.13606	0.4952894	1.2801	0	0	3.80923
10:52:28				67	10.13702	0.4948083	1.2801	0	0	3.80519
10:52:29				68	10.13895	0.4949686	1.3784	0	0	3.80629
10:52:29				69	10.13991	0.495129	1.3784	0	0	3.80751
10:52:30				70	10.13895	0.4960899	1.2801	0	0	3.8155
10:52:30				71	10.13798	0.4940067	1.2801	0	0	3.79851
10:52:31				72	10.13317	0.4956102	1.2801	0	0	3.81217
10:52:31				73	10.13317	0.4949687	1.3784	0	0	3.8069
10:52:32				74	10.13606	0.4943273	1.2801	0	0	3.80134
10:52:32				75	10.13702	0.494648	1.2801	0	0	3.80387
10:52:33				76	10.13702	0.494648	1.2801	0	0	3.80387
10:52:33				77	10.13606	0.4948083	1.2801	0	0	3.80529
10:52:34				78	10.13798	0.4949686	1.2801	0	0	3.8064
10:52:34				79	10.13895	0.4952894	1.2801	0	0	3.80893
10:52:35				80	10.13798	0.495129	1.2801	0	0	3.80772
10:52:35				81	10.14376	0.4949686	1.2801	0	0	3.8058
10:52:36				82	10.14569	0.4952894	1.3784	0	0	3.80822
10:52:36				83	10.14858	0.4954498	1.3784	0	0	3.80923
10:52:37				84	10.1505	0.4988164	1.2801	0	0	3.83666
10:52:37				85	10.1505	0.4991362	1.2801	0	0	3.83929
10:52:38				86	10.1582	0.4970528	1.2801	0	0	3.82138
10:52:38				87	10.15724	0.4964108	1.3784	0	0	3.81621
10:52:39				88	10.14858	0.5007409	1.2801	0	0	3.85266
10:52:39				89	10.14665	0.50058	1.2801	0	0	3.85154
10:52:40				90	10.14472	0.4988164	1.2801	0	0	3.83727
10:52:40				91	10.14376	0.4997776	1.2801	0	0	3.84526
10:52:41				92	10.14183	0.4996185	1.3784	0	0	3.84415
10:52:41				93	10.13702	0.4988164	1.3784	0	0	3.83807
10:52:42				94	10.13606	0.4992969	1.2801	0	0	3.84213
10:52:42				95	10.13413	0.4989771	1.2801	0	0	3.8397
10:52:43				96	10.13798	0.4944876	1.3784	0.68376	0.34188	3.80245

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:52:43				97	10.13028	0.494167	1.2801	0.34188	0.09768	3.80063
10:52:44				98	10.13317	0.494167	1.2801	1.51404	1.02564	3.80033
10:52:44				99	10.12931	0.494167	1.2801	1.51404	1.02564	3.80073
10:52:45				100	10.13124	0.494167	1.2801	1.51404	1.02564	3.80053
10:52:45				101	10.1322	0.4940068	1.3784	1.4652	8.40049	3.79911
10:52:46				102	10.1322	0.4943273	1.3784	1.4652	8.64469	3.80174
10:52:46				103	10.13317	0.494167	1.4768	1.4652	8.35165	3.80031
10:52:47				104	10.13317	0.494167	1.3784	1.51404	8.25397	3.80032
10:52:47				105	10.13606	0.4943273	1.3784	1.51404	8.25397	3.80133
10:52:48				106	10.13606	0.4943273	1.2801	1.4652	8.44933	3.80134
10:52:48				107	10.13606	0.4943273	1.3784	1.4652	8.49817	3.80133
10:52:49				108	10.13895	0.4943273	1.3784	1.4652	8.25397	3.80103
10:52:49				109	10.13798	0.4944876	1.3784	1.51404	8.30281	3.80245
10:52:50				110	10.13509	0.4956102	1.2801	1.51404	8.54701	3.81197
10:52:50				111	10.13413	0.4948083	1.2801	1.51404	10.06105	3.80549
10:52:51				112	10.13606	0.4952894	1.2801	1.4652	8.74237	3.80923
10:52:51				113	10.13606	0.4949686	1.2801	1.51404	8.69353	3.8066
10:52:52				114	10.13413	0.4954498	1.2801	1.4652	8.40049	3.81075
10:52:52				115	10.13317	0.4952894	1.2801	1.4652	8.35165	3.80953
10:52:53				116	10.1322	0.4952894	1.2801	1.51404	8.79121	3.80964
10:52:53				117	10.13124	0.4954498	1.2801	1.51404	8.30281	3.81105
10:52:54				118	10.13509	0.4954498	1.2801	1.51404	8.93773	3.81065
10:52:54				119	10.13413	0.4952894	1.2801	1.4652	8.59585	3.80943
10:52:55				120	10.13606	0.4954498	1.2801	1.51404	8.54701	3.81055
10:52:55				121	10.13413	0.4954498	1.2801	1.4652	8.35165	3.81075
10:52:56				122	10.13509	0.4954498	1.2801	1.4652	8.25397	3.81065
10:52:56				123	10.13413	0.4956102	1.2801	1.51404	8.40049	3.81207
10:52:57				124	10.13606	0.4957706	1.3784	1.4652	8.35165	3.81318
10:52:58				127	10.13281	0.49542	1.3784	1.4652	8.49817	3.81064
10:52:59				128	10.13377	0.4955804	1.3784	1.51404	8.20513	3.81185
10:52:59				129	10.13666	0.4957409	1.3784	1.51404	8.20513	3.81287
10:53:00				130	10.13768	0.4955804	1.2801	1.4652	8.25397	3.81145
10:53:00				131	10.13961	0.4955804	1.3784	1.51404	8.30281	3.81124
10:53:01				132	10.1425	0.4960617	1.3784	1.51404	8.44933	3.81489
10:53:01				133	10.13864	0.4955804	1.3784	1.51404	8.30281	3.81134
10:53:02				134	10.14057	0.4965432	1.3784	1.51404	8.35165	3.81904
10:53:02				135	10.14057	0.4959013	1.3784	1.51404	8.79121	3.81378
10:53:03				136	10.13961	0.4959013	1.3784	1.51404	8.64469	3.81388
10:53:03				137	10.13864	0.4975048	1.3784	1.4652	8.20513	3.82714
10:53:04				138	10.13864	0.4957409	1.3784	1.4652	8.15629	3.81266
10:53:04				139	10.13768	0.4968625	1.3784	1.51404	8.35165	3.82197
10:53:05				140	10.13768	0.4962222	1.3784	1.4652	8.30281	3.81671
10:53:05				141	10.13569	0.4973442	1.2801	1.4652	8.30281	3.82613
10:53:06				142	10.13473	0.4962222	1.3784	1.4652	8.44933	3.81702
10:53:06				143	10.13473	0.4971836	1.3784	1.51404	8.54701	3.82491

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:07				144	10.13473	0.4967037	1.3784	1.51404	8.40049	3.82097
10:53:07				145	10.13377	0.4970231	1.3784	1.51404	8.49817	3.82369
10:53:08				146	10.13473	0.4970231	1.2801	1.4652	8.84005	3.8236
10:53:08				147	10.13473	0.4968626	1.3784	1.51404	8.35165	3.82228
10:53:09				148	10.13864	0.4975048	1.3784	1.51404	8.69353	3.82714
10:53:09				149	10.13666	0.4973442	1.4768	1.51404	8.30281	3.82602
10:53:10				150	10.13473	0.4975048	1.4768	1.51404	8.35165	3.82754
10:53:10				151	10.13569	0.4976654	1.4768	1.51404	8.54701	3.82876
10:53:11				152	10.13377	0.4973442	1.4768	1.4652	8.54701	3.82632
10:53:11	10:51:47 start transect	5	90	153	10.13377	0.4976654	1.3784	1.4652	8.25397	3.82897
10:53:12		5	91.125	154	10.13281	0.4975048	1.4768	1.51404	8.25397	3.82774
10:53:12		5	92.25	155	10.13377	0.4973442	1.4768	1.4652	8.69353	3.82632
10:53:13		5	93.375	156	10.13377	0.4976654	1.4768	1.51404	8.30281	3.82896
10:53:13		5	94.5	157	10.13377	0.4975048	1.4768	1.51404	8.25397	3.82764
10:53:14		5	95.625	158	10.13281	0.4971836	1.3784	1.4652	8.79121	3.82511
10:53:14		5	96.75	159	10.13377	0.4973442	1.4768	1.4652	8.54701	3.82632
10:53:15		5	97.875	160	10.13473	0.4971836	1.4768	1.4652	8.35165	3.82491
10:53:15		5	99	161	10.13377	0.4971836	1.4768	1.4652	8.30281	3.82501
10:53:16		5	100.125	162	10.13281	0.4971836	1.3784	1.4652	8.79121	3.82511
10:53:16		5	101.25	163	10.12895	0.4971836	1.3784	1.4652	9.81685	3.82552
10:53:17		5	102.375	164	10.12414	0.4971837	1.3784	1.4652	8.20513	3.82602
10:53:17		5	103.5	165	10.12221	0.4971837	1.3784	1.4652	7.96093	3.82623
10:53:18		5	104.625	166	10.12221	0.4965432	1.3784	1.4652	8.30281	3.82097
10:53:18		5	105.75	167	10.10872	0.4970231	1.4768	1.4652	8.54701	3.82632
10:53:19		5	106.875	168	10.1039	0.4970231	1.4768	1.51404	8.69353	3.82682
10:53:19		5	108	169	10.09909	0.4967037	1.4768	1.51404	8.69353	3.82471
10:53:20		5	109.125	170	10.10101	0.4959014	1.5752	1.51404	8.40049	3.81791
10:53:20		5	110.25	171	10.10101	0.4968626	1.4768	1.51404	8.25397	3.82581
10:53:21		5	111.375	172	10.10294	0.4968626	1.4768	1.51404	8.35165	3.82561
10:53:21		5	112.5	173	10.1039	0.491733	1.4768	1.51404	8.10745	3.78339
10:53:22		5	113.625	174	10.10294	0.4946183	1.4768	1.4652	8.20513	3.80717
10:53:22		5	114.75	175	10.1039	0.4952597	1.4768	1.51404	8.44933	3.81234
10:53:23		5	115.875	176	10.1039	0.4920532	1.3784	1.51404	8.10745	3.78602
10:53:23		5	117	177	10.10583	0.4941373	1.3784	1.4652	8.15629	3.80293
10:53:24		5	118.125	178	10.10198	0.4914129	1.2801	1.51404	8.25397	3.78097
10:53:24		5	119.25	179	10.10101	0.4930157	1.2801	1.4652	7.86325	3.79423
10:53:25		5	120.375	180	10.12028	0.4933361	1.3784	1.4652	8.05861	3.79484
10:53:25		5	121.5	181	10.12703	0.4928555	1.4768	1.4652	8.00977	3.79019
10:53:26		5	122.625	182	10.11932	0.4933361	1.3784	1.4652	7.96093	3.79494
10:53:26		5	123.75	183	10.12125	0.4933361	1.3784	1.4652	7.91209	3.79474
10:53:27		5	124.875	184	10.13864	0.493336	1.3784	1.4652	8.35165	3.79293
10:53:27		5	126	185	10.12895	0.4949389	1.3784	1.4652	8.30281	3.80709
10:53:28		5	127.125	186	10.11932	0.4936565	1.3784	1.51404	8.25397	3.79757
10:53:28		5	128.25	187	10.11643	0.4936565	1.2801	1.4652	8.59585	3.79788
10:53:29		5	129.375	188	10.11643	0.4933361	1.2801	1.51404	8.59585	3.79525

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:29		5	130.5	189	10.11547	0.4936565	1.2801	1.4652	8.40049	3.79798
10:53:30		5	131.625	190	10.11354	0.4915729	1.2801	1.51404	8.40049	3.78108
10:53:30		5	132.75	191	10.11161	0.4931759	1.2801	1.51404	8.40049	3.79444
10:53:31		5	133.875	192	10.11161	0.4906112	1.3784	1.4652	8.40049	3.77339
10:53:31		5	135	193	10.10776	0.4918931	1.2801	1.4652	8.59585	3.78431
10:53:32		5	136.125	194	10.10776	0.4930157	1.3784	1.51404	8.35165	3.79352
10:53:32		5	137.25	195	10.10679	0.491573	1.3784	1.51404	8.25397	3.78178
10:53:33		5	138.375	196	10.10872	0.4920532	1.3784	1.51404	8.25397	3.78552
10:53:33		5	139.5	197	10.10872	0.4922149	1.3784	1.51404	8.30281	3.78685
10:53:34		5	140.625	198	10.10968	0.4909312	1.3784	1.51404	8.25397	3.77621
10:53:34		5	141.75	199	10.10872	0.4914129	1.3784	1.51404	8.20513	3.78026
10:53:35		5	142.875	200	10.10968	0.4918931	1.3784	1.4652	8.40049	3.7841
10:53:35		5	144	201	10.10872	0.4904513	1.3784	1.4652	8.20513	3.77237
10:53:36		5	145.125	202	10.11065	0.491573	1.3784	1.51404	8.25397	3.78138
10:53:36		5	146.25	203	10.11065	0.4912529	1.3784	1.51404	8.88889	3.77875
10:53:37		5	147.375	204	10.10968	0.4901297	1.4768	1.51404	8.25397	3.76963
10:53:37		5	148.5	205	10.10968	0.4904513	1.4768	1.4652	8.35165	3.77227
10:53:38		5	149.625	206	10.10968	0.4906112	1.3784	1.4652	8.25397	3.77359
10:53:38		5	150.75	207	10.10872	0.4902897	1.3784	1.51404	8.05861	3.77105
10:53:39		5	151.875	208	10.10872	0.4914129	1.3784	1.51404	8.30281	3.78026
10:53:39		5	153	209	10.10872	0.4899698	1.4768	1.51404	8.79121	3.76842
10:53:40		5	154.125	210	10.10776	0.4896484	1.3784	1.4652	8.30281	3.76589
10:53:40		5	155.25	211	10.10872	0.4904513	1.3784	1.4652	8.30281	3.77237
10:53:41		5	156.375	212	10.10872	0.4902897	1.3784	1.51404	8.20513	3.77105
10:53:41		5	157.5	213	10.10872	0.4894885	1.3784	1.51404	8.40049	3.76447
10:53:42		5	158.625	214	10.10776	0.4910912	1.3784	1.51404	8.79121	3.77772
10:53:42		5	159.75	215	10.10679	0.4891688	1.3784	1.4652	18.75458	3.76205
10:53:43		5	160.875	216	10.10776	0.4902897	1.3784	1.51404	14.06593	3.77115
10:53:43		5	162	217	10.10583	0.4898099	1.3784	1.51404	8.88889	3.76741
10:53:44		5	163.125	218	10.10583	0.4904513	1.3784	1.4652	8.88889	3.77267
10:53:44		5	164.25	219	10.10487	0.4902897	1.3784	3.76068	8.54701	3.77145
10:53:45		5	165.375	220	10.10583	0.4888475	1.3784	3.80952	8.54701	3.75951
10:53:45		5	166.5	221	10.10583	0.4901297	1.3784	1.51404	8.00977	3.77003
10:53:46		5	167.625	222	10.10776	0.4898099	1.3784	1.51404	8.25397	3.76721
10:53:46		5	168.75	223	10.10776	0.4886877	1.3784	1.51404	8.40049	3.758
10:53:47		5	169.875	224	10.10776	0.4904513	1.3784	1.51404	8.20513	3.77247
10:53:47		5	171	225	10.10776	0.4886877	1.3784	1.51404	8.25397	3.758
10:53:48		5	172.125	226	10.10776	0.4898099	1.3784	1.4652	8.10745	3.76721
10:53:48		5	173.25	227	10.10872	0.4886877	1.3784	1.51404	7.96093	3.75791
10:53:49		5	174.375	228	10.10872	0.4906112	1.3784	1.4652	7.96093	3.77369
10:53:49		5	175.5	229	10.10968	0.4885263	1.3784	1.4652	8.64469	3.75648
10:53:50		5	176.625	230	10.11065	0.4893286	1.4768	1.51404	8.25397	3.76296
10:53:50		5	177.75	231	10.10872	0.4894885	1.2801	1.51404	7.96093	3.76448
10:53:51		5	178.875	232	10.10968	0.4888475	1.3784	1.51404	7.76557	3.75912
10:53:51	10:52:27 @ 6:00	5	180	233	10.10968	0.4893286	1.3784	1.51404	8.30281	3.76306

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:53:52				234	10.10583	0.4893286	1.3784	1.51404	8.54701	3.76346
10:53:52				235	10.10198	0.4886877	1.4768	1.4652	7.76557	3.7586
10:53:53				236	10.10487	0.4896484	1.3784	1.51404	8.05861	3.76618
10:53:53				237	10.10487	0.4885263	1.3784	1.4652	8.25397	3.75698
10:53:54				238	10.10487	0.4894885	1.3784	1.4652	8.40049	3.76487
10:53:54				239	10.10294	0.4886877	1.3784	1.51404	8.54701	3.7585
10:53:55				240	10.10487	0.4883665	1.3784	1.51404	8.30281	3.75567
10:53:55				241	10.10487	0.4894885	1.3784	1.51404	8.15629	3.76487
10:53:56				242	10.10583	0.4888475	1.3784	1.51404	8.20513	3.75951
10:53:56				243	10.10583	0.4878856	1.4768	1.51404	8.15629	3.75162
10:53:57				244	10.10583	0.4882067	1.3784	1.51404	7.91209	3.75426
10:53:58				247	10.10589	0.4866	1.3784	1.51404	8.00977	3.74107
10:53:59				248	10.10589	0.4880437	1.3784	1.51404	7.91209	3.75291
10:53:59				249	10.10589	0.4898066	1.3784	1.51404	8.30281	3.76738
10:54:00				250	10.10589	0.4857989	1.4768	1.51404	8.49817	3.7345
10:54:00				251	10.10685	0.4849981	1.3784	1.51404	7.91209	3.72784
10:54:01				252	10.10782	0.4883632	1.2801	1.4652	8.00977	3.75534
10:54:01				253	10.10685	0.4866	1.3784	1.4652	8.44933	3.74098
10:54:02				254	10.10589	0.4874016	1.4768	1.51404	8.15629	3.74764
10:54:02				255	10.10685	0.4853187	1.4768	1.51404	8.15629	3.73046
10:54:03				256	10.10685	0.4869209	1.3784	1.4652	8.25397	3.74361
10:54:03				257	10.10589	0.4877226	1.3784	1.51404	8.05861	3.75028
10:54:04				258	10.10589	0.4862792	1.4768	1.51404	8.84005	3.73844
10:54:04				259	10.10589	0.4864404	1.4768	1.51404	8.00977	3.73976
10:54:05				260	10.10589	0.4866	1.3784	1.4652	7.86325	3.74107
10:54:05				261	10.10685	0.4872419	1.2801	1.51404	8.15629	3.74624
10:54:06				262	10.10493	0.484837	1.3784	1.4652	7.96093	3.72672
10:54:06				263	10.10589	0.4861196	1.3784	1.51404	8.15629	3.73714
10:54:07				264	10.10589	0.4856393	1.4768	1.4652	8.20513	3.73319
10:54:07				265	10.10493	0.4846775	1.4768	1.51404	8.00977	3.7254
10:54:08				266	10.10493	0.4846775	1.3784	1.4652	8.25397	3.72541
10:54:08				267	10.10589	0.4851575	1.3784	1.4652	7.96093	3.72925
10:54:09				268	10.10493	0.4851576	1.4768	1.4652	8.35165	3.72934
10:54:09				269	10.10493	0.4846775	1.4768	1.51404	8.15629	3.7254
10:54:10				270	10.10396	0.484837	1.3784	1.51404	8.25397	3.72682
10:54:10				271	10.10396	0.4835552	1.3784	1.51404	8.25397	3.71631
10:54:11				272	10.10005	0.4837146	1.4768	1.4652	8.25397	3.71801
10:54:11				273	10.10101	0.4832333	1.4768	1.4652	8.20513	3.71397
10:54:12				274	10.09812	0.4833943	1.3784	1.51404	8.00977	3.71559
10:54:12				275	10.09619	0.4827538	1.2801	1.51404	7.81441	3.71054
10:54:13				276	10.09812	0.483074	1.3784	1.51404	8.00977	3.71296
10:54:13				277	10.09909	0.4833943	1.4768	1.51404	8.05861	3.71548
10:54:14				278	10.10005	0.4833943	1.4768	1.4652	7.96093	3.71538
10:54:14				279	10.09812	0.4832333	1.3784	1.51404	8.25397	3.71427
10:54:15				280	10.09812	0.4835553	1.3784	1.4652	7.96093	3.7169

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:15				281	10.09909	0.484035	1.3784	1.51404	8.64469	3.72074
10:54:16				282	10.10198	0.4835553	1.4768	1.4652	8.25397	3.71651
10:54:16				283	10.09909	0.4835553	1.4768	1.51404	8.20513	3.7168
10:54:17				284	10.10005	0.4829131	1.4768	1.4652	8.20513	3.71144
10:54:17				285	10.09619	0.4832333	1.3784	1.51404	8.25397	3.71446
10:54:18				286	10.09812	0.4833943	1.2801	1.51404	8.10745	3.71559
10:54:18				287	10.09909	0.4835553	1.4768	1.56288	8.54701	3.7168
10:54:19				288	10.10005	0.4833943	1.5752	1.4652	8.05861	3.71538
10:54:19				289	10.09716	0.4827538	1.2801	1.4652	8.05861	3.71044
10:54:20				290	10.09716	0.4825929	1.1817	1.4652	8.15629	3.70913
10:54:20				291	10.09812	0.4837146	1.3784	1.51404	8.40049	3.71821
10:54:21				292	10.09909	0.483074	1.4768	1.56288	8.15629	3.71286
10:54:21				293	10.09909	0.4833943	1.2801	1.51404	8.25397	3.71549
10:54:22				294	10.09909	0.4838756	1.0833	1.4652	8.25397	3.71945
10:54:22				295	10.10198	0.4838756	1.1817	1.4652	8.20513	3.71915
10:54:23				296	10.10396	0.4854782	1.2801	1.4652	7.96093	3.73208
10:54:23				297	10.10589	0.4866	1.3784	1.51404	8.30281	3.74107
10:54:24				298	10.11071	0.484837	1.4768	1.51404	7.86325	3.72612
10:54:24				299	10.10685	0.4851575	1.3784	1.4652	8.35165	3.72915
10:54:25				300	10.10493	0.4845164	1.1817	1.51404	8.25397	3.7241
10:54:25				301	10.10685	0.4846775	1.3784	1.4652	8.98657	3.72521
10:54:26				302	10.10589	0.4845165	1.4768	1.56288	8.49817	3.72399
10:54:26				303	10.10685	0.484196	1.3784	1.51404	8.25397	3.72127
10:54:27				304	10.10493	0.4835552	1.2801	1.51404	8.10745	3.71622
10:54:27				305	10.10101	0.4833943	1.2801	1.4652	8.15629	3.7153
10:54:28				306	10.10101	0.4833943	1.2801	1.51404	8.00977	3.7153
10:54:28				307	10.10101	0.4829131	1.3784	1.51404	8.30281	3.71135
10:54:29				308	10.09812	0.4832333	1.4768	1.51404	8.40049	3.71426
10:54:29				309	10.09909	0.483074	1.3784	1.51404	8.15629	3.71286
10:54:30				310	10.09909	0.483074	1.2801	1.51404	8.25397	3.71287
10:54:30				311	10.09812	0.4833943	1.2801	1.4652	8.25397	3.71559
10:54:31				312	10.10101	0.4837146	1.3784	1.51404	8.79121	3.71792
10:54:31				313	10.10101	0.4833943	1.4768	1.51404	8.20513	3.71528
10:54:32				314	10.10101	0.4832333	1.3784	1.4652	8.15629	3.71397
10:54:32	10:53:08 end transect	5	270	315	10.10101	0.4832333	1.2801	1.51404	8.20513	3.71398
10:54:33	reposition to 90			316	10.10101	0.4829131	1.3784	1.4652	8.40049	3.71135
10:54:33				317	10.09812	0.4829131	1.3784	1.4652	7.96093	3.71164
10:54:34				318	10.10101	0.4832333	1.4768	1.56288	8.40049	3.71397
10:54:34				319	10.10589	0.4835552	1.3784	1.4652	8.15629	3.71611
10:54:35				320	10.10685	0.4835552	1.3784	1.51404	8.10745	3.71601
10:54:35				321	10.10589	0.4833943	1.3784	1.51404	8.20513	3.71479
10:54:36				322	10.10685	0.4832333	1.3784	1.51404	8.20513	3.71338
10:54:36				323	10.10493	0.4833943	1.4768	1.51404	8.40049	3.71489
10:54:37				324	10.10589	0.483074	1.3784	1.51404	8.25397	3.71217
10:54:37				325	10.10396	0.4825929	1.2801	1.51404	8.10745	3.70843

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:54:38				326	10.10101	0.4827538	1.3784	1.51404	9.08425	3.71004
10:54:38				327	10.10101	0.4829131	1.3784	1.51404	8.35165	3.71135
10:54:39				328	10.10198	0.4832333	1.1817	1.51404	8.15629	3.71388
10:54:39				329	10.10294	0.4829131	1.3784	1.4652	8.54701	3.71115
10:54:40				330	10.10294	0.483074	1.4768	1.51404	8.44933	3.71246
10:54:40				331	10.10396	0.4832333	1.2801	1.51404	8.10745	3.71368
10:54:41				332	10.10396	0.4832333	1.0833	1.51404	11.18437	3.71369
10:54:41				333	10.10396	0.4832333	1.4768	1.4652	11.23321	3.71366
10:54:42				334	10.10396	0.4832333	1.5752	1.51404	8.54701	3.71366
10:54:42				335	10.10294	0.4805091	1.3784	1.51404	13.72405	3.69145
10:54:43				336	10.10396	0.483074	1.1817	1.4652	13.87057	3.71238
10:54:43				337	10.10198	0.483074	1.3784	1.4652	27.74115	3.71257
10:54:44				338	10.10198	0.483074	1.4768	1.51404	16.50794	3.71256
10:54:44				339	10.10198	0.483074	1.4768	1.51404	8.35165	3.71256
10:54:45				340	10.10198	0.4829131	1.3784	1.51404	8.40049	3.71125
10:54:45				341	10.10198	0.4829131	1.3784	1.4652	8.59585	3.71125
10:54:46				342	10.10101	0.483074	1.3784	1.51404	8.10745	3.71267
10:54:46				343	10.10294	0.4827538	1.3784	1.56288	8.15629	3.70984
10:54:47				344	10.10005	0.4822728	1.3784	1.51404	8.15629	3.7062
10:54:47				345	10.09812	0.4825929	1.3784	1.4652	8.54701	3.70902
10:54:48				346	10.09812	0.4825929	1.3784	1.51404	7.96093	3.70902
10:54:48				347	10.09523	0.482112	1.3784	1.51404	8.05861	3.70537
10:54:49				348	10.09427	0.4827538	1.3784	1.51404	7.96093	3.71073
10:54:49				349	10.09234	0.482112	1.2801	1.51404	8.59585	3.70567
10:54:50				350	10.09138	0.4822728	1.3784	1.51404	8.15629	3.70708
10:54:50				351	10.09138	0.4824321	1.3784	1.51404	8.05861	3.70838
10:54:51				352	10.0933	0.4838756	1.2801	1.51404	8.20513	3.72003
10:54:51				353	10.09523	0.483074	1.3784	1.4652	8.00977	3.71325
10:54:52				354	10.09716	0.483074	1.3784	1.51404	8.10745	3.71306
10:54:52				355	10.09619	0.4829131	1.3784	1.4652	8.25397	3.71184
10:54:53				356	10.09619	0.4838756	1.2801	1.51404	8.15629	3.71973
10:54:53				357	10.09234	0.4832333	1.3784	1.4652	8.35165	3.71486
10:54:54				358	10.0933	0.4833943	1.3784	1.4652	7.86325	3.71608
10:54:54				359	10.09619	0.4856393	1.2801	1.51404	8.10745	3.7342
10:54:55				360	10.10101	0.4867613	1.2801	1.51404	7.96093	3.7429
10:54:55				361	10.10493	0.4854782	1.3784	1.4652	8.00977	3.73197
10:54:56				362	10.10589	0.4861196	1.3784	1.51404	7.96093	3.73714
10:54:56				363	10.10878	0.4872419	1.2801	1.51404	8.00977	3.74605
10:54:57				364	10.11167	0.4870822	1.2801	1.51404	8.15629	3.74444
10:54:58				367	10.11462	0.488042	1.1817	1.51404	8.15629	3.75201
10:54:59				368	10.11462	0.4875612	1.2801	1.51404	8.44933	3.74806
10:54:59				369	10.11655	0.4877226	1.2801	1.4652	8.20513	3.74919
10:55:00				370	10.11462	0.4877226	1.2801	1.51404	8.20513	3.74939
10:55:00				371	10.11462	0.4885229	1.1817	1.51404	8.25397	3.75596
10:55:01				372	10.11751	0.4888442	1.1817	1.4652	8.00977	3.75829

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:55:01				373	10.12046	0.4896451	1.1817	1.4652	8.05861	3.76456
10:55:02				374	10.12046	0.4898066	1.1817	1.51404	8.00977	3.76588
10:55:02				375	10.12239	0.4891655	1.2801	1.51404	8.00977	3.76042
10:55:03				376	10.12432	0.4891655	1.2801	1.56288	7.96093	3.76022
10:55:03				377	10.11751	0.4885229	1.1817	1.4652	8.05861	3.75566
10:55:04				378	10.11751	0.488042	1.2801	1.51404	8.00977	3.75171
10:55:04				379	10.11559	0.4856377	1.3784	1.51404	8.05861	3.73219
10:55:05				380	10.10691	0.4845164	1.2801	1.51404	8.15629	3.72389
10:55:05				381	10.10788	0.4833943	1.1817	1.51404	8.25397	3.7146
10:55:06				382	10.10113	0.4833943	1.3784	1.51404	8.20513	3.71528
10:55:06				383	10.10306	0.4833943	1.4768	1.51404	7.81441	3.71508
10:55:07				384	10.10113	0.484035	1.3784	1.51404	7.86325	3.72053
10:55:07				385	10.10499	0.4846759	1.2801	1.51404	8.00977	3.7254
10:55:08				386	10.10788	0.484035	1.2801	1.51404	8.10745	3.71985
10:55:08				387	10.10788	0.484196	1.3784	1.51404	7.91209	3.72116
10:55:09				388	10.10691	0.4846759	1.3784	1.4652	8.05861	3.72519
10:55:09				389	10.10981	0.4912496	1.2801	1.51404	7.91209	3.77882
10:55:10				390	10.1127	0.4976621	1.1817	1.51404	8.15629	3.83117
10:55:10				391	10.12335	0.4963794	1.2801	1.51404	8.40049	3.81951
10:55:11				392	10.12913	0.497821	1.3784	1.4652	8.00977	3.83073
10:55:11				393	10.1301	0.4944546	1.2801	1.4652	8.15629	3.80301
10:55:12				394	10.12817	0.5010279	1.2801	1.51404	8.05861	3.85718
10:55:12				395	10.13588	0.500386	1.3784	1.51404	7.96093	3.85108
10:55:13				396	10.13684	0.500066	1.3784	1.51404	8.10745	3.84835
10:55:13				397	10.13684	0.4991047	1.2801	1.56288	8.15629	3.84047
10:55:14				398	10.13491	0.498944	1.2801	1.51404	8.15629	3.83935
10:55:14				399	10.13299	0.4986226	1.2801	1.4652	8.10745	3.83691
10:55:15				400	10.13202	0.4971803	1.1817	1.51404	8.20513	3.82518
10:55:15				401	10.1301	0.4952563	1.0833	1.51404	8.35165	3.8096
10:55:16				402	10.12721	0.495096	1.1817	1.51404	8.15629	3.80858
10:55:16				403	10.12721	0.4933327	1.1817	1.51404	8.20513	3.79411
10:55:17				404	10.12528	0.4933327	1.0833	1.4652	8.20513	3.79431
10:55:17				405	10.12239	0.4898066	1.1817	1.4652	8.25397	3.76568
10:55:18				406	10.12239	0.489004	1.1817	1.51404	8.00977	3.7591
10:55:18				407	10.12335	0.4891655	1.1817	1.51404	8.05861	3.76033
10:55:19				408	10.12046	0.4888442	1.2801	1.51404	8.30281	3.75798
10:55:19				409	10.11848	0.4885229	1.2801	1.51404	8.40049	3.75555
10:55:20				410	10.11655	0.488042	1.2801	1.4652	8.35165	3.75181
10:55:20				411	10.11462	0.4862792	1.2801	1.51404	8.44933	3.73755
10:55:21				412	10.11462	0.4864404	1.2801	1.51404	8.20513	3.73888
10:55:21				413	10.11366	0.4869209	1.3784	1.51404	8.00977	3.74291
10:55:22				414	10.11462	0.4866	1.2801	1.51404	8.05861	3.74018
10:55:22				415	10.11559	0.4867596	1.2801	1.51404	8.35165	3.74139
10:55:23				416	10.11559	0.4867596	1.2801	1.51404	8.20513	3.74139
10:55:23				417	10.11462	0.4867596	1.2801	1.4652	8.05861	3.74149

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:55:24				418	10.11462	0.4867596	1.2801	1.51404	8.15629	3.74149
10:55:24				419	10.11655	0.4870805	1.1817	1.51404	8.49817	3.74393
10:55:25				420	10.11559	0.4872418	1.1817	1.51404	8.00977	3.74535
10:55:25				421	10.11462	0.4870805	1.2801	1.51404	8.20513	3.74412
10:55:26				422	10.11462	0.4874015	1.2801	1.56288	8.64469	3.74676
10:55:26				423	10.11559	0.488042	1.2801	1.56288	8.30281	3.75191
10:55:27				424	10.11462	0.488042	1.2801	1.4652	8.30281	3.75201
10:55:27				425	10.11462	0.4877226	1.1817	1.4652	7.96093	3.74939
10:55:28				426	10.11462	0.488042	1.1817	1.51404	8.05861	3.75201
10:55:28				427	10.11366	0.4906079	1.1817	1.51404	8.05861	3.77316
10:55:29				428	10.12046	0.4901264	1.0833	1.56288	8.05861	3.76851
10:55:29				429	10.12335	0.4899665	1.0833	1.51404	8.00977	3.7669
10:55:30				430	10.12432	0.4902863	0.9849	1.51404	8.10745	3.76943
10:55:30				431	10.12528	0.4899665	0.8865	1.4652	8.10745	3.76671
10:55:31				432	10.12721	0.4906079	0.9849	1.51404	8.05861	3.77177
10:55:31				433	10.12817	0.4898066	0.9849	1.51404	8.35165	3.7651
10:55:32				434	10.12817	0.489645	1.0833	1.4652	8.25397	3.76377
10:55:32				435	10.12528	0.4901264	1.1817	1.4652	8.05861	3.76801
10:55:33				436	10.12624	0.4899665	1.2801	1.51404	8.05861	3.76659
10:55:33				437	10.12624	0.489004	1.3784	1.4652	8.15629	3.75869
10:55:34				438	10.12624	0.4896451	1.3784	1.51404	8.10745	3.76395
10:55:34				439	10.12528	0.4898066	1.3784	1.56288	8.15629	3.76537
10:55:35				440	10.12624	0.4898066	1.3784	1.51404	8.00977	3.76527
10:55:35				441	10.12432	0.4899665	1.3784	1.51404	8.10745	3.76678
10:55:36				442	10.12528	0.4898066	1.3784	1.51404	8.10745	3.76537
10:55:36				443	10.12624	0.4896451	1.4768	1.51404	8.35165	3.76394
10:55:37				444	10.12624	0.4896451	1.3784	1.4652	8.54701	3.76395
10:55:37				445	10.12432	0.4901264	1.4768	1.51404	8.05861	3.76809
10:55:38				446	10.12624	0.4909279	1.3784	1.51404	8.15629	3.77447
10:55:38				447	10.12528	0.4899665	1.3784	1.4652	7.96093	3.76668
10:55:39				448	10.12721	0.4901264	1.3784	1.51404	8.00977	3.7678
10:55:39				449	10.12624	0.4901264	1.3784	1.51404	8.05861	3.7679
10:55:40				450	10.12721	0.4899665	1.3784	1.51404	8.00977	3.76648
10:55:40				451	10.12721	0.4899665	1.4768	1.51404	8.10745	3.76648
10:55:41				452	10.12624	0.4898066	1.3784	1.51404	8.10745	3.76527
10:55:41				453	10.12624	0.4872418	1.2801	1.51404	8.15629	3.74425
10:55:42				454	10.12239	0.4898066	1.3784	1.51404	8.35165	3.76567
10:55:42				455	10.12239	0.4888442	1.4768	1.4652	8.30281	3.75777
10:55:43				456	10.12335	0.4888442	1.3784	1.51404	8.40049	3.75768
10:55:43				457	10.12239	0.4893253	1.3784	1.4652	8.30281	3.76172
10:55:44				458	10.12335	0.4898066	1.3784	1.4652	8.49817	3.76557
10:55:44				459	10.12528	0.4898066	1.3784	1.51404	8.05861	3.76537
10:55:45				460	10.12432	0.4896451	1.3784	1.51404	8.10745	3.76415
10:55:45				461	10.12046	0.4885229	1.3784	1.51404	8.20513	3.75534
10:55:46				462	10.12046	0.4891655	1.3784	1.56288	8.35165	3.76061

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:55:46				463	10.12143	0.4894852	1.3784	1.51404	8.30281	3.76313
10:55:47				464	10.12143	0.4882034	1.2801	1.51404	8.30281	3.75263
10:55:47				465	10.11462	0.4878823	1.3784	1.51404	8.15629	3.75069
10:55:48				466	10.1127	0.4861196	1.3784	1.56288	8.30281	3.73644
10:55:48				467	10.11077	0.4856377	1.3784	1.4652	7.91209	3.73268
10:55:49				468	10.10884	0.4838756	1.3784	1.51404	8.00977	3.71844
10:55:49				469	10.10595	0.484035	1.3784	1.56288	8.10745	3.72004
10:55:50				470	10.10402	0.4843554	1.3784	1.4652	8.10745	3.72286
10:55:50				471	10.10113	0.4843554	1.3784	1.51404	7.96093	3.72316
10:55:51				472	10.1021	0.4843554	1.4768	1.51404	7.81441	3.72305
10:55:51				473	10.10306	0.4845165	1.3784	1.4652	8.00977	3.72428
10:55:52				474	10.10402	0.4845165	1.2801	1.51404	8.05861	3.72419
10:55:52				475	10.10402	0.4849964	1.3784	1.51404	7.86325	3.72812
10:55:53				476	10.10595	0.4846759	1.3784	1.51404	7.76557	3.72529
10:55:53				477	10.10499	0.4845165	1.3784	1.51404	8.40049	3.72408
10:55:54				478	10.10402	0.4845165	1.2801	1.56288	8.20513	3.72419
10:55:54				479	10.10499	0.4845164	1.1817	1.51404	8.25397	3.72409
10:55:55				480	10.10595	0.4846759	1.2801	1.51404	8.30281	3.7253
10:55:55				481	10.10595	0.4843554	1.1817	1.51404	8.25397	3.72268
10:55:56				482	10.10402	0.484035	1.1817	1.51404	8.40049	3.72025
10:55:56				483	10.10306	0.4849964	1.1817	1.51404	8.49817	3.72823
10:55:57				484	10.1021	0.4859584	1.1817	1.4652	8.59585	3.73621
10:55:58				487	10.1033	0.4872435	1.3784	1.51404	8.49817	3.74662
10:55:59				488	10.10426	0.4859617	1.2801	1.4652	8.59585	3.73601
10:55:59				489	10.1033	0.4851592	1.1817	1.4652	8.30281	3.72954
10:56:00				490	10.10234	0.4861213	1.0833	1.4652	8.64469	3.73753
10:56:00				491	10.10619	0.4880453	1.0833	1.51404	8.20513	3.75291
10:56:01				492	10.11005	0.4866017	1.0833	1.4652	8.25397	3.74068
10:56:01				493	10.10619	0.4825945	0.9849	1.51404	8.30281	3.70823
10:56:02				494	10.10234	0.4673661	0.9849	1.51404	8.30281	3.58397
10:56:02				495	10.10234	0.4694506	0.8865	1.51404	34.57875	3.60102
10:56:03				496	10.1033	0.4838772	0.8865	1.51404	40.7326	3.71904
10:56:03				497	10.10426	0.4835569	0.8865	1.51404	40.7326	3.71632
10:56:04				498	10.10426	0.4838772	0.8865	1.51404	64.61538	3.71895
10:56:04				499	10.10619	0.4837162	0.7881	1.51404	10.69597	3.71743
10:56:05				500	10.10234	0.4837162	0.7881	1.51404	18.99878	3.71783
10:56:05				501	10.1033	0.4838772	0.8865	1.51404	14.31013	3.71904
10:56:06				502	10.10234	0.4840366	0.8865	1.51404	11.81929	3.72045
10:56:06				503	10.10234	0.4838772	0.9849	1.56288	8.44933	3.71914
10:56:07				504	10.10426	0.4837162	0.9849	1.51404	11.33089	3.71762
10:56:07				505	10.10426	0.4837162	0.9849	1.51404	8.84005	3.71762
10:56:08				506	10.10426	0.4833959	0.8865	1.51404	8.15629	3.715
10:56:08				507	10.10523	0.4837162	0.8865	1.51404	8.15629	3.71753
10:56:09				508	10.10234	0.4833959	0.9849	1.51404	8.25397	3.71519
10:56:09				509	10.10137	0.4829147	1.0833	1.51404	8.20513	3.71134

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:10				510	10.10234	0.4827555	1.1817	1.56288	8.15629	3.70993
10:56:10				511	10.1033	0.4827555	1.1817	1.51404	7.96093	3.70983
10:56:11				512	10.10619	0.4835569	1.2801	1.51404	8.05861	3.7161
10:56:11				513	10.11486	0.4840366	1.2801	1.51404	8.10745	3.71915
10:56:12				514	10.11583	0.4845181	1.1817	1.51404	8.10745	3.723
10:56:12				515	10.11775	0.4851592	1.3784	1.51404	8.10745	3.72805
10:56:13				516	10.12064	0.4851592	1.4768	1.51404	8.15629	3.72775
10:56:13				517	10.12064	0.4853203	1.5752	1.4652	8.15629	3.72906
10:56:14				518	10.11968	0.4854798	1.6736	1.51404	8.15629	3.73046
10:56:14				519	10.11679	0.4854798	1.6736	1.51404	8.35165	3.73076
10:56:15				520	10.11486	0.4853203	1.772	1.4652	8.79121	3.72964
10:56:15				521	10.11775	0.4854798	1.772	1.51404	8.10745	3.73065
10:56:16				522	10.11583	0.4854798	1.8703	1.51404	8.00977	3.73084
10:56:16				523	10.11486	0.4854798	1.9687	1.4652	8.05861	3.73094
10:56:17				524	10.11486	0.4854798	1.8703	1.51404	7.86325	3.73094
10:56:17				525	10.11583	0.4853203	1.8703	1.51404	8.10745	3.72954
10:56:18				526	10.11583	0.4853203	1.8703	1.4652	8.20513	3.72954
10:56:18				527	10.11679	0.4853203	1.8703	1.51404	8.59585	3.72944
10:56:19				528	10.11679	0.4853203	1.8703	1.51404	8.15629	3.72944
10:56:19				529	10.11583	0.4853203	1.772	1.4652	8.10745	3.72954
10:56:20				530	10.1139	0.4853203	1.8703	1.51404	7.96093	3.72973
10:56:20				531	10.11583	0.4853203	1.8703	1.51404	8.05861	3.72954
10:56:21				532	10.1139	0.4853203	1.9687	1.4652	8.15629	3.72973
10:56:21				533	10.11583	0.4853203	1.9687	1.51404	8.30281	3.72953
10:56:22				534	10.11486	0.4854798	1.8703	1.51404	8.20513	3.73094
10:56:22				535	10.11583	0.4851592	1.8703	1.4652	8.49817	3.72822
10:56:23				536	10.11583	0.4851592	1.9687	1.51404	8.10745	3.72821
10:56:23				537	10.11583	0.4854798	1.9687	1.51404	7.91209	3.73084
10:56:24				538	10.11486	0.4854798	1.9687	1.4652	8.25397	3.73094
10:56:24				539	10.11486	0.4858005	1.8703	1.51404	8.35165	3.73357
10:56:25				540	10.11679	0.485641	1.8703	1.51404	8.25397	3.73207
10:56:25				541	10.11583	0.4859617	1.8703	1.4652	8.20513	3.73479
10:56:26				542	10.11583	0.4867629	1.772	1.51404	8.15629	3.74137
10:56:26				543	10.11872	0.4866017	1.5752	1.51404	8.20513	3.73976
10:56:27				544	10.11775	0.4885263	1.5752	1.4652	8.35165	3.75564
10:56:27				545	10.11968	0.4862808	1.8703	1.51404	8.84005	3.73701
10:56:28				546	10.11872	0.4870839	1.9687	1.51404	8.44933	3.74369
10:56:28				547	10.12161	0.4870839	1.8703	1.51404	8.10745	3.7434
10:56:29				548	10.11968	0.4864421	1.772	1.51404	8.30281	3.73834
10:56:29				549	10.11968	0.4869226	1.9687	1.56288	8.84005	3.74227
10:56:30				550	10.11775	0.4866017	2.2639	1.4652	8.20513	3.73982
10:56:30				551	10.11775	0.4862809	2.2639	1.56288	8.15629	3.73719
10:56:31				552	10.11679	0.4858005	2.1655	1.51404	8.20513	3.73336
10:56:31				553	10.11775	0.485641	2.2639	1.51404	8.25397	3.73194
10:56:32				554	10.11583	0.4859617	2.559	1.51404	8.93773	3.73475

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:32				555	10.11583	0.485641	2.7558	1.56288	8.49817	3.73211
10:56:33				556	10.11486	0.4866017	2.6574	1.51404	8.10745	3.74009
10:56:33				557	10.11583	0.489327	2.6574	1.51404	8.64469	3.76234
10:56:34				558	10.11775	0.4888459	2.8542	1.51404	8.30281	3.75819
10:56:34				559	10.11775	0.4882051	2.8542	1.51404	8.00977	3.75293
10:56:35				560	10.11775	0.4885263	2.9526	1.51404	8.15629	3.75556
10:56:35				561	10.11679	0.4880454	2.9526	1.56288	8.44933	3.75171
10:56:36				562	10.11775	0.4877243	2.9526	1.51404	8.15629	3.74898
10:56:36				563	10.11775	0.486763	2.8542	1.56288	8.05861	3.74111
10:56:37				564	10.11775	0.4882051	2.8542	1.51404	8.20513	3.75293
10:56:37				565	10.11775	0.4875646	3.0509	1.51404	8.30281	3.74767
10:56:38				566	10.11679	0.4872436	3.0509	1.51404	8.10745	3.74513
10:56:38				567	10.11775	0.4875646	2.9526	1.51404	8.25397	3.74767
10:56:39				568	10.11679	0.4901282	2.8542	1.51404	8.10745	3.7688
10:56:39				569	10.11775	0.4930141	2.8542	1.51404	8.40049	3.79238
10:56:40				570	10.11968	0.4938169	3.0509	1.51404	8.40049	3.79875
10:56:40				571	10.12161	0.4910913	3.0509	1.51404	8.20513	3.77619
10:56:41				572	10.12161	0.4906096	2.9526	1.51404	8.10745	3.77225
10:56:41				573	10.12064	0.4877243	2.7558	1.51404	8.25397	3.7487
10:56:42				574	10.11968	0.4870839	2.9526	1.51404	8.20513	3.74353
10:56:42	10:55:18 start transect	5	90	575	10.11872	0.4875646	3.0509	1.51404	8.15629	3.74757
10:56:43				576	10.11775	0.4877243	3.0509	1.4652	8.00977	3.74898
10:56:43				577	10.12064	0.4886861	2.8542	1.4652	8.05861	3.75658
10:56:44				578	10.11968	0.4886861	2.7558	1.51404	8.05861	3.75668
10:56:44				579	10.12064	0.4882051	2.8542	1.4652	8.44933	3.75263
10:56:45				580	10.11872	0.4885263	2.9526	1.51404	8.69353	3.75546
10:56:45				581	10.11968	0.487884	2.8542	1.51404	8.25397	3.7501
10:56:46				582	10.12064	0.4864421	2.8542	1.4652	8.05861	3.73818
10:56:46				583	10.11679	0.4861213	2.8542	1.51404	8.15629	3.73595
10:56:47				584	10.1139	0.485641	2.8542	1.51404	8.05861	3.73231
10:56:47				585	10.11486	0.4861213	2.8542	1.51404	8.30281	3.73614
10:56:48				586	10.11583	0.4861213	2.9526	1.51404	8.30281	3.73604
10:56:48				587	10.11486	0.4861213	2.8542	1.51404	8.05861	3.73614
10:56:49				588	10.11679	0.485641	2.9526	1.51404	8.20513	3.732
10:56:49				589	10.11197	0.485641	2.9526	1.51404	8.40049	3.7325
10:56:50				590	10.11101	0.4854799	2.9526	1.51404	8.20513	3.73127
10:56:50				591	10.10908	0.4854799	2.8542	1.51404	8.40049	3.73148
10:56:51				592	10.10716	0.4856411	3.0509	1.51404	8.10745	3.73299
10:56:51				593	10.10908	0.4854799	2.9526	1.51404	8.25397	3.73147
10:56:52				594	10.10812	0.4858006	2.8542	1.51404	8.10745	3.73421
10:56:52				595	10.10908	0.4859618	2.8542	1.51404	8.00977	3.73543
10:56:53				596	10.10908	0.4864421	2.9526	1.51404	8.10745	3.73936
10:56:53				597	10.10908	0.4859618	2.9526	1.51404	8.15629	3.73542
10:56:54				598	10.10908	0.4864421	2.9526	1.51404	8.10745	3.73936
10:56:54				599	10.10812	0.4870839	2.8542	1.4652	8.30281	3.74473

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:56:55				600	10.10812	0.4955789	2.8542	1.51404	8.30281	3.81444
10:56:55				601	10.10812	0.4925336	2.9526	1.51404	8.00977	3.78943
10:56:56				602	10.11197	0.4915714	2.9526	1.4652	8.00977	3.78113
10:56:56				603	10.11294	0.4909313	2.9526	1.4652	7.76557	3.77578
10:56:57				604	10.11197	0.4965416	2.9526	1.51404	7.96093	3.82194
10:56:58				607	10.12636	0.4987867	2.8542	1.51404	8.10745	3.83886
10:56:59				608	10.12636	0.5039165	2.9526	1.4652	8.10745	3.881
10:56:59				609	10.12636	0.4997478	2.9526	1.51404	7.91209	3.84675
10:57:00				610	10.1254	0.4963811	2.9526	1.51404	7.96093	3.81921
10:57:00				611	10.12251	0.498144	2.8542	1.51404	8.05861	3.83399
10:57:01				612	10.12155	0.5024733	2.8542	1.51404	8.15629	3.86966
10:57:01				613	10.1254	0.5061608	2.9526	1.51404	8.74237	3.89955
10:57:02				614	10.13028	0.5015107	2.9526	1.51404	8.05861	3.86082
10:57:02				615	10.12636	0.5005503	2.9526	1.56288	8.00977	3.85334
10:57:03				616	10.1254	0.4992672	2.8542	1.51404	7.86325	3.84291
10:57:03				617	10.12739	0.4978244	2.9526	1.51404	8.15629	3.83085
10:57:04				618	10.12347	0.4968626	2.9526	1.51404	8.10745	3.82336
10:57:04				619	10.12155	0.4973426	2.9526	1.51404	7.96093	3.82751
10:57:05				620	10.12444	0.5011905	2.9526	1.51404	8.20513	3.85881
10:57:05				621	10.13028	0.5032753	2.9526	1.4652	8.30281	3.87532
10:57:06				622	10.13317	0.5058398	2.9526	1.4652	8.20513	3.89608
10:57:06				623	10.13413	0.5029548	2.8542	1.51404	7.96093	3.87228
10:57:07				624	10.13124	0.5032753	2.8542	1.51404	7.96093	3.87522
10:57:07				625	10.13124	0.4904497	2.8542	1.51404	7.96093	3.76994
10:57:08				626	10.13028	0.4975032	2.9526	1.51404	8.59585	3.82791
10:57:08				627	10.12444	0.4933361	2.9526	1.51404	8.40049	3.79432
10:57:09				628	10.1148	0.4922134	2.8542	1.51404	7.96093	3.78611
10:57:09				629	10.11095	0.4896484	2.7558	1.56288	8.10745	3.76548
10:57:10				630	10.11191	0.4891672	2.8542	1.51404	8.25397	3.76142
10:57:10				631	10.10999	0.4928539	3.0509	1.51404	8.05861	3.79186
10:57:11				632	10.11673	0.4934964	3.0509	1.56288	8.15629	3.79643
10:57:11				633	10.11673	0.494458	2.8542	1.51404	8.00977	3.80434
10:57:12				634	10.11673	0.5032753	2.7558	1.51404	8.20513	3.87677
10:57:12	10:55:48 @ 6:00	5	180	635	10.12444	0.5055188	2.8542	1.51404	8.69353	3.89438
10:57:13				636	10.13317	0.5027937	2.9526	1.4652	8.10745	3.87105
10:57:13				637	10.13317	0.5026343	2.9526	1.51404	8.00977	3.86974
10:57:14				638	10.13509	0.499587	2.8542	1.51404	7.96093	3.84452
10:57:14				639	10.13413	0.4958997	2.8542	1.4652	7.96093	3.81435
10:57:15				640	10.13028	0.494939	2.9526	1.51404	8.44933	3.80686
10:57:15				641	10.12636	0.4942977	2.9526	1.51404	8.05861	3.80201
10:57:16				642	10.12444	0.4918931	2.9526	1.4652	8.35165	3.78248
10:57:16				643	10.11962	0.4923735	2.9526	1.56288	8.35165	3.78692
10:57:17				644	10.11866	0.4928539	2.9526	1.51404	8.05861	3.79096
10:57:17				645	10.11866	0.4926938	2.9526	1.51404	7.96093	3.78965
10:57:18				646	10.11962	0.4967021	2.8542	1.51404	8.05861	3.82246

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:57:18				647	10.12058	0.494939	2.8542	1.56288	8.20513	3.80788
10:57:19				648	10.12251	0.4931743	2.9526	1.51404	8.79121	3.79319
10:57:19				649	10.12058	0.4928539	2.9526	1.51404	8.30281	3.79076
10:57:20				650	10.1148	0.4875646	2.7558	1.51404	8.00977	3.74799
10:57:20				651	10.1148	0.4899682	2.8542	1.51404	8.00977	3.7677
10:57:21				652	10.1148	0.4907696	2.9526	1.51404	8.10745	3.77426
10:57:21				653	10.11866	0.4947786	2.8542	1.4652	8.00977	3.80677
10:57:22				654	10.12444	0.5034348	2.8542	1.51404	8.64469	3.87725
10:57:22				655	10.13028	0.4938168	2.9526	1.51404	8.74237	3.79766
10:57:23				656	10.13028	0.4975032	2.9526	1.51404	8.30281	3.82791
10:57:23				657	10.12835	0.4960602	2.8542	1.51404	8.40049	3.81627
10:57:24				658	10.12636	0.4886861	2.8542	1.51404	8.49817	3.75599
10:57:24				659	10.1254	0.4894885	2.7558	1.56288	8.49817	3.76267
10:57:25				660	10.1254	0.4898083	2.9526	1.56288	8.15629	3.76528
10:57:25				661	10.12636	0.4902897	2.8542	1.51404	8.15629	3.76914
10:57:26				662	10.12636	0.4888459	2.7558	1.51404	7.96093	3.7573
10:57:26				663	10.1254	0.4885263	2.8542	1.51404	8.05861	3.75478
10:57:27				664	10.12636	0.4888459	2.9526	1.4652	8.20513	3.75729
10:57:27				665	10.12636	0.4888459	2.9526	1.51404	8.20513	3.75729
10:57:28				666	10.12835	0.4890073	2.7558	1.51404	8.25397	3.75842
10:57:28				667	10.12835	0.4894885	2.6574	1.51404	8.25397	3.76237
10:57:29				668	10.12835	0.4891672	2.7558	1.51404	8.49817	3.75973
10:57:29				669	10.12835	0.489327	2.9526	1.56288	8.40049	3.76103
10:57:30				670	10.12636	0.489327	2.8542	1.51404	8.15629	3.76124
10:57:30				671	10.12636	0.4906096	2.8542	1.51404	8.20513	3.77176
10:57:31				672	10.12444	0.4899682	2.7558	1.51404	8.74237	3.7667
10:57:31				673	10.12444	0.4880454	2.8542	1.51404	8.69353	3.75093
10:57:32				674	10.12347	0.4877243	2.9526	1.51404	8.88889	3.74839
10:57:32				675	10.12347	0.4877243	3.0509	1.51404	8.25397	3.74839
10:57:33				676	10.12251	0.4888459	2.7558	1.51404	8.20513	3.7577
10:57:33				677	10.12347	0.4877243	2.6574	1.51404	8.05861	3.74841
10:57:34				678	10.12347	0.4874032	2.9526	1.4652	8.74237	3.74576
10:57:34				679	10.12444	0.4874032	3.0509	1.51404	8.54701	3.74566
10:57:35				680	10.12347	0.4877243	2.9526	1.51404	8.25397	3.74839
10:57:35				681	10.12251	0.486763	2.8542	1.51404	8.25397	3.74062
10:57:36				682	10.11962	0.4861213	2.8542	1.51404	8.30281	3.73566
10:57:36				683	10.11962	0.4864421	2.9526	1.51404	8.79121	3.73828
10:57:37				684	10.12058	0.4866017	2.9526	1.51404	7.91209	3.73949
10:57:37				685	10.12058	0.4869226	2.8542	1.51404	8.05861	3.74213
10:57:38				686	10.12058	0.4862825	2.8542	1.4652	8.20513	3.73688
10:57:38				687	10.11962	0.4864421	2.9526	1.51404	8.59585	3.73828
10:57:39				688	10.11866	0.4869226	2.9526	1.51404	8.00977	3.74232
10:57:39	10:56:15 end transect	5	270	689	10.12058	0.4869226	2.8542	1.4652	8.20513	3.74213
10:57:40	reposition to 90			690	10.12155	0.4869226	2.8542	1.51404	8.05861	3.74203
10:57:40				691	10.12058	0.4869226	2.8542	1.51404	8.25397	3.74213

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:57:41				692	10.11962	0.4869226	2.9526	1.4652	9.03541	3.74222
10:57:41				693	10.11866	0.4872436	2.9526	1.51404	8.15629	3.74495
10:57:42				694	10.12058	0.4872436	2.8542	1.51404	8.15629	3.74476
10:57:42				695	10.12058	0.4874032	2.6574	1.51404	8.15629	3.74608
10:57:43				696	10.12251	0.4872436	2.7558	1.51404	8.10745	3.74456
10:57:43				697	10.12155	0.4875646	3.1493	1.56288	8.20513	3.74727
10:57:44				698	10.12155	0.4872436	3.0509	1.51404	8.05861	3.74465
10:57:44				699	10.11962	0.4864421	2.6574	1.51404	8.40049	3.7383
10:57:45				700	10.11673	0.4874032	2.6574	1.51404	8.15629	3.74647
10:57:45				701	10.12058	0.4872436	3.0509	1.51404	8.59585	3.74475
10:57:46				702	10.11962	0.486763	3.1493	1.51404	8.20513	3.7409
10:57:46				703	10.11769	0.4864421	2.8542	1.51404	8.44933	3.73848
10:57:47				704	10.11384	0.4840383	2.6574	1.51404	8.20513	3.71919
10:57:47				705	10.10902	0.4849998	2.8542	1.51404	8.40049	3.72755
10:57:48				706	10.10806	0.4846792	3.0509	1.51404	8.40049	3.72501
10:57:48				707	10.10613	0.4849998	2.9526	1.4652	8.05861	3.72784
10:57:49				708	10.10902	0.4853204	2.7558	1.4652	8.25397	3.73018
10:57:49				709	10.10999	0.4858006	2.7558	1.51404	8.15629	3.73402
10:57:50				710	10.11288	0.4851592	2.8542	1.51404	7.86325	3.72846
10:57:50				711	10.11288	0.4854799	2.9526	1.4652	8.00977	3.73108
10:57:51				712	10.11288	0.4854799	2.9526	1.51404	8.35165	3.73108
10:57:51				713	10.11191	0.4861213	2.7558	1.51404	8.20513	3.73645
10:57:52				714	10.11288	0.4901298	2.7558	1.51404	8.64469	3.76923
10:57:52				715	10.11673	0.4886861	2.9526	1.51404	8.10745	3.75697
10:57:53				716	10.11673	0.4907696	2.9526	1.51404	8.93773	3.77406
10:57:53				717	10.11866	0.4930141	2.8542	1.51404	8.35165	3.79228
10:57:54				718	10.12251	0.4909313	2.8542	1.56288	8.20513	3.7748
10:57:54				719	10.12835	0.4904497	2.9526	1.56288	8.30281	3.77024
10:57:55				720	10.12636	0.4878856	2.9526	1.51404	8.25397	3.74942
10:57:55				721	10.12444	0.4870839	2.9526	1.51404	8.79121	3.74305
10:57:56				722	10.11866	0.4861213	2.7558	1.4652	8.35165	3.73576
10:57:56				723	10.1148	0.4861213	2.7558	1.51404	8.35165	3.73616
10:57:57				724	10.11191	0.4858006	2.9526	1.51404	8.15629	3.73381
10:57:58				727	10.10439	0.4840367	2.6574	1.51404	8.15629	3.72014
10:57:59				728	10.10631	0.4843571	2.8542	1.51404	8.05861	3.72256
10:57:59				729	10.10535	0.4843571	3.0509	1.51404	8.00977	3.72264
10:58:00				730	10.10342	0.4840367	2.8542	1.51404	8.25397	3.72023
10:58:00				731	10.10535	0.4837146	2.559	1.51404	8.40049	3.71741
10:58:01				732	10.10246	0.484837	2.6574	1.51404	8.59585	3.7269
10:58:01				733	10.10535	0.4841961	2.9526	1.4652	8.30281	3.72133
10:58:02				734	10.10439	0.4840367	3.0509	1.4652	7.96093	3.72012
10:58:02				735	10.10439	0.4838757	2.8542	1.51404	8.15629	3.71881
10:58:03				736	10.10439	0.4838757	2.7558	1.4652	8.00977	3.71881
10:58:03				737	10.10535	0.4838757	2.8542	1.51404	8.00977	3.71871
10:58:04				738	10.10535	0.4843571	2.9526	1.51404	7.91209	3.72265

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:04				739	10.10535	0.4843571	2.9526	1.51404	7.81441	3.72265
10:58:05				740	10.10728	0.4845165	2.9526	1.51404	8.00977	3.72376
10:58:05				741	10.10728	0.4845165	2.8542	1.51404	8.10745	3.72377
10:58:06				742	10.10728	0.4846776	2.7558	1.51404	8.15629	3.72509
10:58:06				743	10.1092	0.4854782	2.8542	1.51404	8.49817	3.73145
10:58:07				744	10.1092	0.4851576	2.9526	1.4652	8.15629	3.72882
10:58:07				745	10.11113	0.4853187	2.9526	1.51404	8.10745	3.72994
10:58:08				746	10.11209	0.4849981	2.8542	1.51404	8.35165	3.72722
10:58:08				747	10.11209	0.4857989	2.9526	1.51404	8.44933	3.73378
10:58:09				748	10.11209	0.4857989	3.0509	1.51404	7.81441	3.73377
10:58:09				749	10.11402	0.4859601	2.7558	1.56288	7.91209	3.73491
10:58:10				750	10.11306	0.4872419	2.559	1.51404	8.15629	3.74553
10:58:10				751	10.11787	0.5257192	2.7558	1.56288	8.35165	4.06146
10:58:11				752	10.16994	0.5127316	3.1493	1.51404	8.64469	3.94877
10:58:11				753	10.1487	0.4967004	2.8542	1.51404	8.44933	3.81939
10:58:12				754	10.12462	0.4880437	2.559	1.4652	8.35165	3.75092
10:58:12				755	10.12076	0.4992656	2.7558	1.4652	8.25397	3.84339
10:58:13				756	10.1381	0.4933345	2.9526	1.51404	9.23077	3.79288
10:58:13				757	10.13425	0.4915697	2.9526	1.51404	8.10745	3.77881
10:58:14				758	10.12269	0.490608	2.6574	1.51404	8.15629	3.77214
10:58:14				759	10.12269	0.4975015	2.559	1.56288	8.15629	3.82872
10:58:15				760	10.13329	0.5035942	2.6574	1.51404	8.35165	3.87763
10:58:15				761	10.14099	0.5029531	2.6574	1.51404	8.00977	3.87155
10:58:16				762	10.14292	0.5047158	2.6574	1.51404	7.86325	3.88582
10:58:16				763	10.1381	0.5000661	2.559	1.4652	8.10745	3.84815
10:58:17				764	10.13618	0.4944563	2.4606	1.51404	7.86325	3.80232
10:58:17				765	10.13232	0.5000661	2.559	1.51404	8.05861	3.84876
10:58:18				766	10.13232	0.4957376	2.6574	1.4652	7.96093	3.81322
10:58:18				767	10.12365	0.4934947	2.559	1.51404	8.20513	3.79573
10:58:19				768	10.12558	0.4920516	2.559	1.51404	7.91209	3.78369
10:58:19				769	10.12462	0.4926921	2.6574	1.51404	8.40049	3.78903
10:58:20				770	10.12269	0.4984637	2.6574	1.51404	8.10745	3.83661
10:58:20				771	10.12654	0.5092058	2.7558	1.51404	8.10745	3.92448
10:58:21				772	10.13329	0.5108078	2.7558	1.51404	8.30281	3.93694
10:58:21				773	10.13521	0.5159382	2.7558	1.51404	8.10745	3.97895
10:58:22				774	10.14195	0.508243	2.7558	1.4652	7.61905	3.91491
10:58:22				775	10.13907	0.5185038	2.7558	1.51404	7.71673	3.99965
10:58:23				776	10.14195	0.5104876	2.8542	1.51404	7.86325	3.93336
10:58:23				777	10.13618	0.5067997	2.8542	1.4652	7.71673	3.90366
10:58:24				778	10.1304	0.4949373	2.7558	1.51404	7.96093	3.80685
10:58:24				779	10.12943	0.4955789	2.8542	1.51404	8.00977	3.81221
10:58:25				780	10.12943	0.4957376	2.9526	1.51404	7.86325	3.81351
10:58:25				781	10.12751	0.4960585	2.8542	1.51404	8.00977	3.81635
10:58:26				782	10.12751	0.4949373	2.7558	1.4652	8.10745	3.80715
10:58:26				783	10.12847	0.4949373	2.7558	1.51404	8.20513	3.80705

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:27				784	10.12751	0.4926921	2.8542	1.51404	8.20513	3.78872
10:58:27				785	10.12847	0.4923718	2.9526	1.51404	7.96093	3.78599
10:58:28				786	10.12654	0.4917314	2.8542	1.51404	8.05861	3.78094
10:58:28				787	10.12654	0.4918915	2.8542	1.51404	7.96093	3.78225
10:58:29				788	10.12943	0.4918915	2.8542	1.51404	8.44933	3.78195
10:58:29				789	10.12943	0.4914097	2.9526	1.51404	7.96093	3.778
10:58:30				790	10.12847	0.4917314	2.8542	1.51404	8.00977	3.78074
10:58:30				791	10.12847	0.4917314	2.8542	1.51404	8.25397	3.78074
10:58:31				792	10.13136	0.4915697	2.9526	1.51404	8.15629	3.77911
10:58:31				793	10.1304	0.4914097	2.9526	1.4652	8.00977	3.7779
10:58:32				794	10.12751	0.4912496	2.8542	1.51404	8.30281	3.77689
10:58:32				795	10.12751	0.4883649	2.8542	1.51404	8.10745	3.75324
10:58:33				796	10.12751	0.4901281	2.9526	1.51404	8.15629	3.76769
10:58:33				797	10.12751	0.490608	2.9526	1.56288	8.00977	3.77162
10:58:34				798	10.12654	0.4910896	2.7558	1.51404	8.20513	3.77568
10:58:34				799	10.12751	0.490448	2.8542	1.51404	8.10745	3.77032
10:58:35				800	10.12847	0.490608	3.0509	1.51404	8.40049	3.77152
10:58:35				801	10.12751	0.490608	2.9526	1.4652	8.10745	3.77162
10:58:36				802	10.12654	0.4909296	2.8542	1.51404	8.15629	3.77437
10:58:36				803	10.12654	0.4899666	2.8542	1.51404	8.20513	3.76647
10:58:37				804	10.12558	0.490608	2.9526	1.51404	8.25397	3.77182
10:58:37				805	10.12654	0.4907696	2.9526	1.56288	8.05861	3.77305
10:58:38				806	10.12558	0.4910896	2.9526	1.51404	7.91209	3.77577
10:58:38				807	10.12654	0.4902881	2.9526	1.51404	7.91209	3.7691
10:58:39				808	10.12462	0.4907696	2.9526	1.51404	8.20513	3.77325
10:58:39				809	10.12462	0.490608	2.8542	1.4652	8.05861	3.77193
10:58:40				810	10.12654	0.4901281	2.9526	1.51404	8.30281	3.76779
10:58:40				811	10.12462	0.490608	2.9526	1.51404	8.35165	3.77192
10:58:41				812	10.12654	0.4907696	2.9526	1.51404	8.05861	3.77305
10:58:41				813	10.12654	0.4909296	2.8542	1.56288	8.30281	3.77437
10:58:42				814	10.12654	0.4910896	2.8542	1.56288	8.59585	3.77568
10:58:42				815	10.12847	0.4907696	2.9526	1.51404	7.91209	3.77285
10:58:43				816	10.12751	0.4910896	2.9526	1.51404	8.20513	3.77557
10:58:43				817	10.12751	0.4901281	2.8542	1.51404	8.05861	3.76769
10:58:44				818	10.12943	0.4907696	2.9526	1.51404	8.20513	3.77275
10:58:44				819	10.12654	0.4902881	2.9526	1.51404	8.05861	3.7691
10:58:45				820	10.12847	0.4888459	2.9526	1.4652	8.25397	3.75707
10:58:45				821	10.12654	0.4883649	2.9526	1.51404	8.49817	3.75333
10:58:46				822	10.12558	0.4896468	2.9526	1.51404	8.20513	3.76394
10:58:46				823	10.12654	0.490448	2.8542	1.51404	8.15629	3.77042
10:58:47				824	10.12654	0.4902881	2.8542	1.51404	8.25397	3.7691
10:58:47				825	10.12654	0.4894869	2.9526	1.4652	8.54701	3.76253
10:58:48				826	10.12654	0.4902881	3.0509	1.51404	8.35165	3.76909
10:58:48				827	10.12654	0.4909296	2.8542	1.51404	7.91209	3.77437
10:58:49				828	10.12558	0.4901281	2.7558	1.4652	8.15629	3.7679

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:58:49				829	10.12462	0.4922117	2.8542	1.56288	8.30281	3.78508
10:58:50				830	10.12558	0.4901281	2.9526	1.51404	8.15629	3.76789
10:58:50				831	10.12076	0.4893254	2.8542	1.51404	8.10745	3.76181
10:58:51				832	10.12173	0.4886844	2.7558	1.51404	8.25397	3.75646
10:58:51				833	10.12076	0.4901281	2.7558	1.51404	8.44933	3.7684
10:58:52				834	10.12269	0.4923718	2.8542	1.51404	8.15629	3.7866
10:58:52				835	10.12462	0.4930124	2.7558	1.51404	8.20513	3.79166
10:58:53				836	10.12558	0.4922117	2.7558	1.51404	8.10745	3.78499
10:58:53				837	10.12269	0.4944563	2.7558	1.56288	8.15629	3.80371
10:58:54				838	10.12462	0.4950977	2.7558	1.51404	8.05861	3.80877
10:58:54				839	10.12654	0.4965399	2.6574	1.51404	7.91209	3.82041
10:58:55				840	10.12943	0.5013498	2.6574	1.51404	8.05861	3.8596
10:58:55				841	10.13136	0.499907	2.6574	1.4652	7.91209	3.84755
10:58:56				842	10.12654	0.496861	2.6574	1.4652	7.91209	3.82305
10:58:56				843	10.11402	0.4864405	2.559	1.51404	7.96093	3.73886
10:58:57				844	10.10824	0.4886845	2.559	1.4652	7.91209	3.75786
10:58:58				847	10.10511	0.4896435	2.6574	1.51404	7.86325	3.76604
10:58:59				848	10.10511	0.491248	2.6574	1.51404	7.91209	3.77921
10:58:59				849	10.11089	0.4857973	2.559	1.4652	7.96093	3.73391
10:59:00				850	10.11185	0.483874	2.559	1.51404	7.81441	3.71805
10:59:00				851	10.10511	0.4859568	2.6574	1.51404	7.71673	3.73581
10:59:01				852	10.10607	0.4848354	2.6574	1.51404	7.86325	3.72651
10:59:01				853	10.10607	0.4917281	2.6574	1.51404	7.71673	3.78305
10:59:02				854	10.11474	0.4899649	2.559	1.51404	7.96093	3.76769
10:59:02				855	10.11667	0.4970182	2.7558	1.51404	8.15629	3.82537
10:59:03				856	10.12052	0.4942927	2.8542	1.51404	7.86325	3.80258
10:59:03				857	10.12341	0.4952548	2.8542	1.4652	7.91209	3.81018
10:59:04				858	10.12919	0.4991031	2.7558	1.51404	7.81441	3.84117
10:59:04				859	10.13112	0.5109662	2.8542	1.51404	8.40049	3.93847
10:59:05				860	10.1369	0.5003845	2.9526	1.4652	8.10745	3.85087
10:59:05				861	10.13305	0.5008654	2.9526	1.51404	7.91209	3.85523
10:59:06				862	10.13016	0.4976605	2.7558	1.56288	7.96093	3.82922
10:59:06				863	10.13112	0.4979801	2.7558	1.51404	7.81441	3.83175
10:59:07				864	10.13208	0.4954151	2.8542	1.51404	8.05861	3.81059
10:59:07				865	10.13016	0.5133712	2.7558	1.4652	7.86325	3.95837
10:59:08				866	10.1369	0.5109662	2.9526	1.51404	8.10745	3.93784
10:59:08				867	10.14268	0.5027904	2.9526	1.51404	7.86325	3.87002
10:59:09				868	10.14075	0.5048737	2.9526	1.51404	8.00977	3.88734
10:59:09				869	10.14075	0.5026293	2.8542	1.51404	8.05861	3.8689
10:59:10				870	10.13979	0.5042322	2.9526	1.51404	8.35165	3.88217
10:59:10				871	10.13882	0.5019886	2.9526	1.51404	7.91209	3.86384
10:59:11				872	10.13594	0.5015074	2.9526	1.51404	8.05861	3.86019
10:59:11				873	10.13497	0.5015074	2.9526	1.4652	7.91209	3.86029
10:59:12				874	10.13594	0.5032703	2.9526	1.51404	8.10745	3.87467
10:59:12				875	10.13786	0.5092025	3.1493	1.51404	8.25397	3.92322

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:59:13				876	10.13979	0.5415923	3.2477	1.51404	8.25397	4.19001
10:59:13				877	10.14852	0.5664487	3.4445	1.56288	8.30281	4.39475
10:59:14				878	10.15911	0.5856951	3.5428	1.51404	7.81441	4.55325
10:59:14				879	10.17836	0.6015746	3.7396	1.51404	7.32601	4.68292
10:59:15				880	10.19761	0.617616	3.9364	1.51404	7.27717	4.8141
10:59:15				881	10.22268	0.6469764	4.1331	1.4652	6.59341	5.05601
10:59:16				882	10.2323	0.6774631	4.3299	1.51404	6.20269	5.31024
10:59:16				883	10.24577	0.6758586	4.6251	1.51404	5.95849	5.29478
10:59:17				884	10.24865	0.6575656	4.7234	1.51404	5.56777	5.14098
10:59:17				885	10.24769	0.6455323	4.7234	1.51404	5.27473	5.04042
10:59:18				886	10.24288	0.6538745	4.7234	1.4652	5.27473	5.11089
10:59:18				887	10.24384	0.6869312	4.8218	1.51404	5.51893	5.38807
10:59:19				888	10.24865	0.673933	5.0186	1.51404	5.42125	5.27817
10:59:19				889	10.24673	0.6633414	5.0186	1.51404	5.17705	5.18962
10:59:20				890	10.24865	0.6795498	5.0186	1.51404	5.32357	5.32533
10:59:20				891	10.24673	0.7026589	5.117	1.51404	5.42125	5.51996
10:59:21				892	10.2448	0.683562	5.3137	1.51404	5.32357	5.35957
10:59:21				893	10.2448	0.6922276	5.3137	1.51404	5.12821	5.43243
10:59:22				894	10.24384	0.7106839	5.3137	1.4652	5.27473	5.58801
10:59:22				895	10.24	0.6996099	5.4121	1.51404	5.32357	5.49527
10:59:23				896	10.24	0.6893389	5.5105	1.51404	5.07937	5.40883
10:59:23				897	10.24192	0.6951165	5.4121	1.51404	5.03053	5.45716
10:59:24				898	10.24288	0.689018	5.4121	1.51404	5.32357	5.40571
10:59:24				899	10.24288	0.697524	5.4121	1.51404	5.27473	5.47728
10:59:25				900	10.24192	0.7049058	5.5105	1.51404	5.12821	5.53958
10:59:25				901	10.24192	0.6939923	5.5105	1.51404	5.12821	5.44769
10:59:26				902	10.24192	0.6911031	5.4121	1.4652	5.22589	5.42339
10:59:26				903	10.24288	0.6845244	5.3137	1.51404	5.27473	5.36794
10:59:27				904	10.2448	0.7227223	5.4121	1.51404	5.22589	5.68943
10:59:27				905	10.24577	0.7029801	5.6089	1.51404	5.61661	5.52277
10:59:28				906	10.24865	0.6946338	5.5105	1.51404	5.07937	5.45208
10:59:28				907	10.2448	0.7021783	5.4121	1.51404	5.32357	5.51618
10:59:29				908	10.2448	0.6803524	5.3137	1.51404	5.37241	5.3326
10:59:29				909	10.24192	0.7077948	5.4121	1.51404	5.42125	5.56394
10:59:30				910	10.24096	0.6869312	5.4121	1.4652	5.42125	5.38845
10:59:30				911	10.24288	0.6870915	5.5105	1.51404	5.03053	5.3895
10:59:31				912	10.24192	0.6960785	5.4121	1.51404	5.51893	5.46525
10:59:31	10:58:07 start transect	5	90	913	10.24384	0.6933509	5.4121	1.51404	5.32357	5.44201
10:59:32			92.1429	914	10.24288	0.6894994	5.3137	1.51404	5.12821	5.40977
10:59:32			94.2858	915	10.24288	0.7074749	5.2153	1.4652	5.12821	5.56111
10:59:33			96.4287	916	10.24	0.725451	5.2153	1.51404	5.47009	5.71324
10:59:33			98.5716	917	10.24096	0.7103636	5.4121	1.51404	5.27473	5.58574
10:59:34			100.7145	918	10.24	0.7057086	5.4121	1.4652	5.17705	5.54665
10:59:34			102.8574	919	10.23903	0.7073131	5.2153	1.56288	5.47009	5.56034
10:59:35			105.0003	920	10.24	0.6992893	5.117	1.56288	5.32357	5.4926

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:59:35			107.1432	921	10.24	0.7187084	5.117	1.51404	5.27473	5.65632
10:59:36			109.2861	922	10.24769	0.7129316	5.3137	1.51404	5.07937	5.60637
10:59:36			111.429	923	10.25057	0.70619	5.4121	1.51404	5.32357	5.5491
10:59:37			113.5719	924	10.24769	0.7127712	5.3137	1.51404	5.32357	5.60502
10:59:37			115.7148	925	10.25057	0.7098812	5.3137	1.51404	5.37241	5.58021
10:59:38			117.8577	926	10.26313	0.7066715	5.3137	1.51404	5.27473	5.55125
10:59:38			120.0006	927	10.26698	0.7138939	5.3137	1.56288	5.22589	5.61152
10:59:39			122.1435	928	10.27755	0.7337982	5.4121	1.51404	5.32357	5.77782
10:59:39			124.2864	929	10.28908	0.7122883	5.5105	1.51404	5.17705	5.59458
10:59:40			126.4293	930	10.28908	0.703782	5.4121	1.51404	4.93284	5.52298
10:59:40			128.5722	931	10.28043	0.7103635	5.3137	1.4652	5.27473	5.57971
10:59:41			130.7151	932	10.27947	0.7257715	5.117	1.56288	5.37241	5.70978
10:59:41			132.858	933	10.29677	0.73155	5.3137	1.56288	5.22589	5.75581
10:59:42			135.0009	934	10.31022	0.717585	5.4121	1.51404	5.07937	5.63595
10:59:42			137.1438	935	10.31214	0.7163016	5.3137	1.51404	4.884	5.62485
10:59:43			139.2867	936	10.30446	0.7159804	5.3137	1.4652	5.07937	5.62333
10:59:43			141.4296	937	10.30638	0.7265744	5.3137	1.51404	4.93284	5.71232
10:59:44			143.5725	938	10.31695	0.7305874	5.3137	1.51404	4.93284	5.74451
10:59:44			145.7154	939	10.32565	0.7276984	5.3137	3.4188	5.47009	5.71878
10:59:45			147.8583	940	10.32661	0.7248077	5.3137	1.51404	5.32357	5.69427
10:59:45			150.0012	941	10.33045	0.7272161	5.3137	1.51404	5.32357	5.71397
10:59:46			152.1441	942	10.32757	0.7342781	5.3137	1.51404	5.12821	5.77397
10:59:46			154.287	943	10.32373	0.7232035	5.3137	1.51404	5.12821	5.6812
10:59:47			156.4299	944	10.32469	0.7174242	5.3137	1.4652	4.98168	5.63237
10:59:47			158.5728	945	10.32949	0.7268952	5.3137	1.51404	5.03053	5.71141
10:59:48			160.7157	946	10.32757	0.7606056	5.4121	1.51404	5.27473	5.99641
10:59:48			162.8586	947	10.3131	0.7366874	5.4121	1.51404	5.17705	5.79658
10:59:49			165.0015	948	10.31118	0.7251302	5.4121	8.00977	4.884	5.69939
10:59:49			167.1444	949	10.32469	0.7283405	5.3137	3.80952	5.03053	5.72435
10:59:50			169.2873	950	10.33525	0.7256101	5.2153	2.78388	5.27473	5.69969
10:59:50			171.4302	951	10.31791	0.73444	5.2153	2.34432	5.32357	5.77687
10:59:51			173.5731	952	10.3131	0.7275371	5.4121	1.51404	5.17705	5.71938
10:59:51			175.716	953	10.31118	0.7169441	5.3137	5.17705	5.42125	5.63041
10:59:52			177.8589	954	10.32661	0.716141	5.3137	3.71184	5.07937	5.62127
10:59:52	10:5828 @ 6:00	5	180	955	10.33621	0.7094006	5.2153	2.58852	5.22589	5.5631
10:59:53			181.5517	956	10.33525	0.7057083	5.117	3.71184	5.37241	5.53221
10:59:53			183.1034	957	10.33141	0.7079546	5.2153	5.37241	5.42125	5.55167
10:59:54			184.6551	958	10.39483	0.7121277	5.4121	8.25397	5.42125	5.57707
10:59:54			186.2068	959	10.47352	0.7050669	5.5105	22.17338	5.37241	5.50593
10:59:55			187.7585	960	10.43799	0.7041029	5.3137	20.46398	5.27473	5.50322
10:59:55			189.3102	961	10.50418	0.7195119	5.2153	19.29182	5.27473	5.6223
10:59:56			190.8619	962	10.65841	0.7124477	5.2153	22.75946	5.42125	5.53978
10:59:56			192.4136	963	10.77217	0.7156582	5.3137	23.58974	5.22589	5.54935
10:59:57			193.9653	964	10.77217	0.7166218	5.4121	20.31746	5.27473	5.55735
10:59:58			195.517	967	10.73817	0.7114895	5.2153	16.16606	5.22589	5.5198

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
10:59:59			197.0687	968	10.70373	0.7381343	5.3137	14.45665	5.22589	5.74719
10:59:59			198.6204	969	10.53339	0.722083	5.5105	8.59585	5.17705	5.63933
11:00:00			200.1721	970	10.51322	0.7183918	5.6089	5.90965	5.12821	5.6115
11:00:00			201.7238	971	10.61766	0.7103664	5.117	6.44689	5.22589	5.52857
11:00:01			203.2755	972	10.63965	0.712293	5.2153	10.79365	5.12821	5.54132
11:00:01			204.8272	973	10.59949	0.7095638	5.4121	21.19658	5.17705	5.52458
11:00:02			206.3789	974	10.60427	0.7087615	5.4121	16.26374	5.32357	5.51717
11:00:02			207.9306	975	10.63009	0.7087615	5.3137	16.01954	5.03053	5.51329
11:00:03			209.4823	976	10.64825	0.7103663	5.3137	19.53602	4.98168	5.52395
11:00:03			211.034	977	10.65686	0.7103663	5.3137	21.24542	5.37241	5.52265
11:00:04			212.5857	978	10.69323	0.7153428	5.3137	21.5873	5.22589	5.55865
11:00:04			214.1374	979	10.71806	0.7119722	5.4121	21.3431	4.93284	5.52682
11:00:05			215.6891	980	10.72092	0.7077993	5.4121	20.07326	5.12821	5.49166
11:00:05			217.2408	981	10.74294	0.6983284	5.117	20.65934	5.17705	5.40971
11:00:06			218.7925	982	10.75821	0.7134152	5.2153	18.9011	5.42125	5.5328
11:00:06			220.3442	983	10.77443	0.7041077	5.5105	14.84737	5.66545	5.45301
11:00:07			221.8959	984	10.7792	0.7018598	5.5105	22.36874	4.78632	5.43365
11:00:07			223.4476	985	10.73339	0.6700859	5.2153	20.02442	5.17705	5.17691
11:00:08			224.9993	986	10.66361	0.6602977	5.117	14.11477	5.47009	5.10564
11:00:08			226.551	987	10.62913	0.6811581	5.4121	7.22833	6.54457	5.28358
11:00:09			228.1027	988	10.60809	0.6734561	5.5105	10.01221	5.81197	5.22257
11:00:09			229.6544	989	10.61861	0.6620617	5.3137	9.27961	5.37241	5.12651
11:00:10			231.2061	990	10.61575	0.6474602	5.2153	12.64957	5.95849	5.00591
11:00:10			232.7578	991	10.60522	0.6548426	5.4121	10.64713	6.15385	5.0685
11:00:11			234.3095	992	10.59853	0.6466593	5.4121	12.30769	6.10501	5.00161
11:00:11			235.8612	993	10.59082	0.6450547	5.4121	13.82173	6.20269	4.98937
11:00:12			237.4129	994	10.58125	0.6400807	5.3137	10.98901	6.34921	4.94948
11:00:12			238.9646	995	10.58412	0.5946819	5.4121	8.30281	6.49573	4.5744
11:00:13			240.5163	996	10.53435	0.6259625	5.4121	1.90476	6.54457	4.83888
11:00:13			242.068	997	10.53818	0.6222722	5.4121	1.7094	6.54457	4.80785
11:00:14			243.6197	998	10.54584	0.6059101	5.2153	1.56288	7.27717	4.67174
11:00:14			245.1714	999	10.50268	0.5964464	5.2153	1.51404	7.08181	4.59914
11:00:15			246.7231	1000	10.42307	0.5775201	5.5105	7.22833	7.37485	4.45289
11:00:15			248.2748	1001	10.36352	0.576717	5.5105	1.51404	7.37485	4.45351
11:00:16			249.8265	1002	10.37504	0.5566697	5.4121	1.51404	7.71673	4.2869
11:00:16			251.3782	1003	10.35488	0.5310141	5.2153	1.51404	7.91209	4.07844
11:00:17			252.9299	1004	10.28278	0.5470497	5.2153	1.51404	8.10745	4.21844
11:00:17			254.4816	1005	10.19803	0.5199497	5.5105	1.51404	8.05861	4.00491
11:00:18			256.0333	1006	10.2115	0.5076052	5.5105	1.51404	7.71673	3.90205
11:00:18			257.585	1007	10.18744	0.5138573	5.3137	1.51404	7.86325	3.95599
11:00:19			259.1367	1008	10.21054	0.5082463	5.2153	1.51404	8.05861	3.90743
11:00:19			260.6884	1009	10.20669	0.5215543	5.4121	1.4652	8.35165	4.01716
11:00:20			262.2401	1010	10.17493	0.5124146	5.6089	1.56288	8.10745	3.94547
11:00:20			263.7918	1011	10.17108	0.5146593	5.3137	1.56288	6.93529	3.96436
11:00:21			265.3435	1012	10.16531	0.5109713	5.2153	1.51404	7.52137	3.93467

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:21			266.8952	1013	10.17204	0.5233183	5.117	1.51404	7.76557	4.03551
11:00:22			268.4469	1014	10.18744	0.5523407	5.5105	1.51404	8.00977	4.27317
11:00:22	10:58:58 end transect	5	270	1015	10.20765	0.5443225	5.6089	1.51404	7.71673	4.20459
11:00:23	reposition to 90			1016	10.20669	0.5268443	5.3137	1.51404	7.32601	4.06068
11:00:23				1017	10.20958	0.5659729	5.2153	1.51404	7.81441	4.38333
11:00:24				1018	10.22695	0.6331825	5.4121	1.56288	7.81441	4.94
11:00:24				1019	10.27791	0.5739906	5.5105	1.51404	7.66789	4.4414
11:00:25				1020	10.27887	0.5881061	5.4121	1.51404	6.98413	4.55817
11:00:25				1021	10.27983	0.6694435	5.3137	1.51404	7.22833	5.23601
11:00:26				1022	10.3568	0.6572492	5.5105	1.4652	7.42369	5.12308
11:00:26				1023	10.40676	0.6301332	5.4121	1.51404	7.22833	4.89041
11:00:27				1024	10.3712	0.6073532	5.117	5.71429	6.93529	4.70604
11:00:27				1025	10.34336	0.6217921	5.0186	1.56288	6.73993	4.82954
11:00:28				1026	10.352	0.6320601	5.2153	1.56288	7.17949	4.91379
11:00:28				1027	10.36448	0.6278876	5.2153	3.71184	6.69109	4.8774
11:00:29				1028	10.40292	0.6086373	4.8218	2.88156	6.59341	4.71262
11:00:29				1029	10.38751	0.6150544	4.6251	1.85592	6.78877	4.76783
11:00:30				1030	10.35488	0.6108831	4.6251	2.34432	6.98413	4.73746
11:00:30				1031	10.35872	0.5906712	4.4283	1.51404	6.88645	4.56951
11:00:31				1032	10.34624	0.5824915	3.9364	1.4652	7.03297	4.50344
11:00:31				1033	10.32601	0.5619633	3.6412	1.51404	6.78877	4.33641
11:00:32				1034	10.31352	0.5476907	3.3461	1.51404	6.83761	4.22029
11:00:32				1035	10.25003	0.5167443	2.9526	1.51404	7.37485	3.97305
11:00:33				1036	10.19226	0.5008719	2.6574	1.56288	7.71673	3.84904
11:00:33				1037	10.18359	0.499108	2.559	1.51404	7.96093	3.8355
11:00:34				1038	10.15273	0.4888475	2.4606	1.51404	7.91209	3.75462
11:00:34				1039	10.12383	0.4872452	2.0671	1.51404	7.96093	3.74448
11:00:35				1040	10.11613	0.4846808	1.8703	1.51404	8.20513	3.72426
11:00:35				1041	10.11131	0.4859634	1.8703	1.56288	8.10745	3.73527
11:00:36				1042	10.11035	0.485322	1.9687	1.51404	8.05861	3.7301
11:00:36				1043	10.11035	0.485322	1.9687	1.51404	8.98657	3.7301
11:00:37				1044	10.11035	0.4878873	1.8703	1.51404	8.40049	3.75114
11:00:37				1045	10.11324	0.488047	1.8703	1.4652	8.20513	3.75216
11:00:38				1046	10.11709	0.488047	2.0671	1.51404	8.15629	3.75175
11:00:38				1047	10.11709	0.4867646	2.0671	1.51404	8.00977	3.74123
11:00:39				1048	10.11227	0.4846808	1.8703	1.51404	7.91209	3.72466
11:00:39				1049	10.11131	0.4874049	1.9687	1.51404	8.44933	3.74708
11:00:40				1050	10.11324	0.4859634	2.0671	1.51404	8.30281	3.73506
11:00:40				1051	10.11035	0.485322	2.0671	1.51404	7.76557	3.7301
11:00:41				1052	10.10746	0.4838789	1.9687	1.51404	7.91209	3.71857
11:00:41				1053	10.10553	0.4862842	1.8703	1.51404	8.15629	3.73849
11:00:42				1054	10.10553	0.4848403	2.0671	1.51404	8.15629	3.72664
11:00:42				1055	10.10457	0.4848403	2.0671	1.4652	8.00977	3.72674
11:00:43				1056	10.10457	0.4861229	1.9687	1.51404	7.96093	3.73726
11:00:43				1057	10.10746	0.488047	1.9687	1.51404	8.30281	3.75275

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:00:44				1058	10.11227	0.4878873	1.9687	1.51404	8.00977	3.75094
11:00:44				1059	10.11131	0.4867646	1.9687	1.56288	8.05861	3.74183
11:00:45				1060	10.11131	0.4904513	1.9687	1.51404	8.10745	3.77207
11:00:45				1061	10.11516	0.4893287	2.0671	1.51404	8.00977	3.76246
11:00:46				1062	10.1142	0.4872452	2.0671	1.51404	8.49817	3.74547
11:00:46				1063	10.10746	0.4835586	1.9687	1.51404	7.96093	3.71595
11:00:47				1064	10.10746	0.4856427	1.9687	1.51404	8.10745	3.73303
11:00:47				1065	10.10649	0.485322	2.0671	1.51404	7.91209	3.73049
11:00:48				1066	10.10842	0.4854815	1.9687	1.51404	8.10745	3.73161
11:00:48				1067	10.11035	0.4957409	1.9687	1.51404	7.86325	3.81559
11:00:49				1068	10.12287	0.492215	2.0671	1.51404	8.15629	3.78534
11:00:49				1069	10.12576	0.492215	2.0671	1.56288	7.86325	3.78504
11:00:50				1070	10.1248	0.4926954	1.9687	1.56288	8.05861	3.78908
11:00:50				1071	10.1248	0.4928555	2.0671	1.51404	8.30281	3.79039
11:00:51				1072	10.12672	0.4920548	2.1655	1.51404	8.00977	3.78362
11:00:51				1073	10.12576	0.48965	1.9687	1.51404	7.96093	3.764
11:00:52				1074	10.12287	0.4922149	1.8703	1.51404	8.05861	3.78535
11:00:52				1075	10.12287	0.4928555	2.0671	1.51404	8.15629	3.79059
11:00:53				1076	10.12576	0.4914129	2.1655	1.51404	8.15629	3.77845
11:00:53				1077	10.12094	0.4891688	1.8703	1.51404	8.15629	3.76056
11:00:54				1078	10.11805	0.491733	1.6736	1.51404	7.86325	3.7819
11:00:54				1079	10.11902	0.4942993	1.9687	1.51404	8.05861	3.80285
11:00:55				1080	10.12191	0.4923751	2.1655	1.56288	8.20513	3.78674
11:00:55				1081	10.12094	0.4931759	1.9687	1.51404	8.10745	3.79343
11:00:56				1082	10.11998	0.4923751	1.6736	1.51404	8.10745	3.78697
11:00:56				1083	10.11902	0.493498	1.772	1.51404	7.86325	3.79628
11:00:57				1084	10.12287	0.4936582	2.0671	1.51404	8.49817	3.79718
11:00:58				1087	10.1151	0.49799	1.8703	1.56288	8.10745	3.83357
11:00:59				1088	10.12281	0.493982	2.0671	1.51404	8.20513	3.79984
11:00:59				1089	10.11703	0.4930207	1.9687	1.51404	8.00977	3.79256
11:01:00				1090	10.11607	0.4869275	1.8703	1.51404	7.91209	3.74269
11:01:00				1091	10.1151	0.4936615	1.8703	1.51404	8.05861	3.79803
11:01:01				1092	10.11414	0.491738	1.9687	1.56288	7.91209	3.78233
11:01:01				1093	10.10932	0.4959063	1.9687	1.51404	7.91209	3.81705
11:01:02				1094	10.10932	0.4854848	1.9687	1.51404	8.10745	3.73154
11:01:02				1095	10.1074	0.4850047	1.9687	1.51404	7.91209	3.72781
11:01:03				1096	10.10065	0.4901347	1.8703	1.51404	7.91209	3.77058
11:01:03				1097	10.10161	0.4856459	1.772	1.51404	7.91209	3.73367
11:01:04				1098	10.10354	0.4910962	1.8703	1.51404	7.91209	3.77817
11:01:04				1099	10.11318	0.4910962	1.8703	1.51404	7.81441	3.77717
11:01:05				1100	10.11414	0.4878905	1.8703	1.51404	7.91209	3.75078
11:01:05				1101	10.11029	0.4837228	1.8703	1.4652	7.71673	3.71701
11:01:06				1102	10.1074	0.4846841	1.8703	1.51404	7.76557	3.72518
11:01:06				1103	10.10643	0.4875695	1.8703	1.56288	7.91209	3.74894
11:01:07				1104	10.10836	0.4854848	1.9687	1.51404	7.86325	3.73164

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:07				1105	10.11318	0.4858055	1.9687	1.51404	7.86325	3.73378
11:01:08				1106	10.11607	0.486447	1.9687	1.4652	7.86325	3.73874
11:01:08				1107	10.11992	0.4901347	1.9687	1.51404	7.96093	3.76858
11:01:09				1108	10.12088	0.486447	1.9687	1.51404	7.86325	3.73825
11:01:09				1109	10.12474	0.4922183	1.9687	1.56288	7.76557	3.78517
11:01:10				1110	10.1257	0.4910962	2.0671	1.51404	7.86325	3.77586
11:01:10				1111	10.12666	0.4898132	2.0671	1.4652	7.71673	3.76524
11:01:11				1112	10.12666	0.4902946	2.0671	1.51404	8.05861	3.76919
11:01:11				1113	10.12763	0.4901347	1.9687	1.56288	7.96093	3.76779
11:01:12				1114	10.1257	0.4898132	1.9687	1.51404	8.10745	3.76535
11:01:12				1115	10.12666	0.4901347	2.0671	1.56288	8.05861	3.76788
11:01:13				1116	10.1257	0.4898132	2.0671	1.4652	8.15629	3.76534
11:01:13				1117	10.1257	0.4899748	2.0671	1.51404	8.10745	3.76667
11:01:14				1118	10.1257	0.4910962	2.0671	1.51404	7.76557	3.77586
11:01:14				1119	10.12666	0.4891721	2.1655	1.51404	7.96093	3.75998
11:01:15				1120	10.12666	0.4890123	2.1655	1.51404	8.10745	3.75867
11:01:15				1121	10.12666	0.4885312	2.0671	1.51404	8.10745	3.75473
11:01:16				1122	10.1257	0.4898132	1.9687	1.51404	7.91209	3.76535
11:01:16				1123	10.12666	0.4894935	2.0671	1.51404	8.10745	3.76262
11:01:17				1124	10.12666	0.4896533	2.2639	1.51404	8.05861	3.76392
11:01:17				1125	10.12666	0.4891721	2.2639	1.51404	7.96093	3.75998
11:01:18				1126	10.12666	0.4870888	1.9687	1.51404	8.05861	3.74291
11:01:18				1127	10.12474	0.4867679	1.9687	1.51404	8.20513	3.74048
11:01:19				1128	10.12474	0.4870888	2.0671	1.51404	8.10745	3.74311
11:01:19				1129	10.1257	0.4872485	2.0671	1.4652	8.05861	3.74432
11:01:20				1130	10.1257	0.4862874	1.9687	1.56288	8.20513	3.73645
11:01:20				1131	10.12474	0.4846841	1.9687	1.51404	7.96093	3.72341
11:01:21				1132	10.11992	0.4854848	1.9687	1.51404	7.96093	3.73046
11:01:21				1133	10.11896	0.4846841	1.9687	1.51404	7.96093	3.724
11:01:22				1134	10.11703	0.4851658	1.8703	1.4652	7.96093	3.72815
11:01:22				1135	10.11414	0.4894935	1.772	1.56288	8.20513	3.76393
11:01:23				1136	10.11318	0.488691	1.8703	1.51404	8.00977	3.75744
11:01:23				1137	10.11414	0.488691	1.8703	1.51404	7.76557	3.75734
11:01:24				1138	10.11414	0.4893336	1.8703	1.51404	7.96093	3.76262
11:01:24				1139	10.11221	0.4904546	1.772	1.4652	8.15629	3.77202
11:01:25				1140	10.1151	0.493982	1.772	1.51404	7.91209	3.80066
11:01:25				1141	10.11607	0.4925385	1.8703	1.51404	7.81441	3.78871
11:01:26				1142	10.11703	0.4930207	1.8703	1.51404	7.86325	3.79257
11:01:26				1143	10.1151	0.4931809	1.8703	1.51404	8.00977	3.79408
11:01:27				1144	10.1151	0.4965465	1.8703	1.4652	8.05861	3.82171
11:01:27				1145	10.11992	0.4941423	1.8703	1.56288	7.91209	3.80147
11:01:28				1146	10.12185	0.4943026	1.8703	1.56288	7.96093	3.80258
11:01:28				1147	10.12088	0.4971886	1.8703	1.51404	8.05861	3.82638
11:01:29				1148	10.12281	0.4960651	1.8703	1.51404	7.81441	3.81695
11:01:29				1149	10.12377	0.4944629	1.8703	1.4652	7.81441	3.8037

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:30				1150	10.12281	0.493982	1.8703	1.51404	8.05861	3.79985
11:01:30				1151	10.12185	0.4909362	1.8703	1.51404	8.00977	3.77496
11:01:31				1152	10.12088	0.491738	1.9687	1.51404	7.76557	3.78163
11:01:31				1153	10.12088	0.4920582	2.0671	1.51404	7.86325	3.78426
11:01:32				1154	10.12281	0.4907762	2.0671	1.51404	8.10745	3.77354
11:01:32				1155	10.12088	0.4880503	2.0671	1.51404	8.10745	3.75138
11:01:33				1156	10.11992	0.4867679	1.9687	1.51404	8.15629	3.74098
11:01:33				1157	10.1151	0.4869275	2.0671	1.51404	8.00977	3.74277
11:01:34				1158	10.11318	0.4890123	2.0671	1.56288	7.96093	3.76007
11:01:34				1159	10.11414	0.4883714	2.0671	1.51404	7.61905	3.75471
11:01:35				1160	10.11607	0.4878906	2.0671	1.51404	7.52137	3.75057
11:01:35				1161	10.11607	0.4872485	1.9687	1.51404	7.76557	3.74531
11:01:36				1162	10.1151	0.4899748	1.9687	1.51404	7.76557	3.76777
11:01:36				1163	10.11799	0.4888525	2.0671	1.56288	8.10745	3.75826
11:01:37				1164	10.11703	0.4885312	2.0671	1.4652	8.10745	3.75573
11:01:37				1165	10.11414	0.4888525	2.0671	1.51404	8.10745	3.75866
11:01:38				1166	10.11414	0.4888525	2.0671	1.51404	7.91209	3.75866
11:01:38				1167	10.1151	0.4904546	1.9687	1.4652	8.00977	3.77171
11:01:39				1168	10.1151	0.4910962	1.8703	1.56288	7.96093	3.77697
11:01:39				1169	10.1151	0.4902946	1.772	1.51404	8.00977	3.7704
11:01:40				1170	10.11318	0.4894935	1.6736	1.51404	7.81441	3.76404
11:01:40				1171	10.11125	0.4890123	1.5752	1.51404	7.96093	3.7603
11:01:41				1172	10.11029	0.4878905	1.3784	1.4652	8.05861	3.75121
11:01:41				1173	10.1074	0.4861262	1.2801	1.56288	8.00977	3.73704
11:01:42				1174	10.10547	0.4912562	1.3784	1.51404	7.91209	3.77932
11:01:42				1175	10.10451	0.4936615	1.4768	1.51404	7.81441	3.79915
11:01:43				1176	10.10932	0.4951043	1.6736	1.51404	7.86325	3.81049
11:01:43				1177	10.11221	0.4976687	1.9687	1.4652	7.91209	3.83123
11:01:44				1178	10.1151	0.49799	2.1655	1.56288	7.86325	3.83355
11:01:44				1179	10.12088	0.498631	2.3623	1.56288	7.86325	3.83819
11:01:45				1180	10.11992	0.4968676	2.4606	1.4652	8.00977	3.82381
11:01:45				1181	10.11896	0.4973492	2.2639	1.51404	8.10745	3.82787
11:01:46				1182	10.12088	0.4947836	2.1655	1.51404	7.91209	3.80661
11:01:46				1183	10.12088	0.4973492	2.1655	1.51404	8.00977	3.82768
11:01:47				1184	10.11799	0.4992722	2.2639	1.56288	8.44933	3.84377
11:01:47				1185	10.11799	0.4955855	2.3623	1.51404	8.25397	3.81349
11:01:48				1186	10.11703	0.4967071	2.2639	1.51404	7.81441	3.8228
11:01:48				1187	10.11896	0.4975082	2.1655	1.4652	7.86325	3.82919
11:01:49				1188	10.11992	0.4935013	2.1655	1.51404	8.10745	3.79619
11:01:49				1189	10.1151	0.4971887	2.2639	1.51404	7.76557	3.82696
11:01:50				1190	10.11703	0.4947836	2.3623	1.51404	7.86325	3.80701
11:01:50				1191	10.11414	0.4944629	2.2639	1.51404	8.15629	3.80468
11:01:51				1192	10.1151	0.4928605	1.8703	1.51404	8.00977	3.79145
11:01:51				1193	10.11607	0.495425	1.772	1.51404	8.20513	3.81241
11:01:52				1194	10.11896	0.49799	1.8703	1.51404	8.54701	3.83316

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:01:52				1195	10.12377	0.4959063	1.9687	1.56288	8.05861	3.81554
11:01:53				1196	10.12088	0.4959063	2.1655	1.51404	8.05861	3.81583
11:01:53				1197	10.12281	0.4981506	2.1655	1.4652	8.15629	3.83406
11:01:54				1198	10.1257	0.4968676	2.2639	1.51404	7.96093	3.82321
11:01:54				1199	10.12666	0.4959063	2.3623	1.51404	7.91209	3.81521
11:01:55				1200	10.12474	0.4959063	2.1655	1.51404	7.86325	3.81543
11:01:55				1201	10.12666	0.4918981	2.0671	1.51404	8.05861	3.78234
11:01:56				1202	10.11896	0.488691	1.8703	1.51404	8.15629	3.75685
11:01:56				1203	10.11029	0.4867679	1.772	1.51404	7.96093	3.74198
11:01:57				1204	10.1074	0.4851658	1.772	1.51404	8.44933	3.72914
11:01:58				1207	10.11209	0.4910962	1.8703	1.4652	8.05861	3.77729
11:01:59				1208	10.11209	0.4912562	1.9687	1.51404	7.91209	3.77859
11:01:59				1209	10.11113	0.4837212	1.9687	1.51404	8.00977	3.7169
11:02:00				1210	10.10246	0.4848436	2.0671	1.51404	7.96093	3.72698
11:02:00				1211	10.10342	0.4882101	2.1655	1.56288	7.96093	3.75449
11:02:01				1212	10.10631	0.4861262	2.2639	1.51404	7.86325	3.73709
11:02:01				1213	10.1092	0.4832416	2.2639	1.51404	8.10745	3.71315
11:02:02				1214	10.10728	0.4827604	2.2639	1.51404	7.76557	3.70941
11:02:02				1215	10.10728	0.4824386	2.1655	1.51404	8.05861	3.70678
11:02:03				1216	10.10728	0.4825995	2.0671	1.56288	7.91209	3.7081
11:02:03				1217	10.10631	0.4829197	2.0671	1.51404	7.91209	3.71082
11:02:04				1218	10.10631	0.4829197	1.9687	1.51404	7.71673	3.71083
11:02:04				1219	10.10535	0.4843636	1.9687	1.51404	7.76557	3.72276
11:02:05				1220	10.10631	0.4850047	1.8703	1.51404	7.81441	3.72792
11:02:05				1221	10.10728	0.484523	1.772	1.56288	7.81441	3.72388
11:02:06				1222	10.1092	0.4854848	1.772	1.51404	7.81441	3.73157
11:02:06				1223	10.11209	0.4835618	1.772	1.51404	7.47253	3.71551
11:02:07				1224	10.11113	0.4832415	1.772	1.51404	8.05861	3.71298
11:02:07				1225	10.11498	0.4830806	1.9687	1.51404	7.81441	3.71126
11:02:08				1226	10.11498	0.4832416	2.1655	1.51404	7.86325	3.71257
11:02:08				1227	10.11498	0.4829197	2.2639	1.51404	8.05861	3.70993
11:02:09				1228	10.11209	0.4829197	2.1655	1.51404	7.91209	3.71023
11:02:09				1229	10.11209	0.4842026	2.2639	1.51404	7.81441	3.72073
11:02:10				1230	10.1092	0.4904546	2.4606	1.4652	8.00977	3.77229
11:02:10				1231	10.11113	0.4854848	2.6574	1.56288	7.81441	3.73132
11:02:11				1232	10.11113	0.4853253	2.6574	1.56288	7.76557	3.73001
11:02:11				1233	10.1092	0.4840432	2.4606	1.51404	7.76557	3.71971
11:02:12				1234	10.1092	0.4850047	2.559	1.51404	7.76557	3.72759
11:02:12				1235	10.11306	0.4882101	2.6574	1.51404	7.86325	3.75347
11:02:13				1236	10.11306	0.4931792	2.6574	1.51404	7.76557	3.79423
11:02:13				1237	10.12564	0.4936615	2.7558	1.56288	7.86325	3.79688
11:02:14				1238	10.13335	0.493019	2.8542	1.51404	7.91209	3.7908
11:02:14				1239	10.13431	0.4917364	2.8542	1.51404	7.96093	3.78018
11:02:15				1240	10.13431	0.4944629	2.9526	1.4652	8.15629	3.80254
11:02:15				1241	10.13431	0.5756003	3.2477	1.51404	8.05861	4.47245

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:16				1242	10.15646	0.5797693	3.5428	1.51404	8.05861	4.50433
11:02:16				1243	10.16898	0.6479493	3.6412	1.51404	7.52137	5.07166
11:02:17				1244	10.25376	0.6628711	3.9364	1.51404	7.42369	5.18477
11:02:17				1245	10.2874	0.6771529	4.1331	1.4652	5.61661	5.29964
11:02:18				1246	10.3134	0.7023487	4.5267	1.51404	5.47009	5.50732
11:02:18				1247	10.31917	0.7506639	5.0186	1.51404	5.42125	5.91372
11:02:19				1248	10.27779	0.7217689	5.2153	1.51404	5.37241	5.67626
11:02:19				1249	10.26626	0.7169553	5.117	1.51404	5.17705	5.63746
11:02:20				1250	10.2576	0.7604571	5.117	1.4652	5.32357	6.00668
11:02:20				1251	10.30476	0.7710533	5.6089	1.51404	5.42125	6.08866
11:02:21				1252	10.29605	0.760617	5.7073	1.51404	5.07937	6.00166
11:02:21				1253	10.32493	0.7495396	5.4121	1.51404	4.83516	5.90325
11:02:22				1254	10.29707	0.7376618	5.117	1.51404	4.93284	5.80739
11:02:22				1255	10.30284	0.7752262	5.5105	1.4652	5.12821	6.12437
11:02:23				1256	10.30668	0.7649522	5.6089	1.51404	5.07937	6.03663
11:02:23				1257	10.27202	0.7638286	5.8056	1.51404	5.07937	6.03282
11:02:24				1258	10.3086	0.7662368	5.7073	1.51404	4.98168	6.04719
11:02:24				1259	10.30764	0.7737814	5.7073	1.51404	5.07937	6.1113
11:02:25				1260	10.26818	0.8336765	6.1992	1.4652	5.07937	6.628
11:02:25				1261	10.27202	0.8184198	6.4943	1.51404	4.83516	6.49702
11:02:26				1262	10.28452	0.7973851	6.4943	1.51404	4.05372	6.31564
11:02:26				1263	10.25857	0.8052521	6.3959	1.51404	4.34676	6.38715
11:02:27				1264	10.25664	0.8193843	6.4943	1.51404	4.59096	6.508
11:02:27				1265	10.28164	0.8166538	6.5927	1.51404	4.49328	6.48024
11:02:28				1266	10.28452	0.8164938	6.4943	1.51404	4.1514	6.47838
11:02:28				1267	10.28067	0.8235592	6.2976	1.51404	4.1514	6.53935
11:02:29				1268	10.28452	0.8331952	6.3959	1.51404	4.34676	6.6209
11:02:29				1269	10.30764	0.8240404	6.2976	1.56288	4.59096	6.53862
11:02:30				1270	10.29125	0.8258079	6.3959	1.4652	4.20024	6.55663
11:02:30				1271	10.27971	0.8365678	6.3959	1.51404	4.54212	6.65059
11:02:31				1272	10.33261	0.8733473	6.5927	1.51404	4.29792	6.95537
11:02:31				1273	10.41521	0.8783265	6.8878	1.51404	4.1514	6.9822
11:02:32				1274	10.55816	0.8831469	7.0846	1.56288	3.76068	6.99602
11:02:32				1275	10.59739	0.892623	7.0846	1.56288	3.1746	7.06924
11:02:33				1276	10.65483	0.895676	7.3798	1.51404	2.97924	7.08413
11:02:33				1277	10.68355	0.8929446	7.5765	1.51404	2.83272	7.05534
11:02:34				1278	10.67591	0.889732	7.4781	1.4652	2.78388	7.02951
11:02:34				1279	10.66922	0.8752754	7.183	1.56288	2.9304	6.90801
11:02:35				1280	10.64527	0.8955149	7.3798	1.51404	3.1746	7.0846
11:02:35				1281	10.66152	0.8894106	7.5765	1.51404	2.97924	7.02952
11:02:36				1282	10.6596	0.8889286	7.5765	1.51404	2.88156	7.02579
11:02:36				1283	10.65674	0.8852336	7.3798	1.4652	2.88156	6.99495
11:02:37				1284	10.64527	0.8841088	7.3798	1.51404	3.02808	6.98757
11:02:37				1285	10.63857	0.8908555	7.4781	1.51404	3.07692	7.04622
11:02:38				1286	10.64144	0.8842712	7.4781	1.51404	2.9304	6.98967

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:02:38				1287	10.63762	0.8847524	7.3798	1.51404	2.78388	6.9945
11:02:39				1288	10.63762	0.8866801	7.4781	1.51404	2.83272	7.01088
11:02:39				1289	10.64909	0.8855546	7.4781	1.56288	2.97924	6.99912
11:02:40				1290	10.64718	0.8841088	7.3798	1.51404	2.9304	6.98721
11:02:40				1291	10.64049	0.8937475	7.2814	1.51404	3.07692	7.07049
11:02:41				1292	10.65865	0.8976039	7.4781	1.51404	2.88156	7.09978
11:02:41				1293	10.67304	0.8939084	7.6749	1.4652	2.78388	7.06555
11:02:42				1294	10.67591	0.8914987	7.4781	1.56288	2.83272	7.04453
11:02:42				1295	10.67304	0.8881252	7.2814	1.56288	2.78388	7.01642
11:02:43				1296	10.67018	0.8898928	7.2814	1.51404	2.9304	7.032
11:02:43				1297	10.66826	0.8934275	7.4781	1.51404	2.9304	7.0624
11:02:44				1298	10.67304	0.8910162	7.5765	1.4652	2.9304	7.04097
11:02:44				1299	10.67209	0.8916595	7.5765	1.51404	2.78388	7.04662
11:02:45				1300	10.67018	0.8906966	7.3798	1.51404	2.83272	7.03882
11:02:45				1301	10.66922	0.8935864	7.2814	1.51404	3.02808	7.06359
11:02:46				1302	10.67209	0.8959961	7.3798	1.51404	2.9304	7.08352
11:02:46	11:01:22 start transect	5	90	1303	10.68355	0.8971222	7.4781	1.4652	3.27228	7.09087
11:02:47				1304	10.68355	0.8948725	7.5765	1.51404	2.88156	7.07173
11:02:47				1305	10.67878	0.8932665	7.4781	1.51404	2.73504	7.05901
11:02:48				1306	10.68069	0.8939084	7.3798	1.51404	2.6862	7.06411
11:02:48				1307	10.67782	0.8886071	7.2814	1.51404	2.6862	7.01961
11:02:49				1308	10.67591	0.8905358	7.2814	1.4652	2.78388	7.03636
11:02:49				1309	10.674	0.8964795	7.3798	1.51404	2.78388	7.08726
11:02:50				1310	10.68069	0.8963184	7.4781	1.51404	2.78388	7.08459
11:02:50				1311	10.674	0.8935864	7.4781	1.51404	2.73504	7.06265
11:02:51				1312	10.68164	0.8926228	7.2814	1.51404	2.78388	7.053
11:02:51				1313	10.6826	0.8919812	7.0846	1.4652	2.73504	7.04739
11:02:52				1314	10.69215	0.8919812	7.2814	1.51404	2.73504	7.04553
11:02:52				1315	10.70075	0.8918203	7.3798	1.51404	2.6862	7.04251
11:02:53				1316	10.7017	0.8913377	7.2814	1.51404	2.53968	7.03824
11:02:53				1317	10.7017	0.8911769	7.3798	1.51404	2.58852	7.03686
11:02:54				1318	10.70266	0.8910161	7.2814	1.4652	2.6862	7.03532
11:02:54				1319	10.70648	0.8900534	7.183	1.51404	2.73504	7.02642
11:02:55				1320	10.70934	0.8927836	7.2814	1.56288	2.78388	7.04905
11:02:55				1321	10.70743	0.8955147	7.3798	1.51404	2.73504	7.07261
11:02:56				1322	10.69979	0.892142	7.4781	1.51404	2.6862	7.04541
11:02:56				1323	10.70552	0.8908553	7.3798	1.4652	2.63736	7.03339
11:02:57				1324	10.71221	0.8903749	7.183	1.56288	2.6862	7.02806
11:02:58				1327	10.70331	0.891304	7.4781	1.51404	2.73504	7.03762
11:02:59				1328	10.70331	0.8898589	7.3798	1.51404	2.58852	7.02535
11:02:59				1329	10.70331	0.8900197	7.3798	1.51404	2.9304	7.02672
11:03:00				1330	10.70331	0.8901784	7.183	1.56288	2.83272	7.02809
11:03:00				1331	10.69949	0.8914648	7.2814	1.51404	2.83272	7.03974
11:03:01				1332	10.70045	0.8895375	7.3798	1.51404	2.83272	7.02317
11:03:01				1333	10.69949	0.8898589	7.3798	1.4652	3.07692	7.02609

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:02				1334	10.70236	0.8896982	7.2814	1.51404	3.27228	7.02418
11:03:02				1335	10.70236	0.8890554	7.2814	1.56288	2.78388	7.01872
11:03:03				1336	10.69567	0.8885734	7.2814	1.51404	3.1746	7.01591
11:03:03				1337	10.69376	0.8892161	7.2814	1.51404	2.73504	7.02173
11:03:04				1338	10.69567	0.8863232	7.183	1.4652	2.63736	6.99681
11:03:04				1339	10.67848	0.8855208	7.183	1.51404	2.6862	6.99327
11:03:05				1340	10.66701	0.8861628	7.2814	1.56288	2.9304	7.0009
11:03:05				1341	10.6651	0.8874491	7.2814	1.56288	2.88156	7.01219
11:03:06				1342	10.66122	0.8864858	7.183	1.51404	3.46764	7.00476
11:03:06				1343	10.68325	0.8871279	7.0846	1.4652	3.07692	7.00602
11:03:07				1344	10.68803	0.8908216	7.0846	1.56288	2.97924	7.03649
11:03:07				1345	10.69376	0.8901785	7.2814	1.56288	2.88156	7.02991
11:03:08				1346	10.69472	0.887449	7.183	1.51404	2.83272	7.00655
11:03:08				1347	10.68994	0.8821472	6.9862	1.51404	3.02808	6.96246
11:03:09				1348	10.66122	0.8879309	6.9862	1.51404	3.12576	7.01706
11:03:09				1349	10.66892	0.8888948	7.0846	1.51404	3.27228	7.02377
11:03:10				1350	10.68899	0.8863232	7.183	1.51404	3.12576	6.99808
11:03:10				1351	10.67274	0.8860022	7.183	1.51404	2.83272	6.99845
11:03:11				1352	10.68994	0.8868068	7.0846	1.51404	2.88156	7.00202
11:03:11				1353	10.69854	0.887449	7.0846	1.4652	2.97924	7.00583
11:03:12				1354	10.69567	0.8863232	7.0846	1.56288	2.97924	6.99682
11:03:12				1355	10.69281	0.8921063	7.0846	1.56288	3.12576	7.04649
11:03:13				1356	10.69854	0.8909824	7.2814	1.51404	3.02808	7.03582
11:03:13				1357	10.69949	0.8911432	7.183	1.51404	2.78388	7.03702
11:03:14				1358	10.70427	0.8904999	7.0846	1.51404	2.83272	7.03065
11:03:14				1359	10.70427	0.892428	7.183	1.51404	2.88156	7.04702
11:03:15				1360	10.70523	0.8925889	7.3798	1.56288	2.73504	7.04818
11:03:15				1361	10.70427	0.892428	7.3798	1.51404	2.73504	7.047
11:03:16				1362	10.70618	0.8925889	7.183	1.51404	2.83272	7.04802
11:03:16				1363	10.70618	0.8935526	7.2814	1.51404	2.78388	7.05619
11:03:17				1364	10.70523	0.8933916	7.3798	1.56288	2.73504	7.055
11:03:17				1365	10.70427	0.8933916	7.3798	1.51404	2.73504	7.05518
11:03:18				1366	10.70236	0.8940355	7.2814	1.51404	2.73504	7.06103
11:03:18				1367	10.70045	0.8938745	7.2814	1.51404	2.6862	7.06003
11:03:19				1368	10.70236	0.8943555	7.3798	1.51404	2.73504	7.06374
11:03:19				1369	10.69663	0.8951588	7.3798	1.51404	2.78388	7.07167
11:03:20				1370	10.69949	0.8951588	7.3798	1.51404	2.73504	7.07112
11:03:20				1371	10.69663	0.8959623	7.3798	1.51404	3.02808	7.0785
11:03:21				1372	10.69567	0.8962845	7.3798	1.51404	2.83272	7.08142
11:03:21				1373	10.69663	0.8961234	7.3798	1.51404	2.73504	7.07987
11:03:22				1374	10.69376	0.8978904	7.3798	1.56288	2.73504	7.09544
11:03:22				1375	10.67848	0.8980497	7.4781	1.51404	2.73504	7.09974
11:03:23				1376	10.66605	0.897568	7.3798	1.51404	2.73504	7.09806
11:03:23				1377	10.67561	0.8980497	7.2814	1.51404	2.6862	7.10032
11:03:24				1378	10.67657	0.899336	7.3798	1.51404	2.78388	7.11107

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:24				1379	10.66026	0.8980498	7.4781	1.51404	2.73504	7.10327
11:03:25				1380	10.67848	0.8962846	7.2814	1.51404	2.97924	7.08475
11:03:25				1381	10.68708	0.8983722	7.183	1.51404	2.73504	7.10085
11:03:26				1382	10.67561	0.9009418	7.5765	1.51404	2.73504	7.12489
11:03:26				1383	10.6507	0.8993361	7.6749	1.51404	2.97924	7.11605
11:03:27				1384	10.67083	0.896766	7.2814	1.56288	2.9304	7.09032
11:03:27				1385	10.68325	0.8970864	7.0846	1.51404	2.83272	7.09067
11:03:28				1386	10.68325	0.899336	7.3798	1.51404	2.78388	7.10977
11:03:28				1387	10.67179	0.8998181	7.5765	1.51404	2.9304	7.11607
11:03:29				1388	10.65835	0.8988542	7.5765	1.51404	2.83272	7.11047
11:03:29				1389	10.67179	0.8953199	7.0846	1.51404	2.73504	7.07786
11:03:30				1390	10.67466	0.899336	7.183	1.4652	2.78388	7.11146
11:03:30				1391	10.67561	0.8990154	7.5765	1.56288	2.78388	7.1085
11:03:31				1392	10.67752	0.8980497	7.4781	1.51404	2.88156	7.09993
11:03:31				1393	10.67943	0.8962845	7.2814	1.51404	2.78388	7.08457
11:03:32				1394	10.68039	0.899818	7.3798	1.51404	2.78388	7.11443
11:03:32				1395	10.68039	0.8985335	7.5765	1.4652	2.78388	7.10348
11:03:33				1396	10.67943	0.8972476	7.4781	1.51404	2.63736	7.09274
11:03:33				1397	10.66892	0.8943556	7.183	1.51404	2.6862	7.0702
11:03:34				1398	10.66892	0.9004596	7.3798	1.51404	2.9304	7.12211
11:03:34				1399	10.67466	0.8980497	7.6749	1.51404	2.9304	7.10046
11:03:35				1400	10.67466	0.8958012	7.4781	1.4652	2.73504	7.08136
11:03:35				1401	10.63732	0.8845583	7.0846	1.51404	2.88156	6.99294
11:03:36				1402	10.59231	0.8959625	7.183	1.56288	2.97924	7.09867
11:03:36				1403	10.62489	0.8959625	7.5765	1.51404	2.97924	7.09233
11:03:37				1404	10.65261	0.8919456	7.5765	1.51404	2.83272	7.05279
11:03:37				1405	10.60768	0.8815045	7.183	1.51404	2.9304	6.97259
11:03:38				1406	10.54542	0.8803815	6.9862	1.56288	3.27228	6.9749
11:03:38				1407	10.55308	0.9019069	7.3798	1.51404	3.56532	7.157
11:03:39				1408	10.63063	0.8974089	7.6749	1.56288	3.12576	7.10353
11:03:39				1409	10.63732	0.8843959	7.3798	1.51404	2.9304	6.99153
11:03:40				1410	10.54542	0.8641578	6.9862	1.51404	3.02808	6.83675
11:03:40				1411	10.54063	0.8885738	7.183	1.56288	3.36996	7.04564
11:03:41				1412	10.59231	0.8901788	7.6749	1.56288	3.46764	7.04933
11:03:41				1413	10.62107	0.8864859	7.5765	1.51404	2.9304	7.01239
11:03:42				1414	10.5837	0.8803814	7.2814	1.51404	2.88156	6.96758
11:03:42				1415	10.56265	0.8816669	7.0846	1.51404	3.1746	6.98256
11:03:43				1416	10.56839	0.8884131	7.2814	1.51404	3.36996	7.03892
11:03:43				1417	10.59231	0.885521	7.3798	1.51404	3.12576	7.00969
11:03:44				1418	10.59422	0.8823078	7.4781	1.51404	3.1746	6.98196
11:03:44				1419	10.58083	0.8811842	7.3798	1.51404	2.83272	6.97495
11:03:45				1420	10.577	0.8824701	7.183	1.51404	2.9304	6.98665
11:03:45				1421	10.56456	0.8823078	7.0846	1.56288	3.07692	6.98765
11:03:46				1422	10.57413	0.8914652	7.2814	1.4652	3.22344	7.06384
11:03:46	11:02:22 end transect	5	270	1423	10.59327	0.8826303	7.2814	1.51404	3.12576	6.98491

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:03:47				1424	10.58561	0.8808638	7.3798	1.51404	3.12576	6.97132
11:03:47				1425	10.577	0.8762052	7.2814	1.51404	3.27228	6.9333
11:03:48				1426	10.56265	0.8745991	7.183	1.51404	3.1746	6.92236
11:03:48				1427	10.53584	0.8676925	6.9862	1.4652	3.32112	6.86863
11:03:49				1428	10.47448	0.8636767	6.7895	1.51404	3.36996	6.84593
11:03:49				1429	10.47831	0.8665676	6.9862	1.56288	3.76068	6.86984
11:03:50				1430	10.50322	0.8636766	6.9862	1.51404	3.85836	6.84054
11:03:50				1431	10.39573	0.8315559	6.3959	1.51404	3.61416	6.58681
11:03:51				1432	10.26403	0.7997628	5.904	1.4652	3.9072	6.33949
11:03:51				1433	10.25442	0.7856329	5.904	1.51404	4.49328	6.22091
11:03:52				1434	10.22268	0.7888447	5.904	1.56288	4.98168	6.25367
11:03:52				1435	10.21589	0.7753571	5.7073	1.51404	4.6398	6.14009
11:03:53				1436	10.23615	0.7646016	5.2153	1.51404	4.6398	6.04538
11:03:53				1437	10.24	0.7247912	4.9202	1.51404	5.07937	5.7077
11:03:54				1438	10.24288	0.7225445	4.9202	1.56288	5.61661	5.68827
11:03:54				1439	10.25634	0.7151612	5.117	1.56288	6.83761	5.62386
11:03:55				1440	10.24288	0.5885682	4.9202	1.51404	6.88645	4.56654
11:03:55				1441	10.17451	0.5512002	4.4283	1.51404	7.17949	4.26533
11:03:56				1442	10.14846	0.5208952	4.1331	1.51404	7.22833	4.01823
11:03:56				1443	10.15423	0.4981291	4.1331	1.56288	7.61905	3.83046
11:03:57				1444	10.14557	0.5055039	4.2315	1.4652	7.66789	3.89192
11:03:58				1447	10.14906	0.5320111	3.4445	1.4652	7.86325	4.10983
11:03:59				1448	10.17024	0.5187031	3.5428	1.51404	7.66789	3.99782
11:03:59				1449	10.15483	0.5092425	3.3461	1.51404	7.17949	3.92171
11:04:00				1450	10.13943	0.4991413	3.1493	1.51404	7.61905	3.84038
11:04:00				1451	10.14135	0.4967369	3.2477	1.51404	7.86325	3.82044
11:04:01				1452	10.1375	0.4986608	3.3461	1.51404	7.96093	3.83663
11:04:01				1453	10.13648	0.4986608	3.2477	1.51404	7.71673	3.83674
11:04:02				1454	10.13455	0.489042	3.1493	1.4652	7.71673	3.75804
11:04:02				1455	10.1307	0.5029897	3.2477	1.51404	7.96093	3.87291
11:04:03				1456	10.12877	0.4924081	3.3461	1.51404	8.05861	3.78623
11:04:03				1457	10.12685	0.4928886	3.2477	1.51404	7.91209	3.79038
11:04:04				1458	10.12877	0.4948134	3.1493	1.51404	7.76557	3.80598
11:04:04				1459	10.1307	0.4952945	3.2477	1.4652	8.54701	3.80972
11:04:05				1460	10.13166	0.4941721	3.2477	1.51404	8.05861	3.80041
11:04:05				1461	10.1307	0.494653	3.1493	1.56288	7.91209	3.80446
11:04:06				1462	10.13166	0.5017065	3.1493	1.51404	8.44933	3.86227
11:04:06				1463	10.13359	0.4956152	3.0509	1.51404	7.86325	3.81206
11:04:07				1464	10.13359	0.4965764	3.0509	1.4652	7.61905	3.81995
11:04:07				1465	10.13359	0.5020285	3.0509	1.56288	8.10745	3.86472
11:04:08				1466	10.13455	0.4989822	3.1493	1.56288	8.25397	3.83959
11:04:08				1467	10.13359	0.4912859	2.9526	1.51404	7.81441	3.77655
11:04:09				1468	10.12685	0.4920879	2.4606	1.51404	7.91209	3.78386
11:04:09				1469	10.12685	0.4911259	2.2639	1.51404	7.71673	3.77598
11:04:10				1470	10.12588	0.491606	2.1655	1.51404	7.81441	3.78002

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:04:10				1471	10.12492	0.4895231	1.8703	1.51404	7.86325	3.76306
11:04:11				1472	10.11818	0.4864766	1.3784	1.51404	7.76557	3.7388
11:04:11				1473	10.11528	0.4840711	0.9849	1.51404	7.76557	3.7194
11:04:12				1474	10.11432	0.4840711	0.9849	1.51404	8.05861	3.7195
11:04:12				1475	10.11239	0.4839117	0.9849	1.56288	7.91209	3.71839
11:04:13				1476	10.11432	0.478621	0.7881	1.51404	7.76557	3.67487
11:04:13				1477	10.11721	0.4835913	0.6898	1.51404	10.15873	3.71529
11:04:14				1478	10.11432	0.4834304	0.8865	1.51404	13.18681	3.71426
11:04:14				1479	10.11432	0.4779807	0.9849	1.51404	13.18681	3.66962
11:04:15				1480	10.11336	0.4835913	0.6898	1.56288	11.67277	3.71569
11:04:15				1481	10.15098	0.4815063	0.5914	1.51404	39.65812	3.69479
11:04:16				1482	10.23477	0.4837505	0.6898	15.14042	11.23321	3.70464
11:04:16				1483	10.3137	0.4839114	0.6898	2.83272	6.93529	3.69796
11:04:17				1484	10.38193	0.4843927	0.5914	1.51404	2.73504	3.69499
11:04:17				1485	10.46447	0.484552	0.6898	1.51404	2.78388	3.68796
11:04:18				1486	10.5508	0.43294	0.6898	1.4652	2.9304	3.26317
11:04:18				1487	10.62071	0.0713629	0.6898	1.51404	2.53968	0.48857
11:04:19				1488	10.66092	0.0505876	0.6898	1.51404	2.49084	0.34151
11:04:19				1489	10.70487	0.0501079	0.6898	0	0	0.33776
11:04:20				1490	10.76507	0.0421184	0.6898	0	0	0.28182
11:04:20				1491	10.82713	0.0582582	0.6898	0	0	0.39357
11:04:21	11:03:06 switch off			1492	10.88818	0.0630525	0.6898	0	0	0.42654
11:09:20	11:07:53 switch on	2.5	3	7	10.15471	0.4888853	1.2801	0	0	3.75479
11:09:21				8	10.15375	0.4890451	1.1817	0	0	3.75621
11:09:21				9	10.15375	0.4908091	1.1817	0	0	3.77066
11:09:22				10	10.15279	0.4922512	1.2801	0	0	3.78257
11:09:22				11	10.15279	0.4884043	1.2801	0	0	3.75105
11:09:23				12	10.15086	0.4882429	1.2801	0	0	3.74992
11:09:23				13	10.14894	0.4893665	1.2801	0	0	3.75933
11:09:24				14	10.14894	0.4888853	1.2801	0	0	3.75539
11:09:24				15	10.1499	0.4900077	1.2801	0	0	3.76448
11:09:25				16	10.14894	0.4903275	1.3784	0	0	3.7672
11:09:25				17	10.15086	0.4900077	1.3784	0	0	3.76438
11:09:26				18	10.14701	0.4887239	1.2801	0	0	3.75426
11:09:26				19	10.15183	0.4887239	1.2801	0	0	3.75377
11:09:27				20	10.15086	0.4903275	1.2801	0	0	3.76701
11:09:27				21	10.15183	0.4906474	1.3784	0	0	3.76952
11:09:28				22	10.15086	0.4895263	1.2801	0	0	3.76044
11:09:28				23	10.14508	0.4885641	1.3784	0	0	3.75314
11:09:29				24	10.14508	0.4887239	1.3784	0	0	3.75445
11:09:29				25	10.14701	0.4888853	1.3784	0	0	3.75558
11:09:30				26	10.14797	0.4903275	1.3784	0	0	3.7673
11:09:30				27	10.13931	0.4903276	1.3784	0	0	3.76819
11:09:31				28	10.14123	0.4901676	1.3784	0	0	3.76668

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:09:31				29	10.14316	0.4890452	1.3784	0	0	3.75729
11:09:32				30	10.14701	0.4895263	1.2801	0	0	3.76084
11:09:32				31	10.14508	0.4904875	1.3784	0	0	3.76891
11:09:33				32	10.14797	0.4900077	1.3784	0	0	3.76468
11:09:33				33	10.14701	0.4888853	1.3784	0	0	3.75558
11:09:34				34	10.14797	0.4885641	1.3784	0	0	3.75285
11:09:34				35	10.1499	0.4882429	1.3784	0	0	3.75002
11:09:35				36	10.14797	0.4896862	1.3784	0	0	3.76204
11:09:35				37	10.14701	0.4893665	1.4768	0	0	3.75952
11:09:36				38	10.14605	0.4888853	1.3784	0	0	3.75568
11:09:36				39	10.14605	0.4898461	1.3784	0	0	3.76355
11:09:37				40	10.14508	0.4901676	1.3784	0	0	3.76629
11:09:37				41	10.14701	0.4903275	1.3784	0	0	3.7674
11:09:38				42	10.14701	0.489205	1.3784	0	0	3.7582
11:09:38				43	10.14701	0.4880831	1.3784	0	0	3.74901
11:09:39				44	10.14508	0.4885641	1.3784	0	0	3.75314
11:09:39				45	10.14316	0.4895264	1.2801	0	0	3.76123
11:09:40				46	10.14412	0.4903275	1.3784	0	0	3.7677
11:09:40				47	10.14508	0.4880831	1.3784	0	0	3.7492
11:09:41				48	10.14412	0.4890452	1.3784	0	0	3.75719
11:09:41				49	10.14412	0.4895264	1.3784	0	0	3.76113
11:09:42				50	10.14508	0.4893665	1.3784	0	0	3.75972
11:09:42				51	10.14508	0.4882429	1.3784	0	0	3.75051
11:09:43				52	10.14412	0.487762	1.3784	0	0	3.74667
11:09:43				53	10.14412	0.4888853	1.3784	0	0	3.75588
11:09:44				54	10.14412	0.4890452	1.3784	0	0	3.75719
11:09:44				55	10.14508	0.489205	1.3784	0	0	3.7584
11:09:45				56	10.14605	0.4884043	1.3784	0	0	3.75174
11:09:45				57	10.14605	0.4880831	1.3784	0	0	3.74911
11:09:46				58	10.14605	0.4882429	1.3784	0	0	3.75041
11:09:46				59	10.14316	0.489205	1.3784	0	0	3.7586
11:09:47				60	10.14316	0.4893665	1.4768	0	0	3.75991
11:09:47				61	10.14316	0.4885641	1.4768	0	0	3.75334
11:09:48				62	10.1422	0.4876023	1.2801	0	0	3.74557
11:09:48				63	10.14316	0.487762	1.2801	0	0	3.74678
11:09:49				64	10.1422	0.4880832	1.4768	0	0	3.7495
11:09:49				65	10.1422	0.489205	1.4768	0	0	3.75869
11:09:50				66	10.13931	0.4879234	1.3784	0	0	3.74849
11:09:50				67	10.1422	0.487762	1.2801	0	0	3.74688
11:09:51				68	10.14316	0.4880831	1.2801	0	0	3.74941
11:09:51				69	10.14123	0.4882429	1.3784	0	0	3.75091
11:09:52				70	10.14123	0.4882429	1.3784	0	0	3.75091
11:09:52				71	10.14316	0.487762	1.2801	0	0	3.74678
11:09:53				72	10.14412	0.487762	1.2801	0	0	3.74668
11:09:53				73	10.14316	0.4880831	1.3784	0	0	3.7494

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:09:54				74	10.1422	0.4879234	1.3784	0	0	3.74819
11:09:54				75	10.14316	0.4880831	1.3784	0	0	3.7494
11:09:55				76	10.14412	0.4882429	1.3784	0	0	3.75061
11:09:55				77	10.14508	0.4879234	1.3784	0	0	3.7479
11:09:56				78	10.14508	0.4880831	1.3784	0	0	3.7492
11:09:56				79	10.14508	0.4882429	1.3784	0	0	3.75051
11:09:57				80	10.14508	0.4880831	1.3784	0	0	3.7492
11:09:57				81	10.14605	0.4879234	1.3784	0	0	3.7478
11:09:58				82	10.14701	0.4882429	1.3784	0	0	3.75031
11:09:58				83	10.14508	0.4882429	1.3784	0	0	3.75051
11:09:59				84	10.14508	0.487762	1.3784	0	0	3.74657
11:09:59				85	10.14316	0.487762	1.3784	0	0	3.74677
11:10:00				86	10.14316	0.4880831	1.3784	0	0	3.7494
11:10:00				87	10.14316	0.4887239	1.4768	0	0	3.75465
11:10:01				88	10.14412	0.4879234	1.3784	0	0	3.74799
11:10:01				89	10.14316	0.4874426	1.3784	0	0	3.74415
11:10:02				90	10.14508	0.487762	1.3784	0	0	3.74657
11:10:02				91	10.14508	0.4879234	1.4768	0	0	3.74789
11:10:03				92	10.14412	0.4876023	1.3784	0	0	3.74536
11:10:03				93	10.1422	0.4876023	1.2801	0	0	3.74557
11:10:04				94	10.14412	0.487762	1.3784	0	0	3.74667
11:10:04				95	10.14412	0.4880831	1.3784	0	0	3.7493
11:10:05				96	10.14508	0.487762	1.2801	0.68376	0.34188	3.74658
11:10:05				97	10.13834	0.4879234	1.2801	0.39072	0.09768	3.74859
11:10:06				98	10.14412	0.4879234	1.2801	1.51404	1.02564	3.748
11:10:06				99	10.1422	0.4880831	1.2801	1.4652	7.52137	3.74951
11:10:07				100	10.14316	0.4880831	1.3784	1.51404	7.81441	3.7494
11:10:07				101	10.14316	0.4882429	1.2801	1.51404	7.86325	3.75072
11:10:08				102	10.14316	0.4880831	1.2801	1.51404	7.86325	3.74941
11:10:08				103	10.14316	0.487762	1.2801	1.51404	8.35165	3.74678
11:10:09				104	10.14508	0.487762	1.3784	1.4652	7.76557	3.74657
11:10:09				105	10.14412	0.4884043	1.4768	1.51404	7.91209	3.75193
11:10:10				106	10.14412	0.4882429	1.3784	1.51404	7.71673	3.75061
11:10:10				107	10.14316	0.4882429	1.3784	1.4652	7.86325	3.75071
11:10:11				108	10.14508	0.4882429	1.3784	1.51404	8.25397	3.75051
11:10:11				109	10.14508	0.4885641	1.3784	1.51404	8.15629	3.75314
11:10:12				110	10.14412	0.4887239	1.4768	1.51404	7.81441	3.75455
11:10:12				111	10.14316	0.4888853	1.3784	1.51404	7.86325	3.75598
11:10:13				112	10.14316	0.4888853	1.3784	1.51404	8.10745	3.75598
11:10:13				113	10.14508	0.4885641	1.4768	1.51404	8.15629	3.75314
11:10:14				114	10.14508	0.4884043	1.4768	1.51404	7.81441	3.75183
11:10:14				115	10.14508	0.4882429	1.3784	1.4652	7.96093	3.75051
11:10:15				116	10.14797	0.4882429	1.3784	1.4652	8.10745	3.75022
11:10:15				117	10.14797	0.4884043	1.4768	1.56288	7.86325	3.75153
11:10:16				118	10.14797	0.4885641	1.3784	1.51404	7.81441	3.75285

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:16				119	10.14701	0.4887239	1.3784	1.51404	7.86325	3.75426
11:10:17				120	10.14605	0.4890451	1.2801	1.51404	7.86325	3.75699
11:10:17				121	10.14701	0.4895264	1.3784	1.51404	7.76557	3.76083
11:10:18				122	10.14701	0.4901676	1.3784	1.51404	7.76557	3.76609
11:10:18				123	10.14508	0.4882429	1.3784	1.51404	7.86325	3.75051
11:10:19				124	10.14605	0.4888853	1.3784	1.51404	7.71673	3.75568
11:10:20				127	10.144	0.4888524	1.3784	1.4652	7.96093	3.75562
11:10:21				128	10.14593	0.4886926	1.3784	1.4652	8.00977	3.75411
11:10:21				129	10.14496	0.4886926	1.3784	1.4652	8.35165	3.75421
11:10:22				130	10.14496	0.4882116	1.3784	1.51404	8.10745	3.75027
11:10:22				131	10.14593	0.4880502	1.3784	1.51404	7.96093	3.74885
11:10:23				132	10.14593	0.4880502	1.4768	1.51404	8.05861	3.74884
11:10:23				133	10.14689	0.4882116	1.4768	1.51404	8.10745	3.75007
11:10:24				134	10.14593	0.4883714	1.3784	1.51404	7.86325	3.75148
11:10:24				135	10.14593	0.4883714	1.3784	1.51404	7.91209	3.75148
11:10:25				136	10.14496	0.4886926	1.3784	1.51404	8.05861	3.75421
11:10:25				137	10.14593	0.4898148	1.3784	1.56288	8.00977	3.76331
11:10:26				138	10.14496	0.4885311	1.3784	1.56288	8.10745	3.75289
11:10:26				139	10.144	0.4883714	1.3784	1.51404	7.76557	3.75168
11:10:27				140	10.144	0.4883714	1.4768	1.51404	7.91209	3.75167
11:10:27				141	10.14496	0.4883714	1.3784	1.51404	8.00977	3.75158
11:10:28				142	10.14593	0.4883714	1.3784	1.51404	7.81441	3.75148
11:10:28				143	10.14496	0.4885311	1.3784	1.51404	7.81441	3.75289
11:10:29				144	10.14689	0.4886926	1.3784	1.51404	8.05861	3.75401
11:10:29				145	10.14689	0.4885311	1.3784	1.51404	7.86325	3.75269
11:10:30				146	10.14882	0.4886926	1.3784	1.51404	7.91209	3.75381
11:10:30				147	10.14882	0.4894934	1.3784	1.51404	7.91209	3.76038
11:10:31				148	10.14785	0.4890122	1.3784	1.4652	8.10745	3.75653
11:10:31				149	10.14785	0.4888524	1.3784	1.51404	8.10745	3.75522
11:10:32				150	10.14882	0.4883714	1.3784	1.4652	7.86325	3.75118
11:10:32				151	10.14689	0.4882116	1.3784	1.51404	10.15873	3.75007
11:10:33				152	10.14593	0.4880502	1.3784	1.51404	8.54701	3.74885
11:10:33				153	10.14593	0.4882116	1.3784	1.51404	8.10745	3.75017
11:10:34				154	10.14496	0.4883714	1.3784	1.51404	8.00977	3.75158
11:10:34				155	10.14496	0.4893335	1.3784	1.51404	7.96093	3.75946
11:10:35				156	10.144	0.4907761	1.4768	1.51404	8.05861	3.77138
11:10:35				157	10.144	0.4899747	1.5752	1.51404	7.86325	3.76481
11:10:36				158	10.14304	0.4894934	1.6736	1.51404	7.86325	3.76095
11:10:36				159	10.144	0.4888524	1.772	1.51404	8.30281	3.7556
11:10:37				160	10.14496	0.4890122	1.9687	1.51404	7.86325	3.7568
11:10:37				161	10.14593	0.489655	2.1655	1.51404	7.61905	3.76195
11:10:38				162	10.14785	0.5000743	2.1655	1.51404	7.61905	3.84721
11:10:38				163	10.15074	0.4997544	2.2639	1.51404	7.86325	3.84428
11:10:39				164	10.16037	0.4936615	2.559	1.51404	7.91209	3.79327
11:10:39				165	10.15556	0.4912578	2.6574	1.51404	7.71673	3.77406

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:10:40				166	10.15267	0.4959063	2.8542	1.51404	7.66789	3.81246
11:10:40				167	10.15459	0.4968676	2.8542	1.56288	8.00977	3.82015
11:10:41				168	10.15363	0.4935013	2.8542	1.51404	8.20513	3.79264
11:10:41				169	10.15363	0.4936615	2.9526	1.51404	7.66789	3.79395
11:10:42				170	10.15363	0.4978293	2.7558	1.51404	7.47253	3.82815
11:10:42				171	10.15845	0.4984719	2.8542	1.51404	7.76557	3.83291
11:10:43				172	10.1623	0.4979899	2.8542	1.51404	7.71673	3.82855
11:10:43				173	10.16326	0.4947835	2.8542	1.51404	7.76557	3.80215
11:10:44				174	10.1623	0.4951043	2.9526	1.51404	7.57021	3.80488
11:10:44				175	10.15748	0.4962272	2.9526	1.51404	7.37485	3.81459
11:10:45				176	10.15748	0.4963877	2.9526	1.51404	7.47253	3.8159
11:10:45				177	10.15652	0.5008753	2.9526	1.4652	7.52137	3.85283
11:10:46				178	10.15845	0.5015173	2.9526	1.4652	7.47253	3.85789
11:10:46				179	10.16037	0.4965482	2.9526	1.4652	7.71673	3.81692
11:10:47				180	10.15845	0.4976704	2.8542	1.51404	7.71673	3.82633
11:10:47	11:09:23 start transect	2.5	90	181	10.15748	0.4987916	2.8542	1.51404	7.71673	3.83563
11:10:48				182	10.15652	0.4984719	2.8542	1.51404	8.30281	3.83311
11:10:48				183	10.15748	0.4989523	2.9526	1.51404	7.57021	3.83694
11:10:49				184	10.15748	0.4975098	2.9526	1.51404	7.42369	3.82511
11:10:49				185	10.15459	0.4962272	2.7558	1.51404	7.52137	3.8149
11:10:50				186	10.15267	0.4960667	2.6574	1.56288	7.91209	3.81379
11:10:50				187	10.15459	0.4955854	2.8542	1.51404	8.30281	3.80963
11:10:51				188	10.15556	0.4955854	2.9526	1.51404	8.05861	3.80953
11:10:51				189	10.15363	0.4946232	2.7558	1.51404	7.66789	3.80185
11:10:52				190	10.15171	0.4978293	2.559	1.51404	8.40049	3.82836
11:10:52				191	10.15363	0.5061674	2.6574	1.51404	7.86325	3.89661
11:10:53				192	10.15941	0.5044033	2.7558	1.4652	7.81441	3.8815
11:10:53				193	10.15845	0.4981506	2.7558	1.51404	8.00977	3.83028
11:10:54				194	10.15074	0.4951043	2.7558	1.51404	8.05861	3.80609
11:10:54				195	10.14304	0.49238	2.7558	1.51404	7.81441	3.78456
11:10:55				196	10.13919	0.4933411	2.8542	1.4652	7.96093	3.79283
11:10:55				197	10.14015	0.4935013	2.8542	1.51404	7.71673	3.79404
11:10:56				198	10.14015	0.4930207	2.8542	1.51404	7.66789	3.7901
11:10:56				199	10.14015	0.4930207	2.7558	1.51404	7.91209	3.79011
11:10:57				200	10.14015	0.49238	2.7558	1.51404	8.49817	3.78486
11:10:57				201	10.14208	0.4927003	2.6574	1.51404	7.91209	3.78729
11:10:58				202	10.14015	0.4922199	2.7558	1.51404	7.91209	3.78354
11:10:58				203	10.13919	0.4920582	2.7558	1.4652	8.10745	3.78232
11:10:59				204	10.14015	0.49238	2.7558	1.51404	7.86325	3.78486
11:10:59				205	10.13919	0.49238	2.7558	1.51404	7.86325	3.78496
11:11:00				206	10.13919	0.4927003	2.7558	1.51404	7.81441	3.78758
11:11:00				207	10.1363	0.4925402	2.6574	1.51404	8.10745	3.78657
11:11:01				208	10.13437	0.4927003	2.7558	1.51404	7.91209	3.78808
11:11:01				209	10.13437	0.4925402	2.7558	1.51404	7.76557	3.78677
11:11:02				210	10.13533	0.4922199	2.6574	1.51404	7.57021	3.78405

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:02				211	10.1363	0.4922199	2.6574	1.4652	7.81441	3.78395
11:11:03				212	10.13341	0.4935013	2.6574	1.51404	7.91209	3.79476
11:11:03				213	10.13148	0.4925402	2.7558	1.51404	7.71673	3.78707
11:11:04				214	10.13244	0.4928605	2.7558	1.51404	7.96093	3.7896
11:11:04				215	10.13244	0.4920582	2.6574	1.56288	8.15629	3.78302
11:11:05				216	10.13052	0.489655	2.7558	1.51404	8.20513	3.76351
11:11:05				217	10.13052	0.4893336	2.7558	1.51404	7.61905	3.76087
11:11:06				218	10.13052	0.4891738	2.7558	1.51404	7.61905	3.75956
11:11:06				219	10.13052	0.4906162	2.7558	1.4652	7.71673	3.77139
11:11:07				220	10.13244	0.4894935	2.7558	1.51404	7.81441	3.76199
11:11:07	11:09:43 @ 6:00	2.5	180	221	10.13052	0.4866083	2.6574	1.51404	7.52137	3.73854
11:11:08				222	10.13052	0.4874098	2.7558	1.51404	7.52137	3.7451
11:11:08				223	10.13052	0.4888525	2.7558	1.51404	7.37485	3.75693
11:11:09				224	10.13148	0.4888525	2.7558	1.51404	7.61905	3.75683
11:11:09				225	10.13148	0.4878906	2.6574	1.56288	7.66789	3.74895
11:11:10				226	10.13052	0.4872501	2.7558	1.4652	7.61905	3.7438
11:11:10				227	10.13148	0.4880503	2.8542	1.51404	8.05861	3.75025
11:11:11				228	10.13148	0.4885312	2.7558	1.51404	7.86325	3.7542
11:11:11				229	10.13148	0.4890123	2.6574	1.51404	8.10745	3.75815
11:11:12				230	10.13052	0.4882117	2.6574	1.51404	7.66789	3.75168
11:11:12				231	10.13052	0.4912579	2.7558	1.51404	8.10745	3.77665
11:11:13				232	10.13148	0.4885312	2.8542	1.51404	7.91209	3.75419
11:11:13				233	10.13052	0.4893336	2.8542	1.4652	7.66789	3.76087
11:11:14				234	10.12955	0.4890123	2.7558	1.51404	7.71673	3.75834
11:11:14				235	10.12859	0.4909362	2.6574	1.4652	7.76557	3.77422
11:11:15				236	10.13052	0.4938218	2.8542	1.56288	7.91209	3.79768
11:11:15				237	10.13052	0.4898149	2.8542	1.51404	7.81441	3.76481
11:11:16				238	10.13052	0.4899748	2.8542	1.51404	7.37485	3.76612
11:11:16				239	10.13052	0.489655	2.7558	1.4652	8.00977	3.76351
11:11:17				240	10.13052	0.4894935	2.6574	1.51404	7.71673	3.76219
11:11:17				241	10.12955	0.4909362	2.7558	1.4652	7.91209	3.77411
11:11:18				242	10.13052	0.4904563	2.8542	1.56288	8.00977	3.77007
11:11:18				243	10.13052	0.4902947	2.8542	1.4652	7.76557	3.76875
11:11:19				244	10.13244	0.4906162	2.6574	1.56288	7.96093	3.7712
11:11:20				247	10.1307	0.4913997	2.7558	1.51404	7.66789	3.7778
11:11:21				248	10.1307	0.4912397	2.7558	1.56288	8.20513	3.77648
11:11:21				249	10.1307	0.4915598	2.7558	1.51404	8.05861	3.77911
11:11:22				250	10.12974	0.4938053	2.559	1.51404	7.91209	3.79764
11:11:22				251	10.13166	0.49653	2.559	1.51404	7.91209	3.8198
11:11:23				252	10.13262	0.4942861	2.7558	1.4652	7.86325	3.80127
11:11:23				253	10.13359	0.493645	2.6574	1.51404	7.91209	3.79592
11:11:24				254	10.13359	0.4944464	2.559	1.51404	8.00977	3.8025
11:11:24				255	10.13455	0.4942861	2.6574	1.51404	8.25397	3.80108
11:11:25				256	10.13551	0.4931627	2.6574	1.4652	7.96093	3.79176
11:11:25				257	10.13551	0.4912397	2.6574	1.51404	7.91209	3.77599

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:26				258	10.13359	0.4918816	2.6574	1.51404	8.00977	3.78145
11:11:26				259	10.13262	0.4917215	2.7558	1.51404	7.96093	3.78024
11:11:27				260	10.13359	0.4905981	2.6574	1.51404	7.91209	3.77093
11:11:27				261	10.13455	0.4896369	2.4606	1.51404	7.86325	3.76296
11:11:28				262	10.13551	0.4886745	2.559	1.51404	7.86325	3.75497
11:11:28				263	10.13648	0.4897968	2.8542	1.51404	8.20513	3.76405
11:11:29				264	10.13846	0.4896369	2.8542	1.51404	7.71673	3.76253
11:11:29	11:10:05 end transect	2.5	270	265	10.14135	0.4886745	2.6574	1.51404	7.76557	3.75436
11:11:30	reposition to 90			266	10.14039	0.4902781	2.7558	1.4652	7.66789	3.7676
11:11:30				267	10.1375	0.4889958	2.8542	1.51404	8.35165	3.75738
11:11:31				268	10.13551	0.4870724	2.6574	1.51404	7.71673	3.74183
11:11:31				269	10.13359	0.4853088	2.2639	1.56288	7.76557	3.7276
11:11:32				270	10.13262	0.4880338	2.559	1.51404	8.15629	3.75001
11:11:32				271	10.13359	0.4870724	2.7558	1.51404	8.10745	3.74202
11:11:33				272	10.13359	0.4864306	2.6574	1.51404	7.86325	3.73677
11:11:33				273	10.13359	0.486271	2.3623	1.51404	7.86325	3.73548
11:11:34				274	10.13359	0.485789	2.4606	1.56288	8.00977	3.73152
11:11:34				275	10.13166	0.4893155	3.0509	1.51404	8.30281	3.76059
11:11:35				276	10.1307	0.4867515	2.9526	1.4652	8.15629	3.73968
11:11:35				277	10.13359	0.4864306	2.559	1.51404	7.71673	3.73678
11:11:36				278	10.13359	0.485789	2.3623	1.51404	7.57021	3.73153
11:11:36				279	10.13455	0.486271	2.7558	1.51404	8.20513	3.73536
11:11:37				280	10.13262	0.486271	3.0509	1.51404	8.05861	3.73554
11:11:37				281	10.13359	0.4859502	2.8542	1.4652	7.71673	3.73282
11:11:38				282	10.13166	0.4854683	2.4606	1.51404	7.76557	3.72909
11:11:38				283	10.12974	0.4867514	2.559	1.51404	7.96093	3.7398
11:11:39				284	10.13551	0.4864306	2.8542	1.56288	8.05861	3.73656
11:11:39				285	10.13551	0.486271	2.8542	1.4652	7.66789	3.73525
11:11:40				286	10.1307	0.485789	2.6574	1.51404	7.71673	3.73181
11:11:40				287	10.1307	0.4859502	2.6574	1.51404	8.10745	3.73313
11:11:41				288	10.12974	0.4859502	2.8542	1.51404	8.15629	3.73322
11:11:41				289	10.13166	0.4859502	2.7558	1.56288	7.66789	3.73303
11:11:42				290	10.13262	0.485789	2.6574	1.51404	7.61905	3.73161
11:11:42				291	10.13166	0.4870724	2.7558	1.51404	7.47253	3.74222
11:11:43				292	10.13262	0.4864306	2.8542	1.51404	7.81441	3.73686
11:11:43				293	10.13262	0.4865902	2.8542	1.51404	7.61905	3.73817
11:11:44				294	10.12974	0.4864306	2.6574	1.51404	7.61905	3.73717
11:11:44				295	10.13166	0.4869111	2.7558	1.51404	7.71673	3.7409
11:11:45				296	10.13455	0.4865902	2.8542	1.51404	7.96093	3.73797
11:11:45				297	10.13359	0.4864306	2.8542	1.51404	7.71673	3.73676
11:11:46				298	10.13262	0.4864306	2.6574	1.4652	7.76557	3.73687
11:11:46				299	10.13262	0.4865902	2.6574	1.51404	7.57021	3.73818
11:11:47				300	10.13262	0.4870724	2.7558	1.51404	8.00977	3.74212
11:11:47				301	10.13359	0.4869111	2.8542	1.51404	7.61905	3.7407
11:11:48				302	10.13262	0.4870724	2.7558	1.51404	7.66789	3.74212

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:11:48				303	10.13166	0.4873917	2.7558	1.51404	7.91209	3.74484
11:11:49				304	10.13262	0.4873917	2.7558	1.56288	7.66789	3.74474
11:11:49				305	10.1307	0.4886745	2.6574	1.51404	7.61905	3.75546
11:11:50				306	10.13166	0.4891556	2.6574	1.51404	7.86325	3.7593
11:11:50				307	10.1307	0.4886745	2.8542	1.51404	8.00977	3.75545
11:11:51				308	10.1307	0.4893155	2.9526	1.51404	7.76557	3.76069
11:11:51				309	10.13166	0.4901182	2.6574	1.51404	7.71673	3.76719
11:11:52				310	10.1307	0.4915598	2.6574	1.51404	7.61905	3.77911
11:11:52				311	10.13166	0.4909197	2.559	1.51404	7.76557	3.77377
11:11:53				312	10.13359	0.4946067	2.7558	1.51404	8.15629	3.8038
11:11:53				313	10.13166	0.492522	2.9526	1.51404	7.96093	3.78689
11:11:54				314	10.13455	0.4912397	2.7558	1.51404	7.71673	3.77608
11:11:54				315	10.13551	0.4870723	2.4606	1.4652	7.61905	3.74184
11:11:55				316	10.13551	0.4905981	2.559	1.51404	7.57021	3.77074
11:11:55				317	10.13551	0.4905981	2.8542	1.51404	7.96093	3.77072
11:11:56				318	10.13455	0.4891556	2.8542	1.56288	7.66789	3.75899
11:11:56				319	10.13551	0.4867514	2.4606	1.4652	7.61905	3.73921
11:11:57				320	10.13551	0.4867514	2.4606	1.51404	7.47253	3.73921
11:11:57				321	10.13648	0.4869111	2.8542	1.51404	7.91209	3.7404
11:11:58				322	10.13455	0.4865902	2.8542	1.56288	7.57021	3.73797
11:11:58				323	10.13359	0.4861098	2.559	1.51404	7.66789	3.73415
11:11:59				324	10.13262	0.485789	2.559	1.51404	7.76557	3.73162
11:11:59				325	10.12877	0.485789	2.7558	1.51404	7.76557	3.732
11:12:00				326	10.12685	0.4856295	2.7558	1.51404	7.61905	3.73089
11:12:00				327	10.12492	0.4867514	2.6574	1.51404	7.66789	3.74029
11:12:01				328	10.12974	0.4864306	2.7558	1.51404	7.76557	3.73716
11:12:01				329	10.13166	0.4865902	2.7558	1.51404	7.61905	3.73827
11:12:02				330	10.13166	0.4885147	2.6574	1.51404	7.66789	3.75405
11:12:02				331	10.13359	0.487232	2.7558	1.51404	7.71673	3.74333
11:12:03				332	10.13648	0.4873917	2.8542	1.51404	7.32601	3.74434
11:12:03				333	10.13648	0.490758	2.7558	1.51404	7.52137	3.77194
11:12:04				334	10.1375	0.4880338	2.7558	1.4652	8.15629	3.7495
11:12:04				335	10.1375	0.4878741	2.7558	1.4652	7.47253	3.74819
11:12:05				336	10.1375	0.490758	2.7558	1.51404	7.57021	3.77183
11:12:05				337	10.13648	0.4939655	2.7558	1.51404	7.76557	3.79824
11:12:06				338	10.14135	0.4926822	2.8542	1.4652	7.96093	3.7872
11:12:06				339	10.14135	0.4944464	2.7558	1.51404	7.61905	3.80168
11:12:07				340	10.14232	0.4938052	2.559	1.51404	7.66789	3.79633
11:12:07				341	10.14232	0.4979734	2.6574	1.51404	7.61905	3.83052
11:12:08				342	10.14424	0.4970116	2.9526	1.51404	7.76557	3.82241
11:12:08				343	10.14424	0.496851	2.8542	1.51404	7.66789	3.8211
11:12:09				344	10.14328	0.4957277	2.559	1.51404	7.66789	3.812
11:12:09				345	10.14328	0.4990948	2.559	1.4652	7.76557	3.83963
11:12:10				346	10.14232	0.4990948	2.7558	1.51404	7.71673	3.83972
11:12:10				347	10.14135	0.4981324	2.7558	1.51404	7.61905	3.83192

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:11				348	10.14232	0.4986144	2.8542	1.56288	7.71673	3.83577
11:12:11				349	10.13943	0.4984537	2.7558	1.51404	7.61905	3.83476
11:12:12				350	10.14039	0.4987751	2.6574	1.51404	7.66789	3.8373
11:12:12				351	10.14328	0.4966905	2.559	1.51404	7.76557	3.8199
11:12:13				352	10.14232	0.4978128	2.6574	1.51404	7.66789	3.8292
11:12:13				353	10.14424	0.4970116	2.9526	1.51404	7.66789	3.82241
11:12:14				354	10.14617	0.496851	2.8542	1.56288	7.66789	3.8209
11:12:14				355	10.14617	0.4970115	2.559	1.51404	7.66789	3.82223
11:12:15				356	10.14424	0.4992556	2.559	1.51404	7.61905	3.84085
11:12:15				357	10.14328	0.498293	2.8542	1.51404	8.00977	3.83303
11:12:16				358	10.14424	0.4981324	2.8542	1.51404	7.76557	3.83161
11:12:16				359	10.14328	0.4981324	2.6574	1.51404	7.71673	3.83173
11:12:17				360	10.14424	0.4981324	2.6574	1.51404	7.66789	3.83162
11:12:17				361	10.14328	0.498293	2.8542	1.56288	7.66789	3.83303
11:12:18				362	10.14424	0.496851	2.7558	1.51404	7.57021	3.8211
11:12:18				363	10.14328	0.4909197	2.6574	1.4652	7.81441	3.77256
11:12:19				364	10.14424	0.4904381	2.6574	1.51404	8.05861	3.76852
11:12:20				367	10.14436	0.4901199	2.7558	1.51404	7.66789	3.76589
11:12:21				368	10.14436	0.4899583	2.6574	1.51404	7.57021	3.76457
11:12:21				369	10.14533	0.4901199	2.7558	1.51404	8.00977	3.76579
11:12:22				370	10.14629	0.4902798	2.8542	1.51404	8.05861	3.767
11:12:22				371	10.14821	0.4904397	2.7558	1.51404	7.71673	3.76811
11:12:23				372	10.14821	0.4899583	2.559	1.51404	8.00977	3.76418
11:12:23				373	10.14821	0.4897984	2.6574	1.51404	7.71673	3.76286
11:12:24				374	10.14918	0.4899583	2.8542	1.51404	7.86325	3.76406
11:12:24				375	10.1502	0.4897984	2.8542	1.56288	7.81441	3.76265
11:12:25				376	10.15116	0.4897984	2.7558	1.51404	7.61905	3.76255
11:12:25				377	10.15116	0.4899583	2.6574	1.51404	8.20513	3.76387
11:12:26				378	10.14918	0.4901199	2.7558	1.51404	7.86325	3.76539
11:12:26				379	10.14918	0.4901199	2.7558	1.51404	8.05861	3.76539
11:12:27				380	10.14918	0.4899583	2.8542	1.4652	8.10745	3.76406
11:12:27				381	10.15116	0.4899583	2.8542	1.4652	7.86325	3.76386
11:12:28				382	10.1502	0.4899583	2.6574	1.51404	7.81441	3.76397
11:12:28				383	10.1502	0.4899583	2.559	1.51404	7.61905	3.76397
11:12:29				384	10.14918	0.4897984	2.8542	1.51404	7.81441	3.76275
11:12:29				385	10.15116	0.4901199	3.0509	1.51404	7.96093	3.76517
11:12:30				386	10.14918	0.4899583	2.8542	1.51404	7.66789	3.76406
11:12:30				387	10.1502	0.4899583	2.559	1.4652	7.76557	3.76397
11:12:31				388	10.14918	0.4901198	2.559	1.51404	7.71673	3.7654
11:12:31				389	10.1502	0.4901199	2.8542	1.51404	7.96093	3.76528
11:12:32				390	10.1502	0.4899583	2.8542	1.4652	7.71673	3.76396
11:12:32				391	10.14918	0.4899583	2.6574	1.4652	7.61905	3.76407
11:12:33				392	10.1502	0.4901198	2.6574	1.51404	7.76557	3.76529
11:12:33				393	10.14918	0.4901198	2.6574	1.51404	7.71673	3.7654
11:12:34				394	10.1502	0.4899583	2.6574	1.51404	7.61905	3.76397

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:34				395	10.1502	0.4899583	2.6574	1.56288	7.81441	3.76397
11:12:35				396	10.15116	0.4897984	2.7558	1.51404	7.76557	3.76255
11:12:35				397	10.15598	0.4899583	2.7558	1.51404	8.00977	3.76337
11:12:36				398	10.15309	0.4897984	2.7558	1.51404	7.71673	3.76235
11:12:36				399	10.15598	0.4896385	2.7558	1.51404	7.57021	3.76075
11:12:37				400	10.15983	0.4896385	2.8542	1.4652	7.91209	3.76034
11:12:37				401	10.15983	0.4897984	2.7558	1.51404	7.57021	3.76166
11:12:38				402	10.16079	0.4896385	2.6574	1.51404	7.86325	3.76026
11:12:38				403	10.15983	0.4899583	2.6574	1.51404	7.61905	3.76297
11:12:39				404	10.1579	0.4897984	2.7558	1.51404	7.86325	3.76186
11:12:39				405	10.1579	0.4897984	2.7558	1.51404	7.76557	3.76186
11:12:40				406	10.15694	0.4897984	2.7558	1.51404	7.76557	3.76196
11:12:40				407	10.15694	0.4897984	2.7558	1.51404	7.71673	3.76196
11:12:41				408	10.15694	0.4897984	2.6574	1.56288	7.76557	3.76196
11:12:41				409	10.15694	0.4897984	2.6574	1.51404	8.05861	3.76196
11:12:42				410	10.15694	0.4899583	2.7558	1.51404	7.71673	3.76327
11:12:42				411	10.15598	0.4897984	2.7558	1.51404	8.00977	3.76206
11:12:43				412	10.15598	0.4899583	2.7558	1.51404	7.96093	3.76337
11:12:43				413	10.15502	0.4899583	2.7558	1.51404	7.96093	3.76347
11:12:44				414	10.15502	0.4897984	2.7558	1.51404	7.91209	3.76216
11:12:44				415	10.15405	0.4899583	2.6574	1.51404	7.47253	3.76357
11:12:45				416	10.15405	0.4899583	2.6574	1.4652	7.91209	3.76357
11:12:45				417	10.15405	0.4897984	2.6574	1.51404	7.81441	3.76226
11:12:46				418	10.15213	0.4899583	2.7558	1.51404	7.81441	3.76376
11:12:46				419	10.15405	0.4899583	2.7558	1.51404	7.66789	3.76356
11:12:47				420	10.15405	0.4907597	2.7558	1.51404	7.86325	3.77013
11:12:47				421	10.15309	0.4960502	2.7558	1.51404	7.91209	3.81361
11:12:48				422	10.14918	0.4933245	2.7558	1.51404	7.86325	3.79166
11:12:48				423	10.15116	0.4938069	2.7558	1.51404	7.76557	3.79541
11:12:49				424	10.14821	0.4925236	2.6574	1.56288	7.76557	3.7852
11:12:49				425	10.14918	0.4918832	2.6574	1.51404	8.30281	3.77985
11:12:50				426	10.14725	0.4923635	2.7558	1.51404	8.10745	3.78398
11:12:50				427	10.14629	0.4918832	2.7558	1.56288	7.86325	3.78014
11:12:51				428	10.14629	0.4918832	2.6574	1.51404	7.71673	3.78015
11:12:51				429	10.14821	0.4893171	2.559	1.51404	7.91209	3.75892
11:12:52				430	10.14533	0.4902798	2.6574	1.51404	8.00977	3.76711
11:12:52				431	10.1434	0.4914014	2.6574	1.56288	7.66789	3.7765
11:12:53				432	10.1434	0.4880355	2.7558	1.4652	7.61905	3.74891
11:12:53				433	10.1434	0.4923635	2.6574	1.51404	7.91209	3.78439
11:12:54				434	10.14244	0.4952498	2.6574	1.51404	7.76557	3.80816
11:12:54				435	10.14244	0.4939672	2.7558	1.51404	7.37485	3.79763
11:12:55				436	10.14147	0.4905997	2.7558	1.51404	7.32601	3.77012
11:12:55				437	10.14244	0.4894786	2.7558	1.51404	7.37485	3.76083
11:12:56				438	10.1434	0.4896385	2.6574	1.4652	7.61905	3.76205
11:12:56				439	10.14436	0.4907597	2.6574	1.51404	7.47253	3.77114

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:12:57				440	10.14436	0.4909213	2.7558	1.51404	7.47253	3.77246
11:12:57				441	10.14725	0.4909213	2.7558	1.51404	7.61905	3.77216
11:12:58				442	10.1502	0.4909213	2.7558	1.56288	7.52137	3.77185
11:12:58				443	10.1502	0.4912413	2.7558	1.51404	7.61905	3.77448
11:12:59				444	10.1502	0.4912413	2.7558	1.51404	7.61905	3.77448
11:12:59				445	10.14918	0.4907597	2.7558	1.51404	7.76557	3.77064
11:13:00				446	10.1502	0.4909213	2.8542	1.51404	7.71673	3.77185
11:13:00				447	10.15116	0.4909213	2.8542	1.51404	7.76557	3.77175
11:13:01				448	10.15116	0.4910813	2.7558	1.51404	7.71673	3.77307
11:13:01				449	10.1502	0.4912413	2.7558	1.56288	8.00977	3.77448
11:13:02				450	10.14918	0.4910813	2.8542	1.51404	8.00977	3.77327
11:13:02				451	10.15116	0.4909213	2.7558	1.51404	7.47253	3.77176
11:13:03				452	10.1502	0.4910813	2.8542	1.56288	7.66789	3.77316
11:13:03				453	10.1502	0.4909213	2.8542	1.51404	7.76557	3.77185
11:13:04				454	10.15116	0.4909213	2.7558	1.56288	7.57021	3.77176
11:13:04				455	10.15116	0.4912413	2.7558	1.56288	7.96093	3.77438
11:13:05				456	10.15213	0.4912413	2.8542	1.51404	7.96093	3.77427
11:13:05				457	10.15213	0.4910813	2.8542	1.51404	7.57021	3.77296
11:13:06				458	10.15116	0.4912413	2.7558	1.56288	7.42369	3.77438
11:13:06				459	10.15213	0.4912413	2.7558	1.51404	7.52137	3.77428
11:13:07				460	10.15213	0.4907597	2.8542	1.51404	7.71673	3.77033
11:13:07				461	10.15213	0.4905997	3.0509	1.51404	7.61905	3.769
11:13:08				462	10.15405	0.4905997	3.2477	1.51404	7.47253	3.76879
11:13:08				463	10.15598	0.4915614	3.2477	1.51404	7.66789	3.77647
11:13:09				464	10.15502	0.5104793	3.4445	1.51404	7.66789	3.93185
11:13:09				465	10.15502	0.6317267	3.9364	1.56288	7.96093	4.93769
11:13:10				466	10.17234	0.6556332	4.0348	1.56288	7.57021	5.13559
11:13:10				467	10.2109	0.6888502	4.2315	1.56288	6.93529	5.40914
11:13:11				468	10.28692	0.6992818	4.3299	1.51404	6.44689	5.48554
11:13:11				469	10.31382	0.7074673	4.6251	1.51404	5.17705	5.5503
11:13:12				470	10.29173	0.7068258	4.8218	1.56288	4.93284	5.54824
11:13:12				471	10.2725	0.7026534	4.8218	1.51404	4.884	5.51604
11:13:13				472	10.27635	0.7063442	4.8218	1.51404	4.98168	5.54653
11:13:13				473	10.26475	0.7127638	4.9202	1.56288	5.32357	5.60237
11:13:14				474	10.23879	0.7158126	5.2153	1.51404	5.22589	5.63206
11:13:14				475	10.23495	0.7105164	5.3137	1.51404	5.07937	5.58796
11:13:15				476	10.23399	0.7082694	5.2153	1.56288	5.17705	5.56917
11:13:15				477	10.23591	0.7119623	5.2153	1.56288	5.12821	5.60002
11:13:16				478	10.23495	0.7114796	5.3137	1.56288	5.07937	5.59608
11:13:16				479	10.23206	0.7101961	5.4121	1.51404	5.07937	5.58569
11:13:17				480	10.23206	0.7106766	5.4121	1.51404	4.884	5.58975
11:13:17				481	10.23399	0.7129242	5.3137	1.51404	4.98168	5.60842
11:13:18				482	10.2436	0.7140489	5.4121	1.56288	4.93284	5.61642
11:13:18				483	10.25514	0.713245	5.6089	1.51404	5.17705	5.60784
11:13:19				484	10.25322	0.7126035	5.5105	1.51404	4.93284	5.60274

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:20				487	10.25045	0.7137077	5.5105	1.51404	4.93284	5.61248
11:13:21				488	10.25238	0.7137077	5.5105	1.51404	4.78632	5.61218
11:13:21				489	10.25141	0.7116214	5.5105	1.51404	4.6398	5.59474
11:13:22				490	10.25334	0.7108202	5.5105	1.51404	4.83516	5.58769
11:13:22				491	10.25334	0.71066	5.5105	1.51404	5.12821	5.58634
11:13:23				492	10.25238	0.7140304	5.4121	1.4652	4.93284	5.61491
11:13:23				493	10.25045	0.7182021	5.5105	1.51404	4.78632	5.65039
11:13:24				494	10.24853	0.7180414	5.5105	1.51404	4.68864	5.64933
11:13:24	11:12:00 start transect	2.5	90	495	10.24949	0.7154749	5.4121	1.4652	4.884	5.62754
11:13:25				496	10.24853	0.7076091	5.5105	1.4652	4.884	5.56136
11:13:25				497	10.25334	0.7031158	5.4121	1.51404	5.07937	5.52278
11:13:26				498	10.25526	0.7275112	5.4121	1.4652	4.884	5.72823
11:13:26				499	10.23693	0.7556024	5.6089	1.4652	5.17705	5.96887
11:13:27				500	10.21481	0.7552813	5.5105	1.51404	4.98168	5.96978
11:13:27				501	10.22731	0.7262278	5.5105	1.4652	5.22589	5.72177
11:13:28				502	10.23597	0.7236593	5.3137	1.51404	4.884	5.69873
11:13:28				503	10.23405	0.7771155	5.3137	1.51404	5.03053	6.15201
11:13:29				504	10.20519	0.7841799	5.6089	1.4652	5.47009	6.21698
11:13:29				505	10.17818	0.7617036	5.7073	1.51404	5.17705	6.03033
11:13:30				506	10.19075	0.7414764	5.4121	1.51404	4.884	5.85664
11:13:30				507	10.21	0.7247838	5.2153	1.51404	5.07937	5.71231
11:13:31				508	10.21866	0.7753495	5.4121	1.56288	5.27473	6.13958
11:13:31				509	10.19653	0.7531958	5.6089	1.56288	5.12821	5.95507
11:13:32				510	10.19268	0.7440446	5.5105	1.51404	4.98168	5.87809
11:13:32				511	10.21	0.7302402	5.3137	1.51404	5.22589	5.75844
11:13:33				512	10.21577	0.713387	5.2153	1.56288	5.03053	5.61514
11:13:33				513	10.22827	0.7565662	5.3137	1.51404	5.12821	5.97849
11:13:34				514	10.22827	0.7167578	5.4121	1.56288	4.93284	5.64164
11:13:34				515	10.23405	0.7137078	5.3137	1.51404	4.93284	5.61502
11:13:35				516	10.24468	0.7157941	5.2153	1.51404	5.03053	5.63099
11:13:35				517	10.24468	0.7339322	5.117	1.51404	5.17705	5.78419
11:13:36				518	10.24468	0.7342541	5.3137	1.51404	4.93284	5.7869
11:13:36				519	10.23308	0.7273517	5.4121	1.51404	4.98168	5.73037
11:13:37				520	10.24078	0.7291166	5.3137	1.56288	5.07937	5.74408
11:13:37				521	10.24276	0.7265485	5.3137	1.51404	5.12821	5.72207
11:13:38				522	10.23693	0.7265486	5.3137	1.4652	4.98168	5.72299
11:13:38				523	10.23789	0.7260665	5.4121	1.51404	5.07937	5.71876
11:13:39				524	10.24078	0.7265486	5.4121	1.51404	4.78632	5.72238
11:13:39				525	10.24078	0.7267099	5.5105	1.51404	4.884	5.72373
11:13:40				526	10.24661	0.725907	5.4121	1.51404	5.12821	5.71604
11:13:40				527	10.26295	0.7302401	5.4121	1.51404	5.07937	5.75007
11:13:41				528	10.26391	0.7413157	5.4121	1.51404	5.03053	5.84354
11:13:41				529	10.26487	0.7323271	5.5105	1.56288	5.03053	5.76739
11:13:42				530	10.26487	0.7291166	5.5105	1.51404	4.98168	5.74027
11:13:42				531	10.26487	0.7267099	5.5105	1.51404	4.884	5.71995

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:13:43				532	10.26584	0.7278322	5.4121	1.56288	4.78632	5.72928
11:13:43				533	10.26584	0.7260664	5.4121	1.56288	4.59096	5.71438
11:13:44				534	10.26584	0.7273516	5.5105	1.56288	4.884	5.72522
11:13:44	11:12:20 @ 6:00	2.5	180	535	10.26487	0.7267099	5.5105	1.51404	4.83516	5.71995
11:13:45		2.5	181.5	536	10.26584	0.726389	5.5105	1.51404	4.83516	5.71709
11:13:45		2.5	183	537	10.27449	0.7279936	5.4121	1.51404	4.83516	5.72929
11:13:46		2.5	184.5	538	10.27256	0.7320054	5.4121	1.4652	5.03053	5.76347
11:13:46		2.5	186	539	10.26872	0.7276726	5.5105	1.51404	5.07937	5.72747
11:13:47		2.5	187.5	540	10.26968	0.7276726	5.5105	1.51404	4.93284	5.72732
11:13:47		2.5	189	541	10.27833	0.7281532	5.4121	1.51404	4.98168	5.73003
11:13:48		2.5	190.5	542	10.28025	0.7430822	5.5105	1.51404	4.83516	5.85585
11:13:48		2.5	192	543	10.28025	0.7294378	5.6089	1.51404	4.98168	5.74056
11:13:49		2.5	193.5	544	10.27929	0.7304017	5.4121	1.51404	4.93284	5.74886
11:13:49		2.5	195	545	10.28314	0.7276726	5.3137	1.51404	5.07937	5.72523
11:13:50		2.5	196.5	546	10.28121	0.7387486	5.3137	1.56288	4.83516	5.81908
11:13:50		2.5	198	547	10.2668	0.7353764	5.6089	1.51404	4.78632	5.79285
11:13:51		2.5	199.5	548	10.2716	0.7336122	5.6089	1.56288	4.73748	5.77718
11:13:51		2.5	201	549	10.28794	0.7270307	5.3137	1.56288	5.17705	5.71906
11:13:52		2.5	202.5	550	10.29851	0.7334503	5.3137	1.51404	4.98168	5.77158
11:13:52		2.5	204	551	10.28218	0.7300803	5.5105	1.56288	4.93284	5.74569
11:13:53		2.5	205.5	552	10.27449	0.7312044	5.6089	1.51404	4.93284	5.75638
11:13:53		2.5	207	553	10.27833	0.7265485	5.5105	1.51404	5.07937	5.71648
11:13:54		2.5	208.5	554	10.30043	0.7265484	5.4121	1.51404	4.93284	5.71303
11:13:54		2.5	210	555	10.30338	0.7259068	5.3137	1.51404	4.73748	5.70716
11:13:55		2.5	211.5	556	10.30043	0.7273516	5.5105	1.51404	4.884	5.71979
11:13:55		2.5	213	557	10.29082	0.7260663	5.6089	1.51404	4.73748	5.71045
11:13:56		2.5	214.5	558	10.29371	0.7260663	5.5105	1.51404	4.73748	5.71
11:13:56		2.5	216	559	10.29755	0.7262276	5.4121	1.56288	4.93284	5.71077
11:13:57		2.5	217.5	560	10.29755	0.7260663	5.5105	1.51404	4.83516	5.7094
11:13:57		2.5	219	561	10.29851	0.7255861	5.4121	1.51404	4.3956	5.70521
11:13:58		2.5	220.5	562	10.30242	0.7262276	5.4121	1.56288	4.59096	5.71001
11:13:58		2.5	222	563	10.3149	0.7259068	5.5105	1.51404	4.6398	5.70534
11:13:59		2.5	223.5	564	10.32643	0.7251042	5.5105	1.56288	4.68864	5.69678
11:13:59		2.5	225	565	10.32355	0.7239814	5.4121	1.56288	4.6398	5.68777
11:14:00		2.5	226.5	566	10.32163	0.7259068	5.5105	1.4652	4.6398	5.70429
11:14:00		2.5	228	567	10.31394	0.7234998	5.5105	1.51404	4.6398	5.6852
11:14:01		2.5	229.5	568	10.31587	0.7218947	5.4121	1.51404	4.93284	5.67139
11:14:01		2.5	231	569	10.32163	0.7190058	5.3137	1.4652	4.93284	5.64616
11:14:02		2.5	232.5	570	10.32067	0.7252654	5.5105	1.56288	4.93284	5.69904
11:14:02		2.5	234	571	10.31394	0.7193256	5.7073	1.56288	4.83516	5.65001
11:14:03		2.5	235.5	572	10.31683	0.7178805	5.4121	1.51404	4.6398	5.63742
11:14:03		2.5	237	573	10.32163	0.7143512	5.3137	1.56288	5.03053	5.60697
11:14:04		2.5	238.5	574	10.3101	0.7172396	5.4121	1.56288	4.83516	5.63306
11:14:04		2.5	240	575	10.31298	0.7148326	5.5105	1.51404	5.22589	5.61234
11:14:05		2.5	241.5	576	10.31202	0.7148326	5.5105	1.56288	4.83516	5.61249

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:05		2.5	243	577	10.31394	0.7137076	5.4121	1.51404	5.37241	5.60273
11:14:06		2.5	244.5	578	10.31683	0.7119437	5.4121	1.51404	5.12821	5.58744
11:14:06		2.5	246	579	10.32355	0.7135471	5.5105	1.4652	5.17705	5.59989
11:14:07		2.5	247.5	580	10.32643	0.7127452	5.4121	20.80586	4.83516	5.59271
11:14:07		2.5	249	581	10.34372	0.7124245	5.3137	18.1685	4.93284	5.58738
11:14:08		2.5	250.5	582	10.34276	0.7161151	5.5105	1.51404	5.03053	5.61855
11:14:08		2.5	252	583	10.33411	0.713868	5.6089	1.51404	4.98168	5.60097
11:14:09		2.5	253.5	584	10.33603	0.7119436	5.3137	1.56288	4.93284	5.58451
11:14:09		2.5	255	585	10.34852	0.7183626	5.3137	1.56288	4.93284	5.6366
11:14:10		2.5	256.5	586	10.33411	0.7169182	5.5105	1.51404	5.07937	5.62664
11:14:10		2.5	258	587	10.31779	0.7159546	5.6089	1.51404	4.93284	5.62104
11:14:11		2.5	259.5	588	10.32355	0.7146721	5.3137	1.51404	4.98168	5.60938
11:14:11		2.5	261	589	10.34276	0.7129055	5.3137	1.51404	4.93284	5.59157
11:14:12		2.5	262.5	590	10.33603	0.7153141	5.5105	1.51404	4.93284	5.61285
11:14:12		2.5	264	591	10.32451	0.7143512	5.6089	4.29792	5.12821	5.60651
11:14:13		2.5	265.5	592	10.32931	0.7127452	5.3137	2.83272	4.98168	5.59228
11:14:13		2.5	267	593	10.34372	0.7122642	5.3137	7.03297	4.93284	5.58603
11:14:14		2.5	268.5	594	10.34084	0.7174002	5.5105	13.52869	4.83516	5.62966
11:14:14	11:12:50 end transect	2.5	270	595	10.33411	0.7141907	5.6089	2.97924	4.884	5.60368
11:14:15				596	10.33027	0.713066	5.5105	1.51404	4.93284	5.59482
11:14:15				597	10.32739	0.7149931	5.3137	1.51404	4.884	5.61149
11:14:16				598	10.33507	0.7161151	5.4121	1.51404	4.884	5.61974
11:14:16				599	10.33315	0.7146721	5.5105	1.4652	4.884	5.60789
11:14:17				600	10.33411	0.7175609	5.4121	1.51404	4.54212	5.63206
11:14:17				601	10.33123	0.7218947	5.5105	1.56288	4.93284	5.66899
11:14:18				602	10.31779	0.7174003	5.5105	1.51404	4.884	5.63322
11:14:18				603	10.32739	0.7135471	5.3137	1.51404	4.73748	5.59932
11:14:19				604	10.33988	0.7194864	5.3137	1.56288	4.78632	5.64739
11:14:20				607	10.32961	0.7180726	5.5105	1.51404	4.78632	5.63706
11:14:21				608	10.33057	0.7172691	5.4121	1.51404	4.884	5.63015
11:14:21				609	10.33441	0.7163071	5.4121	1.51404	4.98168	5.62146
11:14:22				610	10.34018	0.7174298	5.4121	6.83761	4.884	5.63002
11:14:22				611	10.34882	0.7164677	5.6089	7.17949	5.03053	5.62058
11:14:23				612	10.3565	0.7156647	5.5105	2.24664	5.17705	5.61265
11:14:23				613	10.35746	0.7147016	5.5105	1.51404	4.78632	5.60441
11:14:24				614	10.3565	0.7143806	5.4121	1.56288	4.83516	5.60186
11:14:24				615	10.35746	0.7138992	5.4121	2.24664	4.68864	5.59767
11:14:25				616	10.36802	0.7159858	5.4121	3.76068	4.93284	5.61359
11:14:25				617	10.37288	0.7143806	5.5105	6.88645	5.22589	5.59934
11:14:26				618	10.36706	0.7140597	5.6089	1.51404	4.98168	5.59753
11:14:26				619	10.37192	0.711973	5.3137	1.51404	4.98168	5.57927
11:14:27				620	10.38631	0.7135783	5.5105	1.51404	5.03053	5.59055
11:14:27				621	10.38535	0.7122936	5.5105	10.74481	4.98168	5.5799
11:14:28				622	10.39879	0.7102067	5.3137	6.05617	4.93284	5.56034
11:14:28				623	10.41605	0.7183921	5.3137	9.52381	5.03053	5.62644

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:29				624	10.39111	0.714862	5.7073	12.74725	5.22589	5.60058
11:14:29				625	10.3661	0.7142201	5.6089	2.00244	5.17705	5.59903
11:14:30				626	10.39111	0.709084	5.2153	4.59096	4.884	5.55209
11:14:30				627	10.40358	0.7114921	5.2153	7.42369	4.98168	5.57041
11:14:31				628	10.40838	0.7228867	5.6089	8.00977	5.17705	5.66537
11:14:31				629	10.38439	0.715183	5.7073	6.39805	5.27473	5.60431
11:14:32				630	10.39111	0.7129349	5.4121	4.05372	5.03053	5.58442
11:14:32				631	10.39783	0.7121332	5.2153	6.20269	5.03053	5.57667
11:14:33				632	10.40646	0.7135783	5.5105	7.32601	5.12821	5.58747
11:14:33				633	10.40454	0.7122935	5.5105	7.71673	5.37241	5.57697
11:14:34				634	10.40454	0.7108493	5.3137	8.40049	5.12821	5.56486
11:14:34				635	10.40454	0.7127746	5.5105	8.69353	4.98168	5.58101
11:14:35				636	10.39207	0.7132575	5.6089	8.88889	5.22589	5.58696
11:14:35				637	10.39303	0.7118127	5.4121	8.05861	5.07937	5.5747
11:14:36				638	10.39207	0.7108493	5.2153	7.76557	4.884	5.56677
11:14:36				639	10.40262	0.7167888	5.4121	7.32601	5.03053	5.61503
11:14:37				640	10.39495	0.7124539	5.6089	7.91209	5.03053	5.57977
11:14:37				641	10.39399	0.7121333	5.5105	4.29792	4.884	5.57723
11:14:38				642	10.38631	0.711133	5.3137	10.25641	4.93284	5.57168
11:14:38				643	10.38343	0.7134179	5.3137	10.06105	4.884	5.58965
11:14:39				644	10.38631	0.714541	5.5105	6.69109	5.17705	5.59863
11:14:39				645	10.37576	0.7138992	5.6089	7.81441	5.17705	5.59485
11:14:40				646	10.38535	0.7122936	5.4121	3.95604	4.98168	5.57991
11:14:40				647	10.40358	0.7145409	5.2153	7.42369	4.98168	5.59601
11:14:41				648	10.39687	0.7301098	5.5105	11.57509	4.98168	5.72792
11:14:41				649	10.35458	0.7227276	5.7073	10.15873	5.27473	5.67236
11:14:42				650	10.3661	0.7164676	5.5105	7.32601	4.884	5.61793
11:14:42				651	10.4007	0.7102067	5.117	8.20513	4.98168	5.56007
11:14:43				652	10.41318	0.7240108	5.3137	11.33089	5.12821	5.6741
11:14:43				653	10.40742	0.7147015	5.6089	12.06349	5.07937	5.59674
11:14:44				654	10.40646	0.7150225	5.6089	8.88889	4.93284	5.59958
11:14:44				655	10.4055	0.7138991	5.5105	9.91453	4.83516	5.59031
11:14:45				656	10.41318	0.7111697	5.4121	10.79365	5.27473	5.56623
11:14:45				657	10.41989	0.7119729	5.3137	10.15873	5.12821	5.57196
11:14:46				658	10.41222	0.7511398	5.4121	16.60562	5.07937	5.90266
11:14:46				659	10.39399	0.7187137	5.6089	18.1685	5.17705	5.63251
11:14:47				660	10.38535	0.7142201	5.4121	15.62882	4.78632	5.59609
11:14:47				661	10.40742	0.7114921	5.4121	15.43346	4.884	5.56981
11:14:48				662	10.41797	0.7132575	5.4121	15.57998	5.03053	5.58302
11:14:48				663	10.41509	0.7122935	5.4121	11.77045	4.884	5.57537
11:14:49				664	10.41222	0.7137387	5.4121	7.86325	4.884	5.58794
11:14:49				665	10.40358	0.7336416	5.4121	8.93773	4.93284	5.7566
11:14:50				666	10.37863	0.7174297	5.5105	4.98168	4.98168	5.62409
11:14:50				667	10.38439	0.7137387	5.3137	4.1514	4.93284	5.5922
11:14:51				668	10.40646	0.7130971	5.117	7.66789	5.12821	5.58346

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:14:51				669	10.40358	0.7272215	5.5105	14.21245	5.12821	5.70257
11:14:52				670	10.35266	0.7273811	5.7073	3.9072	5.51893	5.71185
11:14:52				671	10.34114	0.7204793	5.5105	1.51404	5.12821	5.65554
11:14:53				672	10.38247	0.7129349	5.2153	4.98168	5.03053	5.58575
11:14:53				673	10.39303	0.742953	5.2153	10.01221	5.03053	5.83673
11:14:54				674	10.36322	0.733	5.6089	12.79609	5.12821	5.75754
11:14:54				675	10.31328	0.7341237	5.7073	8.59585	4.98168	5.77489
11:14:55				676	10.32481	0.7235294	5.5105	6.59341	5.03053	5.68376
11:14:55				677	10.37863	0.7132575	5.117	7.76557	4.93284	5.58906
11:14:56				678	10.38631	0.7260976	5.2153	12.94261	4.884	5.69583
11:14:56				679	10.36418	0.7259364	5.6089	10.98901	5.22589	5.69789
11:14:57				680	10.35074	0.7219243	5.6089	5.90965	5.03053	5.6662
11:14:57				681	10.38055	0.7124539	5.2153	6.15385	5.07937	5.582
11:14:58				682	10.39495	0.75419	5.2153	13.72405	5.07937	5.93121
11:14:58				683	10.32865	0.7394199	5.6089	11.03785	5.17705	5.81716
11:14:59				684	10.32097	0.7289865	5.5105	6.15385	5.03053	5.73036
11:14:59				685	10.36514	0.7161464	5.2153	7.57021	5.03053	5.6154
11:15:00				686	10.3748	0.7174297	5.3137	9.32845	5.07937	5.6247
11:15:00				687	10.36802	0.7199985	5.6089	6.10501	5.32357	5.64732
11:15:01				688	10.36802	0.7206402	5.6089	4.54212	4.93284	5.65272
11:15:01				689	10.38247	0.7188745	5.3137	5.17705	4.98168	5.63566
11:15:02				690	10.38151	0.714862	5.3137	6.83761	5.07937	5.60208
11:15:02				691	10.39207	0.7546706	5.5105	9.23077	5.17705	5.9357
11:15:03				692	10.39207	0.7164676	5.6089	13.28449	4.93284	5.61393
11:15:03				693	10.39495	0.7169476	5.4121	16.31258	4.884	5.61754
11:15:04				694	10.40646	0.7140596	5.2153	13.91941	5.03053	5.59153
11:15:04				695	10.4103	0.7456818	5.4121	13.91941	5.07937	5.85695
11:15:05				696	10.39111	0.7257769	5.6089	11.86813	5.37241	5.69235
11:15:05				697	10.38151	0.7174297	5.6089	14.70085	5.12821	5.62364
11:15:06				698	10.40166	0.7137387	5.2153	12.55189	4.98168	5.58957
11:15:06				699	10.40838	0.7286651	5.3137	14.06593	5.07937	5.71398
11:15:07				700	10.37384	0.7342836	5.6089	12.99145	5.22589	5.76668
11:15:07				701	10.3469	0.7269007	5.6089	5.32357	5.22589	5.70871
11:15:08				702	10.38247	0.7156646	5.3137	7.22833	4.98168	5.60868
11:15:08				703	10.39974	0.7219241	5.3137	14.01709	4.93284	5.65864
11:15:09				704	10.39399	0.7195158	5.4121	17.48474	4.98168	5.63927
11:15:09				705	10.39111	0.7188744	5.5105	12.16117	5.03053	5.63432
11:15:10				706	10.39207	0.717751	5.5105	11.52625	4.93284	5.62473
11:15:10				707	10.38535	0.7171083	5.5105	12.11233	5.07937	5.62036
11:15:11				708	10.39399	0.7166282	5.4121	12.25885	4.83516	5.615
11:15:11				709	10.40742	0.7158251	5.3137	16.16606	4.98168	5.6062
11:15:12				710	10.41509	0.7169476	5.4121	19.53602	5.27473	5.61445
11:15:12				711	10.42085	0.715504	5.6089	19.73138	5.17705	5.60142
11:15:13				712	10.41318	0.7143805	5.5105	21.97802	5.03053	5.59317
11:15:13				713	10.41126	0.7145409	5.4121	20.07326	4.98168	5.59482

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:14				714	10.41318	0.71422	5.3137	19.43834	4.98168	5.59184
11:15:14				715	10.41797	0.7222443	5.4121	20.6105	4.78632	5.6585
11:15:15				716	10.40838	0.7225664	5.6089	16.16606	5.03053	5.66267
11:15:15				717	10.39879	0.7161464	5.6089	11.47741	5.17705	5.6102
11:15:16				718	10.4055	0.7159857	5.4121	11.96581	4.884	5.60784
11:15:16				719	10.42277	0.7148619	5.3137	15.53114	5.03053	5.59577
11:15:17				720	10.41605	0.7164675	5.4121	20.46398	5.17705	5.61027
11:15:17				721	10.39783	0.7172689	5.5105	19.97558	5.42125	5.61979
11:15:18				722	10.4007	0.7155041	5.5105	14.16361	4.884	5.60452
11:15:18				723	10.40838	0.7135783	5.5105	17.4359	5.03053	5.58717
11:15:19				724	10.41222	0.71422	5.5105	20.51282	5.03053	5.59197
11:15:20				727	10.41863	0.7153324	5.3137	20.41514	5.03053	5.60035
11:15:21				728	10.40232	0.7127653	5.6089	20.31746	5.07937	5.58126
11:15:21				729	10.39273	0.7129257	5.5105	14.01709	4.93284	5.58408
11:15:22				730	10.40712	0.7109985	5.4121	13.96825	4.78632	5.56571
11:15:22				731	10.41479	0.7097152	5.3137	16.9475	5.03053	5.55379
11:15:23				732	10.41096	0.7105179	5.5105	13.91941	5.12821	5.56109
11:15:23				733	10.4004	0.7113208	5.6089	6.10501	4.98168	5.56943
11:15:24				734	10.41096	0.7129257	5.5105	6.44689	5.07937	5.5813
11:15:24				735	10.41096	0.7135672	5.4121	6.69109	5.03053	5.58669
11:15:25				736	10.39753	0.7111587	5.5105	12.25885	5.12821	5.56851
11:15:25				737	10.4052	0.7113208	5.3137	11.42857	5.03053	5.56872
11:15:26				738	10.41096	0.7109985	5.3137	13.82173	4.98168	5.56514
11:15:26				739	10.40808	0.7121222	5.5105	17.97314	5.17705	5.57499
11:15:27				740	10.38691	0.7108383	5.6089	8.69353	4.98168	5.56743
11:15:27				741	10.40616	0.7103577	5.4121	7.52137	4.98168	5.56048
11:15:28				742	10.42343	0.7082708	5.3137	15.67766	4.98168	5.54036
11:15:28				743	10.39657	0.7116413	5.4121	17.38706	4.83516	5.57272
11:15:29				744	10.37156	0.7116414	5.5105	7.91209	4.884	5.57652
11:15:29				745	10.36868	0.7100356	5.5105	2.53968	4.93284	5.56347
11:15:30				746	10.37731	0.7101976	5.5105	1.75824	5.12821	5.56352
11:15:30				747	10.37827	0.7040976	5.4121	2.6862	4.93284	5.51216
11:15:31				748	10.3706	0.7074691	5.4121	2.58852	4.78632	5.54163
11:15:31				749	10.37923	0.7066657	5.3137	1.4652	4.78632	5.53358
11:15:32				750	10.39081	0.7071473	5.3137	9.13309	4.884	5.53587
11:15:32				751	10.47238	0.7060241	5.4121	20.41514	5.17705	5.51413
11:15:33				752	10.48771	0.7024933	5.3137	31.20879	5.07937	5.48228
11:15:33				753	10.49729	0.6933448	5.117	28.81563	5.12821	5.40438
11:15:34				754	10.51843	0.7089126	5.2153	39.12088	5.12821	5.53138
11:15:34				755	10.4858	0.7036164	5.5105	41.4652	5.22589	5.49195
11:15:35				756	10.47813	0.7012095	5.4121	22.61294	4.93284	5.47296
11:15:35				757	10.49729	0.6971958	5.117	22.61294	4.884	5.43656
11:15:36				758	10.50496	0.7048997	5.117	34.48107	5.12821	5.49984
11:15:36				759	10.52705	0.710838	5.3137	34.92063	5.42125	5.54618
11:15:37				760	10.45609	0.7052213	5.5105	37.65568	5.17705	5.50985

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:15:37				761	10.47142	0.7002453	5.4121	15.14042	4.93284	5.4659
11:15:38				762	10.53088	0.6988014	5.2153	27.88767	4.98168	5.44498
11:15:38				763	10.52417	0.7028143	5.2153	42.24664	4.98168	5.47952
11:15:39				764	10.50113	0.7047399	5.4121	46.15385	5.32357	5.49906
11:15:39				765	10.47334	0.7018513	5.6089	16.41026	5.22589	5.47903
11:15:40				766	10.47334	0.701369	5.5105	7.03297	4.83516	5.475
11:15:40				767	10.48292	0.6991221	5.3137	11.13553	4.83516	5.45479
11:15:41				768	10.49155	0.7020108	5.2153	30.47619	5.07937	5.47768
11:15:41				769	10.49538	0.7028144	5.4121	31.64835	5.17705	5.48381
11:15:42				770	10.48196	0.7015304	5.6089	30.23199	4.98168	5.47506
11:15:42				771	10.49346	0.7007273	5.4121	28.91331	4.93284	5.46664
11:15:43				772	10.49825	0.6979994	5.3137	32.67399	4.93284	5.44312
11:15:43				773	10.49825	0.6997632	5.4121	32.33211	5.07937	5.45786
11:15:44				774	10.4925	0.6986403	5.4121	30.13431	5.03053	5.44933
11:15:44				775	10.49155	0.6997633	5.4121	31.89255	4.98168	5.45886
11:15:45				776	10.49442	0.700566	5.5105	31.69719	4.83516	5.46514
11:15:45				777	10.49442	0.7012094	5.4121	32.57631	5.07937	5.47053
11:15:46				778	10.49634	0.7004065	5.4121	31.25763	4.93284	5.46353
11:15:46				779	10.49825	0.697518	5.5105	25.73871	4.93284	5.43908
11:15:47				780	10.49729	0.6959133	5.4121	25.34799	5.27473	5.42582
11:15:47				781	10.49729	0.6960724	5.4121	27.20391	4.98168	5.42715
11:15:48				782	10.4858	0.6947887	5.4121	30.28083	5.51893	5.41812
11:15:48				783	10.48292	0.6943079	5.5105	25.93407	4.93284	5.41452
11:15:49				784	10.48388	0.692543	5.4121	17.4359	5.17705	5.39963
11:15:49				785	10.48867	0.6909382	5.3137	19.29182	5.32357	5.38553
11:15:50				786	10.49538	0.6874061	5.2153	28.37607	5.17705	5.35505
11:15:50				787	10.49442	0.7081106	5.3137	52.55189	5.22589	5.52828
11:15:51				788	10.5788	0.6922214	5.5105	66.71551	5.07937	5.38298
11:15:51				789	10.55672	0.6941469	5.4121	69.59707	4.83516	5.40229
11:15:52				790	10.53279	0.6861219	5.3137	61.39194	5.12821	5.33887
11:15:52				791	10.53279	0.6927018	5.3137	62.90598	5.42125	5.39376
11:15:53				792	10.54524	0.6869251	5.3137	72.62515	5.03053	5.34375
11:15:53				793	10.61993	0.7026526	5.4121	77.70452	5.07937	5.46386
11:15:54				794	10.67065	0.6912572	5.5105	92.06349	4.78632	5.36151
11:15:54				795	10.64198	0.6947883	5.4121	92.84493	4.884	5.39509
11:15:55				796	10.64102	0.6872455	5.3137	97.28938	5.03053	5.33248
11:15:55				797	10.63618	0.6835557	5.2153	97.63126	5.12821	5.30251
11:15:56				798	10.64198	0.7065052	5.2153	95.38462	4.98168	5.49271
11:15:56				799	10.69549	0.7024928	5.6089	88.98657	5.17705	5.45129
11:15:57				800	10.56055	0.6978382	5.6089	88.93773	5.17705	5.43251
11:15:57				801	10.67543	0.6883698	5.3137	88.93773	5.12821	5.33683
11:15:58				802	10.68403	0.6978379	5.117	82.88156	5.07937	5.4143
11:15:58				803	10.70415	0.7090723	5.4121	82.88156	5.07937	5.50477
11:15:59				804	10.528	0.7034548	5.7073	139.82906	8.88889	5.48426
11:15:59				805	10.63618	0.6997629	5.6089	139.82906	8.88889	5.43735

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:00				806	11.22786	0.693504	5.2153	59.82906	6.00733	5.2996
11:16:00				807	11.37661	0.692541	5.117	82.24664	7.81441	5.27057
11:16:01				808	11.44568	0.7060218	5.4121	92.25885	9.03541	5.37062
11:16:01				809	10.9503	0.7050603	5.7073	122.63736	12.35653	5.43491
11:16:02				810	11.1301	0.6988001	5.6089	122.63736	12.35653	5.35708
11:16:02				811	11.50617	0.6898121	5.4121	63.49206	6.15385	5.23005
11:16:03				812	11.78142	0.6918973	5.2153	95.53114	8.93773	5.20848
11:16:03				813	11.6628	0.71549	5.3137	102.51526	11.57509	5.41626
11:16:04				814	11.18324	0.7140467	5.7073	116.04396	6.98413	5.47463
11:16:04				815	11.00934	0.7085895	5.6089	116.04396	6.98413	5.45536
11:16:05				816	11.30559	0.6944669	5.2153	81.66056	6.83761	5.29639
11:16:05				817	11.39553	0.7076267	5.2153	95.57998	8.79121	5.39099
11:16:06				818	11.35675	0.7195044	5.7073	95.33578	8.05861	5.49376
11:16:06				819	11.09967	0.7114795	5.8056	83.07692	7.22833	5.46584
11:16:07				820	11.22501	0.7029723	5.4121	85.27473	7.71673	5.3776
11:16:07				821	11.56184	0.7039351	5.0186	92.55189	7.81441	5.33697
11:16:08				822	11.47401	0.7148484	5.3137	98.26618	9.03541	5.43851
11:16:08				823	11.16616	0.7082691	5.7073	126.83761	13.62637	5.42965
11:16:09				824	11.02455	0.6996027	5.7073	126.88645	13.62637	5.379
11:16:09				825	11.41544	0.6875644	5.3137	76.0928	6.39805	5.22451
11:16:10				826	11.5326	0.6976749	5.117	91.08669	9.76801	5.29024
11:16:10				827	11.32925	0.7153303	5.5105	100.21978	12.30769	5.46365
11:16:11				828	10.9789	0.7097139	5.8056	58.31502	7.03297	5.46914
11:16:11				829	10.93031	0.7058613	5.6089	59.82906	6.25153	5.44449
11:16:12				830	11.19562	0.6938238	5.2153	66.17827	6.78877	5.30684
11:16:12				831	11.17849	0.7005644	5.2153	77.36264	8.05861	5.3646
11:16:13				832	11.12061	0.7185419	5.4121	81.90476	9.23077	5.52095
11:16:13				833	10.75666	0.7114803	5.7073	67.35043	9.37729	5.51691
11:16:14				834	10.72134	0.7076283	5.6089	19.48718	5.27473	5.49016
11:16:14				835	10.93602	0.6996028	5.3137	43.85836	6.34921	5.39194
11:16:15				836	10.98366	0.7012083	5.3137	69.59707	6.73993	5.39824
11:16:15				837	10.94459	0.7050603	5.5105	70.08547	7.17949	5.43577
11:16:16				838	10.90746	0.7020099	5.5105	61.44078	6.00733	5.41601
11:16:16				839	10.90842	0.70538	5.4121	58.70574	6.25153	5.44375
11:16:17				840	10.91699	0.7101963	5.3137	56.26374	5.71429	5.48235
11:16:17				841	10.82159	0.7158131	5.4121	55.57998	5.47009	5.54318
11:16:18				842	10.77294	0.7127645	5.5105	61.05006	6.05617	5.52516
11:16:18				843	10.82445	0.7066647	5.4121	48.15629	5.42125	5.46682
11:16:19				844	11.01409	0.6978371	5.3137	55.43346	6.39805	5.366
11:16:20				847	12.02999	0.6818182	5.5105	95.14042	15.14042	5.09333
11:16:21				848	12.24802	0.6617593	5.4121	110.03663	21.63614	4.90451
11:16:21				849	12.83505	0.672188	5.5105	111.20879	22.0757	4.91072
11:16:22				850	12.89341	0.6672129	5.4121	121.12332	23.58974	4.86435
11:16:22				851	12.68299	0.689038	5.3137	111.15995	23.5409	5.06293
11:16:23				852	12.34325	0.6883971	5.6089	99.6337	18.36386	5.10341

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:23				853	12.04497	0.6882373	5.7073	109.45055	24.56654	5.14267
11:16:24				854	11.91649	0.6834237	5.4121	109.54823	15.57998	5.12165
11:16:24				855	11.71993	0.6850288	5.2153	106.08059	16.60562	5.16157
11:16:25				856	12.2256	0.7113479	5.4121	98.6569	16.60562	5.30252
11:16:25				857	12.08997	0.6900023	5.6089	102.8083	15.4823	5.15065
11:16:26				858	12.02343	0.6969051	5.5105	91.13553	14.06593	5.21512
11:16:26				859	11.82348	0.6954603	5.2153	100.46398	14.21245	5.23136
11:16:27				860	11.71335	0.7124729	5.2153	94.79853	12.45421	5.38449
11:16:27	11:15:03 start transect	1	180	861	11.33464	0.7119929	5.4121	88.15629	14.45665	5.43554
11:16:28	moving away from			862	11.1393	0.7126346	5.5105	72.57631	6.88645	5.46952
11:16:28	discharge port			863	11.10791	0.7103892	5.4121	68.08303	6.49573	5.45567
11:16:29				864	11.00619	0.7123143	5.3137	69.64591	9.67033	5.48661
11:16:29				865	10.76209	0.7100678	5.4121	67.49695	7.76557	5.50438
11:16:30				866	10.66749	0.7097477	5.4121	56.50794	6.15385	5.51589
11:16:30				867	10.71334	0.7123149	5.4121	53.67521	5.17705	5.53038
11:16:31				868	10.60815	0.7105505	5.4121	47.47253	5.47009	5.53151
11:16:31	11:15:07	2	255	869	10.51424	0.713119	5.5105	40.39072	5.07937	5.56719
11:16:32			255	870	10.49316	0.7119948	5.5105	26.76435	5.32357	5.56098
11:16:32			255	871	10.5526	0.7129585	5.5105	31.79487	5.07937	5.56003
11:16:33			255	872	10.49891	0.713119	5.4121	32.91819	5.71429	5.56953
11:16:33			255	873	10.43559	0.7084639	5.4121	31.89255	5.17705	5.54013
11:16:34			255	874	10.39813	0.7030072	5.5105	24.0293	4.884	5.50001
11:16:34			255	875	10.40388	0.7058956	5.4121	20.80586	4.83516	5.52338
11:16:35			255	876	10.44997	0.7018825	5.4121	14.50549	5.12821	5.48281
11:16:35			255	877	10.48646	0.7007603	5.6089	19.78022	5.07937	5.46794
11:16:36			255	878	10.47298	0.7017229	5.5105	33.50427	5.07937	5.47802
11:16:36	11:15:12	3	255	879	10.48646	0.6978713	5.4121	29.45055	5.12821	5.4438
11:16:37			255	880	10.47202	0.6996369	5.4121	33.89499	5.47009	5.46071
11:16:37			255	881	10.42025	0.7002784	5.4121	30.32967	5.37241	5.47382
11:16:38			255	882	10.41156	0.7001171	5.5105	25.59219	5.32357	5.47376
11:16:38			255	883	10.41929	0.6945	5.4121	25.20147	5.22589	5.42556
11:16:39			255	884	10.38757	0.6936977	5.5105	13.23565	5.37241	5.42353
11:16:39	11:15:15	4	255	885	10.37989	0.6965867	5.5105	4.73748	4.93284	5.44889
11:16:40			255	886	10.41347	0.6914513	5.3137	11.77045	5.03053	5.4009
11:16:40			255	887	10.42217	0.6978714	5.4121	21.73382	5.17705	5.45337
11:16:41			255	888	10.37222	0.694661	5.5105	2.1978	5.07937	5.43389
11:16:41			255	889	10.3607	0.6928958	5.5105	2.1978	5.07937	5.4208
11:16:42			255	890	10.35878	0.693537	5.4121	1.56288	5.22589	5.42647
11:16:42	11:15:18	5	255	891	10.3559	0.6965868	5.4121	1.51404	5.03053	5.45248
11:16:43			255	892	10.34432	0.6970681	5.5105	1.51404	5.27473	5.45824
11:16:43			255	893	10.33663	0.6935371	5.5105	1.51404	5.17705	5.42975
11:16:44			255	894	10.34624	0.6959447	5.4121	1.51404	5.27473	5.44853
11:16:44			255	895	10.34528	0.6994759	5.5105	1.56288	5.22589	5.47831
11:16:45			255	896	10.33663	0.6957856	5.5105	1.51404	5.12821	5.44862
11:16:45	11:15:21	6	255	897	10.33952	0.6969089	5.4121	1.51404	4.884	5.45763

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:16:46			255	898	10.34048	0.6988348	5.4121	1.4652	5.12821	5.47366
11:16:46			255	899	10.34144	0.6983532	5.4121	1.56288	5.12821	5.46947
11:16:47			255	900	10.33759	0.6985125	5.5105	1.56288	4.98168	5.47137
11:16:47			255	901	10.33952	0.698192	5.5105	1.51404	4.884	5.4684
11:16:48			255	902	10.34144	0.6983532	5.4121	1.51404	5.03053	5.46947
11:16:48			255	903	10.34048	0.6989942	5.4121	1.51404	4.98168	5.475
11:16:49			255	904	10.33952	0.6953028	5.4121	1.51404	4.93284	5.44415
11:16:49			255	905	10.3472	0.6972291	5.4121	1.51404	4.83516	5.45917
11:16:50			255	906	10.35008	0.7010814	5.5105	1.51404	5.07937	5.49107
11:16:50	11:15:26	7	255	907	10.34432	0.6996372	5.7073	1.51404	5.17705	5.47979
11:16:51			255	908	10.3424	0.6965868	5.4121	1.51404	4.98168	5.4545
11:16:51			255	909	10.35488	0.6771691	5.117	1.56288	4.884	5.28991
11:16:52			255	910	10.38277	0.7012408	5.2153	1.51404	5.27473	5.48752
11:16:52			255	911	10.35974	0.7022037	5.6089	1.51404	5.27473	5.49904
11:16:53			255	912	10.34912	0.7005993	5.4121	1.56288	5.03053	5.48718
11:16:53	11:15:29	8	255	913	10.34624	0.6941803	5.3137	1.51404	4.884	5.43374
11:16:54			255	914	10.34912	0.6953027	5.117	1.56288	5.07937	5.44274
11:16:54			255	915	10.35296	0.7015618	5.2153	1.51404	5.22589	5.4947
11:16:55			255	916	10.34816	0.6997966	5.5105	1.51404	4.98168	5.48057
11:16:55			255	917	10.3472	0.6994759	5.5105	1.56288	5.03053	5.47802
11:16:56			255	918	10.34432	0.6973902	5.2153	1.51404	4.884	5.46097
11:16:56	11:15:32	9	255	919	10.3472	0.6961056	5.117	1.51404	4.98168	5.44977
11:16:57			255	920	10.3472	0.7002785	5.2153	1.4652	5.32357	5.48479
11:16:57			255	921	10.34528	0.6988348	5.4121	1.51404	5.07937	5.47294
11:16:58			255	922	10.34624	0.6978716	5.4121	1.51404	4.884	5.46471
11:16:58			255	923	10.34816	0.6969088	5.2153	1.56288	4.93284	5.45636
11:16:59			255	924	10.3472	0.6989941	5.2153	1.56288	5.07937	5.474
11:16:59	11:15:35	10	255	925	10.34432	0.6972291	5.3137	1.4652	5.07937	5.45961
11:17:00			255	926	10.34432	0.698192	5.3137	1.51404	4.93284	5.46769
11:17:00			255	927	10.34336	0.6978716	5.4121	1.56288	5.12821	5.46514
11:17:01			255	928	10.3424	0.6975494	5.4121	1.51404	4.884	5.46258
11:17:01	11:15:37	11	255	929	10.34336	0.6972291	5.4121	1.51404	4.884	5.45974
11:17:02			255	930	10.3424	0.6993147	5.3137	1.51404	4.884	5.47741
11:17:02			255	931	10.3424	0.6996372	5.4121	1.51404	5.17705	5.48011
11:17:03			255	932	10.34528	0.6999578	5.4121	1.56288	5.03053	5.48237
11:17:03	11:15:39	12	255	933	10.3472	0.7075004	5.4121	1.51404	5.03053	5.54544
11:17:04			255	934	10.3424	0.7063772	5.5105	1.51404	4.884	5.53672
11:17:04			255	935	10.34144	0.7070187	5.4121	1.51404	4.83516	5.54227
11:17:05			255	936	10.34336	0.7073404	5.4121	1.56288	4.884	5.54468
11:17:05	11:15:41	13	255	937	10.34528	0.7083041	5.4121	1.51404	4.73748	5.55249
11:17:06			255	938	10.33856	0.7123158	5.4121	1.51404	4.78632	5.58724
11:17:06			255	939	10.33375	0.7100688	5.4121	1.51404	4.98168	5.56908
11:17:07			255	940	10.33856	0.7107114	5.4121	1.51404	4.73748	5.57375
11:17:07			255	941	10.33567	0.7158475	5.4121	1.56288	4.83516	5.6174
11:17:08			255	942	10.32703	0.7161687	5.4121	1.51404	4.78632	5.62143

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:08	11:15:44	14	255	943	10.32895	0.7153658	5.4121	1.51404	5.07937	5.61438
11:17:09			255	944	10.32223	0.7290088	5.4121	1.51404	5.07937	5.73036
11:17:09			255	945	10.32415	0.7267616	5.5105	1.51404	5.22589	5.7111
11:17:10			255	946	10.3155	0.7233924	5.5105	1.56288	4.83516	5.68405
11:17:10			255	947	10.32415	0.7225888	5.4121	1.51404	4.83516	5.67595
11:17:11			255	948	10.31454	0.7208234	5.3137	1.51404	4.98168	5.66257
11:17:11	11:15:47 end transect	15	255	949	10.3107	0.7282069	5.3137	1.56288	4.98168	5.72541
11:17:12	repositioning			950	10.27509	0.7290089	5.6089	1.51404	5.12821	5.73775
11:17:12				951	10.24432	0.7261202	5.6089	1.51404	5.07937	5.71818
11:17:13				952	10.28566	0.7233925	5.4121	1.4652	5.03053	5.68871
11:17:13				953	10.28085	0.7235517	5.4121	1.56288	4.884	5.69081
11:17:14				954	10.29335	0.7256381	5.5105	1.56288	5.07937	5.70645
11:17:14				955	10.30302	0.7230702	5.5105	1.51404	5.27473	5.68328
11:17:15				956	10.30494	0.7232313	5.5105	1.51404	4.73748	5.68434
11:17:15				957	10.30302	0.7227499	5.4121	1.51404	4.83516	5.68059
11:17:16				958	10.30398	0.7200208	5.4121	1.56288	5.27473	5.65744
11:17:16				959	10.3059	0.7163293	5.4121	1.51404	4.83516	5.62604
11:17:17				960	10.31262	0.7278859	5.4121	1.51404	5.12821	5.7224
11:17:17				961	10.31454	0.7262814	5.5105	1.51404	4.884	5.70856
11:17:18				962	10.31454	0.7213044	5.5105	1.4652	4.73748	5.66661
11:17:18				963	10.31935	0.7184163	5.4121	1.56288	4.98168	5.64154
11:17:19				964	10.31839	0.7325408	5.3137	1.51404	4.93284	5.76076
11:17:20				967	10.29113	0.7291202	5.4121	1.51404	5.12821	5.73618
11:17:21				968	10.29113	0.7257493	5.5105	1.56288	4.98168	5.70773
11:17:21				969	10.25652	0.7243057	5.5105	1.4652	4.93284	5.70096
11:17:22				970	10.30458	0.7198119	5.4121	1.51404	4.98168	5.65559
11:17:22				971	10.31617	0.7273552	5.4121	1.51404	5.03053	5.71737
11:17:23				972	10.29785	0.7255899	5.5105	1.51404	5.03053	5.70534
11:17:23				973	10.28248	0.7230221	5.5105	1.51404	4.93284	5.68608
11:17:24				974	10.30362	0.7231813	5.4121	1.51404	4.93284	5.68413
11:17:24				975	10.30458	0.7270343	5.4121	1.51404	4.68864	5.71647
11:17:25				976	10.30746	0.7279972	5.4121	1.56288	5.27473	5.72414
11:17:25				977	10.29305	0.7265522	5.5105	1.51404	5.17705	5.7142
11:17:26				978	10.29497	0.7218985	5.6089	1.51404	4.98168	5.67465
11:17:26				979	10.32097	0.7198118	5.3137	1.51404	4.83516	5.65306
11:17:27				980	10.33441	0.7080944	5.3137	1.56288	5.12821	5.55238
11:17:27				981	10.34498	0.7092185	5.5105	1.56288	5.07937	5.56021
11:17:28				982	10.34594	0.7109839	5.5105	1.51404	5.12821	5.57491
11:17:28				983	10.34498	0.7124282	5.4121	1.51404	5.17705	5.58721
11:17:29				984	10.3421	0.7270342	5.3137	1.51404	5.07937	5.71061
11:17:29				985	10.3421	0.7286393	5.4121	1.56288	5.27473	5.72413
11:17:30				986	10.32097	0.7273552	5.5105	1.51404	4.884	5.71661
11:17:30				987	10.30554	0.7241444	5.5105	1.51404	5.03053	5.69195
11:17:31				988	10.31713	0.7246261	5.5105	1.51404	4.93284	5.6942
11:17:31				989	10.34018	0.723985	5.4121	1.51404	4.83516	5.68522

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:32				990	10.34114	0.7210953	5.3137	1.56288	4.68864	5.66074
11:17:32				991	10.34402	0.7315276	5.5105	1.51404	4.83516	5.74816
11:17:33				992	10.30169	0.7246261	5.7073	1.51404	4.884	5.69659
11:17:33				993	10.31809	0.7212563	5.5105	1.51404	5.12821	5.66565
11:17:34				994	10.33729	0.711787	5.2153	1.56288	4.83516	5.58301
11:17:34				995	10.33441	0.7241443	5.2153	1.56288	4.98168	5.68747
11:17:35				996	10.33537	0.7252691	5.5105	1.4652	5.07937	5.69677
11:17:35				997	10.33729	0.7212563	5.6089	1.51404	4.98168	5.66267
11:17:36				998	10.33537	0.7154784	5.4121	1.56288	4.98168	5.61434
11:17:36				999	10.33729	0.7108237	5.117	1.51404	4.83516	5.57491
11:17:37				1000	10.33922	0.7247872	5.117	1.51404	5.03053	5.69215
11:17:37				1001	10.33729	0.7182056	5.3137	1.51404	4.68864	5.63701
11:17:38				1002	10.33922	0.7111441	5.3137	1.51404	4.884	5.5773
11:17:38				1003	10.34018	0.7106635	5.2153	1.51404	4.884	5.57312
11:17:39				1004	10.34114	0.704564	5.117	1.51404	4.93284	5.52171
11:17:39				1005	10.3421	0.6971815	5.117	1.51404	4.93284	5.45956
11:17:40				1006	10.3613	0.706651	5.2153	1.51404	4.93284	5.53618
11:17:40				1007	10.37186	0.7053666	5.2153	1.56288	5.07937	5.5238
11:17:41				1008	10.3661	0.7153177	5.2153	1.56288	4.93284	5.60829
11:17:41				1009	10.34882	0.7202925	5.3137	1.51404	4.68864	5.65279
11:17:42				1010	10.33249	0.7082544	5.3137	1.51404	4.98168	5.55402
11:17:42				1011	10.33922	0.7113044	5.4121	1.51404	4.884	5.57864
11:17:43				1012	10.34978	0.7151573	5.3137	1.56288	5.12821	5.60943
11:17:43				1013	10.30746	0.7130697	5.4121	1.4652	4.884	5.59835
11:17:44				1014	10.29209	0.7092186	5.4121	1.56288	5.03053	5.56828
11:17:44				1015	10.32961	0.7193293	5.4121	1.56288	4.98168	5.64765
11:17:45				1016	10.29785	0.7315277	5.3137	1.51404	5.12821	5.75545
11:17:45				1017	10.23242	0.7249469	5.4121	1.51404	5.37241	5.71015
11:17:46				1018	10.21896	0.7178863	5.3137	1.4652	5.27473	5.65262
11:17:46				1019	10.23435	0.7190097	5.2153	1.51404	5.03053	5.65973
11:17:47				1020	10.24685	0.7207736	5.2153	1.56288	5.03053	5.67268
11:17:47				1021	10.27863	0.7198119	5.3137	1.51404	5.12821	5.65962
11:17:48				1022	10.28728	0.717404	5.3137	1.56288	4.884	5.63798
11:17:48				1023	10.31226	0.7201317	5.117	1.4652	4.93284	5.65712
11:17:49				1024	10.31713	0.7268729	5.2153	1.56288	5.12821	5.71317
11:17:49				1025	10.30554	0.7226999	5.3137	1.56288	5.12821	5.67979
11:17:50				1026	10.30842	0.7212563	5.2153	1.51404	4.93284	5.66718
11:17:50				1027	10.32481	0.7201317	5.0186	1.51404	4.83516	5.65518
11:17:51				1028	10.32673	0.7254285	5.2153	1.51404	4.98168	5.69949
11:17:51				1029	10.32385	0.7220575	5.3137	1.56288	5.03053	5.67153
11:17:52				1030	10.32961	0.7141944	5.0186	1.51404	4.98168	5.60445
11:17:52				1031	10.33729	0.711787	5.0186	1.51404	4.78632	5.58302
11:17:53				1032	10.33922	0.7145153	5.0186	1.56288	5.03053	5.60568
11:17:53				1033	10.33826	0.7109839	5.117	1.51404	4.73748	5.57611
11:17:54				1034	10.33729	0.7101811	5.0186	1.56288	4.68864	5.56952

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:17:54				1035	10.33633	0.7111441	4.9202	1.51404	4.884	5.57777
11:17:55				1036	10.33826	0.711787	5.117	1.51404	4.68864	5.58287
11:17:55				1037	10.33826	0.7071327	5.2153	1.56288	4.73748	5.54372
11:17:56				1038	10.34978	0.7113043	5.117	1.56288	4.78632	5.57705
11:17:56				1039	10.34498	0.7278357	5.2153	1.51404	4.98168	5.71692
11:17:57				1040	10.31418	0.7161189	5.5105	1.4652	4.884	5.62298
11:17:57				1041	10.32097	0.7193293	5.4121	1.51404	4.884	5.64898
11:17:58				1042	10.32673	0.7183664	5.4121	1.56288	4.83516	5.63998
11:17:58				1043	10.32769	0.7244649	5.5105	1.51404	5.03053	5.69119
11:17:59				1044	10.33345	0.7162794	5.5105	1.51404	4.83516	5.62137
11:17:59				1045	10.32961	0.7138735	5.5105	1.51404	4.6398	5.60171
11:18:00				1046	10.32961	0.7092185	5.3137	1.56288	4.83516	5.56257
11:18:00				1047	10.33345	0.7119473	5.3137	1.51404	4.884	5.58493
11:18:01				1048	10.33441	0.7109839	5.4121	1.51404	4.93284	5.57667
11:18:01				1049	10.33441	0.7098608	5.4121	1.51404	4.93284	5.56723
11:18:02				1050	10.33537	0.7079344	5.3137	1.51404	5.03053	5.55089
11:18:02				1051	10.33633	0.7090584	5.2153	1.56288	5.03053	5.56021
11:18:03				1052	10.33729	0.7097006	5.2153	1.51404	4.68864	5.56546
11:18:03				1053	10.33729	0.7101811	5.2153	1.51404	4.59096	5.5695
11:18:04				1054	10.33633	0.7079344	5.2153	1.51404	4.93284	5.55075
11:18:04				1055	10.33729	0.704564	5.117	1.56288	4.78632	5.52229
11:18:05				1056	10.3517	0.7052068	5.0186	1.51404	4.93284	5.52552
11:18:05				1057	10.36802	0.7109838	4.9202	1.4652	4.884	5.57159
11:18:06				1058	10.37959	0.7145152	4.9202	1.51404	5.03053	5.5995
11:18:06				1059	10.3661	0.7124281	5.117	1.56288	5.07937	5.584
11:18:07				1060	10.36514	0.7071326	5.2153	1.51404	4.98168	5.53965
11:18:07				1061	10.38055	0.7133903	5.0186	1.51404	4.98168	5.58989
11:18:08				1062	10.37378	0.7206143	5.0186	1.51404	4.93284	5.65166
11:18:08				1063	10.31809	0.7369854	5.3137	1.56288	5.17705	5.79832
11:18:09				1064	10.24108	0.7252693	5.4121	1.51404	5.17705	5.71152
11:18:09				1065	10.23819	0.7251081	5.3137	1.51404	5.22589	5.71062
11:18:10				1066	10.22761	0.7259107	5.2153	1.51404	4.98168	5.71907
11:18:10				1067	10.22184	0.7259107	5.2153	1.51404	5.27473	5.71997
11:18:11				1068	10.26133	0.7286395	5.2153	1.51404	5.12821	5.73683
11:18:11				1069	10.23242	0.7302439	5.3137	1.51404	5.03053	5.75493
11:18:12				1070	10.16308	0.7270347	5.2153	1.51404	5.03053	5.73872
11:18:12				1071	10.1496	0.7270347	5.3137	1.51404	5.37241	5.74084
11:18:13				1072	10.18426	0.7190098	5.117	1.51404	5.12821	5.66752
11:18:13				1073	10.26229	0.7064895	5.117	1.51404	5.07937	5.54986
11:18:14				1074	10.31905	0.7088965	5.2153	1.4652	5.37241	5.56148
11:18:14				1075	10.32865	0.7066511	5.4121	1.51404	5.27473	5.54112
11:18:15				1076	10.32769	0.7093786	5.2153	1.56288	5.17705	5.56421
11:18:15				1077	10.30554	0.7151574	5.2153	1.51404	5.03053	5.61624
11:18:16				1078	10.29016	0.7331341	5.6089	1.51404	5.22589	5.7702
11:18:16				1079	10.17559	0.7206148	5.6089	1.51404	5.17705	5.6824

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:17				1080	10.25364	0.7125887	5.3137	1.56288	5.22589	5.60257
11:18:17				1081	10.28824	0.7143549	5.0186	1.51404	5.12821	5.61216
11:18:18				1082	10.27575	0.7255899	5.5105	1.56288	5.17705	5.70879
11:18:18				1083	10.2546	0.7164402	5.5105	1.51404	5.56777	5.63488
11:18:19				1084	10.27959	0.7135509	4.9202	1.51404	5.37241	5.60672
11:18:20				1087	10.34804	0.7052399	5.3137	1.51404	5.03053	5.52633
11:18:21				1088	10.36532	0.70508	4.9202	1.51404	5.07937	5.5224
11:18:21				1089	10.3682	0.7057211	4.8218	1.51404	5.07937	5.52736
11:18:22				1090	10.36052	0.7105364	5.117	1.51404	5.22589	5.56895
11:18:22				1091	10.33934	0.7110189	5.4121	1.4652	5.12821	5.57622
11:18:23				1092	10.33645	0.713265	5.2153	1.51404	5.07937	5.59557
11:18:23				1093	10.32973	0.715351	4.8218	1.56288	4.98168	5.61419
11:18:24				1094	10.32877	0.7280324	4.9202	1.51404	5.03053	5.72114
11:18:24				1095	10.27395	0.7273906	5.3137	1.51404	5.12821	5.72429
11:18:25				1096	10.25953	0.7246614	5.3137	1.51404	4.98168	5.70351
11:18:25				1097	10.30572	0.7192036	5.0186	1.56288	5.07937	5.65032
11:18:26				1098	10.32493	0.7286746	5.0186	1.56288	5.07937	5.72715
11:18:26				1099	10.27587	0.7241797	5.2153	1.51404	4.93284	5.6969
11:18:27				1100	10.31725	0.7228961	5.117	1.51404	4.78632	5.67964
11:18:27				1101	10.34318	0.7334892	5.117	1.4652	4.83516	5.76487
11:18:28				1102	10.32973	0.7262665	5.4121	1.56288	5.03053	5.70607
11:18:28				1103	10.35956	0.7222536	5.117	1.51404	4.83516	5.66765
11:18:29				1104	10.3682	0.7248224	5.117	1.51404	4.68864	5.68793
11:18:29				1105	10.36724	0.7355773	5.3137	1.51404	5.07937	5.77865
11:18:30				1106	10.30476	0.7289958	5.5105	1.51404	5.03053	5.73298
11:18:30				1107	10.32013	0.7254638	5.4121	1.56288	4.93284	5.7008
11:18:31				1108	10.34708	0.7245	5.2153	1.4652	4.884	5.6885
11:18:31				1109	10.34414	0.7489009	5.3137	1.51404	4.884	5.89476
11:18:32				1110	10.22876	0.7400711	5.7073	1.56288	5.12821	5.83861
11:18:32				1111	10.19695	0.7328479	5.6089	1.51404	5.37241	5.78255
11:18:33				1112	10.2451	0.722415	5.2153	1.51404	5.22589	5.6868
11:18:33				1113	10.28554	0.729317	5.2153	1.51404	4.98168	5.73874
11:18:34				1114	10.23164	0.7419972	5.6089	1.56288	5.07937	5.85446
11:18:34				1115	10.19117	0.7325281	5.6089	1.56288	5.56777	5.78076
11:18:35				1116	10.2326	0.7256252	5.3137	1.51404	5.37241	5.71587
11:18:35				1117	10.2826	0.7277115	5.117	1.51404	4.98168	5.72566
11:18:36				1118	10.26145	0.739269	5.5105	1.51404	5.07937	5.82661
11:18:36				1119	10.20753	0.732688	5.6089	1.56288	5.27473	5.77952
11:18:37				1120	10.21138	0.7322064	5.5105	1.51404	5.17705	5.77484
11:18:37				1121	10.22196	0.7286749	5.3137	1.51404	5.03053	5.74331
11:18:38				1122	10.22876	0.7317248	5.4121	1.51404	5.07937	5.76802
11:18:38				1123	10.20272	0.7301195	5.5105	1.51404	5.17705	5.75855
11:18:39				1124	10.19791	0.7297982	5.5105	1.56288	5.32357	5.75659
11:18:39				1125	10.2133	0.7297982	5.4121	1.4652	4.884	5.75417
11:18:40				1126	10.22485	0.7293172	5.3137	1.51404	5.47009	5.74829

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:18:40				1127	10.23068	0.7322063	5.4121	1.56288	5.32357	5.77179
11:18:41				1128	10.221	0.7304408	5.5105	1.51404	5.07937	5.75838
11:18:41				1129	10.22779	0.730922	5.4121	1.51404	5.07937	5.76139
11:18:42				1130	10.27395	0.7310817	5.3137	1.51404	5.17705	5.75546
11:18:42				1131	10.27202	0.7346132	5.3137	1.51404	5.22589	5.78559
11:18:43				1132	10.28554	0.7333294	5.5105	1.51404	5.17705	5.77259
11:18:43				1133	10.29034	0.731563	5.5105	1.51404	4.98168	5.75692
11:18:44				1134	10.29034	0.7310817	5.6089	1.51404	5.17705	5.75284
11:18:44				1135	10.2826	0.7306005	5.3137	1.51404	5.47009	5.75003
11:18:45				1136	10.28452	0.736218	5.3137	1.56288	5.22589	5.79717
11:18:45				1137	10.31725	0.736218	5.4121	1.51404	4.98168	5.79196
11:18:46				1138	10.32013	0.7330075	5.4121	1.51404	4.98168	5.76442
11:18:46				1139	10.32685	0.732366	5.4121	1.51404	5.03053	5.75794
11:18:47				1140	10.33357	0.7331693	5.4121	1.9536	4.93284	5.76366
11:18:47				1141	10.33838	0.7330075	5.3137	1.56288	4.98168	5.76154
11:18:48				1142	10.33645	0.745048	5.3137	1.51404	5.12821	5.86346
11:18:48				1143	10.29227	0.7540382	5.4121	1.51404	5.03053	5.9466
11:18:49				1144	10.22485	0.744566	5.5105	1.56288	5.07937	5.87732
11:18:49	11:17:25 start transect	15	270	1145	10.26145	0.7407128	5.117	2.78388	5.03053	5.83886
11:18:50				1146	10.27875	0.7437641	5.3137	1.51404	4.83516	5.86187
11:18:50				1147	10.28452	0.7498638	5.3137	1.51404	4.83516	5.91254
11:18:51				1148	10.2701	0.7405524	5.5105	1.51404	5.17705	5.83608
11:18:51	11:17:25	13	270	1149	10.28452	0.7403919	5.3137	1.51404	5.17705	5.83244
11:18:52				1150	10.29419	0.7350952	5.2153	2.49084	5.03053	5.78616
11:18:52				1151	10.28452	0.7476166	5.3137	2.49084	5.03053	5.89353
11:18:53				1152	10.27587	0.7363801	5.4121	1.51404	4.884	5.7999
11:18:53				1153	10.27202	0.7344532	5.3137	1.56288	4.884	5.78424
11:18:54				1154	10.27683	0.7497027	5.3137	1.51404	5.12821	5.91243
11:18:54	11:17:30	12	270	1155	10.26914	0.7360579	5.3137	1.51404	4.98168	5.79826
11:18:55				1156	10.27683	0.7511476	5.3137	1.51404	5.07937	5.92465
11:18:55				1157	10.27491	0.7339712	5.3137	1.51404	5.17705	5.77971
11:18:56				1158	10.27779	0.7320444	5.2153	1.56288	4.83516	5.76299
11:18:56	11:17:32	11	270	1159	10.28356	0.7615828	5.2153	1.51404	5.12821	6.01194
11:18:57			270	1160	10.22485	0.7532352	5.5105	1.51404	5.17705	5.95079
11:18:57			270	1161	10.21138	0.7338114	5.3137	1.56288	5.17705	5.78844
11:18:58			270	1162	10.2701	0.7277115	5.0186	1.51404	5.07937	5.72763
11:18:58			270	1163	10.28067	0.7633499	5.3137	1.51404	4.93284	6.02738
11:18:59			270	1164	10.25376	0.7413549	5.5105	1.51404	5.32357	5.84549
11:18:59	11:17:32	10	270	1165	10.25184	0.7407129	5.4121	1.51404	5.12821	5.84037
11:19:00			270	1166	10.25472	0.7357377	5.3137	1.56288	5.17705	5.79784
11:19:00			270	1167	10.27202	0.7302791	5.0186	1.56288	4.83516	5.74901
11:19:01			270	1168	10.29323	0.7350952	5.117	1.51404	4.93284	5.78632
11:19:01			270	1169	10.29419	0.7522726	5.4121	1.51404	5.07937	5.93135
11:19:02			270	1170	10.26626	0.7391086	5.4121	1.56288	5.22589	5.8245
11:19:02			270	1171	10.29034	0.7283536	5.0186	1.56288	5.17705	5.72987

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:03			270	1172	10.32109	0.7228961	4.6251	1.51404	4.93284	5.67908
11:19:03	11:17:39	9	270	1173	10.32973	0.734293	5.0186	1.51404	5.03053	5.77378
11:19:04			270	1174	10.29131	0.7286747	5.2153	1.51404	5.17705	5.73241
11:19:04			270	1175	10.3086	0.7193644	4.8218	1.56288	4.93284	5.65124
11:19:05			270	1176	10.32877	0.7184014	4.5267	1.51404	4.884	5.64004
11:19:05	11:17:41	8	270	1177	10.34516	0.7334892	5.0186	1.51404	5.03053	5.76456
11:19:06			270	1178	10.3086	0.7288343	5.2153	1.56288	4.83516	5.73104
11:19:06			270	1179	10.33165	0.725625	5.0186	1.51404	4.884	5.70039
11:19:07			270	1180	10.34708	0.7256249	4.8218	1.56288	4.83516	5.698
11:19:07			270	1181	10.3538	0.7306003	5.117	1.51404	4.884	5.73884
11:19:08			270	1182	10.32973	0.7283535	5.2153	1.56288	4.73748	5.72367
11:19:08	11:17:44	7	270	1183	10.35284	0.7270694	5.117	1.51404	4.83516	5.70925
11:19:09			270	1184	10.38259	0.7280323	4.9202	1.56288	4.884	5.71272
11:19:09			270	1185	10.37971	0.7355772	5.0186	1.51404	4.93284	5.7767
11:19:10			270	1186	10.30284	0.7322061	5.117	6.10501	4.884	5.76041
11:19:10	11:17:46	6	270	1187	10.28746	0.731563	5.0186	6.15385	4.93284	5.75741
11:19:11			270	1188	10.31244	0.7304406	4.7234	1.51404	4.93284	5.74403
11:19:11			270	1189	10.349	0.733971	4.9202	1.51404	4.884	5.76803
11:19:12			270	1190	10.31917	0.7280324	5.0186	1.51404	4.884	5.72264
11:19:12			270	1191	10.36532	0.7293168	4.8218	1.90476	4.73748	5.72625
11:19:13			270	1192	10.34516	0.7424787	4.9202	1.90476	4.73748	5.8404
11:19:13	11:17:49	5	270	1193	10.28746	0.7354154	5.0186	3.46764	5.12821	5.78995
11:19:14			270	1194	10.2653	0.7301193	4.8218	3.51648	5.12821	5.74874
11:19:14			270	1195	10.34516	0.7375033	4.8218	1.56288	5.07937	5.79843
11:19:15			270	1196	10.30284	0.7480977	5.117	1.51404	5.03053	5.89466
11:19:15	11:17:51	4	270	1197	10.27971	0.7444051	5.2153	2.49084	5.03053	5.86715
11:19:16			270	1198	10.26337	0.7355775	4.9202	1.90476	5.07937	5.79515
11:19:16	11:17:52	3	270	1199	10.28746	0.7350952	4.8218	3.22344	4.98168	5.78726
11:19:17			270	1200	10.26818	0.7373432	5.0186	4.93284	5.12821	5.8093
11:19:17			270	1201	10.21234	0.7383051	5.3137	1.51404	5.17705	5.82632
11:19:18			270	1202	10.21042	0.7418366	5.117	1.51404	5.17705	5.85656
11:19:18			270	1203	10.21042	0.7402315	4.7234	1.51404	5.22589	5.843
11:19:19	11:17:55	2	270	1204	10.2133	0.7631879	5.117	1.56288	5.07937	6.03717
11:19:20	repositioning			1207	10.15158	0.7643096	5.0186	1.51404	5.12821	6.05696
11:19:21				1208	10.09372	0.7859853	5.5105	1.51404	5.17705	6.25147
11:19:21				1209	10.02617	0.7702506	5.5105	1.56288	5.51893	6.12857
11:19:22				1210	10.08601	0.7532336	5.117	1.51404	5.37241	5.97355
11:19:22				1211	10.25851	0.7474539	5.117	1.51404	5.27473	5.89637
11:19:23				1212	10.53417	0.8339979	5.6089	1.56288	5.27473	6.58273
11:19:23				1213	10.45836	0.7837363	5.7073	4.1514	5.22589	6.17026
11:19:24				1214	11.21405	0.7566013	5.2153	5.81197	5.47009	5.82058
11:19:24				1215	11.33534	0.7954558	5.2153	16.2149	6.25153	6.12204
11:19:25				1216	12.45674	0.7915991	5.5105	29.15751	8.00977	5.91064
11:19:25				1217	12.65393	0.7843734	5.6089	101.05006	11.28205	5.82235
11:19:26				1218	13.12227	0.7785911	5.4121	101.00122	11.23321	5.70575

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:26				1219	13.05303	0.7710464	5.3137	99.8779	12.16117	5.65667
11:19:27				1220	12.30384	0.7675153	5.4121	99.8779	12.21001	5.74099
11:19:27				1221	11.31736	0.7662343	5.4121	85.86081	11.52625	5.88373
11:19:28				1222	11.48953	0.7676778	5.4121	67.35043	10.10989	5.86839
11:19:28				1223	11.50464	0.7671963	5.3137	44.98168	9.37729	5.86207
11:19:29				1224	11.36757	0.7654305	5.3137	37.16728	6.78877	5.86918
11:19:29				1225	10.9726	0.768644	5.3137	31.79487	6.44689	5.95884
11:19:30				1226	10.55619	0.7668778	5.2153	20.75702	5.81197	6.01183
11:19:30				1227	10.37006	0.767841	5.2153	9.47497	5.51893	6.05064
11:19:31				1228	10.23735	0.7591719	5.2153	7.42369	5.71429	5.99911
11:19:31				1229	10.19208	0.7585307	5.117	3.80952	5.76313	6.00113
11:19:32				1230	10.17084	0.7586906	5.117	2.73504	5.81197	6.00599
11:19:32				1231	10.16506	0.7591721	5.0186	2.10012	5.76313	6.01104
11:19:33				1232	10.14966	0.7623836	4.9202	1.51404	5.56777	6.04091
11:19:33				1233	10.0551	0.7638291	5.0186	1.56288	6.05617	6.06895
11:19:34				1234	10.0281	0.7630263	5.0186	1.51404	5.27473	6.06661
11:19:34				1235	10.04835	0.7599758	4.9202	1.51404	5.42125	6.03722
11:19:35				1236	10.13714	0.7585308	4.9202	1.51404	5.32357	6.01021
11:19:35				1237	10.15062	0.7582092	4.9202	1.51404	5.07937	6.00525
11:19:36				1238	10.14003	0.7657561	4.9202	1.56288	5.07937	6.0712
11:19:36				1239	10.08119	0.7795626	5.0186	2.00244	4.98168	6.19881
11:19:37				1240	10.11498	0.7680022	5.0186	2.00244	4.98168	6.09451
11:19:37				1241	10.01845	0.763669	5.0186	1.51404	5.51893	6.07371
11:19:38				1242	10.02327	0.7662375	4.9202	1.51404	5.61661	6.09484
11:19:38				1243	9.98847	0.7753879	5.0186	1.56288	5.51893	6.17893
11:19:39				1244	10.01652	0.7752288	5.117	1.51404	5.51893	6.17279
11:19:39				1245	10.01845	0.7691262	5.117	1.51404	5.42125	6.12031
11:19:40				1246	9.99426	0.7660772	4.9202	1.56288	5.37241	6.09834
11:19:40				1247	10.04835	0.7713754	4.9202	1.56288	5.32357	6.13449
11:19:41				1248	9.98654	0.7957803	5.2153	1.51404	5.27473	6.35393
11:19:41				1249	10.06384	0.7814895	5.3137	1.51404	5.47009	6.21821
11:19:42				1250	10.03292	0.7655941	5.0186	1.56288	5.32357	6.08772
11:19:42				1251	10.12173	0.7627058	4.7234	1.56288	5.12821	6.04831
11:19:43				1252	10.09372	0.8034865	5.0186	1.51404	5.27473	6.40115
11:19:43				1253	10.12173	0.7875917	5.3137	1.51404	5.51893	6.26039
11:19:44				1254	10.09276	0.7736229	5.2153	1.51404	5.07937	6.14614
11:19:44				1255	10.09083	0.7769946	5.0186	1.56288	5.32357	6.17525
11:19:45				1256	10.05414	0.8071811	5.3137	1.51404	5.22589	6.43976
11:19:45				1257	10.1304	0.7898395	5.5105	1.51404	5.07937	6.27807
11:19:46				1258	10.12943	0.7858253	5.3137	1.51404	4.98168	6.24399
11:19:46				1259	10.05317	0.7710539	5.117	1.51404	5.07937	6.13091
11:19:47				1260	10.03871	0.8349621	5.4121	1.56288	5.27473	6.68106
11:19:47				1261	10.12173	0.7983492	5.8056	1.4652	5.12821	6.35223
11:19:48				1262	10.10336	0.782614	5.5105	1.56288	4.6398	6.22103
11:19:48				1263	10.05703	0.7655941	5.0186	1.56288	5.17705	6.08368

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:19:49				1264	10.04642	0.7826141	5.2153	1.51404	5.32357	6.23081
11:19:49				1265	10.06481	0.8261296	5.7073	1.51404	5.47009	6.60036
11:19:50				1266	10.13232	0.7869482	5.6089	1.51404	4.884	6.25305
11:19:50				1267	10.05221	0.7784395	5.2153	1.56288	4.98168	6.19414
11:19:51				1268	10.04257	0.7821316	5.3137	1.51404	5.32357	6.22734
11:19:51				1269	10.03485	0.7922481	5.5105	1.51404	5.32357	6.31521
11:19:52				1270	10.03678	0.78438	5.6089	1.51404	5.27473	6.24753
11:19:52				1271	10.02134	0.7847014	5.5105	1.51404	5.22589	6.25295
11:19:53				1272	10.00108	0.7814897	5.4121	1.56288	5.12821	6.22895
11:19:53				1273	10.01363	0.7802062	5.3137	1.51404	5.22589	6.21583
11:19:54				1274	10.02617	0.8025246	5.4121	1.51404	5.07937	6.40478
11:19:54				1275	10.07541	0.7951382	5.7073	1.51404	5.47009	6.33286
11:19:55				1276	10.09854	0.7917654	5.6089	1.56288	5.12821	6.30001
11:19:55				1277	10.03485	0.777154	5.3137	1.51404	5.12821	6.18611
11:19:56				1278	10.03003	0.7957802	5.4121	1.4652	5.32357	6.3463
11:19:56				1279	10.07637	0.78743	5.6089	1.56288	5.37241	6.26679
11:19:57				1280	10.05414	0.7859854	5.5105	1.56288	4.93284	6.25828
11:19:57				1281	10.03389	0.779724	5.3137	1.51404	5.17705	6.20824
11:19:58				1282	10.03389	0.7940135	5.4121	1.51404	5.27473	6.3305
11:19:58				1283	10.00977	0.7827739	5.5105	1.51404	5.17705	6.23844
11:19:59				1284	10.00687	0.780527	5.5105	1.56288	5.27473	6.21971
11:19:59				1285	10.00784	0.7816511	5.5105	1.51404	5.17705	6.22917
11:20:00				1286	10.01941	0.7803656	5.4121	1.51404	5.32357	6.21619
11:20:00				1287	10.01459	0.8062177	5.4121	1.51404	5.47009	6.4385
11:20:01				1288	10.04353	0.7961012	5.5105	1.51404	5.22589	6.34668
11:20:01				1289	10.09372	0.7847013	5.7073	1.51404	4.78632	6.24049
11:20:02				1290	10.05703	0.7838989	5.5105	1.51404	4.98168	6.23995
11:20:02				1291	10.05028	0.7810072	5.4121	1.51404	5.22589	6.2164
11:20:03				1292	10.05125	0.7834161	5.5105	1.51404	5.32357	6.23681
11:20:03				1293	10.05125	0.7875919	5.4121	1.51404	5.03053	6.27253
11:20:04				1294	10.05998	0.8190645	5.5105	1.51404	4.98168	6.54061
11:20:04				1295	10.12751	0.7922479	5.7073	1.4652	4.884	6.29911
11:20:05				1296	10.08216	0.7843799	5.4121	1.56288	4.83516	6.23975
11:20:05				1297	10.0252	0.777154	5.2153	1.51404	4.98168	6.18776
11:20:06				1298	10.02231	0.7961012	5.2153	1.51404	5.51893	6.35042
11:20:06				1299	10.03774	0.804451	5.5105	1.51404	5.66545	6.41924
11:20:07				1300	10.09276	0.7920877	5.6089	1.51404	5.07937	6.30377
11:20:07				1301	10.03967	0.7794033	5.3137	1.56288	4.98168	6.20451
11:20:08				1302	10.01556	0.7768336	5.117	1.51404	5.37241	6.18667
11:20:08				1303	10.02134	0.7749068	5.117	1.51404	5.51893	6.16921
11:20:09				1304	10.0281	0.7749068	5.2153	1.56288	5.76313	6.16806
11:20:09				1305	10.01941	0.7747458	5.3137	1.51404	5.37241	6.16815
11:20:10				1306	10.0252	0.769608	5.2153	1.51404	5.32357	6.12328
11:20:10				1307	10.00784	0.758691	5.117	1.51404	5.47009	6.03298
11:20:11				1308	10.03871	0.7485776	4.9202	1.51404	5.37241	5.94167

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:11				1309	10.13232	0.7458488	4.8218	1.56288	5.42125	5.90322
11:20:12				1310	10.16121	0.74954	5.0186	1.51404	5.22589	5.92986
11:20:12				1311	10.07541	0.7460099	5.117	1.51404	5.03053	5.91381
11:20:13				1312	10.10432	0.7381432	5.0186	1.51404	5.17705	5.84228
11:20:13				1313	10.19785	0.7344514	4.7234	1.56288	5.07937	5.79606
11:20:14				1314	10.27196	0.7373395	4.7234	1.51404	4.93284	5.80869
11:20:14				1315	10.24985	0.7509846	5.117	1.51404	5.03053	5.92768
11:20:15				1316	10.07445	0.7468124	5.2153	1.51404	5.12821	5.92079
11:20:15				1317	10.04932	0.7466516	5.117	1.51404	5.47009	5.92352
11:20:16				1318	10.09662	0.750344	5.2153	1.56288	5.37241	5.94721
11:20:16				1319	10.05998	0.7755488	5.4121	1.51404	5.56777	6.16811
11:20:17				1320	10.05125	0.7578898	5.4121	1.51404	5.66545	6.01891
11:20:17				1321	10.06481	0.7477744	5.3137	1.56288	5.42125	5.93054
11:20:18				1322	10.11498	0.7360564	5.117	1.51404	5.37241	5.82285
11:20:18				1323	10.14388	0.739107	5.2153	1.51404	5.12821	5.8441
11:20:19				1324	10.15929	0.7392673	5.2153	1.51404	5.22589	5.84298
11:20:20				1327	10.21938	0.7343044	4.9202	1.51404	5.22589	5.79137
11:20:21				1328	10.20495	0.7344645	5.0186	1.51404	4.98168	5.79501
11:20:21				1329	10.20687	0.731736	5.117	1.4652	5.07937	5.77161
11:20:22				1330	10.18853	0.7314145	5.0186	1.56288	5.22589	5.7718
11:20:22				1331	10.19526	0.7299691	4.9202	1.51404	5.07937	5.75851
11:20:23				1332	10.25208	0.7293282	4.9202	1.51404	5.17705	5.74413
11:20:23				1333	10.27329	0.7219447	4.7234	1.56288	4.884	5.67849
11:20:24				1334	10.26944	0.7164863	4.7234	1.51404	4.98168	5.63305
11:20:24				1335	10.28578	0.711671	4.4283	1.56288	4.83516	5.58998
11:20:25				1336	10.30115	0.7002749	4.2315	1.51404	4.83516	5.49176
11:20:25				1337	10.30884	0.6989923	4.3299	1.51404	4.93284	5.47981
11:20:26				1338	10.31941	0.6949791	4.3299	1.56288	4.93284	5.44452
11:20:26				1339	10.32907	0.6916084	4.3299	2.83272	5.03053	5.41478
11:20:27				1340	10.37228	0.6888808	4.2315	1.56288	5.17705	5.38553
11:20:27				1341	10.38289	0.6853503	4.2315	1.4652	4.98168	5.3544
11:20:28				1342	10.47885	0.6787706	4.2315	26.47131	4.884	5.28545
11:20:28				1343	10.6216	0.6927325	4.2315	32.57631	5.37241	5.38106
11:20:29				1344	10.56223	0.6895223	4.4283	29.79243	5.81197	5.36299
11:20:29				1345	10.46927	0.6811765	4.4283	7.57021	5.27473	5.3069
11:20:30				1346	10.44045	0.6707463	4.3299	1.4652	5.12821	5.224
11:20:30				1347	10.46639	0.6985103	4.3299	8.15629	5.76313	5.45222
11:20:31				1348	10.39633	0.6932135	4.5267	2.88156	5.37241	5.41826
11:20:31				1349	10.38289	0.692892	4.5267	2.83272	5.32357	5.41755
11:20:32				1350	10.37228	0.692251	4.4283	1.51404	5.22589	5.41376
11:20:32				1351	10.36364	0.6940157	4.5267	1.51404	5.27473	5.42983
11:20:33				1352	10.35788	0.6959428	4.4283	2.63736	5.07937	5.44686
11:20:33				1353	10.34924	0.6973865	4.5267	2.53968	5.03053	5.46026
11:20:34				1354	10.34444	0.6922511	4.5267	2.58852	5.07937	5.41788
11:20:34				1355	10.35596	0.6901648	4.4283	3.4188	5.22589	5.39869

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:35				1356	10.35308	0.6919297	4.4283	3.51648	5.22589	5.41391
11:20:35				1357	10.34732	0.6908071	4.5267	3.9072	5.42125	5.40534
11:20:36				1358	10.34732	0.6906465	4.5267	3.85836	5.42125	5.404
11:20:36				1359	10.34828	0.6927332	4.5267	1.51404	4.98168	5.42136
11:20:37				1360	10.34348	0.6892018	4.5267	1.56288	5.32357	5.39245
11:20:37				1361	10.3502	0.6853503	4.4283	1.51404	5.03053	5.35918
11:20:38				1362	10.35692	0.6898438	4.4283	1.56288	5.37241	5.39585
11:20:38				1363	10.3406	0.6877581	4.5267	1.4652	5.42125	5.38076
11:20:39				1364	10.34156	0.6837455	4.5267	1.56288	4.98168	5.34698
11:20:39				1365	10.37324	0.6744379	4.3299	1.56288	5.27473	5.26447
11:20:40				1366	10.40016	0.6883995	4.4283	1.51404	5.32357	5.37738
11:20:40				1367	10.38673	0.6765235	4.4283	1.51404	5.17705	5.27996
11:20:41				1368	10.50574	0.6670556	4.3299	1.51404	5.12821	5.18395
11:20:41				1369	10.54883	0.6859907	4.2315	1.56288	5.12821	5.33552
11:20:42				1370	10.49897	0.6845474	4.4283	23.0525	5.51893	5.33073
11:20:42				1371	10.43469	0.6774863	4.5267	4.68864	5.07937	5.28108
11:20:43				1372	10.50574	0.6572667	4.2315	4.73748	5.12821	5.10251
11:20:43				1373	10.50669	0.6818197	4.1331	4.68864	5.12821	5.30687
11:20:44				1374	10.54787	0.6810165	4.4283	23.58974	5.86081	5.2942
11:20:44				1375	10.56223	0.6492439	4.4283	26.22711	5.22589	5.02807
11:20:45				1376	10.4731	0.6323971	4.2315	25.68987	5.27473	4.90042
11:20:45				1377	10.39921	0.6409009	4.2315	10.59829	6.39805	4.98105
11:20:46				1378	10.32907	0.639137	4.3299	4.884	6.39805	4.9759
11:20:46				1379	10.33387	0.6259806	4.3299	3.27228	6.34921	4.86569
11:20:47				1380	10.32523	0.6075322	4.2315	2.83272	6.44689	4.71351
11:20:47				1381	10.32907	0.601597	4.2315	7.22833	6.15385	4.66377
11:20:48				1382	10.32715	0.5918108	4.2315	6.69109	6.44689	4.58291
11:20:48				1383	10.31845	0.5882832	4.2315	6.10501	6.39805	4.55479
11:20:49				1384	10.29923	0.5855561	4.3299	4.34676	6.44689	4.53459
11:20:49				1385	10.254	0.5772146	4.3299	2.14896	6.49573	4.47108
11:20:50				1386	10.21072	0.5648655	4.2315	1.56288	6.54457	4.3741
11:20:50				1387	10.23958	0.5725633	4.2315	1.51404	6.54457	4.43434
11:20:51				1388	10.25208	0.5736871	4.3299	1.51404	6.73993	4.44211
11:20:51				1389	10.26944	0.5703191	4.3299	1.56288	6.54457	4.41214
11:20:52				1390	10.32619	0.570319	4.3299	8.20513	6.73993	4.40529
11:20:52				1391	10.35788	0.5789787	4.2315	7.03297	6.69109	4.47297
11:20:53				1392	10.39249	0.5908486	4.3299	7.17949	6.69109	4.56677
11:20:53				1393	10.43565	0.5911703	4.4283	11.77045	6.34921	4.56403
11:20:54				1394	10.43757	0.5874806	4.4283	14.50549	6.69109	4.53334
11:20:54				1395	10.50574	0.6253379	4.4283	16.2149	6.44689	4.83756
11:20:55				1396	10.5843	0.62967	4.5267	19.82906	6.34921	4.863
11:20:55				1397	10.66564	0.5985472	4.6251	27.93651	6.30037	4.59606
11:20:56				1398	10.61587	0.6019165	4.5267	32.08791	6.15385	4.63001
11:20:56				1399	10.60726	0.5752906	4.3299	28.66911	6.54457	4.41237
11:20:57				1400	10.56899	0.6176382	4.4283	21.3431	6.69109	4.76561

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:20:57				1401	10.61969	0.6078526	4.7234	28.27839	6.59341	4.67838
11:20:58				1402	10.66373	0.6044839	4.8218	45.76313	5.90965	4.64507
11:20:58				1403	10.56223	0.5751302	4.3299	36.04396	6.20269	4.41647
11:20:59				1404	10.51531	0.5666302	4.1331	27.69231	6.39805	4.35231
11:20:59				1405	10.49131	0.6460357	4.5267	18.99878	6.88645	5.01114
11:21:00				1406	10.56319	0.5911701	4.8218	19.43834	6.88645	4.54815
11:21:00				1407	10.5383	0.5804226	4.6251	31.64835	5.95849	4.46283
11:21:01				1408	10.49705	0.5690351	4.2315	25.64103	6.39805	4.37423
11:21:01				1409	10.47693	0.5743282	4.2315	21.00122	7.08181	4.42017
11:21:02				1410	10.47214	0.5879615	4.6251	19.09646	6.98413	4.53301
11:21:02				1411	10.48172	0.5751304	4.8218	20.1221	6.78877	4.42615
11:21:03				1412	10.46735	0.5728851	4.5267	25.73871	6.39805	4.40943
11:21:03				1413	10.45105	0.5462622	4.1331	18.80342	6.69109	4.19269
11:21:04				1414	10.42606	0.5757707	4.1331	14.16361	6.93529	4.4382
11:21:04				1415	10.4251	0.6224508	4.7234	12.69841	7.22833	4.82425
11:21:05				1416	10.53351	0.5837906	4.8218	20.51282	6.78877	4.4911
11:21:05				1417	10.44818	0.5701587	4.3299	21.8315	6.49573	4.38931
11:21:06				1418	10.43086	0.5634221	4.2315	15.28694	6.64225	4.33596
11:21:06				1419	10.40976	0.6015969	4.6251	11.37973	7.17949	4.65347
11:21:07				1420	10.43086	0.5714414	4.8218	17.04518	7.03297	4.40191
11:21:07				1421	10.42702	0.5667901	4.6251	22.27106	6.49573	4.3641
11:21:08				1422	10.41264	0.5537988	4.3299	16.41026	6.73993	4.25897
11:21:08				1423	10.39825	0.5614971	4.3299	13.18681	6.83761	4.32397
11:21:09				1424	10.38385	0.5624603	4.7234	11.57509	7.17949	4.33357
11:21:09				1425	10.39345	0.5590913	4.7234	13.23565	6.59341	4.30471
11:21:10				1426	10.37995	0.5515543	4.4283	13.47985	6.73993	4.24431
11:21:10				1427	10.36268	0.5546011	4.3299	8.54701	6.98413	4.27139
11:21:11				1428	10.33964	0.5555643	4.5267	7.81441	7.08181	4.282
11:21:11				1429	10.34156	0.5576493	4.7234	8.88889	6.78877	4.29894
11:21:12				1430	10.3406	0.5586106	4.6251	8.54701	6.64225	4.30698
11:21:12				1431	10.32331	0.5674313	4.4283	7.47253	6.93529	4.38179
11:21:13				1432	10.31749	0.5776964	4.4283	6.10501	6.93529	4.4673
11:21:13				1433	10.29058	0.5754517	4.4283	5.76313	6.73993	4.45202
11:21:14				1434	10.27521	0.5868385	4.6251	3.663	6.69109	4.54818
11:21:14				1435	10.26073	0.5759316	4.6251	2.14896	6.54457	4.45962
11:21:15				1436	10.26656	0.5699973	4.5267	1.51404	6.64225	4.40981
11:21:15				1437	10.27232	0.5693555	4.2315	1.56288	6.64225	4.40383
11:21:16				1438	10.26848	0.5760921	4.5267	1.56288	6.64225	4.46001
11:21:16				1439	10.29539	0.5735267	4.7234	5.61661	6.78877	4.43549
11:21:17				1440	10.29058	0.573687	4.6251	5.42125	6.69109	4.43741
11:21:17				1441	10.28097	0.5730457	4.4283	4.24908	6.88645	4.43329
11:21:18				1442	10.28578	0.5671117	4.3299	3.9072	6.64225	4.38366
11:21:18				1443	10.28578	0.5813852	4.5267	3.51648	6.64225	4.5017
11:21:19				1444	10.31364	0.5759315	4.7234	2.34432	6.73993	4.45315
11:21:20				1447	10.24793	0.5372801	4.2315	2.73504	7.08181	4.14202

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:21:21				1448	10.23927	0.5579676	4.5267	2.6862	7.08181	4.31364
11:21:21				1449	10.27677	0.5379213	4.7234	1.51404	7.17949	4.144
11:21:22				1450	10.25947	0.5327905	4.6251	1.56288	7.22833	4.10375
11:21:22	11:19:58 start transect	13	270	1451	10.20266	0.5186796	4.3299	2.29548	7.17949	3.99403
11:21:23			270	1452	10.21132	0.5299035	4.3299	1.51404	7.17949	4.08541
11:21:23	11:19:59	12	270	1453	10.21517	0.5220475	4.5267	1.51404	7.37485	4.02033
11:21:24			270	1454	10.21228	0.521566	4.5267	1.51404	7.13065	4.01669
11:21:24	11:20:00	11	270	1455	10.20747	0.5355165	4.5267	1.56288	7.42369	4.13206
11:21:25			270	1456	10.22383	0.5230092	4.5267	1.51404	7.27717	4.02728
11:21:25			270	1457	10.21613	0.5201239	4.4283	1.56288	7.42369	4.00442
11:21:26			270	1458	10.20651	0.55043	4.4283	1.51404	7.47253	4.25522
11:21:26			270	1459	10.27869	0.5651846	4.5267	1.56288	7.57021	4.36857
11:21:27			270	1460	10.3499	0.543694	4.6251	1.51404	7.32601	4.18315
11:21:27	11:20:03	10	270	1461	10.30278	0.534234	4.5267	4.73748	7.22833	4.11075
11:21:28			270	1462	10.28542	0.519321	4.3299	1.51404	7.37485	3.99025
11:21:28			270	1463	10.26043	0.5252534	4.4283	1.56288	7.32601	4.04169
11:21:29			270	1464	10.25081	0.5279801	4.5267	1.56288	7.08181	4.06516
11:21:29			270	1465	10.25947	0.5303855	4.6251	1.51404	7.13065	4.08397
11:21:30			270	1466	10.26043	0.5186795	4.5267	1.51404	7.03297	3.9877
11:21:30			270	1467	10.21998	0.5084194	4.3299	1.56288	7.37485	3.9079
11:21:31			270	1468	10.20843	0.5388846	4.3299	1.51404	7.52137	4.15973
11:21:31	11:20:07	9	270	1469	10.25562	0.5292632	4.6251	1.51404	7.52137	4.07517
11:21:32			270	1470	10.26139	0.5244518	4.6251	1.51404	7.08181	4.03499
11:21:32			270	1471	10.23056	0.5092207	4.3299	1.56288	7.32601	3.91334
11:21:33			270	1472	10.21132	0.5351954	4.3299	1.56288	7.52137	4.12899
11:21:33			270	1473	10.21998	0.5379214	4.5267	1.51404	7.37485	4.15046
11:21:34			270	1474	10.23543	0.5242923	4.5267	1.51404	7.22833	4.03655
11:21:34			270	1475	10.21517	0.5159549	4.4283	1.51404	7.42369	3.97027
11:21:35			270	1476	10.18823	0.5097007	4.2315	1.56288	7.42369	3.92183
11:21:35	11:20:11	8	270	1477	10.19111	0.5496278	4.5267	1.56288	7.47253	4.25039
11:21:36			270	1478	10.271	0.5355164	4.6251	1.51404	7.13065	4.12487
11:21:36			270	1479	10.21902	0.5071358	4.3299	1.51404	7.13065	3.89747
11:21:37			270	1480	10.18053	0.5047308	4.2315	4.93284	7.37485	3.88185
11:21:37			270	1481	10.19304	0.5400058	4.6251	3.71184	7.42369	4.17072
11:21:38			270	1482	10.28542	0.514512	4.7234	1.4652	7.52137	3.95079
11:21:38	11:20:14	7	270	1483	10.18919	0.4930273	4.3299	9.76801	6.98413	3.78498
11:21:39			270	1484	10.16506	0.5419315	4.4283	2.78388	7.22833	4.18983
11:21:39			270	1485	10.1487	0.5005636	4.6251	1.56288	7.57021	3.85099
11:21:40			270	1486	10.14581	0.5008837	4.6251	1.56288	7.37485	3.85393
11:21:40			270	1487	10.13232	0.4968759	4.4283	3.80952	7.37485	3.82246
11:21:41			270	1488	10.14195	0.4906229	4.4283	3.85836	7.37485	3.77016
11:21:41			270	1489	10.1304	0.501685	4.6251	1.56288	7.81441	3.86214
11:21:42			270	1490	10.12847	0.4930274	4.6251	1.56288	7.57021	3.79127
11:21:42			270	1491	10.12558	0.4935096	4.5267	1.56288	7.66789	3.79553
11:21:43			270	1492	10.12847	0.4938301	4.4283	1.51404	7.57021	3.79787

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:21:43			270	1493	10.12847	0.5286218	4.6251	1.56288	7.37485	4.08411
11:21:44			270	1494	10.1564	0.5015257	4.6251	1.56288	8.00977	3.85808
11:21:44	11:20:20	6	270	1495	10.14484	0.5012038	4.5267	1.51404	7.13065	3.85666
11:21:45			270	1496	10.13232	0.4962339	4.3299	1.51404	7.71673	3.81719
11:21:45			270	1497	10.13618	0.5108245	4.3299	1.51404	7.57021	3.93667
11:21:46			270	1498	10.15447	0.5226887	4.8218	1.56288	8.00977	4.03229
11:21:46			270	1499	10.18149	0.5076169	4.7234	1.51404	7.52137	3.90541
11:21:47			270	1500	10.1487	0.4957525	4.2315	1.51404	7.37485	3.81154
11:21:47			270	1501	10.14099	0.4962339	4.0348	1.56288	7.32601	3.8163
11:21:48			270	1502	10.13907	0.5544393	4.4283	1.51404	8.20513	4.29629
11:21:48	11:20:24	5	270	1503	10.20555	0.544657	4.7234	1.61172	7.96093	4.20765
11:21:49			270	1504	10.19111	0.5071358	4.5267	1.51404	7.52137	3.90044
11:21:49			270	1505	10.14773	0.4935096	4.0348	1.51404	7.52137	3.79325
11:21:50			270	1506	10.14388	0.4938301	4.1331	1.56288	7.52137	3.79628
11:21:50			270	1507	10.14003	0.5703177	4.7234	1.56288	7.96093	4.42778
11:21:51			270	1508	10.21324	0.5177185	4.8218	1.56288	7.13065	3.98494
11:21:51			270	1509	10.16025	0.5005636	4.4283	1.51404	7.08181	3.84978
11:21:52			270	1510	10.15158	0.4939903	4.2315	2.10012	7.32601	3.79678
11:21:52			270	1511	10.14484	0.4957526	4.4283	2.10012	7.32601	3.81193
11:21:53			270	1512	10.14292	0.5358378	4.7234	1.56288	7.71673	4.14202
11:21:53	11:20:29	4	270	1513	10.14677	0.5010446	4.7234	1.51404	7.47253	3.85514
11:21:54			270	1514	10.14292	0.4968759	4.4283	1.51404	7.37485	3.82135
11:21:54			270	1515	10.14195	0.4930273	4.1331	1.56288	7.42369	3.7899
11:21:55			270	1516	10.14099	0.4970365	4.4283	1.51404	7.37485	3.82287
11:21:55			270	1517	10.14292	0.4951126	4.6251	1.51404	7.66789	3.80687
11:21:56			270	1518	10.14292	0.4941506	4.4283	1.56288	7.47253	3.79899
11:21:56			270	1519	10.14388	0.4930273	4.2315	1.51404	7.66789	3.78969
11:21:57			270	1520	10.14003	0.4930273	4.3299	1.56288	7.71673	3.79008
11:21:57			270	1521	10.14195	0.4933494	4.4283	1.51404	7.57021	3.79252
11:21:58			270	1522	10.14099	0.4933494	4.3299	1.51404	7.66789	3.79263
11:21:58			270	1523	10.14292	0.4936698	4.3299	1.56288	7.71673	3.79505
11:21:59			270	1524	10.14388	0.4936698	4.4283	1.51404	7.47253	3.79495
11:21:59	11:20:35	3	270	1525	10.14388	0.4935096	4.4283	1.51404	7.47253	3.79363
11:22:00			270	1526	10.14292	0.4933494	4.2315	1.51404	7.57021	3.79243
11:22:00			270	1527	10.14099	0.492707	4.3299	1.56288	7.71673	3.78736
11:22:01			270	1528	10.14099	0.4928672	4.4283	1.51404	7.47253	3.78866
11:22:01	11:20:37	2	270	1529	10.13907	0.492707	4.4283	1.51404	7.47253	3.78755
11:22:02			270	1530	10.14099	0.4928672	4.4283	1.56288	7.71673	3.78866
11:22:02			270	1531	10.1381	0.4938301	4.4283	1.51404	7.37485	3.79686
11:22:03			270	1532	10.14292	0.5029681	4.3299	1.56288	7.61905	3.87137
11:22:03	11:20:39 end transect	1	270	1533	10.15158	0.5037687	4.6251	1.51404	7.61905	3.877
11:22:04	repositioning			1534	10.15833	0.5021663	4.7234	1.51404	7.52137	3.86313
11:22:04				1535	10.15736	0.4991197	4.3299	1.56288	7.52137	3.83825
11:22:05				1536	10.1564	0.4978377	4.1331	1.51404	7.61905	3.82784
11:22:05				1537	10.15447	0.5058531	4.6251	1.51404	7.81441	3.89382

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:06				1538	10.15736	0.4997611	4.8218	1.51404	8.30281	3.84348
11:22:06				1539	10.15447	0.4984786	4.5267	1.56288	7.81441	3.83328
11:22:07				1540	10.15255	0.4965549	4.2315	1.56288	7.81441	3.81772
11:22:07				1541	10.15255	0.5002419	4.4283	1.56288	7.96093	3.84796
11:22:08				1542	10.15158	0.501685	4.6251	1.51404	8.10745	3.85989
11:22:08				1543	10.15158	0.4978377	4.6251	1.4652	7.91209	3.82832
11:22:09				1544	10.14966	0.4970365	4.6251	1.56288	8.30281	3.82195
11:22:09				1545	10.1487	0.4954334	4.5267	1.56288	7.91209	3.8089
11:22:10				1546	10.14484	0.4936698	4.4283	1.51404	7.71673	3.79485
11:22:10				1547	10.1304	0.4907829	4.3299	1.51404	7.52137	3.77268
11:22:11				1548	10.12462	0.5023273	4.4283	1.51404	7.91209	3.86804
11:22:11				1549	10.13618	0.5026477	4.7234	1.56288	8.40049	3.86943
11:22:12				1550	10.14388	0.4967154	4.7234	1.51404	7.76557	3.81991
11:22:12				1551	10.13136	0.4925469	4.1331	1.51404	7.61905	3.78706
11:22:13				1552	10.13136	0.4955938	4.0348	1.56288	7.57021	3.81206
11:22:13				1553	10.1381	0.4970365	4.2315	1.51404	7.91209	3.82318
11:22:14				1554	10.14773	0.5004028	4.5267	1.51404	7.71673	3.84978
11:22:14				1555	10.14966	0.498959	4.5267	1.51404	7.47253	3.83773
11:22:15				1556	10.14966	0.4973559	4.1331	1.51404	7.57021	3.8246
11:22:15				1557	10.14581	0.4943109	3.9364	1.56288	7.57021	3.80003
11:22:16				1558	10.14292	0.4983179	4.1331	1.56288	7.61905	3.8332
11:22:16				1559	10.1487	0.5042505	4.3299	1.56288	7.81441	3.88129
11:22:17				1560	10.1487	0.4976771	4.4283	1.4652	7.32601	3.82732
11:22:17				1561	10.1487	0.4960734	4.2315	1.56288	7.57021	3.81417
11:22:18				1562	10.14292	0.492707	4.0348	1.56288	7.61905	3.78717
11:22:18				1563	10.13907	0.497197	4.1331	1.51404	7.47253	3.8244
11:22:19				1564	10.13618	0.4994413	4.3299	1.51404	7.37485	3.84312
11:22:20				1567	10.13714	0.5430342	4.2315	1.51404	7.61905	4.20217
11:22:21				1568	10.17277	0.5529751	4.2315	1.51404	7.37485	4.28022
11:22:21				1569	10.18534	0.5425522	4.4283	1.56288	7.17949	4.19263
11:22:22				1570	10.19111	0.5415906	4.3299	1.51404	7.03297	4.18403
11:22:22				1571	10.20555	0.5460807	4.3299	1.51404	6.93529	4.21943
11:22:23				1572	10.20651	0.5494473	4.2315	1.51404	7.37485	4.24712
11:22:23				1573	10.19593	0.5619567	4.3299	1.56288	6.93529	4.35178
11:22:24				1574	10.17956	0.5566649	4.4283	1.56288	6.88645	4.30993
11:22:24				1575	10.18149	0.5549002	4.6251	1.51404	6.83761	4.29509
11:22:25				1576	10.1786	0.5515325	4.3299	1.51404	7.17949	4.2676
11:22:25				1577	10.17373	0.5574666	4.2315	1.51404	7.37485	4.31727
11:22:26				1578	10.15158	0.5584278	4.3299	1.56288	6.88645	4.32785
11:22:26				1579	10.14484	0.5606736	4.4283	1.56288	6.78877	4.34725
11:22:27				1580	10.15158	0.5866548	4.4283	1.51404	7.08181	4.56211
11:22:27				1581	10.17469	0.5771923	4.4283	1.51404	7.03297	4.48062
11:22:28				1582	10.18245	0.5698151	4.5267	1.51404	6.83761	4.41848
11:22:28				1583	10.16218	0.6068661	4.5267	1.56288	6.98413	4.72905
11:22:29				1584	10.28254	0.6078287	4.6251	1.51404	6.69109	4.72146

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:29				1585	10.38541	0.6004501	4.7234	1.51404	6.44689	4.64706
11:22:30				1586	10.35176	0.6389517	4.7234	18.60806	6.25153	4.97124
11:22:30				1587	10.44015	0.6601308	4.8218	12.45421	6.30037	5.13548
11:22:31				1588	10.61748	0.6301274	4.9202	29.49939	5.95849	4.86236
11:22:31				1589	10.5581	0.6383085	4.9202	37.8022	5.66545	4.93796
11:22:32				1590	10.60499	0.6665483	5.0186	23.5409	5.86081	5.16568
11:22:32				1591	10.56767	0.6955948	5.117	28.22955	5.61661	5.41278
11:22:33				1592	10.5648	0.7182236	5.2153	23.73626	5.27473	5.60223
11:22:33				1593	10.45549	0.7267317	5.4121	12.64957	5.03053	5.69038
11:22:34				1594	10.36622	0.68067	5.5105	4.49328	4.83516	5.31754
11:22:34				1595	10.38733	0.7089147	5.4121	1.56288	5.12821	5.55123
11:22:35				1596	10.41228	0.7325089	5.5105	1.56288	5.03053	5.74569
11:22:35				1597	10.27292	0.7267321	5.8056	1.51404	4.884	5.71885
11:22:36				1598	10.24024	0.7349186	5.904	1.51404	4.884	5.79317
11:22:36				1599	10.26043	0.7390918	6.0024	1.56288	5.22589	5.82524
11:22:37				1600	10.21613	0.7378075	6.1008	1.56288	5.17705	5.82143
11:22:37				1601	10.11203	0.7357213	6.1992	1.51404	5.12821	5.82038
11:22:38				1602	10.14292	0.7760147	6.1992	1.51404	5.42125	6.15796
11:22:38				1603	10.058	0.758516	6.3959	1.56288	5.47009	6.02304
11:22:39				1604	10.05414	0.781634	6.4943	1.51404	5.47009	6.22099
11:22:39				1605	10.07059	0.7944794	6.4943	1.51404	5.17705	6.32799
11:22:40				1606	10.08409	0.7443888	6.5927	1.4652	5.32357	5.89848
11:22:40				1607	10.10625	0.7419808	6.4943	1.51404	5.37241	5.87444
11:22:41				1608	10.13232	0.7673452	6.4943	1.56288	5.37241	6.08587
11:22:41				1609	10.10529	0.811339	6.6911	1.51404	5.37241	6.46616
11:22:42				1610	10.12654	0.7745695	6.7895	1.51404	5.22589	6.14836
11:22:42				1611	10.1024	0.7758557	6.5927	1.51404	4.6398	6.16343
11:22:43				1612	10.0783	0.7728036	6.3959	1.56288	5.22589	6.14148
11:22:43				1613	10.08698	0.7973703	6.5927	1.56288	5.47009	6.34985
11:22:44				1614	10.09951	0.7766573	6.5927	1.51404	5.12821	6.17075
11:22:44				1615	10.10143	0.7850056	6.6911	1.51404	5.37241	6.24167
11:22:45				1616	10.09662	0.7911075	6.6911	1.51404	5.51893	6.29462
11:22:45				1617	10.10336	0.8004198	6.6911	1.56288	5.12821	6.37306
11:22:46				1618	10.12462	0.7952814	6.8878	1.51404	5.32357	6.32541
11:22:46				1619	10.13425	0.7911074	6.7895	1.51404	5.17705	6.2881
11:22:47				1620	10.12558	0.8086098	6.7895	1.51404	4.78632	6.4392
11:22:47				1621	10.17571	0.8009021	6.9862	1.51404	4.83516	6.36449
11:22:48				1622	10.17277	0.7936773	6.8878	1.51404	4.884	6.30336
11:22:48				1623	10.11396	0.7877365	6.5927	1.51404	4.98168	6.26284
11:22:49				1624	10.1198	0.8137477	6.7895	1.51404	5.17705	6.4842
11:22:49				1625	10.1863	0.8025071	6.9862	1.56288	5.51893	6.37634
11:22:50				1626	10.18053	0.7962462	6.8878	1.51404	4.83516	6.32393
11:22:50				1627	10.11787	0.7809919	6.2976	1.51404	4.78632	6.20464
11:22:51				1628	10.05125	0.7541815	6.1992	1.51404	5.07937	5.98724
11:22:51				1629	10.03678	0.7697536	6.1992	1.56288	5.32357	6.12247

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:22:52				1630	10.03871	0.7580347	6.3959	1.56288	5.42125	6.02214
11:22:52				1631	10.00687	0.7516133	6.1992	1.51404	5.37241	5.97265
11:22:53				1632	9.98654	0.7360419	6.1008	1.51404	5.61661	5.84325
11:22:53				1633	9.9904	0.7466368	6.3959	1.51404	5.81197	5.93289
11:22:54				1634	9.96144	0.740055	6.4943	1.56288	5.66545	5.88147
11:22:54				1635	9.96048	0.7384493	6.3959	1.56288	5.51893	5.86795
11:22:55				1636	9.97785	0.7373273	6.2976	1.51404	5.47009	5.85559
11:22:55				1637	9.97399	0.7363641	6.3959	1.51404	5.71429	5.84799
11:22:56				1638	9.97979	0.7357216	6.1992	1.51404	5.42125	5.8416
11:22:56				1639	10.01266	0.7384492	6.1992	1.51404	5.32357	5.85954
11:22:57				1640	10.00784	0.7448713	6.3959	1.51404	5.47009	5.915
11:22:57				1641	9.98075	0.7376478	6.4943	1.56288	5.32357	5.85783
11:22:58				1642	10.02134	0.7382888	6.2976	1.56288	5.42125	5.85676
11:22:58				1643	10.0281	0.7390924	6.2976	1.51404	5.32357	5.86251
11:22:59				1644	10.04739	0.7392527	6.3959	1.51404	5.42125	5.86075
11:22:59				1645	10.02906	0.7374874	6.3959	1.4652	5.22589	5.84869
11:23:00				1646	10.04353	0.7379682	6.3959	1.56288	5.51893	5.85045
11:23:00				1647	10.05998	0.7365241	6.2976	1.56288	5.37241	5.83553
11:23:01				1648	10.09951	0.7362018	6.3959	1.51404	5.37241	5.82645
11:23:01				1649	10.13907	0.735239	6.3959	1.51404	5.32357	5.81195
11:23:02				1650	10.14773	0.7326714	6.2976	1.51404	4.98168	5.78881
11:23:02				1651	10.17469	0.7318682	6.2976	1.56288	4.98168	5.77772
11:23:03				1652	10.18823	0.735561	6.2976	1.51404	5.22589	5.80685
11:23:03				1653	10.18534	0.733153	6.2976	1.51404	5.12821	5.78691
11:23:04				1654	10.20074	0.7288179	6.2976	1.56288	5.12821	5.74778
11:23:04				1655	10.22479	0.7309054	6.2976	1.51404	5.07937	5.76164
11:23:05				1656	10.23441	0.7297815	6.2976	1.56288	4.83516	5.75062
11:23:05				1657	10.24601	0.7336346	6.2976	1.51404	5.03053	5.78136
11:23:06				1658	10.25081	0.7394126	6.3959	1.51404	5.32357	5.82945
11:23:06				1659	10.22767	0.7313867	6.4943	1.56288	5.12821	5.76524
11:23:07				1660	10.24312	0.731868	6.3959	1.51404	4.884	5.76687
11:23:07				1661	10.24793	0.7301028	6.3959	1.51404	4.98168	5.7512
11:23:08				1662	10.25466	0.7299412	6.3959	1.4652	4.98168	5.74877
11:23:08				1663	10.25274	0.7325094	6.3959	1.56288	4.93284	5.77077
11:23:09				1664	10.23441	0.7386109	6.4943	1.56288	5.03053	5.82528
11:23:09				1665	10.21613	0.7333129	6.3959	1.51404	4.98168	5.78337
11:23:10				1666	10.24793	0.7297814	6.2976	1.51404	4.98168	5.74849
11:23:10				1667	10.23927	0.7498472	6.3959	1.51404	5.07937	5.91964
11:23:11				1668	10.16988	0.7387714	6.4943	1.56288	5.47009	5.83697
11:23:11				1669	10.17571	0.7408568	6.4943	1.51404	5.07937	5.85371
11:23:12				1670	10.2017	0.735399	6.3959	1.51404	5.12821	5.80332
11:23:12				1671	10.18823	0.7408568	6.3959	1.51404	5.51893	5.85171
11:23:13				1672	10.19015	0.7370044	6.3959	1.51404	4.78632	5.81876
11:23:13				1673	10.19111	0.739894	6.3959	1.51404	4.884	5.84308
11:23:14				1674	10.18726	0.7458339	6.4943	1.51404	4.83516	5.89405

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:14				1675	10.16892	0.7398941	6.4943	1.51404	4.884	5.84664
11:23:15				1676	10.18149	0.737487	6.3959	1.51404	5.22589	5.82423
11:23:15				1677	10.21421	0.7345967	6.2976	1.51404	4.93284	5.79455
11:23:16				1678	10.21132	0.749525	6.2976	1.51404	4.884	5.92146
11:23:16				1679	10.15255	0.7477593	6.5927	1.4652	5.03053	5.916
11:23:17				1680	10.10047	0.7427838	6.4943	1.56288	5.03053	5.88219
11:23:17				1681	10.15062	0.7406964	6.2976	1.56288	5.22589	5.8564
11:23:18				1682	10.17084	0.7390921	6.1992	1.51404	5.37241	5.83956
11:23:18				1683	10.16795	0.7471173	6.2976	1.51404	5.17705	5.90808
11:23:19				1684	10.14388	0.7439084	6.4943	1.51404	5.12821	5.88473
11:23:20				1687	10.16392	0.7419657	6.2976	1.51404	5.22589	5.86503
11:23:21				1688	10.15526	0.7406815	6.3959	1.56288	5.47009	5.85552
11:23:21				1689	10.15429	0.741484	6.3959	1.51404	5.12821	5.86248
11:23:22				1690	10.15622	0.7424475	6.3959	1.56288	5.07937	5.87035
11:23:22				1691	10.14852	0.7450149	6.3959	1.51404	4.98168	5.89338
11:23:23				1692	10.14852	0.7403605	6.3959	1.51404	5.22589	5.85388
11:23:23				1693	10.1514	0.7366692	6.3959	1.56288	5.27473	5.82211
11:23:24				1694	10.17072	0.7400396	6.2976	1.56288	5.22589	5.8476
11:23:24				1695	10.14852	0.7514367	6.3959	1.51404	5.03053	5.94791
11:23:25				1696	10.13792	0.7429294	6.3959	1.51404	5.42125	5.87739
11:23:25				1697	10.13889	0.741163	6.2976	1.56288	5.03053	5.86225
11:23:26				1698	10.17457	0.7395583	6.1008	1.56288	5.37241	5.84292
11:23:26				1699	10.16585	0.7604254	6.4943	1.51404	4.98168	6.02143
11:23:27				1700	10.14274	0.7438916	6.5927	1.51404	5.12821	5.88476
11:23:27				1701	10.14659	0.7382736	6.2976	1.51404	5.27473	5.8365
11:23:28				1702	10.17457	0.7318533	6.1008	1.56288	5.12821	5.77763
11:23:28	11:22:04 start transect	11	270	1703	10.19574	0.7588204	6.3959	1.51404	5.07937	6.00287
11:23:29			270	1704	10.17938	0.7381133	6.6911	1.51404	5.07937	5.82985
11:23:29			270	1705	10.18227	0.7361867	6.3959	1.51404	5.17705	5.81309
11:23:30			270	1706	10.19671	0.732173	6.1008	1.51404	5.27473	5.77683
11:23:30			270	1707	10.1919	0.7541662	6.2976	1.56288	5.17705	5.964
11:23:31			270	1708	10.14466	0.750955	6.5927	1.51404	5.32357	5.94443
11:23:31			270	1709	10.1254	0.7418052	6.4943	1.51404	5.42125	5.86986
11:23:32			270	1710	10.16976	0.7334581	6.1008	1.51404	5.32357	5.79199
11:23:32			270	1711	10.18227	0.7495101	6.1008	1.56288	5.17705	5.92608
11:23:33			270	1712	10.13696	0.74309	6.3959	1.56288	5.37241	5.87891
11:23:33			270	1713	10.11769	0.7426082	6.4943	1.4652	5.37241	5.87792
11:23:34			270	1714	10.14852	0.7422869	6.2976	1.51404	5.56777	5.87023
11:23:34			270	1715	10.162	0.7377927	6.1008	1.56288	5.27473	5.82997
11:23:35			270	1716	10.14852	0.7474224	6.1008	1.51404	5.17705	5.91384
11:23:35			270	1717	10.14177	0.7438916	6.2976	1.51404	5.03053	5.88494
11:23:36			270	1718	10.13022	0.7426081	6.2976	1.51404	5.17705	5.87591
11:23:36	11:22:12	10	270	1719	10.14755	0.7400396	6.1992	1.56288	5.32357	5.85133
11:23:37			270	1720	10.16007	0.7472633	6.0024	1.56288	5.22589	5.91063
11:23:37			270	1721	10.11769	0.7575363	6.1008	1.51404	5.32357	6.00485

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:23:38			270	1722	10.05209	0.7479055	6.1992	1.51404	5.32357	5.93365
11:23:38	11:22:14	9	270	1723	10.0598	0.752881	6.1992	1.51404	5.47009	5.97475
11:23:39			270	1724	10.0868	0.7509551	6.0024	1.56288	5.42125	5.95395
11:23:39			270	1725	10.04721	0.758501	6.0024	1.51404	5.47009	6.02474
11:23:40			270	1726	10.02985	0.7546471	6.1008	1.51404	5.27473	5.99474
11:23:40	11:22:16	8	270	1727	10.03756	0.7556104	6.1008	1.56288	5.27473	6.00168
11:23:41			270	1728	10.05305	0.7557701	6.0024	1.51404	5.32357	6.00049
11:23:41			270	1729	10.0598	0.7573766	6.1008	1.51404	5.22589	6.01306
11:23:42			270	1730	10.07041	0.7591423	6.1008	1.4652	5.07937	6.02635
11:23:42			270	1731	10.07041	0.7581794	6.1008	1.51404	5.27473	6.01814
11:23:43			270	1732	10.08005	0.7631563	6.0024	1.56288	5.42125	6.05896
11:23:43			270	1733	10.07234	0.7615495	6.0024	1.51404	5.32357	6.04655
11:23:44			270	1734	10.06463	0.7599457	6.1008	1.51404	5.17705	6.03416
11:23:44	11:22:20	7	270	1735	10.07234	0.7572149	6.0024	1.51404	5.37241	6.00962
11:23:45			270	1736	10.07523	0.7618715	6.0024	1.56288	5.27473	6.04882
11:23:45	11:22:21	6	270	1737	10.05209	0.758501	6.1008	1.56288	5.12821	6.02392
11:23:46			270	1738	10.05016	0.7578579	6.1008	1.51404	5.42125	6.01876
11:23:46			270	1739	10.05402	0.7581794	6.0024	1.56288	5.37241	6.02087
11:23:47			270	1740	10.03853	0.7581795	6.1008	1.51404	5.22589	6.02343
11:23:47	11:22:23	5	270	1741	10.03178	0.757858	6.1008	1.56288	5.17705	6.0218
11:23:48			270	1742	10.03949	0.7564126	6.1008	1.51404	5.32357	6.0082
11:23:48			270	1743	10.04528	0.7557701	6.0024	1.51404	5.32357	6.00178
11:23:49			270	1744	10.04721	0.7557701	6.0024	1.51404	5.37241	6.00146
11:23:49	11:22:25	4	270	1745	10.04142	0.7576981	6.0024	1.56288	5.42125	6.01885
11:23:50			270	1746	10.02213	0.7581795	6.1008	1.51404	5.03053	6.02615
11:23:50			270	1747	10.01344	0.7575365	6.1992	1.51404	5.17705	6.02209
11:23:51			270	1748	10.05305	0.7559316	6.0024	1.51404	5.07937	6.00187
11:23:51			270	1749	10.09065	0.7514368	5.904	1.56288	5.22589	5.95742
11:23:52			270	1750	10.12829	0.7604255	6.1992	1.51404	5.17705	6.02767
11:23:52	11:22:28	3	270	1751	10.12058	0.7527214	6.2976	1.51404	5.17705	5.96341
11:23:53			270	1752	10.13792	0.7499916	5.904	1.4652	5.47009	5.93741
11:23:53			270	1753	10.12636	0.7519186	5.904	1.51404	5.32357	5.95567
11:23:54			270	1754	10.03081	0.7573767	6.2976	1.56288	5.51893	6.01784
11:23:54	11:22:30	2	270	1755	10.00187	0.7538457	6.2976	1.51404	5.42125	5.99251
11:23:55			270	1756	10.03949	0.7499919	5.904	1.56288	5.51893	5.9535
11:23:55			270	1757	10.03467	0.7637972	6.1008	1.51404	5.42125	6.07199
11:23:56			270	1758	9.9796	0.7567341	6.2976	1.56288	5.61661	6.02085
11:23:56			270	1759	9.97478	0.7576983	6.2976	1.56288	5.56777	6.02988
11:23:57			270	1760	9.96995	0.7628344	6.2976	1.51404	5.56777	6.07458
11:23:57	11:22:33	1	270	1761	9.95643	0.7636372	6.2976	1.56288	5.51893	6.0837
11:23:58	end transect		270	1762	9.94967	0.7695781	6.3959	1.51404	5.86081	6.13566
11:23:58				1763	9.95933	0.7753578	6.3959	1.56288	5.56777	6.1835
11:23:59				1764	9.99607	0.7695779	6.4943	1.4652	5.27473	6.12781
11:23:59				1765	10.00187	0.764921	6.3959	1.51404	5.22589	6.08705
11:24:00				1766	9.98347	0.7654038	6.2976	1.56288	5.22589	6.09427

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:00				1767	9.98443	0.7618718	6.2976	1.51404	5.37241	6.06393
11:24:01				1768	9.98154	0.7617117	6.3959	1.51404	5.71429	6.06303
11:24:01				1769	9.98154	0.7589827	6.2976	1.51404	5.76313	6.03973
11:24:02				1770	9.98057	0.7585012	6.3959	1.51404	5.76313	6.03577
11:24:02				1771	9.97092	0.758661	6.1992	1.56288	5.56777	6.03876
11:24:03				1772	9.95643	0.7578581	6.1992	1.51404	5.47009	6.03431
11:24:03				1773	9.93615	0.760266	6.1992	1.51404	5.37241	6.05827
11:24:04				1774	9.93808	0.7543263	6.1992	1.51404	5.47009	6.00717
11:24:04				1775	9.96705	0.7540053	6.1992	1.56288	5.32357	5.99963
11:24:05				1776	9.96223	0.7511166	6.1008	1.56288	5.47009	5.97577
11:24:05				1777	9.97864	0.7511165	6.0024	1.51404	5.47009	5.97307
11:24:06				1778	10.02309	0.7506347	6.0024	1.51404	5.32357	5.96166
11:24:06				1779	10.07137	0.7511163	6.1992	1.51404	5.12821	5.95783
11:24:07				1780	10.0492	0.7511164	6.1992	1.56288	5.12821	5.96146
11:24:07				1781	10.04142	0.750153	6.1992	1.51404	5.22589	5.95453
11:24:08				1782	9.99993	0.7528812	6.0024	1.51404	5.27473	5.98462
11:24:08				1783	10.00283	0.773591	6.1992	1.51404	5.27473	6.16101
11:24:09				1784	10.03563	0.7729494	6.3959	1.51404	5.51893	6.14994
11:24:09				1785	10.04528	0.7676512	6.3959	1.56288	5.22589	6.10308
11:24:10				1786	10.04721	0.7597839	6.1008	1.51404	5.32357	6.03567
11:24:10				1787	10.04624	0.769096	6.1008	1.51404	5.47009	6.11528
11:24:11				1788	10.01055	0.7708613	6.3959	1.56288	5.37241	6.13635
11:24:11				1789	10.00669	0.768775	6.4943	1.56288	5.47009	6.11916
11:24:12				1790	10.00476	0.7690961	6.2976	1.51404	5.37241	6.12225
11:24:12				1791	10.00187	0.7718257	6.1008	1.51404	5.27473	6.14609
11:24:13				1792	10.00669	0.784829	6.3959	1.51404	5.56777	6.25648
11:24:13				1793	10.01923	0.7774442	6.5927	1.56288	5.47009	6.19113
11:24:14				1794	10.02406	0.7750356	6.3959	1.51404	5.32357	6.16973
11:24:14				1795	10.02116	0.7687749	6.1008	1.51404	5.42125	6.11676
11:24:15				1796	10.0202	0.7804947	6.1008	1.51404	5.32357	6.2171
11:24:15				1797	10.02309	0.7933398	6.5927	1.56288	5.56777	6.3265
11:24:16				1798	10.05788	0.7865963	6.6911	1.51404	5.12821	6.26275
11:24:16				1799	10.04528	0.7764811	6.2976	1.51404	5.22589	6.17849
11:24:17				1800	10.04528	0.7700597	6.0024	1.51404	5.32357	6.12367
11:24:17				1801	10.04624	0.7848288	6.2976	1.51404	5.51893	6.24968
11:24:18				1802	10.04431	0.785312	6.6911	1.56288	5.47009	6.2541
11:24:18				1803	10.05305	0.7820994	6.5927	1.51404	5.22589	6.22514
11:24:19				1804	10.05113	0.7721452	6.2976	1.51404	5.32357	6.14047
11:24:20				1807	10.04853	0.7785933	6.3959	1.56288	5.07937	6.19597
11:24:21				1808	10.04468	0.7883861	6.3959	1.4652	5.22589	6.28036
11:24:21				1809	10.05625	0.7748992	6.4943	1.51404	5.37241	6.1631
11:24:22				1810	10.05432	0.7739373	6.3959	1.56288	5.37241	6.15522
11:24:22				1811	10.04757	0.7732938	6.2976	1.51404	5.47009	6.15088
11:24:23				1812	10.04371	0.7776299	6.2976	1.51404	5.47009	6.18857
11:24:23				1813	10.03401	0.7742573	6.5927	1.51404	5.51893	6.16138

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:24				1814	10.03304	0.772974	6.4943	1.51404	5.22589	6.15058
11:24:24				1815	10.03594	0.7718502	6.2976	1.56288	5.56777	6.14051
11:24:25				1816	10.0369	0.772974	6.2976	1.56288	5.37241	6.14995
11:24:25				1817	10.03594	0.7737765	6.3959	1.51404	5.42125	6.15696
11:24:26				1818	10.03497	0.7800373	6.4943	1.4652	5.32357	6.21062
11:24:26				1819	10.0369	0.7769872	6.4943	1.56288	5.37241	6.18422
11:24:27				1820	10.03985	0.7724915	6.3959	1.56288	5.17705	6.14532
11:24:27				1821	10.03594	0.7769872	6.2976	1.51404	5.32357	6.1844
11:24:28				1822	10.04564	0.7964146	6.3959	1.56288	5.56777	6.34891
11:24:28				1823	10.06782	0.7835701	6.5927	1.51404	5.86081	6.23518
11:24:29				1824	10.06975	0.7842127	6.3959	1.56288	4.83516	6.24036
11:24:29				1825	10.05046	0.7790732	6.1992	1.51404	5.17705	6.19976
11:24:30				1826	10.05625	0.8042823	6.2976	1.51404	5.61661	6.41445
11:24:30				1827	10.11799	0.8103853	6.4943	1.56288	5.47009	6.45576
11:24:31				1828	10.1363	0.789832	6.4943	1.51404	4.78632	6.27689
11:24:31				1829	10.11029	0.7930418	6.3959	1.51404	4.68864	6.30881
11:24:32				1830	10.07071	0.7854964	6.1992	1.4652	5.07937	6.25119
11:24:32				1831	10.05721	0.8171285	6.2976	1.51404	5.37241	6.52442
11:24:33				1832	10.10643	0.7956119	6.4943	1.51404	5.32357	6.33143
11:24:33				1833	10.10065	0.7925609	6.3959	1.56288	4.78632	6.30637
11:24:34				1834	10.05818	0.7753822	6.1008	1.51404	5.17705	6.16693
11:24:34				1835	10.05432	0.7859778	6.1992	1.4652	5.27473	6.25812
11:24:35				1836	10.02822	0.7859779	6.4943	1.51404	5.27473	6.26259
11:24:35				1837	10.05818	0.7854965	6.5927	1.56288	4.93284	6.2533
11:24:36				1838	10.04178	0.7787526	6.1992	1.51404	5.12821	6.1985
11:24:36				1839	10.04468	0.7734546	6.0024	1.51404	5.17705	6.15277
11:24:37				1840	10.0466	0.8118295	6.3959	1.51404	5.37241	6.48085
11:24:37				1841	10.08421	0.7869408	6.6911	1.56288	5.32357	6.26116
11:24:38				1842	10.07264	0.7773075	6.3959	1.51404	4.884	6.18089
11:24:38				1843	10.04564	0.7742573	5.904	1.51404	5.12821	6.15947
11:24:39				1844	10.0369	0.7626985	5.6089	1.56288	5.37241	6.06229
11:24:39				1845	10.03594	0.7543504	5.4121	1.51404	5.47009	5.99127
11:24:40				1846	10.02532	0.7511389	5.3137	1.56288	5.27473	5.96565
11:24:40				1847	10.08035	0.74857	5.0186	1.51404	5.37241	5.9348
11:24:41				1848	10.33267	0.7413472	4.4283	1.51404	5.32357	5.83289
11:24:41				1849	10.41437	0.668641	4.1331	1.51404	5.37241	5.21016
11:24:42				1850	10.42205	0.6866156	4.1331	18.31502	5.22589	5.35926
11:24:42				1851	10.4115	0.6302945	4.0348	13.57753	4.98168	4.89122
11:24:43				1852	10.30097	0.5355028	3.6412	9.42613	5.12821	4.12144
11:24:43				1853	10.22785	0.5355029	3.3461	4.20024	5.56777	4.12972
11:24:44				1854	10.21336	0.503918	3.3461	1.56288	6.25153	3.87174
11:24:44				1855	10.18065	0.4957409	3.2477	1.56288	7.32601	3.80816
11:24:45				1856	10.15074	0.4947802	2.8542	1.51404	7.37485	3.80343
11:24:45				1857	10.12955	0.48965	2.4606	1.51404	7.37485	3.76358
11:24:46				1858	10.12474	0.4878856	2.4606	1.56288	7.61905	3.74962

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:24:46				1859	10.11029	0.4856427	2.4606	1.56288	7.76557	3.73271
11:24:47				1860	10.10451	0.4861229	2.1655	1.56288	7.52137	3.73726
11:24:47				1861	10.11029	0.4862825	1.772	1.51404	7.71673	3.738
11:24:48				1862	10.11029	0.4851608	1.6736	1.51404	7.61905	3.72881
11:24:48				1863	10.10547	0.4882067	1.6736	1.56288	7.86325	3.75428
11:24:49				1864	10.10932	0.4886877	1.5752	1.51404	7.37485	3.75783
11:24:49				1865	10.12185	0.4891688	1.2801	1.51404	7.42369	3.7605
11:24:50				1866	10.12185	0.4886877	1.0833	1.51404	7.61905	3.75657
11:24:50				1867	10.11992	0.4878856	0.9849	1.51404	7.47253	3.7502
11:24:51				1868	10.11607	0.4882067	0.8865	1.56288	7.52137	3.75323
11:24:51				1869	10.1151	0.4859633	0.8865	1.51404	7.47253	3.73494
11:24:52				1870	10.1151	0.4840382	0.8865	1.51404	7.32601	3.71916
11:24:52				1871	10.1074	0.4825962	0.7881	1.56288	7.47253	3.70813
11:24:53				1872	10.09969	0.4856426	0.7881	1.51404	7.37485	3.73389
11:24:53				1873	10.10161	0.4845197	0.8865	1.51404	7.47253	3.72448
11:24:54				1874	10.09969	0.4850013	0.6898	1.51404	7.52137	3.72864
11:24:54				1875	10.1074	0.1592942	0.5914	1.51404	24.42002	1.14704
11:24:55				1876	10.17872	0.3065247	0.5914	2.10012	8.30281	2.28422
11:24:55				1877	10.2692	0.4825959	0.5914	0	0	3.69173
11:24:56				1878	10.32211	0.4838785	0.5914	0	0	3.69685
11:24:56				1879	10.35002	0.4841989	0.5914	0	0	3.69663
11:24:57				1880	10.4115	0.4843598	0.6898	0	0	3.69173
11:24:57	11:23:38 switch off			1881	10.47675	0.1864867	0.5914	0	0	1.34037
11:33:23	11:31:55 switch on			7	10.17577	0.4965861	1.3784	0	0	3.81571
11:33:24				8	10.18059	0.4943421	1.2801	0	0	3.79682
11:33:24				9	10.18059	0.4940199	1.2801	0	0	3.79418
11:33:25				10	10.17577	0.4940199	1.2801	0	0	3.79468
11:33:25				11	10.16711	0.4965861	1.2801	0	0	3.81662
11:33:26				12	10.16422	0.4965862	1.3784	0	0	3.81692
11:33:26				13	10.17192	0.4943421	1.2801	0	0	3.79772
11:33:27				14	10.17674	0.4945024	1.1817	0	0	3.79854
11:33:27				15	10.17481	0.4953026	1.2801	0	0	3.80529
11:33:28				16	10.17577	0.4969072	1.3784	0	0	3.81834
11:33:28				17	10.17577	0.4953026	1.3784	0	0	3.80519
11:33:29				18	10.17577	0.4951422	1.2801	0	0	3.80388
11:33:29				19	10.17866	0.4961047	1.2801	0	0	3.81147
11:33:30				20	10.17192	0.4962652	1.3784	0	0	3.81348
11:33:30				21	10.17096	0.4964256	1.3784	0	0	3.8149
11:33:31				22	10.17481	0.4951422	1.2801	0	0	3.80398
11:33:31				23	10.17674	0.495463	1.2801	0	0	3.80641
11:33:32				24	10.17866	0.4967466	1.2801	0	0	3.81673
11:33:32				25	10.17866	0.4967466	1.3784	0	0	3.81672
11:33:33				26	10.17962	0.4957838	1.3784	0	0	3.80873
11:33:33				27	10.17962	0.4949835	1.2801	0	0	3.80218

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:34				28	10.17674	0.4961047	1.2801	0	0	3.81167
11:33:34				29	10.16711	0.4965861	1.3784	0	0	3.81662
11:33:35				30	10.17192	0.4961047	1.3784	0	0	3.81217
11:33:35				31	10.1777	0.4956234	1.2801	0	0	3.80762
11:33:36				32	10.18155	0.4954629	1.2801	0	0	3.80591
11:33:36				33	10.18059	0.4967466	1.2801	0	0	3.81653
11:33:37				34	10.18347	0.4965861	1.3784	0	0	3.8149
11:33:37				35	10.17866	0.4961047	1.3784	0	0	3.81146
11:33:38				36	10.17962	0.4956234	1.2801	0	0	3.80742
11:33:38				37	10.17866	0.4959442	1.2801	0	0	3.81015
11:33:39				38	10.16904	0.4965861	1.2801	0	0	3.81642
11:33:39				39	10.16615	0.4965861	1.3784	0	0	3.81672
11:33:40				40	10.16904	0.4956234	1.3784	0	0	3.80852
11:33:40				41	10.17192	0.4956234	1.3784	0	0	3.80822
11:33:41				42	10.17192	0.4948231	1.2801	0	0	3.80167
11:33:41				43	10.17	0.4962652	1.2801	0	0	3.81369
11:33:42				44	10.16807	0.4962652	1.3784	0	0	3.81388
11:33:42				45	10.16904	0.4949835	1.3784	0	0	3.80328
11:33:43				46	10.17	0.4948231	1.2801	0	0	3.80187
11:33:43				47	10.16615	0.4959442	1.3784	0	0	3.81145
11:33:44				48	10.16518	0.4961047	1.3784	0	0	3.81287
11:33:44				49	10.16711	0.4953026	1.2801	0	0	3.8061
11:33:45				50	10.16904	0.4953026	1.2801	0	0	3.8059
11:33:45				51	10.16711	0.4962652	1.3784	0	0	3.81398
11:33:46				52	10.16326	0.4962652	1.3784	0	0	3.81439
11:33:46				53	10.1623	0.4953026	1.3784	0	0	3.80659
11:33:47				54	10.16518	0.4953026	1.2801	0	0	3.8063
11:33:47				55	10.16615	0.4959442	1.2801	0	0	3.81146
11:33:48				56	10.16518	0.4957838	1.2801	0	0	3.81024
11:33:48				57	10.16615	0.4962652	1.3784	0	0	3.81409
11:33:49				58	10.16711	0.4961047	1.3784	0	0	3.81267
11:33:49				59	10.17	0.4945025	1.2801	0	0	3.79924
11:33:50				60	10.17385	0.4946628	1.1817	0	0	3.80016
11:33:50				61	10.17289	0.4953026	1.2801	0	0	3.8055
11:33:51				62	10.17289	0.4957838	1.4768	0	0	3.80943
11:33:51				63	10.17674	0.4951422	1.3784	0	0	3.80377
11:33:52				64	10.17674	0.4949835	1.2801	0	0	3.80248
11:33:52				65	10.17289	0.4956234	1.2801	0	0	3.80813
11:33:53				66	10.17192	0.495463	1.2801	0	0	3.80691
11:33:53				67	10.17289	0.4948231	1.2801	0	0	3.80157
11:33:54				68	10.17192	0.4959442	1.3784	0	0	3.81085
11:33:54				69	10.17481	0.4956234	1.3784	0	0	3.80792
11:33:55				70	10.18251	0.4953025	1.2801	0	0	3.80449
11:33:55				71	10.18251	0.4954629	1.2801	0	0	3.80581
11:33:56				72	10.18155	0.4957838	1.3784	0	0	3.80853

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:33:56				73	10.18059	0.4957838	1.3784	0	0	3.80863
11:33:57				74	10.1854	0.4957838	1.2801	0	0	3.80813
11:33:57				75	10.1854	0.4959442	1.2801	0	0	3.80945
11:33:58				76	10.18829	0.4959442	1.2801	0	0	3.80915
11:33:58				77	10.18732	0.4959442	1.3784	0	0	3.80924
11:33:59				78	10.18829	0.4961047	1.3784	0	0	3.81046
11:33:59				79	10.18925	0.4962651	1.3784	0	0	3.81167
11:34:00				80	10.19117	0.4962651	1.3784	0	0	3.81147
11:34:00				81	10.18925	0.4962651	1.2801	0	0	3.81168
11:34:01				82	10.18829	0.4962651	1.2801	0	0	3.81178
11:34:01				83	10.18636	0.4959442	1.2801	0	0	3.80935
11:34:02				84	10.18347	0.4962651	1.3784	0	0	3.81227
11:34:02				85	10.18347	0.4964256	1.3784	0	0	3.81359
11:34:03				86	10.18444	0.4961047	1.2801	0	0	3.81086
11:34:03				87	10.1854	0.4959442	1.2801	0	0	3.80945
11:34:04				88	10.18155	0.4961047	1.2801	0	0	3.81117
11:34:04				89	10.18155	0.4962651	1.3784	0	0	3.81247
11:34:05				90	10.18155	0.4965861	1.3784	0	0	3.81511
11:34:05				91	10.18059	0.4962651	1.2801	0	0	3.81258
11:34:06				92	10.18347	0.4970677	1.1817	0	0	3.81886
11:34:06				93	10.18251	0.4970677	1.2801	0	0	3.81896
11:34:07				94	10.18155	0.4967466	1.4768	0	0	3.81642
11:34:07				95	10.18155	0.4972266	1.3784	0	0	3.82036
11:34:08				96	10.18444	0.4954629	1.1817	0.83028	0.39072	3.80561
11:34:08				97	10.17289	0.495463	1.2801	0.39072	0.09768	3.80681
11:34:09				98	10.17674	0.4956234	1.4768	1.51404	1.02564	3.80771
11:34:09				99	10.17674	0.4959442	1.3784	1.51404	6.69109	3.81035
11:34:10				100	10.17866	0.4956234	1.2801	1.51404	7.42369	3.80752
11:34:10				101	10.17481	0.4946628	1.2801	1.51404	7.47253	3.80005
11:34:11				102	10.16711	0.4945025	1.3784	1.4652	7.61905	3.79953
11:34:11				103	10.16422	0.4945025	1.3784	1.51404	7.27717	3.79983
11:34:12				104	10.16133	0.4940199	1.2801	1.51404	7.47253	3.79618
11:34:12				105	10.16037	0.4932187	1.2801	1.56288	7.37485	3.78972
11:34:13				106	10.15941	0.4938597	1.2801	1.51404	7.32601	3.79507
11:34:13				107	10.16037	0.4956234	1.3784	1.51404	7.17949	3.80943
11:34:14				108	10.17096	0.4957838	1.3784	1.51404	7.42369	3.80964
11:34:14				109	10.18059	0.4964256	1.2801	1.56288	7.57021	3.8139
11:34:15				110	10.18444	0.4965861	1.2801	1.51404	7.57021	3.81481
11:34:15				111	10.1854	0.4975477	1.3784	1.51404	7.81441	3.82259
11:34:16				112	10.18732	0.4970677	1.4768	1.51404	7.47253	3.81844
11:34:16				113	10.18925	0.4970677	1.3784	1.51404	7.32601	3.81825
11:34:17				114	10.19021	0.4969071	1.1817	1.51404	7.13065	3.81684
11:34:17				115	10.19021	0.4969071	1.2801	1.51404	7.17949	3.81684
11:34:18				116	10.19117	0.4969071	1.3784	1.51404	7.32601	3.81673
11:34:18				117	10.19117	0.4973872	1.3784	1.4652	7.57021	3.82066

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:19				118	10.19021	0.4978689	1.2801	1.4652	7.17949	3.82472
11:34:19				119	10.19021	0.4988312	1.2801	1.4652	7.13065	3.83261
11:34:20				120	10.19214	0.4983492	1.3784	1.51404	7.61905	3.82845
11:34:20				121	10.19214	0.4981885	1.3784	1.4652	7.22833	3.82713
11:34:21				122	10.19117	0.4985099	1.2801	1.51404	7.52137	3.82987
11:34:21				123	10.19117	0.4989903	1.3784	1.56288	7.61905	3.8338
11:34:22				124	10.19021	0.4983492	1.3784	1.56288	7.27717	3.82865
11:34:23				127	10.19057	0.4983078	1.2801	1.51404	7.81441	3.82828
11:34:24				128	10.18961	0.4981471	1.3784	1.51404	7.27717	3.82706
11:34:24				129	10.18961	0.4978275	1.3784	1.51404	7.27717	3.82444
11:34:25				130	10.18961	0.4971869	1.2801	1.51404	7.37485	3.81919
11:34:25				131	10.18768	0.4975064	1.3784	1.4652	7.76557	3.82201
11:34:26				132	10.18865	0.4978275	1.2801	1.51404	7.37485	3.82454
11:34:26				133	10.18961	0.4968658	1.3784	1.4652	7.57021	3.81655
11:34:27				134	10.18865	0.4975063	1.3784	1.51404	7.47253	3.82191
11:34:27				135	10.19057	0.4973458	1.3784	1.51404	7.47253	3.82039
11:34:28				136	10.18961	0.4971869	1.2801	1.51404	7.32601	3.81919
11:34:28				137	10.18961	0.4978275	1.2801	1.51404	7.66789	3.82444
11:34:29				138	10.18961	0.4981471	1.3784	1.51404	7.37485	3.82706
11:34:29				139	10.19057	0.4976669	1.3784	1.51404	7.03297	3.82302
11:34:30				140	10.19153	0.4975063	1.3784	1.51404	7.03297	3.8216
11:34:30				141	10.19153	0.4975063	1.3784	1.51404	7.32601	3.8216
11:34:31				142	10.19057	0.4979882	1.2801	1.51404	7.13065	3.82566
11:34:31				143	10.1925	0.4975063	1.3784	1.51404	7.66789	3.8215
11:34:32				144	10.1925	0.4979882	1.3784	1.51404	7.32601	3.82545
11:34:32				145	10.19057	0.4978275	1.3784	1.51404	7.27717	3.82434
11:34:33				146	10.19153	0.4975063	1.3784	1.56288	7.22833	3.8216
11:34:33				147	10.19346	0.4975063	1.3784	1.51404	7.22833	3.8214
11:34:34				148	10.19153	0.4983078	1.4768	1.51404	7.42369	3.82817
11:34:34				149	10.1925	0.4984685	1.772	1.51404	7.86325	3.82936
11:34:35				150	10.19346	0.4983078	1.9687	1.51404	7.08181	3.82794
11:34:35				151	10.19346	0.4986292	1.8703	1.4652	7.27717	3.83058
11:34:36				152	10.19346	0.4987899	1.9687	1.51404	7.42369	3.83189
11:34:36				153	10.19442	0.4963843	2.0671	1.4652	7.42369	3.81207
11:34:37				154	10.1925	0.4984685	2.2639	1.51404	7.37485	3.82934
11:34:37				155	10.19153	0.4981472	2.3623	1.51404	7.57021	3.8268
11:34:38				156	10.19153	0.4978276	2.3623	1.51404	7.37485	3.82418
11:34:38				157	10.1925	0.4986292	2.559	1.51404	7.47253	3.83064
11:34:39				158	10.19346	0.4989489	2.7558	1.51404	7.76557	3.83314
11:34:39				159	10.19635	0.4984685	2.8542	1.51404	7.27717	3.8289
11:34:40				160	10.19635	0.4984685	2.8542	1.51404	7.61905	3.8289
11:34:40				161	10.19442	0.4984685	2.8542	1.56288	7.32601	3.8291
11:34:41				162	10.19346	0.4984685	2.9526	1.56288	7.71673	3.82919
11:34:41				163	10.19538	0.4983079	2.9526	1.51404	7.66789	3.82768
11:34:42				164	10.19538	0.4983079	2.9526	1.4652	7.37485	3.82768

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:34:42				165	10.19538	0.4983079	2.8542	1.51404	7.27717	3.82768
11:34:43				166	10.19538	0.5000726	2.8542	1.56288	7.22833	3.84215
11:34:43				167	10.19731	0.5000726	3.0509	1.51404	7.22833	3.84193
11:34:44				168	10.19923	0.4995903	3.0509	1.4652	7.22833	3.83778
11:34:44				169	10.19827	0.4987899	2.7558	1.51404	7.08181	3.83133
11:34:45				170	10.19635	0.4984685	2.6574	1.51404	7.03297	3.82891
11:34:45				171	10.19538	0.5002318	2.9526	1.56288	7.66789	3.84345
11:34:46				172	10.19538	0.4984685	3.1493	1.51404	7.27717	3.82898
11:34:46				173	10.19538	0.498949	2.9526	1.51404	6.88645	3.83293
11:34:47				174	10.19538	0.4984685	2.7558	1.56288	7.32601	3.829
11:34:47	11:33:23 start transect	15	90	175	10.19635	0.4991097	2.7558	1.56288	6.98413	3.83416
11:34:48				176	10.19538	0.4991097	2.8542	1.51404	7.37485	3.83425
11:34:48				177	10.19635	0.4987899	3.0509	1.51404	7.08181	3.83152
11:34:49				178	10.19635	0.4989489	2.8542	1.56288	7.13065	3.83283
11:34:49				179	10.19538	0.5003926	2.7558	1.4652	7.32601	3.84478
11:34:50				180	10.19923	0.5026375	2.7558	1.4652	7.27717	3.86278
11:34:50				181	10.20212	0.5011937	2.7558	1.51404	7.66789	3.85063
11:34:51				182	10.20212	0.5032785	2.7558	1.51404	7.08181	3.86773
11:34:51				183	10.19827	0.4983078	2.6574	1.51404	7.22833	3.82739
11:34:52				184	10.17614	0.4949422	2.6574	1.56288	7.32601	3.80212
11:34:52				185	10.16163	0.4931775	2.559	1.51404	7.32601	3.78917
11:34:53				186	10.14527	0.4933394	2.559	1.51404	7.37485	3.7922
11:34:53				187	10.13852	0.4947819	2.4606	1.51404	7.32601	3.80474
11:34:54				188	10.14045	0.4970264	2.4606	1.51404	7.27717	3.82296
11:34:54				189	10.14141	0.4994312	2.4606	1.51404	7.37485	3.84259
11:34:55				190	10.15201	0.4946215	2.3623	1.51404	7.13065	3.80203
11:34:55				191	10.14912	0.4906129	2.4606	1.51404	7.27717	3.76946
11:34:56				192	10.1366	0.4906129	2.4606	1.51404	7.22833	3.77075
11:34:56				193	10.13467	0.4906129	2.559	1.56288	7.27717	3.77094
11:34:57				194	10.13178	0.4901331	2.6574	1.51404	7.27717	3.7673
11:34:57				195	10.13178	0.4893303	2.7558	1.56288	7.17949	3.76072
11:34:58				196	10.12986	0.4896517	2.7558	1.51404	7.13065	3.76355
11:34:58				197	10.126	0.4877276	2.7558	1.4652	7.22833	3.74817
11:34:59				198	10.12022	0.4894918	2.7558	1.51404	7.32601	3.76323
11:34:59				199	10.11541	0.4896517	2.8542	1.51404	7.32601	3.76504
11:35:00				200	10.11733	0.4901331	2.8542	1.56288	7.27717	3.76879
11:35:00				201	10.11926	0.490453	2.7558	1.51404	7.32601	3.77122
11:35:01				202	10.11733	0.4906129	2.7558	1.51404	7.37485	3.77273
11:35:01				203	10.12408	0.4914146	2.8542	1.51404	7.22833	3.7786
11:35:02				204	10.126	0.4918964	2.8542	1.4652	7.22833	3.78235
11:35:02				205	10.12311	0.4914146	2.7558	1.51404	7.13065	3.7787
11:35:03				206	10.11926	0.490453	2.7558	1.51404	7.13065	3.77122
11:35:03				207	10.11733	0.490453	2.7558	1.56288	7.32601	3.77142
11:35:04				208	10.11733	0.4906129	2.7558	1.51404	7.42369	3.77273
11:35:04				209	10.12504	0.4920565	2.7558	1.56288	7.47253	3.78377

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:05				210	10.13275	0.4930174	2.7558	1.51404	7.27717	3.79085
11:35:05				211	10.1443	0.4936599	2.7558	1.51404	7.22833	3.79492
11:35:06				212	10.15201	0.4936598	2.7558	1.51404	7.37485	3.79412
11:35:06				213	10.15297	0.4943009	2.7558	1.51404	7.17949	3.79927
11:35:07				214	10.15201	0.4944612	2.7558	1.51404	7.32601	3.80069
11:35:07				215	10.14719	0.4931775	2.7558	1.51404	7.17949	3.79066
11:35:08				216	10.13756	0.4934996	2.7558	1.4652	7.03297	3.79431
11:35:08				217	10.1366	0.4928572	2.7558	1.51404	7.32601	3.78914
11:35:09				218	10.13275	0.4918964	2.7558	1.51404	7.32601	3.78166
11:35:09				219	10.12408	0.4910945	2.6574	1.51404	7.37485	3.77599
11:35:10				220	10.1183	0.4925369	2.6574	1.56288	7.17949	3.78842
11:35:10				221	10.12311	0.4918964	2.7558	1.56288	7.32601	3.78266
11:35:11				222	10.12697	0.4936599	2.7558	1.4652	7.27717	3.79672
11:35:11				223	10.13371	0.4949423	2.6574	1.51404	7.27717	3.80655
11:35:12				224	10.13756	0.4965449	2.559	1.51404	7.17949	3.8193
11:35:12				225	10.14238	0.4920565	2.559	1.56288	7.37485	3.78198
11:35:13				226	10.12986	0.4891705	2.6574	1.51404	7.13065	3.75961
11:35:13				227	10.12022	0.4872468	2.6574	1.56288	7.32601	3.74483
11:35:14				228	10.11541	0.4869259	2.6574	1.4652	7.42369	3.7427
11:35:14				229	10.11149	0.4899715	2.6574	1.51404	7.42369	3.76808
11:35:15				230	10.11926	0.4896517	2.6574	1.51404	7.32601	3.76465
11:35:15				231	10.11926	0.4894918	2.6574	1.51404	7.27717	3.76334
11:35:16				232	10.11733	0.4882084	2.7558	1.51404	7.27717	3.75301
11:35:16				233	10.11733	0.4898116	2.7558	1.4652	7.22833	3.76615
11:35:17				234	10.12311	0.4867663	2.7558	1.51404	7.13065	3.74059
11:35:17				235	10.11637	0.4874065	2.6574	1.51404	7.17949	3.74654
11:35:18				236	10.10764	0.4861246	2.559	1.56288	7.22833	3.73693
11:35:18				237	10.10475	0.4853237	2.6574	1.51404	7.22833	3.73065
11:35:19				238	10.10186	0.4850031	2.6574	1.4652	7.27717	3.72832
11:35:19				239	10.098	0.4861246	2.559	1.51404	7.32601	3.73792
11:35:20				240	10.09896	0.4862842	2.559	1.51404	7.22833	3.73913
11:35:20				241	10.10089	0.4870872	2.6574	1.51404	7.13065	3.74551
11:35:21				242	10.10378	0.4870872	2.6574	1.51404	7.27717	3.74521
11:35:21				243	10.10282	0.4869259	2.559	1.51404	7.47253	3.74399
11:35:22				244	10.10186	0.4880487	2.6574	1.51404	7.27717	3.7533
11:35:23				247	10.1086	0.4893254	2.6574	1.51404	7.13065	3.76307
11:35:24				248	10.10667	0.4886845	2.6574	1.4652	7.37485	3.75802
11:35:24				249	10.10764	0.4888459	2.6574	1.51404	7.22833	3.75924
11:35:25				250	10.1086	0.487884	2.7558	1.51404	7.27717	3.75125
11:35:25				251	10.10571	0.4874016	2.6574	1.51404	7.37485	3.74759
11:35:26				252	10.10667	0.4874016	2.6574	1.51404	7.22833	3.74749
11:35:26				253	10.10667	0.4870823	2.6574	1.4652	7.52137	3.74487
11:35:27				254	10.10475	0.4870823	2.6574	1.51404	7.22833	3.74507
11:35:27				255	10.10764	0.4872419	2.6574	1.56288	7.17949	3.74608
11:35:28				256	10.10667	0.4874016	2.559	1.51404	7.37485	3.7475

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:28				257	10.10667	0.4846776	2.559	1.51404	7.47253	3.72516
11:35:29				258	10.10475	0.4859601	2.559	1.51404	7.37485	3.73588
11:35:29				259	10.10475	0.4867613	2.559	1.51404	7.37485	3.74245
11:35:30				260	10.10571	0.4886845	2.6574	1.51404	7.32601	3.75811
11:35:30				261	10.11149	0.4907696	2.6574	1.51404	7.37485	3.77462
11:35:31				262	10.12402	0.4915697	2.6574	1.51404	7.27717	3.77989
11:35:31				263	10.12883	0.4926921	2.6574	1.51404	7.22833	3.7886
11:35:32				264	10.13365	0.4938152	2.6574	1.51404	7.17949	3.79731
11:35:32				265	10.13949	0.4944563	2.6574	1.51404	7.32601	3.80196
11:35:33				266	10.14045	0.4946166	2.7558	1.4652	7.22833	3.80317
11:35:33				267	10.1443	0.4944563	2.7558	1.51404	7.32601	3.80145
11:35:34				268	10.14815	0.4949373	2.6574	1.56288	7.27717	3.805
11:35:34	11:34:10 @ 6:00	15	180	269	10.15104	0.4907696	2.6574	1.51404	7.37485	3.77053
11:35:35				270	10.13461	0.4857989	2.7558	1.51404	7.52137	3.73148
11:35:35				271	10.12691	0.4849981	2.7558	1.51404	7.27717	3.72571
11:35:36				272	10.11631	0.4845165	2.6574	1.51404	7.42369	3.72285
11:35:36				273	10.10956	0.4840367	2.559	1.51404	7.37485	3.71962
11:35:37				274	10.11149	0.4864405	2.6574	1.51404	7.22833	3.73912
11:35:37				275	10.11342	0.4872419	2.6574	1.51404	7.37485	3.74549
11:35:38				276	10.11438	0.4866001	2.6574	1.51404	7.17949	3.74013
11:35:38				277	10.11631	0.4870823	2.559	1.51404	7.27717	3.74389
11:35:39				278	10.12305	0.4896468	2.6574	1.56288	7.42369	3.76422
11:35:39				279	10.13172	0.490608	2.559	1.4652	7.37485	3.77121
11:35:40				280	10.1375	0.4886844	2.559	1.51404	7.32601	3.75484
11:35:40				281	10.13365	0.4890057	2.6574	1.56288	7.32601	3.75787
11:35:41				282	10.1298	0.4880437	2.6574	1.56288	7.47253	3.75038
11:35:41				283	10.12787	0.4875629	2.6574	1.51404	7.52137	3.74664
11:35:42				284	10.12691	0.4877226	2.559	1.51404	7.27717	3.74805
11:35:42				285	10.12594	0.4874016	2.6574	1.51404	7.17949	3.74551
11:35:43				286	10.12594	0.4882035	2.6574	1.56288	7.17949	3.75209
11:35:43				287	10.12594	0.4874016	2.7558	1.4652	7.47253	3.74551
11:35:44				288	10.12594	0.4874016	2.6574	1.51404	7.32601	3.74551
11:35:44				289	10.12498	0.487884	2.559	1.51404	7.27717	3.74957
11:35:45				290	10.12498	0.4931743	2.559	1.51404	7.37485	3.79296
11:35:45				291	10.14141	0.4918915	2.7558	1.51404	7.32601	3.78072
11:35:46				292	10.14334	0.4934947	2.6574	1.51404	7.17949	3.79367
11:35:46				293	10.14815	0.4928522	2.4606	1.51404	7.27717	3.78791
11:35:47				294	10.1443	0.4914096	2.3623	1.56288	7.22833	3.77649
11:35:47				295	10.14141	0.4917314	2.4606	1.51404	7.37485	3.77942
11:35:48				296	10.14334	0.490448	2.4606	1.51404	7.17949	3.7687
11:35:48				297	10.1375	0.490448	2.4606	1.51404	7.47253	3.76931
11:35:49				298	10.13557	0.490288	2.3623	1.51404	7.22833	3.7682
11:35:49				299	10.13557	0.4893254	2.4606	1.51404	7.57021	3.7603
11:35:50				300	10.13365	0.490288	2.559	1.56288	7.37485	3.76839
11:35:50				301	10.13268	0.4898066	2.6574	1.51404	7.22833	3.76453

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:35:51				302	10.13461	0.4901281	2.559	1.51404	7.32601	3.76698
11:35:51				303	10.13268	0.4898066	2.559	1.51404	7.32601	3.76454
11:35:52				304	10.13365	0.4898066	2.6574	1.56288	7.66789	3.76443
11:35:52				305	10.13172	0.4899666	2.8542	1.56288	7.22833	3.76593
11:35:53				306	10.13268	0.4899666	2.7558	1.51404	7.61905	3.76584
11:35:53				307	10.13365	0.4914096	2.559	1.51404	7.27717	3.77758
11:35:54				308	10.13557	0.4967004	2.7558	1.51404	7.32601	3.82078
11:35:54				309	10.1375	0.4909296	2.8542	1.51404	7.37485	3.77323
11:35:55				310	10.13268	0.4896468	2.7558	1.51404	7.17949	3.76322
11:35:55				311	10.12787	0.4902881	2.6574	1.51404	7.27717	3.76898
11:35:56				312	10.1298	0.4901281	2.7558	1.51404	7.47253	3.76746
11:35:56				313	10.1298	0.4883649	2.7558	1.51404	7.22833	3.75301
11:35:57				314	10.12594	0.4890057	2.6574	1.51404	7.32601	3.75866
11:35:57				315	10.12594	0.4886844	2.7558	1.56288	7.32601	3.75602
11:35:58				316	10.12691	0.4886844	2.7558	1.51404	7.61905	3.75592
11:35:58				317	10.12787	0.4885246	2.7558	1.4652	7.27717	3.75451
11:35:59				318	10.12402	0.4880437	2.6574	1.51404	7.22833	3.75097
11:35:59				319	10.12498	0.4870822	2.559	1.51404	7.47253	3.743
11:36:00				320	10.12016	0.487884	2.7558	1.51404	7.66789	3.75006
11:36:00				321	10.12113	0.4872419	2.7558	1.51404	7.37485	3.74469
11:36:01				322	10.11824	0.4862809	2.6574	1.56288	7.32601	3.73712
11:36:01				323	10.11727	0.4866001	2.559	1.51404	7.37485	3.73984
11:36:02				324	10.11824	0.4861197	2.559	1.51404	7.32601	3.7358
11:36:02				325	10.11535	0.4856394	2.559	1.51404	7.37485	3.73216
11:36:03				326	10.11438	0.4851576	2.559	1.51404	7.47253	3.72831
11:36:03				327	10.11342	0.4853187	2.559	1.51404	7.61905	3.72973
11:36:04				328	10.11149	0.4859601	2.6574	1.51404	7.37485	3.73518
11:36:04				329	10.11631	0.4861197	2.7558	1.56288	7.32601	3.73599
11:36:05				330	10.11727	0.4862809	2.6574	1.56288	7.37485	3.73722
11:36:05				331	10.11824	0.4899666	2.6574	1.4652	7.42369	3.76734
11:36:06				332	10.12016	0.4886844	2.7558	1.51404	7.81441	3.75662
11:36:06				333	10.12209	0.4880437	2.8542	1.51404	7.52137	3.75116
11:36:07				334	10.12305	0.4877226	2.7558	1.4652	7.37485	3.74844
11:36:07				335	10.12402	0.4872419	2.6574	1.51404	7.32601	3.7444
11:36:08				336	10.12498	0.487884	2.7558	1.56288	7.42369	3.74956
11:36:08				337	10.12402	0.487884	2.8542	1.51404	7.37485	3.74965
11:36:09				338	10.12787	0.4883649	2.7558	1.51404	7.27717	3.7532
11:36:09				339	10.12883	0.490448	2.6574	1.51404	7.27717	3.77019
11:36:10				340	10.13268	0.4886844	2.7558	1.51404	7.71673	3.75533
11:36:10				341	10.13461	0.4894869	2.8542	1.51404	7.42369	3.7617
11:36:11				342	10.13557	0.4893254	2.7558	1.51404	7.37485	3.76028
11:36:11				343	10.13461	0.4886844	2.559	1.51404	7.42369	3.75514
11:36:12				344	10.13268	0.4896468	2.6574	1.56288	7.37485	3.76322
11:36:12				345	10.1375	0.4901281	2.7558	1.51404	7.96093	3.76667
11:36:13				346	10.1375	0.4894869	2.7558	1.56288	7.37485	3.76141

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:13				347	10.13557	0.4896468	2.7558	1.51404	7.37485	3.76292
11:36:14				348	10.13557	0.4896467	2.559	1.51404	7.47253	3.76293
11:36:14				349	10.13557	0.4898066	2.559	1.51404	7.76557	3.76424
11:36:15				350	10.13654	0.4898066	2.7558	1.51404	7.96093	3.76413
11:36:15				351	10.13654	0.4901281	2.7558	1.4652	7.32601	3.76677
11:36:16				352	10.13852	0.4901281	2.6574	1.51404	7.27717	3.76657
11:36:16				353	10.13852	0.4901281	2.6574	1.51404	7.32601	3.76657
11:36:17				354	10.14045	0.4917314	2.6574	1.51404	7.22833	3.77951
11:36:17				355	10.1443	0.4926921	2.7558	1.51404	7.27717	3.78698
11:36:18				356	10.14912	0.492692	2.7558	1.56288	7.32601	3.78648
11:36:18				357	10.15201	0.4920515	2.7558	1.51404	7.22833	3.78093
11:36:19				358	10.14912	0.4914096	2.6574	1.51404	7.27717	3.77597
11:36:19				359	10.14623	0.5080831	2.6574	1.51404	7.32601	3.91314
11:36:20				360	10.15104	0.5074421	2.7558	1.51404	7.42369	3.90735
11:36:20				361	10.15778	0.4994262	2.8542	1.4652	7.22833	3.84081
11:36:21				362	10.15201	0.494296	2.7558	1.51404	7.08181	3.79933
11:36:21				363	10.14815	0.4896467	2.559	1.51404	7.17949	3.76163
11:36:22				364	10.1443	0.490288	2.7558	1.51404	7.37485	3.76727
11:36:23				367	10.14262	0.4890057	2.6574	1.56288	7.27717	3.75694
11:36:24				368	10.13876	0.4906096	2.7558	1.51404	7.37485	3.77048
11:36:24				369	10.13876	0.4896484	2.8542	1.56288	7.47253	3.7626
11:36:25				370	10.1378	0.4894869	2.6574	1.56288	7.37485	3.76138
11:36:25				371	10.1378	0.490288	2.559	1.51404	7.27717	3.76796
11:36:26				372	10.13684	0.4896484	2.8542	1.51404	7.66789	3.7628
11:36:26				373	10.13588	0.4894869	2.8542	1.51404	7.27717	3.76157
11:36:27				374	10.13588	0.4890057	2.7558	1.4652	7.22833	3.75763
11:36:27				375	10.13395	0.4890057	2.7558	1.51404	7.32601	3.75783
11:36:28				376	10.13395	0.4891672	2.7558	1.51404	7.37485	3.75916
11:36:28				377	10.13299	0.4886861	2.6574	1.4652	7.37485	3.75532
11:36:29				378	10.13299	0.4888459	2.7558	1.51404	7.27717	3.75662
11:36:29				379	10.12913	0.4886861	2.8542	1.51404	7.61905	3.7557
11:36:30				380	10.1301	0.4888459	2.8542	1.4652	7.13065	3.75691
11:36:30				381	10.13202	0.4886861	2.6574	1.51404	7.27717	3.75542
11:36:31				382	10.13106	0.4885263	2.6574	1.56288	7.22833	3.75421
11:36:31	11:35:07 end transect	15	270	383	10.12817	0.4885263	2.7558	1.51404	7.57021	3.7545
11:36:32	repositioning			384	10.12817	0.4885263	2.8542	1.51404	7.27717	3.75449
11:36:32				385	10.12624	0.4885263	2.8542	1.56288	7.22833	3.75469
11:36:33				386	10.12817	0.4883649	2.8542	1.51404	7.22833	3.75317
11:36:33				387	10.12817	0.4882051	2.7558	1.51404	7.47253	3.75186
11:36:34				388	10.12721	0.487884	2.6574	1.56288	7.52137	3.74934
11:36:34				389	10.12624	0.4880454	2.7558	1.51404	7.42369	3.75075
11:36:35				390	10.12432	0.4882051	2.9526	1.51404	7.61905	3.75225
11:36:35				391	10.12624	0.4882051	2.7558	1.56288	7.13065	3.75206
11:36:36				392	10.12624	0.4883649	2.559	1.51404	7.37485	3.75338
11:36:36				393	10.12721	0.4896484	2.6574	1.51404	7.47253	3.7638

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:37				394	10.12913	0.4888459	2.9526	1.56288	7.81441	3.75701
11:36:37				395	10.12817	0.4886861	2.8542	1.51404	7.27717	3.7558
11:36:38				396	10.12721	0.4885263	2.6574	1.51404	7.37485	3.7546
11:36:38				397	10.12817	0.4944563	2.7558	1.51404	7.42369	3.80313
11:36:39				398	10.1378	0.4917314	2.9526	1.51404	7.57021	3.77977
11:36:39				399	10.13202	0.4891672	2.7558	1.51404	7.17949	3.75935
11:36:40				400	10.12817	0.4885263	2.559	1.51404	7.22833	3.75451
11:36:40				401	10.12624	0.4890057	2.6574	1.51404	7.37485	3.75863
11:36:41				402	10.12624	0.4885263	2.8542	1.51404	7.32601	3.75469
11:36:41				403	10.12432	0.4883649	2.8542	1.51404	7.27717	3.75356
11:36:42				404	10.12528	0.4885263	2.6574	1.51404	7.27717	3.7548
11:36:42				405	10.12721	0.4886861	2.559	1.51404	7.42369	3.75592
11:36:43				406	10.12721	0.5059994	2.8542	1.51404	7.42369	3.89804
11:36:43				407	10.1301	0.4930141	2.9526	1.51404	7.47253	3.79109
11:36:44				408	10.13106	0.4904497	2.7558	1.4652	7.27717	3.76997
11:36:44				409	10.13299	0.4904496	2.559	1.51404	7.42369	3.76978
11:36:45				410	10.13395	0.5013498	2.6574	1.51404	7.37485	3.85913
11:36:45				411	10.13876	0.4965416	2.8542	1.51404	7.32601	3.81913
11:36:46				412	10.14647	0.4973426	2.7558	1.51404	7.22833	3.8249
11:36:46				413	10.15321	0.495258	2.559	1.51404	7.17949	3.80711
11:36:47				414	10.15417	0.5032736	2.6574	1.51404	7.42369	3.87278
11:36:47				415	10.15995	0.4986243	2.7558	1.51404	7.47253	3.834
11:36:48				416	10.16284	0.4986243	2.6574	1.51404	7.37485	3.83371
11:36:48				417	10.16284	0.4950976	2.6574	1.4652	7.42369	3.80478
11:36:49				418	10.16284	0.4942959	2.6574	1.51404	7.27717	3.79821
11:36:49				419	10.15995	0.4936549	2.6574	1.51404	7.27717	3.79326
11:36:50				420	10.15802	0.4928538	2.559	1.51404	7.13065	3.7869
11:36:50				421	10.15899	0.4928538	2.6574	1.51404	7.27717	3.78679
11:36:51				422	10.15802	0.4928539	2.8542	1.51404	7.27717	3.78688
11:36:51				423	10.15802	0.4925335	2.559	1.51404	7.22833	3.78427
11:36:52				424	10.15514	0.4918914	2.2639	1.51404	7.17949	3.77932
11:36:52				425	10.15417	0.4934946	2.4606	1.51404	7.17949	3.79255
11:36:53				426	10.15514	0.4946166	2.559	1.4652	7.17949	3.80165
11:36:53				427	10.15706	0.4926937	2.2639	1.51404	7.17949	3.7857
11:36:54				428	10.15417	0.4973425	2.0671	1.51404	7.17949	3.82414
11:36:54				429	10.15706	0.4965415	1.9687	1.4652	7.17949	3.81727
11:36:55				430	10.15995	0.4968609	1.9687	1.51404	7.17949	3.81958
11:36:55				431	10.1561	0.493014	1.9687	1.51404	7.17949	3.78844
11:36:56				432	10.1484	0.4920515	1.9687	1.51404	7.37485	3.78135
11:36:56				433	10.14551	0.4912512	1.9687	1.51404	7.22833	3.77509
11:36:57				434	10.14069	0.4914112	1.9687	1.51404	7.22833	3.7769
11:36:57				435	10.14358	0.4918914	1.9687	1.51404	7.42369	3.78054
11:36:58				436	10.14454	0.4910895	1.9687	1.51404	7.66789	3.77386
11:36:58				437	10.1378	0.4885262	2.0671	1.51404	7.32601	3.75354
11:36:59				438	10.1301	0.4867613	2.0671	1.51404	7.32601	3.73987

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:36:59				439	10.12143	0.4848386	1.9687	1.51404	7.32601	3.72501
11:37:00				440	10.11757	0.487884	2.0671	1.51404	7.32601	3.75036
11:37:00				441	10.12239	0.4870822	2.1655	1.51404	7.37485	3.74329
11:37:01				442	10.12143	0.4864421	2.2639	1.56288	7.17949	3.73813
11:37:01				443	10.11854	0.4846775	2.1655	1.56288	7.32601	3.72397
11:37:02				444	10.10987	0.4827538	2.1655	1.51404	7.32601	3.70909
11:37:02				445	10.10402	0.4851592	2.2639	1.51404	7.17949	3.7294
11:37:03				446	10.10884	0.4837163	2.3623	1.51404	7.22833	3.71707
11:37:03				447	10.10595	0.4829148	2.2639	1.51404	7.32601	3.71081
11:37:04				448	10.10306	0.4816328	2.0671	1.56288	7.17949	3.70061
11:37:04				449	10.09921	0.4821136	2.1655	1.56288	7.47253	3.70493
11:37:05				450	10.09921	0.4830757	2.2639	1.56288	7.52137	3.71281
11:37:05				451	10.10113	0.4819528	2.2639	1.56288	7.32601	3.70341
11:37:06				452	10.09631	0.4813112	1.9687	1.56288	7.08181	3.69866
11:37:06				453	10.09631	0.4827539	2.1655	1.56288	7.42369	3.71047
11:37:07				454	10.09535	0.4829148	2.3623	1.56288	7.52137	3.71188
11:37:07				455	10.10017	0.4827539	2.2639	1.51404	7.32601	3.71008
11:37:08				456	10.10017	0.4827539	2.1655	1.56288	7.32601	3.71008
11:37:08				457	10.09921	0.4830757	2.3623	1.51404	7.32601	3.71281
11:37:09				458	10.09921	0.4827539	2.4606	1.51404	7.32601	3.71016
11:37:09				459	10.09824	0.4838773	2.3623	1.51404	7.13065	3.71948
11:37:10				460	10.09824	0.4861213	2.4606	1.51404	7.52137	3.73787
11:37:10				461	10.10884	0.4856394	2.4606	1.4652	7.32601	3.73283
11:37:11				462	10.10987	0.489327	2.4606	1.51404	7.27717	3.76297
11:37:11				463	10.11757	0.5278052	2.4606	1.51404	7.52137	4.07873
11:37:12				464	10.15417	0.5143367	2.559	1.4652	7.71673	3.96371
11:37:12				465	10.16284	0.5045562	2.4606	1.51404	7.03297	3.8824
11:37:13				466	10.14551	0.5011905	2.3623	1.56288	7.27717	3.85661
11:37:13				467	10.1484	0.5290881	2.3623	1.51404	7.32601	4.08586
11:37:14				468	10.17638	0.5100074	2.4606	1.56288	7.37485	3.92573
11:37:14				469	10.15802	0.4968609	2.4606	1.51404	7.17949	3.81976
11:37:15				470	10.13202	0.4867613	2.2639	1.4652	7.22833	3.73966
11:37:15				471	10.11565	0.4864421	2.2639	1.56288	7.66789	3.73873
11:37:16				472	10.10691	0.4848387	2.3623	1.56288	7.32601	3.72647
11:37:16				473	10.10595	0.4894869	2.1655	1.51404	7.32601	3.7647
11:37:17				474	10.11276	0.4899682	2.2639	1.56288	7.32601	3.76794
11:37:17				475	10.11854	0.4901281	2.2639	1.51404	7.32601	3.76865
11:37:18				476	10.11757	0.4867613	2.1655	1.51404	7.22833	3.74115
11:37:18				477	10.11179	0.4928539	2.1655	1.51404	7.32601	3.79172
11:37:19				478	10.11757	0.4963811	2.3623	1.51404	7.66789	3.82006
11:37:19				479	10.13395	0.4915713	2.4606	1.51404	7.27717	3.77888
11:37:20				480	10.11565	0.4862809	2.2639	1.51404	7.08181	3.73741
11:37:20				481	10.10788	0.5019919	2.2639	1.51404	7.42369	3.86719
11:37:21				482	10.1301	0.52059	2.6574	1.51404	7.66789	4.01783
11:37:21				483	10.15899	0.5039164	2.7558	1.51404	7.08181	3.87754

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:22				484	10.12721	0.4864421	2.4606	1.51404	7.03297	3.73753
11:37:23				487	10.15814	0.5111363	2.8542	1.51404	7.08181	3.93695
11:37:24				488	10.14852	0.5079299	2.6574	1.56288	7.08181	3.91164
11:37:24				489	10.13979	0.495425	2.559	1.51404	7.27717	3.80988
11:37:25				490	10.13305	0.4957459	2.6574	1.56288	7.57021	3.81321
11:37:25				491	10.1263	0.4938218	2.7558	1.56288	7.32601	3.79812
11:37:26				492	10.12438	0.4910962	2.6574	1.56288	7.17949	3.77597
11:37:26				493	10.11763	0.4880503	2.4606	1.51404	7.22833	3.7517
11:37:27				494	10.11282	0.4869275	2.4606	1.56288	7.13065	3.74299
11:37:27				495	10.10703	0.4864471	2.3623	1.51404	7.27717	3.73965
11:37:28				496	10.10703	0.4872485	2.2639	1.51404	7.22833	3.74622
11:37:28				497	10.10896	0.4880503	2.1655	1.56288	7.52137	3.75261
11:37:29				498	10.11282	0.4912562	2.2639	1.4652	7.37485	3.7785
11:37:29				499	10.1186	0.4894935	2.2639	1.56288	7.22833	3.76344
11:37:30				500	10.11956	0.488691	2.2639	1.51404	7.32601	3.75676
11:37:30				501	10.11571	0.4951043	2.2639	1.51404	7.32601	3.80978
11:37:31				502	10.12052	0.4893336	2.2639	1.56288	7.37485	3.76193
11:37:31				503	10.12438	0.4912562	2.3623	1.56288	7.42369	3.7773
11:37:32				504	10.12823	0.491738	2.3623	1.51404	7.17949	3.78085
11:37:32				505	10.1263	0.4947836	2.3623	1.56288	7.13065	3.80604
11:37:33				506	10.12919	0.4943026	2.3623	1.51404	7.32601	3.80179
11:37:33				507	10.13497	0.4930207	2.3623	1.51404	7.08181	3.79067
11:37:34				508	10.12534	0.4925385	2.3623	1.51404	7.13065	3.78772
11:37:34				509	10.12245	0.4901347	2.4606	1.4652	7.13065	3.76829
11:37:35				510	10.12245	0.4904546	2.4606	1.51404	7.08181	3.77092
11:37:35				511	10.11571	0.4933411	2.4606	1.51404	7.27717	3.7953
11:37:36				512	10.1263	0.4943026	2.559	1.51404	7.22833	3.80208
11:37:36				513	10.1263	0.4928588	2.559	1.51404	7.13065	3.79023
11:37:37				514	10.12341	0.4965466	2.4606	1.56288	7.22833	3.8208
11:37:37				515	10.13305	0.5008753	2.559	1.51404	7.08181	3.85533
11:37:38				516	10.14659	0.4987916	2.6574	1.56288	7.08181	3.83679
11:37:38				517	10.13786	0.4960668	2.559	1.51404	7.08181	3.81535
11:37:39				518	10.12727	0.4923784	2.4606	1.56288	7.08181	3.7862
11:37:39				519	10.12534	0.4962256	2.559	1.51404	7.27717	3.81796
11:37:40				520	10.12919	0.493982	2.6574	1.4652	7.08181	3.79914
11:37:40				521	10.12149	0.4912562	2.559	1.51404	7.03297	3.77759
11:37:41				522	10.10993	0.4925386	2.4606	1.51404	7.17949	3.78931
11:37:41				523	10.11185	0.488691	2.3623	1.4652	7.08181	3.75755
11:37:42				524	10.10703	0.4830806	2.2639	1.56288	7.17949	3.71206
11:37:42				525	10.08487	0.4809963	2.2639	1.51404	7.17949	3.69723
11:37:43				526	10.07806	0.4809963	2.2639	1.51404	7.42369	3.69792
11:37:43				527	10.0771	0.4840433	2.1655	1.56288	7.03297	3.72301
11:37:44				528	10.10029	0.4925386	2.1655	1.56288	7.32601	3.79033
11:37:44				529	10.12727	0.5002335	2.1655	1.51404	7.32601	3.85069
11:37:45				530	10.16296	0.5040826	2.1655	1.51404	7.13065	3.87852

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:37:45				531	10.17259	0.5013563	2.2639	1.51404	7.08181	3.85512
11:37:46				532	10.16777	0.4994328	2.2639	1.51404	7.17949	3.83984
11:37:46				533	10.15911	0.4952646	2.2639	1.51404	7.13065	3.80656
11:37:47				534	10.15044	0.493341	2.3623	1.51404	7.22833	3.79169
11:37:47				535	10.13786	0.493341	2.2639	1.56288	7.37485	3.793
11:37:48				536	10.14466	0.4957459	2.4606	1.56288	7.32601	3.81201
11:37:48				537	10.15911	0.5003943	2.4606	1.56288	7.17949	3.84863
11:37:49				538	10.16873	0.5042421	2.4606	1.56288	7.08181	3.8792
11:37:49				539	10.18029	0.506327	2.3623	1.56288	7.22833	3.89509
11:37:50				540	10.18221	0.5079298	2.3623	1.51404	7.03297	3.90804
11:37:50				541	10.18799	0.5074487	2.4606	1.56288	7.03297	3.90347
11:37:51				542	10.19184	0.5048836	2.559	1.4652	6.98413	3.882
11:37:51				543	10.18606	0.5019985	2.4606	1.51404	6.98413	3.85895
11:37:52				544	10.17451	0.5005552	2.4606	1.51404	6.98413	3.84833
11:37:52				545	10.16681	0.4978293	2.559	1.51404	7.03297	3.82677
11:37:53				546	10.15526	0.4975081	2.6574	1.56288	7.08181	3.82535
11:37:53				547	10.15237	0.4992721	2.6574	1.56288	7.08181	3.84012
11:37:54				548	10.15526	0.5002335	2.7558	1.51404	7.03297	3.8477
11:37:54				549	10.16007	0.4987916	2.559	1.51404	6.98413	3.83537
11:37:55				550	10.16007	0.4984702	2.559	1.51404	7.03297	3.83274
11:37:55				551	10.15718	0.4983096	2.4606	1.51404	7.03297	3.83173
11:37:56				552	10.15526	0.4975081	2.4606	1.51404	7.13065	3.82536
11:37:56				553	10.15044	0.496707	2.3623	1.51404	7.08181	3.8193
11:37:57				554	10.14274	0.4979899	2.2639	1.51404	7.17949	3.83064
11:37:57				555	10.1437	0.4959063	2.2639	1.56288	7.13065	3.81344
11:37:58				556	10.14177	0.4970281	2.2639	1.51404	6.98413	3.82284
11:37:58				557	10.14466	0.5000744	2.2639	1.56288	7.13065	3.84754
11:37:59				558	10.14852	0.5008753	2.2639	1.51404	7.08181	3.85371
11:37:59				559	10.15622	0.5000743	2.3623	1.51404	7.03297	3.84632
11:38:00				560	10.15237	0.5010362	2.4606	1.51404	7.08181	3.85461
11:38:00				561	10.15814	0.5019985	2.4606	1.4652	7.17949	3.8619
11:38:01				562	10.162	0.5000743	2.4606	1.51404	7.17949	3.8457
11:38:01				563	10.162	0.5048836	2.559	1.51404	7.13065	3.88518
11:38:02				564	10.16488	0.5026393	2.7558	1.56288	6.93529	3.86643
11:38:02				565	10.16777	0.4979899	2.7558	1.56288	7.08181	3.82798
11:38:03				566	10.15911	0.4986309	2.6574	1.56288	7.22833	3.83415
11:38:03				567	10.15044	0.5002335	2.6574	1.51404	7.17949	3.84822
11:38:04				568	10.15429	0.4983096	2.6574	1.51404	6.98413	3.83202
11:38:04				569	10.15237	0.4952646	2.7558	1.4652	7.03297	3.80724
11:38:05				570	10.14659	0.4957459	2.7558	1.51404	6.98413	3.81179
11:38:05				571	10.13786	0.4915779	2.6574	1.56288	7.13065	3.77852
11:38:06				572	10.13497	0.4915779	2.6574	1.51404	7.22833	3.77882
11:38:06				573	10.12823	0.4880503	2.6574	1.56288	7.13065	3.75059
11:38:07				574	10.11667	0.4866083	2.7558	1.56288	7.03297	3.73996
11:38:07				575	10.108	0.4883715	2.7558	1.51404	7.13065	3.75531

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:08				576	10.10414	0.4880503	2.6574	1.51404	7.22833	3.75307
11:38:08				577	10.10414	0.4890123	2.559	1.51404	7.17949	3.76097
11:38:09				578	10.10414	0.4938218	2.6574	1.51404	7.37485	3.80044
11:38:09				579	10.10511	0.4894935	2.6574	1.51404	6.98413	3.76481
11:38:10				580	10.10318	0.4827605	2.6574	1.51404	7.42369	3.7098
11:38:10				581	10.09644	0.4809963	2.559	1.56288	7.08181	3.69603
11:38:11				582	10.09354	0.4819594	2.559	1.56288	6.93529	3.70422
11:38:11				583	10.08776	0.4797141	2.6574	1.51404	7.13065	3.6864
11:38:12				584	10.07999	0.4848436	2.559	1.51404	6.98413	3.72926
11:38:12				585	10.07517	0.4920583	2.559	1.51404	7.17949	3.78898
11:38:13				586	10.07324	0.5007145	2.559	1.51404	7.17949	3.86034
11:38:13				587	10.08095	0.4872486	2.559	1.51404	7.03297	3.74889
11:38:14				588	10.10222	0.4829214	2.4606	1.51404	7.03297	3.71123
11:38:14				589	10.09644	0.49799	2.4606	1.56288	7.13065	3.8355
11:38:15				590	10.12341	0.4967071	2.4606	1.56288	7.17949	3.82212
11:38:15				591	10.13305	0.4960668	2.4606	1.56288	6.93529	3.81586
11:38:16				592	10.13305	0.496386	2.3623	1.51404	7.13065	3.81848
11:38:16				593	10.13786	0.4997528	2.3623	1.51404	6.98413	3.84561
11:38:17				594	10.14274	0.4989523	2.3623	1.51404	6.93529	3.83853
11:38:17				595	10.14075	0.4995936	2.3623	1.51404	6.93529	3.844
11:38:18				596	10.14948	0.4983096	2.3623	1.4652	7.08181	3.83255
11:38:18				597	10.13882	0.493982	2.2639	1.56288	6.93529	3.79816
11:38:19				598	10.12919	0.4978293	2.2639	1.56288	7.03297	3.83074
11:38:19				599	10.1263	0.4926987	2.2639	1.51404	7.03297	3.78894
11:38:20				600	10.11185	0.4883715	2.2639	1.56288	7.03297	3.75494
11:38:20				601	10.09836	0.4853253	2.2639	1.51404	7.08181	3.73134
11:38:21				602	10.08583	0.4830807	2.2639	1.51404	7.22833	3.71422
11:38:21				603	10.07421	0.4846842	2.2639	1.51404	7.27717	3.72856
11:38:22				604	10.07517	0.4854848	2.2639	1.51404	7.42369	3.73503
11:38:23				607	10.09607	0.49205	2.4606	1.51404	7.32601	3.78674
11:38:24				608	10.11727	0.4875613	2.6574	1.51404	7.08181	3.74771
11:38:24				609	10.11535	0.4893237	2.6574	1.51404	7.08181	3.76236
11:38:25				610	10.10667	0.4882018	2.6574	1.51404	7.13065	3.75406
11:38:25				611	10.10089	0.4886828	2.6574	1.51404	7.17949	3.7586
11:38:26				612	10.098	0.4906064	2.7558	1.51404	7.42369	3.77468
11:38:26				613	10.10956	0.4899649	2.8542	1.56288	7.08181	3.76821
11:38:27				614	10.10089	0.4878807	2.7558	1.56288	7.27717	3.75201
11:38:27				615	10.09993	0.4883633	2.6574	1.51404	7.17949	3.75608
11:38:28				616	10.10571	0.4878807	2.6574	1.51404	6.93529	3.75152
11:38:28				617	10.10956	0.4883632	2.7558	1.51404	7.17949	3.75508
11:38:29				618	10.10571	0.4925303	2.7558	1.51404	7.08181	3.78967
11:38:29				619	10.11438	0.4902864	2.9526	1.51404	7.52137	3.77034
11:38:30				620	10.11631	0.4893238	2.8542	1.51404	7.13065	3.76225
11:38:30				621	10.11245	0.488523	2.6574	1.56288	7.17949	3.7561
11:38:31				622	10.11342	0.4906063	2.6574	1.51404	7.22833	3.77308

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:31				623	10.11438	0.4902864	2.8542	1.51404	7.47253	3.77035
11:38:32				624	10.11631	0.4901265	2.9526	1.51404	7.08181	3.76883
11:38:32				625	10.11438	0.4899649	2.8542	1.4652	7.17949	3.76771
11:38:33				626	10.11438	0.4896451	2.6574	1.51404	7.08181	3.7651
11:38:33				627	10.11727	0.4976605	2.7558	1.56288	7.32601	3.83058
11:38:34				628	10.13461	0.503272	2.9526	1.51404	7.66789	3.87483
11:38:34				629	10.14521	0.4962173	3.0509	1.56288	7.32601	3.81579
11:38:35				630	10.14232	0.4955772	3.0509	1.56288	7.03297	3.81084
11:38:35				631	10.14039	0.547526	3.0509	1.51404	7.03297	4.23901
11:38:36				632	10.18185	0.6781089	3.3461	1.51404	7.57021	5.32311
11:38:36				633	10.3137	0.6861332	3.6412	1.51404	6.39805	5.37117
11:38:37				634	10.36562	0.6627033	3.838	1.56288	4.884	5.16751
11:38:37				635	10.3637	0.6870966	3.9364	1.56288	5.12821	5.37187
11:38:38				636	10.36754	0.7140596	4.0348	1.56288	5.17705	5.59759
11:38:38				637	10.35122	0.7708867	4.2315	1.56288	5.22589	6.07963
11:38:39				638	10.32913	0.7485713	4.5267	1.51404	5.03053	5.89447
11:38:39				639	10.33489	0.767354	4.6251	1.51404	4.884	6.05239
11:38:40				640	10.34258	0.758203	4.7234	1.51404	4.78632	5.97369
11:38:40				641	10.33585	0.7679959	4.6251	1.4652	4.78632	6.05767
11:38:41				642	10.32913	0.7941674	4.9202	4.73748	5.03053	6.28074
11:38:41				643	10.26854	0.7737758	5.2153	2.29548	4.93284	6.11785
11:38:42				644	10.26854	0.7676751	5.117	2.29548	4.93284	6.06609
11:38:42				645	10.29257	0.7604513	4.9202	1.51404	4.884	6.0009
11:38:43				646	10.3041	0.797058	5.117	1.51404	5.07937	6.3096
11:38:43				647	10.29929	0.7731341	5.4121	1.51404	4.93284	6.10723
11:38:44				648	10.3089	0.7742585	5.4121	1.56288	4.73748	6.11516
11:38:44				649	10.28776	0.7757036	5.3137	1.51404	4.68864	6.13097
11:38:45				650	10.282	0.8028382	5.2153	1.85592	4.884	6.36261
11:38:45				651	10.38007	0.8100654	5.5105	1.85592	4.884	6.4069
11:38:46				652	10.41845	0.799948	5.7073	1.51404	4.83516	6.31432
11:38:46				653	10.42996	0.8013934	5.5105	1.51404	4.83516	6.32461
11:38:47				654	10.39159	0.7967367	5.4121	4.05372	4.73748	6.29175
11:38:47				655	10.40406	0.8089413	5.5105	3.36996	4.78632	6.39315
11:38:48				656	10.42708	0.7973789	5.5105	6.78877	4.3956	6.29108
11:38:48				657	10.43284	0.7997872	5.5105	6.78877	4.1514	6.3105
11:38:49				658	10.43379	0.8071744	5.5105	6.15385	4.6398	6.37296
11:38:49				659	10.44536	0.7988247	5.6089	4.59096	4.34676	6.30017
11:38:50				660	10.43475	0.796576	5.4121	3.51648	4.29792	6.28296
11:38:50				661	10.42421	0.7879051	5.3137	3.71184	4.59096	6.21134
11:38:51				662	10.38775	0.8029989	5.5105	2.58852	4.6398	6.34554
11:38:51				663	10.38871	0.7927223	5.6089	1.66056	4.884	6.25818
11:38:52				664	10.37042	0.7898332	5.4121	1.61172	4.78632	6.23683
11:38:52				665	10.3493	0.7920813	5.4121	1.80708	4.98168	6.25952
11:38:53				666	10.37234	0.80316	5.5105	1.51404	5.03053	6.34959
11:38:53				667	10.40022	0.7965761	5.6089	2.10012	4.83516	6.28888

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:38:54				668	10.40118	0.7997873	5.5105	3.12576	4.59096	6.31596
11:38:54	11:37:30 start transect	15	90	669	10.39159	0.8046054	5.5105	2.58852	4.73748	6.35851
11:38:55		15	90.9375	670	10.45015	0.8021959	5.5105	2.39316	4.6398	6.32792
11:38:55		15	91.875	671	10.44536	0.798664	5.5105	3.1746	4.68864	6.29882
11:38:56		15	92.8125	672	10.41845	0.7949711	5.3137	3.85836	4.54212	6.27217
11:38:56		15	93.75	673	10.4127	0.7598093	5.4121	2.83272	4.68864	5.97573
11:38:57		15	94.6875	674	10.39063	0.7765067	5.4121	1.66056	4.83516	6.12051
11:38:57		15	95.625	675	10.35986	0.7814831	5.4121	1.51404	4.6398	6.16783
11:38:58		15	96.5625	676	10.3541	0.7848546	5.4121	1.51404	4.6398	6.19739
11:38:58		15	97.5	677	10.3493	0.7728123	5.4121	1.51404	4.59096	6.09615
11:38:59		15	98.4375	678	10.32913	0.7716886	5.2153	1.51404	4.73748	6.09001
11:38:59		15	99.375	679	10.31659	0.7715279	5.0186	1.51404	4.93284	6.09076
11:39:00		15	100.3125	680	10.30506	0.7797176	5.117	1.7094	4.93284	6.16214
11:39:00		15	101.25	681	10.25021	0.7766663	5.2153	1.75824	4.93284	6.14548
11:39:01		15	102.1875	682	10.26079	0.7720103	5.117	1.51404	4.83516	6.10417
11:39:01		15	103.125	683	10.29257	0.7720102	4.9202	1.51404	4.884	6.09887
11:39:02		15	104.0625	684	10.32145	0.7663915	4.9202	1.56288	4.884	6.04644
11:39:02		15	105	685	10.27623	0.7647863	4.9202	1.51404	4.78632	6.04033
11:39:03		15	105.9375	686	10.25117	0.765107	5.0186	2.6862	4.884	6.04719
11:39:03		15	106.875	687	10.25117	0.7662313	5.0186	2.6862	4.93284	6.05673
11:39:04		15	107.8125	688	10.28007	0.7657482	5.0186	1.51404	4.78632	6.04784
11:39:04		15	108.75	689	10.32433	0.7657481	5.0186	1.56288	4.78632	6.04051
11:39:05		15	109.6875	690	10.34162	0.7705654	5.117	1.56288	4.54212	6.07843
11:39:05		15	110.625	691	10.32913	0.7803591	5.2153	1.51404	4.49328	6.16351
11:39:06		15	111.5625	692	10.31659	0.7704048	5.4121	1.51404	4.44444	6.08121
11:39:06		15	112.5	693	10.33489	0.7810008	5.3137	1.4652	4.68864	6.16797
11:39:07		15	113.4375	694	10.33009	0.7883872	5.4121	1.51404	4.49328	6.23144
11:39:07		15	114.375	695	10.30314	0.785979	5.5105	1.56288	4.73748	6.21558
11:39:08		15	115.3125	696	10.28968	0.7811623	5.5105	1.51404	4.73748	6.17697
11:39:08		15	116.25	697	10.30218	0.783731	5.5105	1.51404	4.3956	6.19666
11:39:09		15	117.1875	698	10.31274	0.784212	5.5105	1.51404	4.24908	6.19895
11:39:09		15	118.125	699	10.31466	0.7834098	5.6089	1.51404	4.34676	6.1918
11:39:10		15	119.0625	700	10.31178	0.7816447	5.6089	1.51404	4.6398	6.17731
11:39:10		15	120	701	10.3137	0.7776291	5.6089	1.51404	4.54212	6.14292
11:39:11		15	120.9375	702	10.31466	0.7814832	5.5105	1.56288	4.59096	6.17546
11:39:11		15	121.875	703	10.3089	0.7784332	5.5105	1.56288	4.49328	6.15056
11:39:12		15	122.8125	704	10.3089	0.779397	5.5105	1.51404	4.59096	6.15873
11:39:12		15	123.75	705	10.3137	0.7720102	5.5105	1.51404	4.73748	6.09528
11:39:13		15	124.6875	706	10.31755	0.7766661	5.6089	1.4652	4.54212	6.13411
11:39:13		15	125.625	707	10.31755	0.7704048	5.5105	1.56288	4.54212	6.08104
11:39:14		15	126.5625	708	10.31562	0.7655878	5.2153	1.56288	4.93284	6.04057
11:39:14		15	127.5	709	10.31466	0.7620573	5.117	1.51404	4.59096	6.01084
11:39:15		15	128.4375	710	10.31562	0.7620573	5.0186	1.51404	4.73748	6.01069
11:39:15		15	129.375	711	10.31851	0.7590062	5.0186	1.51404	4.83516	5.98439
11:39:16		15	130.3125	712	10.32241	0.7490526	5.0186	1.51404	4.54212	5.89958

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:16		15	131.25	713	10.32241	0.7443975	4.8218	1.56288	4.83516	5.86026
11:39:17		15	132.1875	714	10.32337	0.738618	4.8218	1.51404	4.78632	5.8113
11:39:17		15	133.125	715	10.33009	0.7392594	4.7234	1.56288	4.73748	5.81565
11:39:18		15	134.0625	716	10.32721	0.7363706	4.9202	1.4652	4.83516	5.79171
11:39:18		15	135	717	10.32337	0.7293076	4.6251	1.51404	4.6398	5.73277
11:39:19		15	135.9375	718	10.32529	0.7350858	4.5267	1.51404	4.884	5.78121
11:39:19		15	136.875	719	10.31947	0.7400634	4.7234	1.51404	5.07937	5.82413
11:39:20		15	137.8125	720	10.31274	0.7344437	4.8218	1.56288	4.884	5.77775
11:39:20		15	138.75	721	10.30986	0.7389387	4.9202	1.56288	4.73748	5.81615
11:39:21		15	139.6875	722	10.30121	0.7400634	4.9202	1.51404	4.93284	5.82703
11:39:21		15	140.625	723	10.29737	0.7424713	4.9202	1.51404	4.98168	5.84799
11:39:22		15	141.5625	724	10.29161	0.7408658	5.117	1.4652	4.83516	5.83533
11:39:23		15	142.5	727	10.29058	0.7368345	4.9202	1.51404	4.68864	5.80145
11:39:24		15	143.4375	728	10.29635	0.7360318	5.0186	1.56288	4.884	5.79374
11:39:24		15	144.375	729	10.29635	0.7313752	5.0186	1.4652	4.83516	5.75443
11:39:25		15	145.3125	730	10.30019	0.7321782	4.9202	1.51404	4.93284	5.76061
11:39:25		15	146.25	731	10.30212	0.7313752	4.9202	1.51404	4.78632	5.75353
11:39:26		15	147.1875	732	10.30115	0.7246354	4.8218	1.51404	4.83516	5.69683
11:39:26		15	148.125	733	10.30596	0.7124356	4.8218	1.56288	4.884	5.59329
11:39:27		15	149.0625	734	10.31556	0.7050526	4.8218	1.51404	4.93284	5.52971
11:39:27		15	150	735	10.31749	0.7044116	4.8218	1.51404	4.73748	5.52403
11:39:28		15	150.9375	736	10.32133	0.7031267	4.7234	1.51404	4.83516	5.51265
11:39:28		15	151.875	737	10.31941	0.7020038	4.7234	1.51404	4.83516	5.5035
11:39:29		15	152.8125	738	10.32037	0.700077	4.8218	1.56288	4.884	5.48716
11:39:29		15	153.75	739	10.32133	0.6986334	4.8218	1.51404	4.93284	5.47488
11:39:30		15	154.6875	740	10.32229	0.6960654	4.8218	1.51404	5.17705	5.45317
11:39:30		15	155.625	741	10.32325	0.6869183	4.8218	1.51404	4.98168	5.37625
11:39:31		15	156.5625	742	10.32805	0.6845114	4.8218	1.4652	5.03053	5.35536
11:39:31		15	157.5	743	10.32997	0.6792156	4.8218	1.56288	5.17705	5.31069
11:39:32		15	158.4375	744	10.32901	0.6864374	4.9202	1.56288	5.37241	5.37136
11:39:32		15	159.375	745	10.32421	0.6951035	4.9202	1.51404	5.07937	5.4448
11:39:33		15	160.3125	746	10.31845	0.6856344	4.9202	1.56288	5.03053	5.36618
11:39:33		15	161.25	747	10.32133	0.6617238	4.9202	1.51404	5.03053	5.16551
11:39:34		15	162.1875	748	10.33189	0.6679821	4.9202	1.51404	5.27473	5.21635
11:39:34		15	163.125	749	10.33669	0.660921	4.9202	1.56288	5.42125	5.15662
11:39:35		15	164.0625	750	10.33669	0.6673412	5.0186	1.56288	5.32357	5.2103
11:39:35		15	165	751	10.33477	0.6691055	5.0186	1.56288	5.27473	5.22533
11:39:36		15	165.9375	752	10.33285	0.6626872	4.9202	1.51404	5.22589	5.17193
11:39:36		15	166.875	753	10.33285	0.6564283	4.7234	1.51404	5.51893	5.11964
11:39:37		15	167.8125	754	10.33573	0.6543425	4.9202	1.56288	5.47009	5.1018
11:39:37		15	168.75	755	10.33477	0.6553062	4.9202	1.51404	5.47009	5.10998
11:39:38		15	169.6875	756	10.33765	0.652257	4.9202	1.56288	5.51893	5.08412
11:39:38		15	170.625	757	10.33669	0.6530601	4.9202	1.51404	5.66545	5.09096
11:39:39		15	171.5625	758	10.33765	0.639903	4.8218	1.51404	5.42125	4.98108
11:39:39		15	172.5	759	10.33765	0.6358925	4.9202	1.51404	5.51893	4.94765

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:39:40		15	173.4375	760	10.33964	0.6466419	4.9202	1.51404	5.81197	5.03699
11:39:40		15	174.375	761	10.33964	0.6471228	4.9202	1.56288	5.66545	5.041
11:39:41		15	175.3125	762	10.33669	0.6561087	4.9202	1.51404	5.71429	5.11642
11:39:41		15	176.25	763	10.33669	0.6634889	4.9202	1.56288	5.66545	5.17809
11:39:42		15	177.1875	764	10.33669	0.6668593	4.9202	1.51404	5.66545	5.20627
11:39:42		15	178.125	765	10.3406	0.6448766	4.8218	1.51404	5.66545	5.02214
11:39:43		15	179.0625	766	10.3694	0.6382982	4.8218	1.56288	5.66545	4.96339
11:39:43	11:38:19 @ 6:00	15	180	767	10.38955	0.6460002	4.9202	1.56288	5.66545	5.02477
11:39:44		15	180.75	768	10.38475	0.6224156	4.9202	7.03297	5.90965	4.82926
11:39:44		15	181.5	769	10.38379	0.6297945	4.8218	1.66056	5.76313	4.89071
11:39:45		15	182.25	770	10.3694	0.602524	4.9202	1.4652	5.86081	4.66626
11:39:45		15	183	771	10.34444	0.5744544	4.8218	1.51404	6.10501	4.4372
11:39:46		15	183.75	772	10.305	0.5914559	4.8218	1.51404	6.44689	4.58271
11:39:46		15	184.5	773	10.29539	0.594665	4.7234	1.56288	6.54457	4.61053
11:39:47		15	185.25	774	10.30212	0.5943426	4.7234	1.51404	6.54457	4.607
11:39:47		15	186	775	10.30596	0.5935413	4.7234	1.4652	6.44689	4.59988
11:39:48		15	186.75	776	10.3098	0.5967503	4.7234	1.51404	6.49573	4.626
11:39:48		15	187.5	777	10.30884	0.6010796	4.7234	1.56288	6.64225	4.66203
11:39:49		15	188.25	778	10.31172	0.6116668	4.8218	1.51404	6.15385	4.74956
11:39:49		15	189	779	10.31845	0.6281906	4.9202	1.51404	6.10501	4.8861
11:39:50		15	189.75	780	10.32613	0.6159983	5.0186	1.51404	6.00733	4.78365
11:39:50		15	190.5	781	10.32709	0.6487273	5.0186	1.51404	5.95849	5.05611
11:39:51		15	191.25	782	10.33189	0.6628475	5.0186	1.51404	6.10501	5.1734
11:39:51		15	192	783	10.33381	0.6581944	5.3137	1.51404	5.86081	5.13421
11:39:52		15	192.75	784	10.33381	0.6496902	5.117	1.56288	5.12821	5.06321
11:39:52		15	193.5	785	10.3406	0.6777713	5.0186	1.4652	5.12821	5.29703
11:39:53		15	194.25	786	10.3406	0.7003995	5.117	1.51404	5.56777	5.4868
11:39:53		15	195	787	10.38091	0.6647721	5.2153	1.51404	5.47009	5.18252
11:39:54		15	195.75	788	10.3694	0.6419887	5.0186	1.51404	5.17705	4.99411
11:39:54		15	196.5	789	10.37324	0.6378175	4.9202	1.56288	5.61661	4.95886
11:39:55		15	197.25	790	10.37132	0.6331644	4.9202	1.51404	5.76313	4.9204
11:39:55		15	198	791	10.37132	0.6338057	4.9202	1.51404	5.56777	4.92573
11:39:56		15	198.75	792	10.37516	0.6379777	4.9202	1.51404	5.51893	4.95993
11:39:56		15	199.5	793	10.38955	0.6373351	4.9202	1.51404	5.71429	4.95264
11:39:57		15	200.25	794	10.404	0.6330045	4.9202	1.56288	5.76313	4.91467
11:39:57		15	201	795	10.43182	0.6432713	4.9202	1.51404	6.00733	4.99627
11:39:58		15	201.75	796	10.45291	0.6496899	5.0186	1.51404	6.10501	5.04675
11:39:58		15	202.5	797	10.404	0.6556274	5.0186	9.13309	5.56777	5.10298
11:39:59		15	203.25	798	10.38283	0.6647721	5.0186	1.51404	5.66545	5.18226
11:39:59		15	204	799	10.36364	0.6715132	5.0186	1.56288	5.66545	5.24134
11:40:00		15	204.75	800	10.34828	0.676326	5.0186	1.56288	5.66545	5.28382
11:40:00		15	205.5	801	10.33477	0.6865977	5.117	1.51404	5.51893	5.37184
11:40:01		15	206.25	802	10.33381	0.6809807	5.3137	1.51404	5.27473	5.32488
11:40:01		15	207	803	10.33862	0.6883614	5.2153	1.51404	5.03053	5.38606
11:40:02		15	207.75	804	10.33093	0.6827453	5.117	1.56288	5.27473	5.34011

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:02		15	208.5	805	10.32901	0.7081018	5.0186	1.56288	5.42125	5.55329
11:40:03		15	209.25	806	10.37995	0.7304126	5.117	1.51404	5.22589	5.73316
11:40:03		15	210	807	10.47981	0.7074596	5.2153	1.51404	5.03053	5.52505
11:40:04		15	210.75	808	10.4616	0.7066581	5.2153	1.51404	5.07937	5.52108
11:40:04		15	211.5	809	10.49226	0.7100279	5.0186	8.25397	4.78632	5.54469
11:40:05		15	212.25	810	10.51717	0.7360312	5.117	6.30037	5.03053	5.75885
11:40:05		15	213	811	10.55457	0.7135595	5.117	10.74481	4.884	5.56478
11:40:06		15	213.75	812	10.5584	0.7121144	5.117	18.31502	4.884	5.55212
11:40:06		15	214.5	813	10.58041	0.7106703	5.0186	15.87302	4.884	5.53673
11:40:07		15	215.25	814	10.56797	0.744539	5.0186	10.06105	5.27473	5.82223
11:40:07		15	216	815	10.55744	0.7212631	5.2153	10.69597	4.98168	5.62879
11:40:08		15	216.75	816	10.56893	0.7056949	5.0186	12.99145	4.73748	5.4969
11:40:08		15	217.5	817	10.5785	0.6934963	4.9202	13.43101	4.83516	5.3937
11:40:09		15	218.25	818	10.56031	0.6776093	4.9202	12.84493	5.12821	5.26399
11:40:09		15	219	819	10.54979	0.6630074	5.0186	11.62393	5.61661	5.14402
11:40:10		15	219.75	820	10.53542	0.6617234	5.0186	14.65201	5.56777	5.13536
11:40:10		15	220.5	821	10.521	0.695423	5.0186	13.62637	5.47009	5.41825
11:40:11		15	221.25	822	10.52681	0.7117939	5.0186	13.47985	5.51893	5.55423
11:40:11		15	222	823	10.51334	0.6943005	5.0186	12.94261	5.03053	5.41
11:40:12		15	222.75	824	10.53351	0.6832267	5.0186	11.62393	4.93284	5.31465
11:40:12		15	223.5	825	10.52776	0.702484	5.0186	12.30769	5.12821	5.47623
11:40:13		15	224.25	826	10.55074	0.7164487	5.3137	9.86569	5.37241	5.58952
11:40:13		15	225	827	10.5651	0.7002377	5.2153	15.43346	4.98168	5.45189
11:40:14		15	225.75	828	10.57371	0.6920534	5.117	18.6569	4.93284	5.38236
11:40:14		15	226.5	829	10.55649	0.7315363	5.0186	16.75214	5.12821	5.715
11:40:15		15	227.25	830	10.49801	0.7310551	5.2153	15.7265	5.32357	5.72007
11:40:15		15	228	831	10.40016	0.7209416	5.3137	8.35165	4.83516	5.65031
11:40:16		15	228.75	832	10.38187	0.7249558	5.2153	1.7094	4.73748	5.68692
11:40:16		15	229.5	833	10.35116	0.7231904	5.2153	1.51404	4.83516	5.67683
11:40:17		15	230.25	834	10.35788	0.7280045	5.3137	1.56288	4.59096	5.71632
11:40:17		15	231	835	10.32613	0.7241536	5.4121	1.51404	4.59096	5.68882
11:40:18		15	231.75	836	10.35788	0.7211027	5.3137	5.71429	4.6398	5.65821
11:40:18		15	232.5	837	10.38955	0.7324997	5.3137	5.71429	4.6398	5.7492
11:40:19		15	233.25	838	10.34828	0.7320183	5.4121	5.61661	4.6398	5.75164
11:40:19		15	234	839	10.30884	0.7270418	5.5105	5.51893	4.93284	5.71586
11:40:20		15	234.75	840	10.33964	0.7151647	5.3137	1.56288	4.83516	5.61105
11:40:20		15	235.5	841	10.40976	0.736512	5.2153	1.56288	4.884	5.77981
11:40:21		15	236.25	842	10.35308	0.727845	5.5105	9.81685	4.93284	5.71571
11:40:21		15	237	843	10.30404	0.730253	5.4121	9.76801	4.93284	5.74371
11:40:22		15	237.75	844	10.29347	0.7262388	5.4121	1.51404	4.83516	5.7115
11:40:23		15	238.5	847	10.25358	0.7268879	5.4121	1.56288	4.884	5.72323
11:40:24		15	239.25	848	10.28434	0.7308996	5.4121	1.4652	5.12821	5.75227
11:40:24		15	240	849	10.26896	0.7492007	5.4121	1.51404	4.83516	5.90944
11:40:25		15	240.75	850	10.19388	0.734431	5.5105	1.51404	4.83516	5.79645
11:40:25		15	241.5	851	10.2112	0.733789	5.4121	3.56532	4.78632	5.78827

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:26		15	242.25	852	10.25069	0.7302587	5.3137	1.51404	5.03053	5.75217
11:40:26		15	243	853	10.23621	0.7646111	5.4121	1.51404	4.98168	6.04543
11:40:27		15	243.75	854	10.15146	0.7430993	5.6089	1.51404	4.98168	5.87671
11:40:27		15	244.5	855	10.15339	0.7305803	5.4121	1.56288	5.03053	5.77027
11:40:28		15	245.25	856	10.26223	0.7222335	5.117	1.56288	5.12821	5.68261
11:40:28		15	246	857	10.2901	0.7785793	5.4121	1.51404	4.98168	6.15498
11:40:29		15	246.75	858	10.15917	0.7527325	5.8056	1.4652	4.98168	5.95723
11:40:29		15	247.5	859	10.1688	0.7228743	5.4121	1.51404	4.98168	5.70259
11:40:30		15	248.25	860	10.26992	0.7219115	5.117	1.56288	5.07937	5.6787
11:40:30		15	249	861	10.27761	0.7838775	5.4121	1.51404	5.07937	6.20209
11:40:31		15	249.75	862	10.18811	0.7482365	5.7073	1.51404	5.37241	5.91436
11:40:31		15	250.5	863	10.16013	0.74615	5.6089	1.51404	5.03053	5.9012
11:40:32		15	251.25	864	10.13895	0.7265673	5.3137	1.51404	5.17705	5.73856
11:40:32		15	252	865	10.17457	0.7622027	5.3137	1.56288	5.17705	6.0352
11:40:33		15	252.75	866	10.13798	0.7520892	5.5105	1.56288	5.22589	5.95526
11:40:33		15	253.5	867	10.11962	0.7622029	5.6089	1.56288	5.07937	6.04429
11:40:34		15	254.25	868	10.1148	0.7504845	5.6089	1.4652	5.17705	5.9454
11:40:34		15	255	869	10.11288	0.7411742	5.4121	1.51404	5.12821	5.86661
11:40:35		15	255.75	870	10.09939	0.74278	5.3137	1.56288	4.98168	5.88244
11:40:35		15	256.5	871	10.14087	0.7845205	5.5105	1.56288	5.03053	6.23088
11:40:36		15	257.25	872	10.15243	0.7670204	5.7073	1.51404	5.07937	6.07982
11:40:36		15	258	873	10.1505	0.7498417	5.5105	1.51404	5.03053	5.93412
11:40:37		15	258.75	874	10.15435	0.722554	5.2153	1.51404	4.98168	5.70216
11:40:37		15	259.5	875	10.19677	0.7673412	5.3137	1.56288	5.12821	6.07519
11:40:38		15	260.25	876	10.20254	0.7403715	5.6089	1.56288	5.22589	5.84537
11:40:38		15	261	877	10.18522	0.7482365	5.5105	1.51404	4.884	5.91485
11:40:39		15	261.75	878	10.14087	0.7612405	5.4121	1.4652	5.27473	6.0326
11:40:39		15	262.5	879	10.13413	0.7569065	5.5105	1.51404	5.27473	5.99684
11:40:40		15	263.25	880	10.12444	0.7512867	5.5105	1.56288	5.17705	5.95065
11:40:40		15	264	881	10.10324	0.7455086	5.3137	1.51404	5.07937	5.90501
11:40:41		15	264.75	882	10.12444	0.7705509	5.4121	1.51404	5.22589	6.1146
11:40:41		15	265.5	883	10.1042	0.7512868	5.6089	1.51404	5.37241	5.95395
11:40:42		15	266.25	884	10.1071	0.7506457	5.5105	1.51404	5.47009	5.94804
11:40:42		15	267	885	10.11288	0.7477556	5.4121	1.51404	5.22589	5.92253
11:40:43		15	267.75	886	10.17265	0.7355554	5.2153	1.56288	4.98168	5.80938
11:40:43		15	268.5	887	10.16398	0.7636479	5.4121	1.56288	5.03053	6.04924
11:40:44		15	269.25	888	10.13702	0.7605986	5.7073	1.4652	5.12821	6.02775
11:40:44	11:39:20 end transect	15	270	889	10.13028	0.75241	5.8056	1.56288	5.22589	5.95922
11:40:45	reposition			890	10.16206	0.7357155	5.3137	1.56288	5.12821	5.81242
11:40:45				891	10.2189	0.725603	5.117	1.56288	5.17705	5.71784
11:40:46				892	10.2314	0.7721561	5.5105	1.51404	5.17705	6.11029
11:40:46				893	10.16206	0.7512867	5.8056	3.36996	5.42125	5.94448
11:40:47				894	10.15628	0.7414952	5.6089	3.36996	5.37241	5.86233
11:40:47				895	10.20735	0.725603	5.3137	1.56288	5.27473	5.71964
11:40:48				896	10.21601	0.7358774	5.3137	1.56288	5.03053	5.80519

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:40:48				897	10.20543	0.7556213	5.5105	1.51404	4.98168	5.9742
11:40:49				898	10.16398	0.736358	5.6089	3.71184	5.12821	5.81753
11:40:49				899	10.16013	0.7355554	5.5105	3.76068	5.12821	5.81135
11:40:50				900	10.19773	0.7268881	5.4121	1.56288	5.07937	5.73201
11:40:50				901	10.21601	0.7312212	5.4121	1.51404	5.03053	5.76578
11:40:51				902	10.22371	0.7310614	5.5105	6.78877	5.03053	5.7632
11:40:51				903	10.23044	0.7326656	5.5105	1.51404	5.03053	5.7757
11:40:52				904	10.23525	0.7090715	5.4121	1.90476	5.17705	5.57572
11:40:52				905	10.26319	0.7004052	5.4121	3.1746	5.17705	5.49847
11:40:53				906	10.34684	0.6986388	5.5105	10.84249	5.12821	5.47105
11:40:53				907	10.37378	0.7045768	5.5105	13.62637	4.93284	5.51685
11:40:54				908	10.36412	0.7023303	5.4121	11.77045	5.22589	5.49946
11:40:54				909	10.39393	0.6870839	5.4121	10.74481	5.32357	5.3672
11:40:55				910	10.38049	0.6891708	5.5105	9.03541	5.22589	5.38665
11:40:55				911	10.39777	0.690776	5.5105	10.40293	5.03053	5.39755
11:40:56				912	10.39009	0.6829125	5.5105	11.37973	4.73748	5.33284
11:40:56				913	10.40352	0.6827507	5.5105	11.03785	5.07937	5.32953
11:40:57				914	10.41983	0.6599654	5.4121	12.06349	5.03053	5.1369
11:40:57				915	10.42175	0.6721607	5.4121	14.01709	5.07937	5.23839
11:40:58				916	10.43427	0.6721607	5.5105	12.64957	5.03053	5.23659
11:40:58				917	10.42852	0.6740866	5.5105	12.60073	5.03053	5.25349
11:40:59				918	10.4314	0.6763331	5.5105	12.94261	5.42125	5.27184
11:40:59				919	10.43523	0.6761718	5.5105	13.08913	5.32357	5.26994
11:41:00				920	10.4314	0.6715185	5.5105	13.18681	5.37241	5.23164
11:41:00				921	10.42271	0.6788997	5.4121	13.43101	5.17705	5.29455
11:41:01				922	10.41312	0.7337886	5.5105	13.38217	5.81197	5.75633
11:41:01				923	10.37666	0.7069855	5.6089	13.52869	5.81197	5.53663
11:41:02				924	10.34012	0.7076273	5.5105	15.18926	5.22589	5.54757
11:41:02				925	10.37186	0.6755304	5.3137	14.01709	5.37241	5.27373
11:41:03				926	10.38145	0.7317022	5.4121	12.25885	5.32357	5.74375
11:41:03				927	10.33051	0.710356	5.6089	9.86569	5.56777	5.57197
11:41:04				928	10.30746	0.6991206	5.5105	3.51648	5.12821	5.481
11:41:04				929	10.39489	0.6729624	5.2153	5.27473	5.17705	5.24895
11:41:05				930	10.40928	0.740692	5.3137	11.28205	5.32357	5.81508
11:41:05				931	10.33916	0.7249614	5.5105	11.62393	5.56777	5.69359
11:41:06				932	10.27857	0.7153309	5.5105	5.86081	5.37241	5.62183
11:41:06				933	10.37282	0.7079472	5.3137	5.86081	5.37241	5.54531
11:41:07				934	10.38913	0.7331468	5.3137	19.82906	5.47009	5.75472
11:41:07				935	10.32379	0.7561018	5.4121	15.14042	5.22589	5.95892
11:41:08				936	10.20928	0.740532	5.6089	3.71184	5.37241	5.84565
11:41:08				937	10.22082	0.734431	5.5105	3.76068	5.42125	5.79216
11:41:09				938	10.32091	0.6487345	5.2153	1.56288	5.32357	5.05701
11:41:09				939	10.35452	0.7551401	5.4121	1.56288	5.27473	5.94578
11:41:10				940	10.32283	0.7170974	5.7073	2.58852	5.22589	5.62987
11:41:10				941	10.33723	0.6858001	5.5105	2.53968	5.22589	5.36476

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:11				942	10.34588	0.6249897	5.117	1.56288	5.12821	4.85579
11:41:11				943	10.35356	0.744704	5.117	1.56288	5.12821	5.85782
11:41:12				944	10.29779	0.7466323	5.7073	5.86081	5.66545	5.88303
11:41:12				945	10.24294	0.7066642	5.5105	5.86081	5.66545	5.55425
11:41:13				946	10.33916	0.632369	5.117	1.56288	5.17705	4.91809
11:41:13				947	10.34684	0.7154913	5.3137	1.51404	5.12821	5.6127
11:41:14				948	10.44003	0.7341104	5.5105	10.40293	5.90965	5.7548
11:41:14				949	10.39585	0.7079471	5.5105	4.34676	5.37241	5.54181
11:41:15				950	10.4477	0.6978366	5.4121	4.34676	5.37241	5.44927
11:41:15	11:39:51 start transect	15	225	951	10.51292	0.6782571	5.117	4.34676	5.32357	5.27618
11:41:16	moving toward discharge		225	952	10.5043	0.7238364	5.117	14.45665	5.66545	5.65854
11:41:16			225	953	10.44386	0.7193438	5.5105	16.36142	5.56777	5.63014
11:41:17			225	954	10.32763	0.7126033	5.4121	4.93284	5.17705	5.59134
11:41:17	11:39:53	14	225	955	10.48891	0.6639769	5.117	4.884	5.17705	5.16064
11:41:18			225	956	10.48795	0.7313822	5.0186	4.93284	5.17705	5.7244
11:41:18			225	957	10.40256	0.7109966	5.3137	24.32234	5.61661	5.5664
11:41:19			225	958	10.32955	0.7015289	5.3137	9.76801	4.98168	5.49793
11:41:19			225	959	10.47741	0.6874043	5.117	16.60562	5.07937	5.35767
11:41:20			225	960	10.51675	0.6633354	5.117	15.7265	5.47009	5.15138
11:41:20	11:39:56	13	225	961	10.48699	0.6588412	5.117	19.73138	5.47009	5.11816
11:41:21			225	962	10.49568	0.6588412	5.117	14.94505	5.81197	5.11694
11:41:21			225	963	10.52824	0.6541878	5.117	16.65446	5.76313	5.07373
11:41:22			225	964	10.56085	0.6378224	4.9202	25.64103	5.61661	4.93356
11:41:23	11:39:59	12	225	967	10.48017	0.6593573	5.0186	12.55189	5.86081	5.12341
11:41:24			225	968	10.48208	0.6041638	4.8218	20.02442	5.51893	4.66547
11:41:24			225	969	10.32457	0.5587714	4.3299	13.33333	5.86081	4.31021
11:41:25			225	970	10.27839	0.6064101	4.4283	4.59096	6.54457	4.71022
11:41:25	11:40:01	11	225	971	10.29479	0.6332037	4.9202	2.00244	6.83761	4.93104
11:41:26			225	972	10.40046	0.583472	4.8218	14.94505	6.05617	4.50481
11:41:26	11:40:02	10	225	973	10.28896	0.5602161	4.4283	9.47497	6.20269	4.32633
11:41:27			225	974	10.25244	0.55813	4.3299	2.34432	6.54457	4.31344
11:41:27	11:40:03	9	225	975	10.25821	0.6677024	4.8218	2.14896	6.88645	5.22455
11:41:28			225	976	10.4456	0.6317582	5.0186	14.01709	6.20269	4.89874
11:41:28	11:40:04	8	225	977	10.41012	0.5714415	4.7234	22.22222	5.76313	4.40442
11:41:29			225	978	10.31304	0.5719239	4.5267	10.30525	6.20269	4.42012
11:41:29			225	979	10.28416	0.601438	4.8218	3.76068	6.73993	4.66815
11:41:30			225	980	10.314	0.5730457	4.9202	11.18437	6.30037	4.42925
11:41:30			225	981	10.2707	0.5653477	4.7234	9.37729	6.34921	4.37087
11:41:31			225	982	10.25051	0.5512341	4.6251	1.7094	6.54457	4.25672
11:41:31	11:40:07	7	225	983	10.27743	0.5783393	4.7234	1.51404	6.69109	4.4775
11:41:32			225	984	10.34474	0.5687155	4.9202	2.49084	6.59341	4.38979
11:41:32			225	985	10.38703	0.5699988	4.8218	7.27717	6.39805	4.3953
11:41:33			225	986	10.38895	0.5323111	4.4283	7.81441	6.34921	4.08532
11:41:33			225	987	10.32457	0.5837927	4.4283	3.56532	6.49573	4.51685
11:41:34			225	988	10.32841	0.6126671	5.0186	3.61416	6.49573	4.75568

**Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam
(7/17/2008)**

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:34	11:40:10	6	225	989	10.44752	0.5457812	4.9202	1.56288	6.69109	4.1891
11:41:35			225	990	10.27551	0.5061756	4.6251	12.89377	6.39805	3.88357
11:41:35			225	991	10.18985	0.5204458	4.4283	3.32112	6.69109	4.00995
11:41:36			225	992	10.27743	0.545943	4.9202	1.61172	7.66789	4.20995
11:41:36	11:40:12	5	225	993	10.33705	0.5414513	5.117	1.56288	8.00977	4.16615
11:41:37			225	994	10.413	0.5191634	4.9202	1.56288	7.22833	3.97503
11:41:37			225	995	10.26878	0.5072988	4.6251	1.51404	7.17949	3.89348
11:41:38			225	996	10.19466	0.5802641	4.6251	2.39316	7.81441	4.50364
11:41:38	11:40:14	4	225	997	10.47538	0.5868399	5.0186	2.39316	7.81441	4.52334
11:41:39			225	998	10.6057	0.5991918	5.117	1.56288	7.61905	4.60883
11:41:39			225	999	10.71382	0.6182814	4.8218	18.75458	6.78877	4.75212
11:41:40			225	1000	10.76346	0.5624596	4.7234	13.57753	6.49573	4.28898
11:41:40	11:40:16	3	225	1001	10.64879	0.6925755	4.9202	5.47009	7.37485	5.37572
11:41:41				1002	10.60475	0.6752436	5.3137	7.17949	5.86081	5.23792
11:41:41				1003	10.60762	0.6452368	5.117	5.90965	5.12821	4.98862
11:41:42				1004	10.74055	0.60673	4.8218	10.01221	5.71429	4.6538
11:41:42				1005	10.75773	0.7286903	4.8218	16.65446	6.54457	5.66006
11:41:43				1006	10.89419	0.7152058	5.3137	22.61294	5.71429	5.52724
11:41:43				1007	10.86656	0.7214659	5.2153	28.03419	4.93284	5.58334
11:41:44				1008	10.97522	0.7180951	4.9202	25.88523	5.22589	5.53905
11:41:44				1009	11.00375	0.7164901	4.9202	25.29915	5.32357	5.52151
11:41:45				1010	11.10174	0.756782	5.3137	28.66911	6.69109	5.83975
11:41:45				1011	10.86466	0.7468292	5.4121	36.43468	8.20513	5.79445
11:41:46				1012	10.89705	0.7318998	5.2153	28.81563	6.44689	5.6653
11:41:46				1013	10.93424	0.7092668	5.0186	28.57143	6.69109	5.47212
11:41:47				1014	11.04279	0.7383199	5.2153	23.2967	6.34921	5.6961
11:41:47				1015	11.20048	0.7213042	5.5105	35.26252	8.20513	5.53176
11:41:48				1016	11.33227	0.709426	5.6089	35.31136	6.69109	5.41486
11:41:48				1017	11.15774	0.7012409	5.3137	36.19048	7.61905	5.37315
11:41:49				1018	10.72719	0.6776507	5.0186	14.99389	6.54457	5.24046
11:41:49				1019	10.5511	0.6649737	5.3137	4.83516	5.90965	5.16016
11:41:50				1020	11.56956	0.6875987	5.7073	23.93162	6.73993	5.20319
11:41:50				1021	11.39949	0.6814998	5.5105	75.26252	9.37729	5.17735
11:41:51				1022	10.63057	0.6590351	5.0186	24.07814	7.37485	5.09977
11:41:51				1023	10.50604	0.7071819	5.117	8.35165	6.59341	5.51877
11:41:52				1024	10.48017	0.7611192	5.7073	8.35165	6.64225	5.97573
11:41:52				1025	10.53483	0.7152067	5.7073	8.40049	6.59341	5.58152
11:41:53				1026	10.45327	0.6737986	5.2153	12.99145	5.12821	5.24756
11:41:53				1027	10.48304	0.7118364	5.3137	6.10501	5.22589	5.56121
11:41:54				1028	10.57599	0.7078235	5.6089	6.59341	5.86081	5.51357
11:41:54				1029	10.63822	0.7060568	5.7073	19.19414	6.69109	5.48949
11:41:55				1030	10.54057	0.6832668	5.4121	23.88278	6.59341	5.31392
11:41:55				1031	10.52519	0.7174533	5.4121	11.42857	6.64225	5.60182
11:41:56				1032	10.51753	0.7119966	5.5105	3.07692	6.10501	5.5573
11:41:56				1033	10.52232	0.6932188	5.6089	2.9304	5.17705	5.3996

Table B-6. Discharge Plume Dye Concentrations, Temperature, Conductivity, Depth, Turbidity and Salinity Data for Volendam (7/17/2008)

CTD Time	Field Time - Operations	Distance to Discharge Port (m)	Location Around Port (degrees)	Scan	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Concentration (ug/L)	Turbidity (FTU)	Salinity (PSU)
11:41:57				1034	10.50125	0.6951433	5.5105	2.14896	4.83516	5.41879
11:41:57				1035	10.49454	0.6718729	5.4121	1.51404	5.51893	5.22559
11:41:58				1036	10.48592	0.6616029	5.2153	1.51404	5.37241	5.14128
11:41:58				1037	10.45039	0.6567891	5.0186	1.56288	5.66545	5.10619
11:41:59				1038	10.4245	0.645557	4.7234	1.56288	5.37241	5.0163
11:41:59				1039	10.36784	0.6149136	4.3299	1.56288	6.64225	4.76925
11:42:00				1040	10.32265	0.5690371	3.9364	1.51404	5.86081	4.39516
11:42:00				1041	10.28992	0.5794613	3.6412	1.51404	5.86081	4.48533
11:42:01				1042	10.28704	0.5656687	3.4445	1.56288	6.25153	4.37165
11:42:01				1043	10.27743	0.5331128	3.2477	1.56288	6.59341	4.10447
11:42:02				1044	10.25147	0.5286232	2.9526	1.51404	6.73993	4.07047
11:42:02				1045	10.19947	0.5008852	2.6574	1.51404	6.93529	3.84839
11:42:03				1046	10.1792	0.5004042	2.2639	1.51404	7.03297	3.84661
11:42:03				1047	10.15802	0.4968774	1.8703	1.56288	6.98413	3.81993
11:42:04				1048	10.14358	0.4952745	1.4768	1.51404	7.08181	3.80831
11:42:04				1049	10.13684	0.4915861	1.1817	1.51404	7.03297	3.77878
11:42:05				1050	10.12817	0.483731	0.9849	1.61172	6.93529	3.7153
11:42:05				1051	10.09631	0.4854946	0.8865	1.56288	7.27717	3.73302
11:42:06				1052	10.09246	0.4846923	0.7881	1.56288	7.17949	3.72684
11:42:06				1053	10.0886	0.4854946	0.7881	1.51404	7.08181	3.73382
11:42:07				1054	10.0886	0.4856541	0.6898	1.56288	7.03297	3.73513
11:42:07				1055	10.09053	0.4854946	0.5914	1.56288	7.37485	3.73363
11:42:08				1056	10.12329	0.4851739	0.5914	1.4652	9.57265	3.72765
11:42:08				1057	10.19178	0.1255455	0.5914	1.56288	3.71184	0.89141
11:42:09				1058	10.24859	0.0596834	0.6898	1.56288	3.663	0.40982
11:42:09				1059	10.32745	0.0603225	0.6898	0	0	0.4135
11:42:10	11:40:52 switch off			1060	10.39087	0.0940483	0.6898	0	0	0.65543

Appendix C

SKAGWAY HARBOR DEPTH PROFILES

Table C-1. Depth Profile 1 (7/12/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:29:42	9.68828	0.612895	1.3784	5.81197	4.84239
10:29:43	9.68634	0.6148197	1.3784	6.34921	4.85893
10:29:43	9.68052	0.6047115	1.3784	6.15385	4.77427
10:29:44	9.67373	0.607279	1.3784	5.95849	4.79686
10:29:44	9.66688	0.6615162	1.4768	5.81197	5.25794
10:29:45	9.67858	0.6581471	1.4768	6.00733	5.22756
10:29:45	9.69119	0.9094659	1.4768	5.71429	7.39543
10:29:46	9.7727	0.9128409	1.6736	5.76313	7.40821
10:29:46	9.90348	0.9268197	1.5752	5.42125	7.50325
10:29:47	9.96343	0.9753546	1.772	4.54212	7.91411
10:29:48	10.08258	0.9950597	2.0671	3.4188	8.05999
10:29:49	10.10956	1.0389428	2.2639	3.07692	8.43753
10:29:49	10.13756	1.0374947	2.3623	3.07692	8.41835
10:29:50	10.14912	1.0688466	2.4606	2.97924	8.69029
10:29:50	10.17126	1.0538929	2.559	3.02808	8.55399
10:29:51	10.17511	1.0567872	2.6574	2.73504	8.57841
10:29:51	10.17319	1.0743113	2.7558	2.6862	8.73242
10:29:52	10.17999	1.0783326	2.7558	2.73504	8.76605
10:29:52	10.1848	1.0908733	2.8542	2.73504	8.87492
10:29:53	10.20501	1.0977878	2.8542	3.85836	8.93069
10:29:53	10.25893	1.0944106	2.9526	2.83272	8.88786
10:29:54	10.28007	1.1058267	3.0509	2.6862	8.98274
10:29:54	10.29743	1.1167611	3.1493	2.6862	9.07432
10:29:55	10.282	1.1481214	3.1493	2.49084	9.35374
10:29:55	10.26469	1.1429748	3.2477	2.49084	9.31287
10:29:56	10.26566	1.1497309	3.3461	2.34432	9.37208
10:29:56	10.2859	1.1600247	3.3461	2.10012	9.45749
10:29:57	10.33201	1.1645263	3.4445	2.29548	9.48513
10:29:57	10.35416	1.1661354	3.6412	2.14896	9.4935
10:29:58	10.37144	1.1617929	3.7396	2.1978	9.45082
10:29:58	10.37624	1.16903	3.838	2.1978	9.51317
10:29:59	10.39549	1.1728915	3.838	2.24664	9.54209
10:29:59	10.42139	1.1801301	4.1331	2.39316	9.59888
10:30:00	10.40988	1.1767512	4.1331	2.39316	9.57221
10:30:00	10.37624	1.1950879	4.1331	2.24664	9.74246
10:30:01	10.33585	1.2037761	4.3299	2.442	9.82987
10:30:01	10.29263	1.2135888	4.4283	2.53968	9.92826
10:30:02	10.27623	1.208281	4.4283	2.24664	9.88578
10:30:02	10.27527	1.2211499	4.5267	2.10012	9.9999
10:30:03	10.27911	1.2446384	4.6251	2.14896	10.20694
10:30:03	10.30512	1.2541323	4.7234	2.14896	10.28382
10:30:04	10.3532	1.253004	5.0186	2.05128	10.26023
10:30:04	10.35896	1.2507534	5.117	1.80708	10.23867
10:30:05	10.35992	1.2621752	5.2153	1.66056	10.33955
10:30:05	10.35224	1.2578318	5.3137	1.56288	10.30322
10:30:06	10.34648	1.2644292	5.4121	1.66056	10.36331
10:30:06	10.3388	1.2645894	5.5105	1.56288	10.3669
10:30:07	10.33687	1.2679688	5.6089	1.51404	10.3974
10:30:07	10.33976	1.2660373	5.7073	1.66056	10.37944
10:30:08	10.35608	1.2671631	5.8056	2.00244	10.38476
10:30:08	10.35992	1.2678085	5.8056	1.85592	10.38939
10:30:09	10.36184	1.2673255	5.904	1.66056	10.38454

Table C-1. Depth Profile 1 (7/12/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:30:09	10.3724	1.2724747	6.0024	1.7094	10.42716
10:30:10	10.37624	1.2795542	6.1008	1.75824	10.48882
10:30:10	10.38199	1.2882424	6.2976	1.51404	10.5642
10:30:11	10.38967	1.2816454	6.4943	1.41636	10.50344
10:30:11	10.38967	1.2887262	6.5927	1.4652	10.56623
10:30:12	10.38679	1.2921051	6.5927	1.7094	10.59704
10:30:12	10.37911	1.2980599	6.6911	1.56288	10.65213
10:30:13	10.36376	1.2932307	6.7895	1.51404	10.6137
10:30:13	10.3532	1.2978983	6.8878	1.75824	10.65823
10:30:14	10.34168	1.2948413	6.8878	1.4652	10.63442
10:30:14	10.33976	1.3035303	6.8878	1.26984	10.71223
10:30:15	10.32529	1.3046574	7.0846	1.85592	10.72648
10:30:15	10.31088	1.3046575	7.183	1.4652	10.7307
10:30:16	10.3032	1.3139917	7.2814	1.41636	10.81609
10:30:16	10.29551	1.333144	7.4781	1.4652	10.98914
10:30:17	10.26277	1.345215	7.5765	1.4652	11.10687
10:30:17	10.21174	1.364367	7.7733	1.51404	11.294
10:30:18	10.19923	1.390928	7.7733	1.56288	11.53633
10:30:18	10.15682	1.429081	7.9701	1.61172	11.89347
10:30:19	10.06324	1.4305308	8.0684	1.56288	11.93723
10:30:19	10.01495	1.5165158	8.0684	1.4652	12.73426
10:30:20	9.93379	1.548405	8.1668	1.51404	13.0543
10:30:20	9.8341	1.5616115	8.2652	1.51404	13.21153
10:30:21	9.68864	1.5529157	8.462	1.66056	13.18463
10:30:21	9.59829	1.5851308	8.6587	1.75824	13.51565
10:30:22	9.54579	1.6539199	8.7571	1.56288	14.17466
10:30:22	9.50588	1.6842099	8.9539	1.61172	14.47307
10:30:23	9.39484	1.7597895	9.0523	1.51404	15.22782
10:30:23	9.27672	1.8063699	9.1506	1.66056	15.7187
10:30:24	9.25129	1.9026129	9.249	1.56288	16.6449
10:30:24	8.94472	1.925027	9.4458	1.56288	17.004
10:30:25	8.79438	2.0196906	9.5442	1.80708	17.99389
10:30:25	8.67422	2.1159902	9.6426	2.05128	18.99688
10:30:26	8.58447	2.1119561	9.7409	1.90476	19.00536
10:30:26	8.41151	2.1700381	9.8393	1.7094	19.67322
10:30:27	8.26585	2.1658434	9.8393	2.05128	19.71289
10:30:27	8.2043	2.2891308	10.1345	1.85592	20.98018
10:30:28	8.13277	2.3504676	10.3312	1.56288	21.64047
10:30:28	8.03433	2.4206906	10.528	1.4652	22.4127
10:30:29	7.84892	2.4455532	10.6264	1.41636	22.78548
10:30:29	7.72299	2.3929238	10.8232	1.36752	22.3287
10:30:30	7.67199	2.3741984	10.7248	1.26984	22.16969
10:30:30	7.74202	2.3654813	10.7248	1.26984	22.03625
10:30:31	7.87688	2.4135863	10.7248	1.221	22.44113
10:30:31	7.9467	2.3590225	10.7248	1.26984	21.84215
10:30:32	7.97058	2.3515976	10.7248	1.66056	21.75202
10:30:32	7.98251	2.3548251	10.8232	1.36752	21.77728
10:30:33	8.00544	2.3825907	10.8232	1.26984	22.04437
10:30:33	8.0124	2.4000244	10.8232	1.17216	22.21681
10:30:34	7.97058	2.3932464	10.8232	1.31868	22.17448
10:30:34	7.9118	2.4074536	10.8232	1.41636	22.35629
10:30:35	7.86487	2.4429715	10.8232	1.36752	22.74867

Table C-1. Depth Profile 1 (7/12/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:30:35	7.81198	2.4431342	10.8232	1.31868	22.78476
10:30:36	7.76304	2.4545973	10.8232	1.26984	22.93413
10:30:36	7.718	2.4552421	10.8232	1.26984	22.97035
10:30:37	7.68498	2.4736502	10.7248	1.26984	23.1813
10:30:37	7.659	2.4700986	10.8232	1.31868	23.162
10:30:38	7.63495	2.4692898	10.8232	1.66056	23.16966
10:30:38	7.59188	2.4696131	10.8232	1.31868	23.20165
10:30:39	7.56781	2.4723582	10.8232	1.07448	23.24602
10:30:39	7.54472	2.4786566	10.8232	1.12332	23.32646
10:30:40	7.55179	2.4784933	10.8232	1.07448	23.32004
10:30:40	7.5578	2.4796242	10.8232	1.12332	23.32769
10:30:41	7.53671	2.4804319	10.7248	1.07448	23.3502
10:30:41	7.53071	2.4828553	10.7248	1.221	23.37927
10:30:42	7.5267	2.4899591	10.8232	1.12332	23.45534
10:30:42	7.52269	2.49319	10.8232	1.07448	23.49144
10:30:43	7.5257	2.4938357	10.7248	1.12332	23.49613
10:30:43	7.53872	2.4941571	10.8232	1.221	23.49062
10:30:44	7.53571	2.4925412	10.8232	1.07448	23.47595
10:30:44	7.53571	2.4927048	10.8232	1.36752	23.47764
10:30:45	7.53972	2.4935112	10.8232	1.07448	23.48327
10:30:45	7.54072	2.4946422	10.7248	1.12332	23.49432
10:30:46	7.54172	2.4969018	10.8232	1.07448	23.51696
10:30:46	7.54072	2.5012628	10.8232	1.26984	23.56272
10:30:47	7.54372	2.5015846	10.7248	1.07448	23.56405
10:30:48	7.56268	2.5031701	10.8232	1.07448	23.56756
10:30:49	7.55067	2.5055912	10.8232	1.02564	23.60073
10:30:49	7.55267	2.5080133	10.8232	1.26984	23.62441
10:30:50	7.55067	2.5177026	10.8232	0.9768	23.72597
10:30:50	7.55067	2.5147956	10.7248	1.41636	23.69593
10:30:51	7.5436	2.5154439	10.8232	1.07448	23.70742
10:30:51	7.53258	2.5177028	10.8232	1.02564	23.7383
10:30:52	7.52057	2.5170574	10.8232	1.02564	23.73982
10:30:52	7.50955	2.5173802	10.8232	1.02564	23.75069
10:30:53	7.50348	2.5185099	10.8232	0.9768	23.76654
10:30:53	7.49246	2.5246464	10.8232	1.02564	23.83766
10:30:54	7.49747	2.5265854	10.8232	1.02564	23.85433
10:30:54	7.47743	2.5270705	10.8232	0.9768	23.87311
10:30:55	7.4493	2.5243266	10.8232	1.02564	23.86396
10:30:55	7.43921	2.5209349	10.7248	1.02564	23.83573
10:30:56	7.42918	2.5227114	10.8232	1.02564	23.86102
10:30:56	7.42718	2.5273942	10.8232	0.9768	23.91103
10:30:57	7.43821	2.5306219	10.8232	1.17216	23.93695
10:30:57	7.44729	2.5272324	10.8232	1.75824	23.8955
10:30:58	7.45632	2.5248082	10.8232	1.02564	23.86414
10:30:58	7.46233	2.5272323	10.8232	1.07448	23.88516
10:30:59	7.47542	2.526424	10.8232	1.07448	23.86778
10:30:59	7.48043	2.5251312	10.8232	0.9768	23.85094
10:31:00	7.47436	2.5265856	10.8232	1.02564	23.87019
10:31:00	7.46534	2.5275555	10.8232	0.9768	23.88645
10:31:01	7.46033	2.5262625	10.8232	0.9768	23.87648
10:31:01	7.46333	2.5261009	10.8232	0.9768	23.87273
10:31:02	7.46834	2.5288458	10.8232	1.07448	23.89777

Table C-1. Depth Profile 1 (7/12/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:31:02	7.47943	2.5280404	10.8232	1.07448	23.88179
10:31:03	7.49246	2.5296541	10.8232	1.02564	23.88958
10:31:03	7.48745	2.527717	10.8232	1.02564	23.87293
10:31:04	7.50147	2.5235184	10.8232	1.02564	23.81979
10:31:04	7.52858	2.5220645	10.8232	1.02564	23.78619
10:31:05	7.53559	2.522549	10.8232	1.02564	23.78641
10:31:05	7.51957	2.5209343	10.8232	1.02564	23.78065
10:31:06	7.47436	2.5189944	10.8232	1.02564	23.79147
10:31:06	7.48344	2.5193201	10.8232	1.12332	23.78863
10:31:07	7.50248	2.517703	10.8232	1.17216	23.75886
10:31:07	7.50955	2.5154441	10.8232	1.12332	23.73064
10:31:08	7.52758	2.5131831	10.8232	1.07448	23.69494
10:31:08	7.54866	2.5175413	10.8232	1.02564	23.72566
10:31:09	7.55667	2.5165731	10.8232	1.02564	23.71019
10:31:09	7.53158	2.5094666	10.8232	1.26984	23.65376
10:31:10	7.51356	2.509792	10.8232	0.9768	23.66939
10:31:10	7.52357	2.5178642	10.8232	1.02564	23.74612
10:31:11	7.52157	2.518994	10.7248	0.9768	23.75922
10:31:11	7.50147	2.5198043	10.8232	0.9768	23.78131
10:31:12	7.49847	2.5170576	10.8232	1.02564	23.75491
10:31:12	7.50748	2.5156055	10.8232	1.02564	23.73372
10:31:13	7.51856	2.5133444	10.8232	0.9768	23.70275
10:31:13	7.51957	2.5139895	10.8232	1.02564	23.70875
10:31:14	7.52157	2.5084998	10.8232	1.02564	23.65057
10:31:14	7.55167	2.5047831	10.7248	1.02564	23.59173
10:31:15	7.55567	2.5084995	10.7248	1.02564	23.62743
10:31:15	7.55267	2.5084995	10.6264	1.07448	23.6295
10:31:16	7.54967	2.5086607	10.6264	1.07448	23.63321
10:31:16	7.5436	2.5072078	10.6264	1.12332	23.62231
10:31:17	7.53759	2.5060774	10.528	1.02564	23.61473
10:31:17	7.53358	2.4887992	10.528	1.07448	23.43882
10:31:18	7.5436	2.4829859	10.528	1.07448	23.37203
10:31:18	7.56168	2.4490772	10.4296	1.07448	23.0102
10:31:19	7.57569	2.4369653	10.2329	1.17216	22.87629
10:31:19	7.60776	2.3817503	10.0361	1.12332	22.28824
10:31:20	7.71288	2.3451062	9.7409	1.31868	21.84694
10:31:20	7.91864	2.3329974	9.4458	1.36752	21.59604
10:31:21	8.04812	2.157086	9.3474	1.31868	19.74782
10:31:21	8.10088	2.1532135	9.1506	1.66056	19.67954
10:31:22	8.18732	2.0819049	9.0523	1.56288	18.92204
10:31:22	8.28361	1.9594823	8.7571	1.51404	17.66275
10:31:23	8.63865	1.8248494	8.5604	1.66056	16.1811
10:31:23	9.14368	1.6148617	8.1668	2.10012	13.96711
10:31:24	9.3616	1.6425716	7.9701	1.7094	14.14145
10:31:24	9.61668	1.4597579	7.7733	1.51404	12.35349
10:31:25	9.79043	1.4913195	7.4781	1.4652	12.58277
10:31:25	9.98497	1.3815103	7.2814	1.51404	11.51955
10:31:26	10.09601	1.3325765	6.9862	1.9536	11.04453
10:31:26	10.16741	1.3695968	6.7895	2.10012	11.35489
10:31:27	10.21649	1.329035	6.4943	1.9536	10.97641
10:31:27	10.2531	1.3140673	6.2976	1.61172	10.8318
10:31:28	10.27911	1.2991012	6.0024	1.4652	10.69075

Table C-1. Depth Profile 1 (7/12/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:31:28	10.30121	1.2949164	5.8056	1.36752	10.64707
10:31:29	10.33297	1.2839739	5.6089	1.80708	10.54059
10:31:29	10.3397	1.2802723	5.4121	1.4652	10.50581
10:31:30	10.33585	1.2706174	5.117	1.4652	10.42127
10:31:30	10.33489	1.2562975	4.9202	1.56288	10.29458
10:31:31	10.32043	1.242942	4.7234	1.51404	10.18034
10:31:31	10.29929	1.2337707	4.5267	2.00244	10.10502
10:31:32	10.27431	1.2218642	4.2315	2.83272	10.00653
10:31:32	10.26367	1.1948389	3.9364	2.00244	9.7704
10:31:33	10.27911	1.1967683	3.838	1.9536	9.78332
10:31:33	10.29545	1.1764992	3.6412	2.05128	9.60012
10:31:34	10.31947	1.1764991	3.4445	2.442	9.59383
10:31:34	10.3397	1.1580018	3.1493	2.24664	9.42579
10:31:35	10.3541	1.1547838	2.9526	2.29548	9.39382
10:31:35	10.35602	1.1589659	2.7558	2.39316	9.4301
10:31:36	10.34162	1.1452958	2.559	2.39316	9.31373
10:31:36	10.32529	1.1147386	2.4606	2.34432	9.04976
10:31:37	10.27238	1.129535	2.3623	2.49084	9.19286
10:31:37	10.23964	1.0774316	2.1655	2.97924	8.74389
10:31:38	10.20398	0.9922271	1.9687	2.97924	8.0085
10:31:38	10.12691	0.93887	1.8703	2.73504	7.56161
10:31:39	10.06999	0.8586954	1.772	2.83272	6.8799
10:31:39	9.96856	0.8195024	1.5752	2.78388	6.56126
10:31:40	9.89695	0.7530199	1.4768	3.12576	6.00324
10:31:40	9.86596	0.7668283	1.2801	4.24908	6.12674
10:31:41	9.82533	0.6732385	1.1817	4.73748	5.33443
10:31:41	9.79043	0.6676219	1.0833	5.12821	5.29186
10:31:42	9.76422	0.6512527	0.9849	5.61661	5.15674
10:31:42	9.74485	0.6485243	0.9849	6.83761	5.13635
10:31:43	9.73904	0.6470792	0.9849	6.44689	5.12492
10:31:43	9.74291	0.6416241	0.9849	6.88645	5.07812
10:31:44	9.74679	0.7326311	0.9849	6.64225	5.85327
10:31:44	9.75551	0.7321495	1.0833	6.69109	5.84773
10:31:45	9.80398	0.7873827	1.1817	6.78877	6.31406
10:31:45	9.85532	0.8052087	1.1817	6.49573	6.45857
10:31:46	9.88922	0.8350825	1.2801	6.15385	6.71011
10:31:46	9.89405	0.8071371	1.3784	5.81197	6.46824
10:31:47	9.89309	0.8040848	1.3784	5.47009	6.44214
10:31:48	9.8532	0.826898	1.3784	6.00733	6.64605
10:31:49	9.86384	0.8026455	1.3784	5.90965	6.43495
10:31:49	9.86771	0.7992736	1.3784	5.56777	6.40523
10:31:50	9.85707	0.816298	1.4768	5.66545	6.55383
10:31:50	9.85224	0.8466555	1.3784	5.81197	6.81708
10:31:51	9.85901	0.8848888	1.3784	5.86081	7.14737
10:31:51	9.89387	0.8876213	1.4768	6.44689	7.1642
10:31:52	9.90644	0.8742868	1.3784	6.15385	7.04606
10:31:52	9.90257	0.8864954	1.4768	5.76313	7.15271
10:31:53	9.92576	0.8893884	1.4768	5.61661	7.17323
10:31:53	9.94225	0.9028833	1.4768	5.27473	7.2871
10:31:54	9.9548	0.8026452	1.3784	5.47009	6.41882
10:31:54	9.93935	0.77679	1.3784	5.12821	6.19966
10:31:55	9.9132	0.7616965	1.4768	5.22589	6.07479

Table C-1. Depth Profile 1 (7/12/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:31:55	9.89774	0.7636238	1.3784	5.71429	6.0939
10:31:56	9.89291	0.7644269	1.3784	5.66545	6.1016
10:31:56	9.88904	0.7551147	1.3784	5.56777	6.02249
10:31:57	9.87061	0.7398609	1.3784	5.37241	5.89503

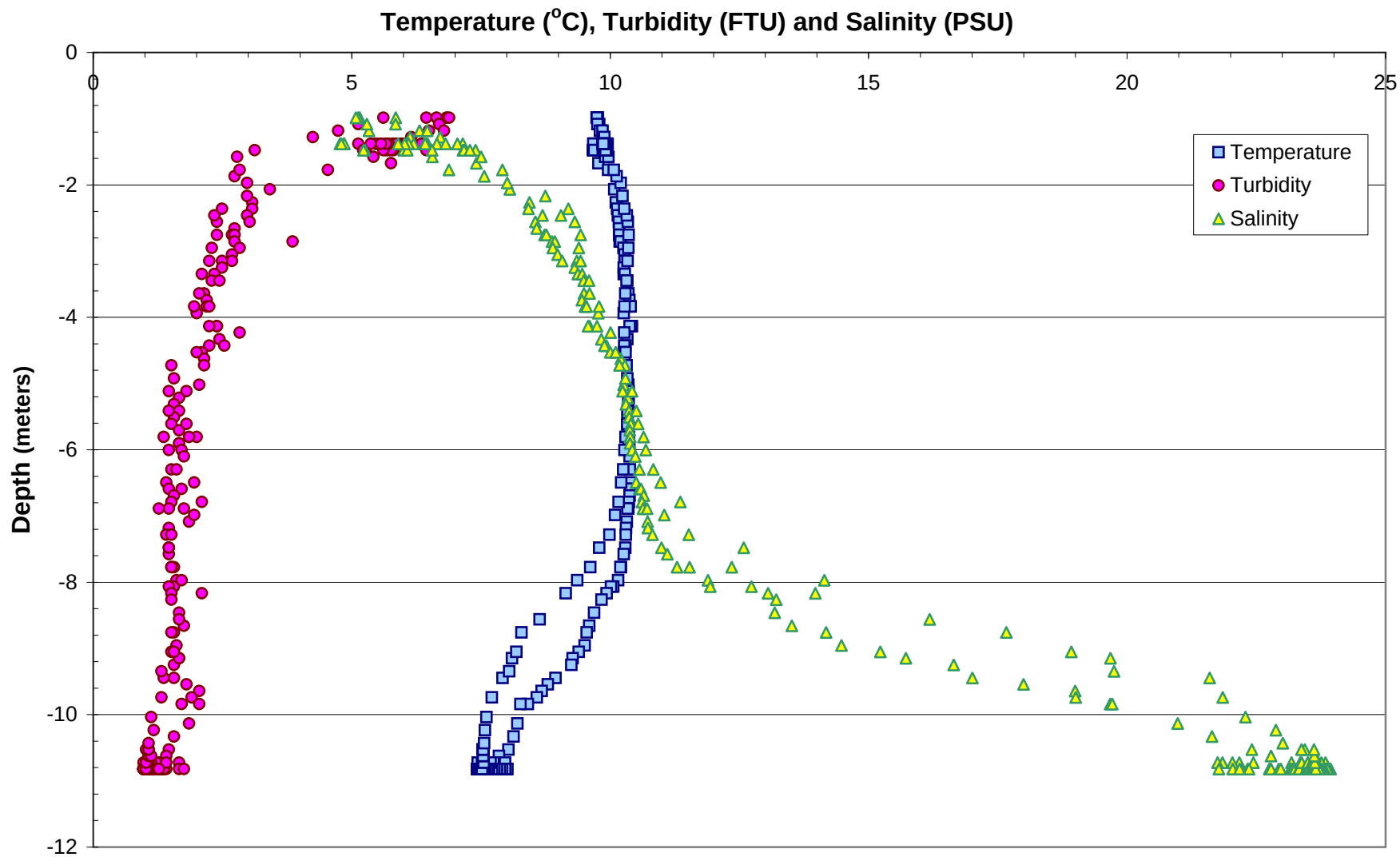


Figure C-1. Depth Profile 1 (7/12/08)

Table C-2. Depth Profile 2 (7/15/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
9:54:01	8.78713	0.2670765	1.1817	13.67521	2.0516
9:54:01	8.7891	0.2677179	1.1817	13.23565	2.0567
9:54:02	8.79696	0.2651556	1.1817	13.72405	2.03542
9:54:02	8.80193	0.2648347	1.1817	13.52869	2.03254
9:54:03	8.79598	0.2662755	1.1817	13.13797	2.04458
9:54:03	8.79696	0.2662755	1.1817	13.18681	2.04452
9:54:04	8.79794	0.2662755	1.1817	13.52869	2.04447
9:54:04	8.79794	0.2662755	1.1817	14.31013	2.04447
9:54:05	8.79991	0.2669166	1.1817	13.62637	2.04956
9:54:05	8.79598	0.268038	1.2801	13.52869	2.0589
9:54:06	8.78615	0.272202	1.3784	13.87057	2.09334
9:54:06	8.7891	0.2778075	1.5752	14.16361	2.13882
9:54:07	8.81961	0.2739636	1.6736	13.38217	2.1057
9:54:07	8.81863	0.2813317	1.6736	13.04029	2.16576
9:54:08	8.85012	0.2888601	1.8703	13.28449	2.22522
9:54:08	8.87864	0.2866169	1.8703	13.62637	2.20516
9:54:09	8.89041	0.2957469	1.9687	13.04029	2.27889
9:54:09	8.89532	0.2989516	2.1655	13.67521	2.30475
9:54:10	8.89336	0.2997514	2.3623	13.62637	2.3114
9:54:10	8.89532	0.2975097	2.4606	13.38217	2.29296
9:54:11	8.8914	0.3010332	2.559	12.94261	2.322
9:54:11	8.89238	0.313209	2.6574	12.60073	2.42161
9:54:12	8.90421	0.3120873	2.7558	12.84493	2.41161
9:54:12	8.91108	0.3268268	2.8542	13.08913	2.5321
9:54:13	8.92383	0.4409479	3.0509	13.67521	3.48023
9:54:13	9.00235	0.4531349	3.1493	12.74725	3.57495
9:54:14	9.1631	0.4130505	3.3461	10.20757	3.22462
9:54:14	9.21402	0.4366178	3.4445	9.42613	3.41602
9:54:15	9.21695	0.45602	3.4445	9.57265	3.5777
9:54:15	9.25605	0.4515308	3.6412	9.81685	3.53631
9:54:16	9.27166	0.459388	3.7396	9.47497	3.60036
9:54:16	9.27459	0.4613121	3.838	9.18193	3.61614
9:54:17	9.27654	0.4616333	3.9364	9.42613	3.61862
9:54:17	9.27654	0.482642	3.9364	9.52381	3.79447
9:54:18	9.29611	0.4892164	4.1331	9.67033	3.84753
9:54:18	9.31073	0.482481	4.2315	9.27961	3.7895
9:54:19	9.31171	0.490179	4.3299	9.32845	3.85392
9:54:19	9.31171	0.5134378	4.4283	9.62149	4.04937
9:54:20	9.30976	0.5015669	4.6251	9.91453	3.94972
9:54:20	9.31469	0.5097472	4.7234	9.71917	4.01795
9:54:21	9.32542	0.6239943	4.9202	8.74237	4.986
9:54:21	9.37907	0.5949439	5.117	8.74237	4.73094
9:54:22	9.38199	0.5734405	5.3137	7.61905	4.54792
9:54:22	9.38394	0.610994	5.3137	7.76557	4.86694
9:54:23	9.3879	0.7065136	5.4121	8.25397	5.6857
9:54:23	9.39471	0.7166305	5.7073	8.00977	5.77194
9:54:24	9.39471	0.6891712	5.8056	7.13065	5.53512
9:54:24	9.39277	0.7922803	5.904	6.88645	6.42869
9:54:25	9.38498	0.7519617	6.0024	7.03297	6.07941
9:54:25	9.38297	0.6928651	6.0024	6.78877	5.56873
9:54:26	9.38984	0.7187179	6.1008	6.83761	5.79072

Table C-2. Depth Profile 2 (7/15/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
9:54:26	9.39471	0.8517287	6.1008	6.93529	6.94809
9:54:27	9.39666	0.8713338	6.2976	6.93529	7.11982
9:54:27	9.35082	0.8300351	6.4943	6.73993	6.76625
9:54:28	9.35277	0.7940478	6.4943	6.15385	6.45121
9:54:28	9.37907	0.8210388	6.3959	6.10501	6.68222
9:54:29	9.38498	0.768667	6.2976	6.25153	6.22447
9:54:29	9.39374	0.8057743	6.2976	6.39805	6.54616
9:54:30	9.3879	0.8666729	6.2976	7.08181	7.0806
9:54:30	9.37225	0.8698862	6.4943	7.22833	7.11191
9:54:31	9.34491	0.8960835	6.4943	6.44689	7.34818
9:54:31	9.36738	0.8528531	6.6911	6.30037	6.96319
9:54:32	9.37615	0.8531739	6.5927	5.76313	6.96431
9:54:32	9.3703	0.832606	6.4943	6.05617	6.7851
9:54:33	9.37128	0.8199135	6.4943	6.54457	6.67382
9:54:33	9.35764	0.8340535	6.5927	6.83761	6.80017
9:54:34	9.35374	0.8520495	6.6911	6.10501	6.95878
9:54:34	9.35472	0.8350165	6.6911	5.56777	6.80915
9:54:35	9.35861	0.8314811	6.5927	5.42125	6.77744
9:54:35	9.36446	0.8287506	6.3959	6.10501	6.75245
9:54:36	9.36446	0.8444966	6.4943	6.25153	6.89044
9:54:36	9.36836	0.9034758	6.4943	6.39805	7.40859
9:54:37	9.46297	0.8981726	6.6911	5.76313	7.34242
9:54:37	9.5029	0.8673157	6.7895	4.6398	7.06356
9:54:38	9.47561	0.8523698	6.6911	4.54212	6.93802
9:54:39	9.40512	0.9039825	6.4943	6.00733	7.40548
9:54:40	9.4967	0.9049461	6.5927	5.95849	7.3951
9:54:40	9.57165	0.8797121	6.6911	5.37241	7.15854
9:54:41	9.56291	0.8930511	6.6911	4.78632	7.27715
9:54:41	9.50545	0.8989988	6.6911	5.42125	7.34102
9:54:42	9.5269	0.9052674	6.5927	5.81197	7.39172
9:54:42	9.59696	0.9046245	6.5927	6.15385	7.37172
9:54:43	9.62517	0.9031779	6.6911	5.32357	7.35327
9:54:43	9.64554	0.8991597	6.5927	4.98168	7.31395
9:54:44	9.63972	0.8911224	6.5927	4.83516	7.2448
9:54:44	9.55999	0.9020533	6.5927	5.22589	7.35672
9:54:45	9.55611	0.9284137	6.5927	5.76313	7.58919
9:54:45	9.6844	0.9403096	6.8878	5.07937	7.66658
9:54:46	9.77179	0.9210184	6.9862	3.80952	7.47925
9:54:46	9.72814	0.9203759	6.9862	3.32112	7.48267
9:54:47	9.66113	0.9055884	6.9862	3.4188	7.36701
9:54:47	9.64166	0.9208581	6.9862	3.46764	7.50484
9:54:48	9.67179	0.9350049	6.8878	3.4188	7.62268
9:54:48	9.77857	0.9407909	6.9862	3.51648	7.65082
9:54:49	9.82509	0.9234292	6.9862	3.56532	7.48928
9:54:49	9.82702	0.931629	6.9862	3.51648	7.56049
9:54:50	9.82606	0.940469	6.9862	3.51648	7.63797
9:54:50	9.84837	0.9594386	7.0846	3.32112	7.79919
9:54:51	9.89387	0.9550985	7.2814	3.56532	7.75142
9:54:51	9.91616	0.9740707	7.2814	3.32112	7.91254
9:54:52	9.9152	1.0030117	7.3798	3.27228	8.16636
9:54:52	9.90257	1.0290633	7.4781	3.12576	8.39816

Table C-2. Depth Profile 2 (7/15/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
9:54:53	9.82606	1.0292244	7.6749	3.36996	8.41732
9:54:53	9.66985	1.0184515	7.6749	3.56532	8.35843
9:54:54	9.56679	1.0170038	7.6749	3.71184	8.36952
9:54:54	9.55805	1.0678243	7.7733	3.76068	8.82356
9:54:55	9.30555	1.2461043	7.9701	3.71184	10.49841
9:54:55	9.00009	1.1263801	8.0684	5.03053	9.4935
9:54:56	9.05993	1.1857534	7.9701	5.42125	10.01837
9:54:56	9.08048	1.2327464	7.9701	4.93284	10.44223
9:54:57	8.95005	1.7627529	8.1668	5.07937	15.44681
9:54:57	8.65281	1.9859721	8.462	5.47009	17.73723
9:54:58	8.39379	1.8416079	8.6587	4.05372	16.45648
9:54:58	8.38094	1.7177753	8.5604	3.07692	15.26135
9:54:59	8.50267	1.8282211	8.5604	2.78388	16.27604
9:54:59	8.54811	1.7488903	8.5604	3.12576	15.48888
9:55:00	8.44825	1.7724295	8.6587	4.24908	15.76027
9:55:00	8.37006	1.8166121	8.6587	4.73748	16.22428
9:55:01	8.35813	1.7234174	8.6587	3.07692	15.32575
9:55:01	8.43541	1.6437861	8.462	2.97924	14.52567
9:55:02	8.46609	2.117967	8.462	4.10256	19.12871
9:55:02	8.30465	2.2550129	8.6587	4.05372	20.57992
9:55:03	8.0791	2.1702645	8.7571	2.39316	19.86238
9:55:03	8.08611	2.0635843	8.6587	1.75824	18.79442
9:55:04	8.17257	1.9422563	8.462	1.85592	17.54883
9:55:04	8.21433	2.1833386	8.462	2.39316	19.91657
9:55:05	8.13382	2.3338083	8.6587	2.442	21.47242
9:55:05	7.84886	2.2277317	8.7571	1.9536	20.57294
9:55:06	7.83784	2.1820483	8.5604	1.7094	20.11839
9:55:06	7.93768	2.2030341	8.462	1.7094	20.27219
9:55:07	7.92866	2.3175016	8.5604	2.10012	21.43315
9:55:07	7.78692	2.3195995	8.6587	1.80708	21.54146
9:55:08	7.67786	2.248398	8.7571	1.75824	20.88381
9:55:08	7.7699	2.2475918	8.5604	1.7094	20.82071
9:55:09	7.84786	2.2115894	8.462	1.85592	20.4106
9:55:09	7.8658	2.3360696	8.462	2.05128	21.66018
9:55:10	7.7379	2.3236371	8.7571	1.80708	21.6128
9:55:10	7.58969	2.2763314	8.7571	1.80708	21.22153
9:55:11	7.63982	2.2627672	8.5604	1.66056	21.05292
9:55:11	7.68685	2.2656733	8.462	1.80708	21.05413
9:55:12	7.68385	2.3070058	8.5604	1.85592	21.47676
9:55:12	7.63076	2.2879531	8.6587	1.75824	21.31505
9:55:13	7.61676	2.2742312	8.6587	1.9536	21.18366
9:55:13	7.64182	2.2947368	8.5604	1.9536	21.37749
9:55:14	7.63076	2.3291286	8.5604	2.00244	21.73547
9:55:14	7.55661	2.3654619	8.7571	1.80708	22.15422
9:55:15	7.47029	2.3312283	8.7571	1.66056	21.8574
9:55:15	7.47329	2.3291298	8.6587	1.61172	21.834
9:55:16	7.52952	2.3231537	8.5604	1.85592	21.73751
9:55:16	7.51944	2.4026072	8.5604	1.90476	22.55992
9:55:17	7.39991	2.4764196	8.7571	1.85592	23.40139
9:55:17	7.22171	2.4347495	8.9539	1.75824	23.08815
9:55:18	7.17731	2.5051763	8.9539	1.75824	23.85243

Table C-2. Depth Profile 2 (7/15/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
9:55:18	7.06724	2.7737351	9.1506	1.66056	26.76287
9:55:19	6.68105	2.7205663	9.3474	1.66056	26.49444
9:55:19	6.52633	2.8167373	9.5442	1.17216	27.65214
9:55:20	6.36411	2.7640445	9.6426	1.02564	27.21185
9:55:20	6.32014	2.836785	9.7409	1.02564	28.03789
9:55:21	6.17996	2.8396961	9.8393	0.9768	28.18543
9:55:21	6.08562	2.844061	10.1345	0.9768	28.3116
9:55:22	6.04966	2.8479394	10.4296	0.9768	28.3841
9:55:22	5.99831	2.8422844	10.4296	0.9768	28.36491
9:55:23	6.02296	2.8458396	10.4296	0.9768	28.38337
9:55:23	5.99831	2.858934	10.6264	0.9768	28.54805
9:55:24	5.96339	2.869118	10.8232	0.9768	28.68967
9:55:24	5.94179	2.8634601	10.9215	0.9768	28.64552
9:55:25	5.93872	2.8560257	11.0199	0.9768	28.56608
9:55:25	5.96237	2.8600655	10.9215	0.9768	28.5907
9:55:26	5.96134	2.8642693	10.9215	0.9768	28.6379
9:55:26	5.95102	2.8600656	11.0199	0.9768	28.60024
9:55:27	5.95102	2.8571561	10.9215	0.9768	28.5682
9:55:27	5.96544	2.8548919	10.9215	0.9768	28.53109
9:55:28	5.97262	2.8553781	10.9215	0.9768	28.5304
9:55:28	5.96749	2.8671787	11.0199	0.9768	28.66473
9:55:29	5.95929	2.8565087	11.1183	1.07448	28.55401
9:55:29	5.96032	2.8558644	10.9215	0.9768	28.54613
9:55:30	5.96647	2.8594209	11.0199	0.92796	28.58009
9:55:30	5.97057	2.8569949	11.0199	0.9768	28.5499
9:55:31	5.96954	2.8581257	11.0199	0.9768	28.56322
9:55:31	5.96647	2.857156	11.0199	1.02564	28.55513
9:55:32	5.96339	2.8579646	10.9215	0.9768	28.56668
9:55:32	5.95929	2.8594209	10.8232	1.02564	28.58623
9:55:33	5.96237	2.8579646	10.8232	0.9768	28.56759
9:55:33	5.95724	2.8597432	10.8232	0.9768	28.59152
9:55:34	5.95929	2.8603909	10.7248	0.9768	28.59697
9:55:34	5.96339	2.8608743	10.6264	0.9768	28.59888
9:55:35	5.96237	2.8600654	10.528	0.9768	28.59087
9:55:35	5.96339	2.8590954	10.528	0.9768	28.57931
9:55:36	5.95519	2.8587732	10.4296	0.9768	28.58273
9:55:36	5.94487	2.8566697	10.4296	1.07448	28.56825
9:55:37	5.94077	2.8571561	10.4296	1.02564	28.57708
9:55:37	5.94179	2.8537618	10.3312	1.02564	28.53883
9:55:38	5.94384	2.8524676	10.0361	1.12332	28.52296
9:55:39	5.96359	2.8487822	9.8393	0.9768	28.46582
9:55:40	5.95436	2.8419947	9.6426	0.9768	28.3989
9:55:40	5.98313	2.8400537	9.4458	0.9768	28.35351
9:55:41	6.02418	2.8208169	9.249	1.12332	28.10794
9:55:41	6.06732	2.8258276	9.0523	1.07448	28.12725
9:55:42	6.1422	2.783318	8.9539	1.02564	27.60054
9:55:42	6.19037	2.7498621	8.7571	0.9768	27.19694
9:55:43	6.31931	2.6566141	8.5604	1.02564	26.08503
9:55:43	6.50409	2.5407701	8.462	1.61172	24.70384
9:55:44	6.72187	2.4522497	8.1668	1.26984	23.61043
9:55:44	6.99258	2.4033112	8.0684	1.31868	22.91327

Table C-2. Depth Profile 2 (7/15/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
9:55:45	7.16032	2.3813477	7.8717	1.51404	22.574
9:55:45	7.3437	2.3773071	7.6749	1.51404	22.41309
9:55:46	7.49953	2.1929302	7.5765	1.66056	20.42558
9:55:46	7.69397	2.2369982	7.3798	1.90476	20.75883
9:55:47	7.92281	2.1800158	7.183	2.10012	20.04959
9:55:47	7.79902	2.1233638	7.183	2.24664	19.54985
9:55:48	7.80998	1.9929867	6.9862	2.83272	18.23735
9:55:48	7.99357	1.8407226	6.6911	3.27228	16.63649
9:55:49	8.11602	1.4144587	6.6911	4.10256	12.45287
9:55:49	8.26702	1.4587488	6.5927	5.03053	12.821
9:55:50	8.38001	1.4469922	6.5927	5.66545	12.66835
9:55:50	8.45029	1.2850048	6.2976	5.37241	11.11762
9:55:51	8.62129	1.2119333	6.1992	4.98168	10.38521
9:55:51	8.80064	1.1818416	6.1008	4.00488	10.05587
9:55:52	8.83901	1.1255278	5.904	3.80952	9.52906
9:55:52	8.90194	1.1269762	5.8056	3.71184	9.52545
9:55:53	9.06587	1.0227499	5.7073	4.20024	8.5392
9:55:53	9.28898	1.0835417	5.6089	4.20024	9.03145
9:55:54	9.35246	1.0224279	5.4121	4.1514	8.46827
9:55:54	9.4685	0.9799772	5.2153	4.3956	8.06388
9:55:55	9.49378	0.947503	5.2153	4.78632	7.77095
9:55:55	9.51815	0.9552195	5.0186	4.44444	7.83384
9:55:56	9.51621	0.9198544	4.9202	4.59096	7.52242
9:55:56	9.52398	0.8676224	4.9202	5.03053	7.06231
9:55:57	9.47433	0.9116572	4.8218	5.61661	7.45898
9:55:57	9.47044	0.890281	4.7234	5.61661	7.27174
9:55:58	9.44314	0.848179	4.6251	5.71429	6.90781
9:55:58	9.42368	0.8359677	4.5267	6.05617	6.80464
9:55:59	9.41875	0.8525164	4.5267	6.25153	6.95052
9:55:59	9.4168	0.792429	4.4283	6.39805	6.42583
9:56:00	9.41096	0.755163	4.2315	6.49573	6.10295
9:56:00	9.40512	0.7770076	4.0348	6.69109	6.29371
9:56:01	9.39928	0.7739558	4.0348	6.64225	6.2682
9:56:01	9.39733	0.7763651	3.838	6.59341	6.28951
9:56:02	9.3983	0.7739558	3.7396	6.88645	6.26839
9:56:02	9.39441	0.7533966	3.7396	7.17949	6.09048
9:56:03	9.39441	0.7435998	3.6412	7.03297	6.00553
9:56:03	9.39441	0.7378186	3.4445	7.32601	5.95546
9:56:04	9.38954	0.6837039	3.4445	7.61905	5.48906
9:56:04	9.39051	0.6862737	3.3461	8.20513	5.51103
9:56:05	9.38954	0.688039	3.2477	8.00977	5.52639
9:56:05	9.38558	0.6678107	3.1493	7.86325	5.35305
9:56:06	9.38071	0.6660438	3.1493	8.35165	5.3386
9:56:06	9.37487	0.6063329	3.0509	7.91209	4.82861
9:56:07	9.35636	0.5649322	2.8542	8.93773	4.47919
9:56:07	9.34948	0.5617234	2.7558	9.03541	4.45286
9:56:08	9.33876	0.5310798	2.6574	9.03541	4.19507
9:56:08	9.33389	0.5014041	2.559	9.32845	3.94583
9:56:09	9.31829	0.4755831	2.559	9.47497	3.73106
9:56:09	9.3036	0.5113496	2.559	10.25641	4.03282
9:56:10	9.3075	0.4969136	2.4606	9.27961	3.91101

Table C-2. Depth Profile 2 (7/15/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
9:56:10	9.30068	0.4685266	2.4606	9.57265	3.67387
9:56:11	9.29093	0.4730177	2.559	10.30525	3.71243
9:56:11	9.28995	0.4686879	2.559	9.47497	3.67631
9:56:12	9.28507	0.4699702	2.3623	9.81685	3.68754
9:56:12	9.28312	0.4672437	2.1655	10.30525	3.66495
9:56:13	9.2802	0.4674048	2.2639	9.86569	3.66659
9:56:13	9.28215	0.439504	2.2639	9.47497	3.43362
9:56:14	9.25575	0.4260369	2.1655	9.37729	3.32413
9:56:14	9.24403	0.4425508	2.0671	9.76801	3.46267
9:56:15	9.24794	0.4417489	1.9687	10.20757	3.45562
9:56:15	9.25672	0.4555381	1.9687	9.96337	3.56979
9:56:16	9.26843	0.4367792	1.9687	10.98901	3.41227
9:56:16	9.24202	0.4414282	1.8703	10.40293	3.45352
9:56:17	9.23031	0.4508874	1.8703	10.84249	3.53357
9:56:17	9.23519	0.4294031	1.9687	10.89133	3.35404
9:56:18	9.22152	0.4281207	1.8703	10.50061	3.34465
9:56:18	9.17947	0.4311677	1.772	10.54945	3.37396
9:56:19	9.19314	0.4199439	1.772	11.52625	3.27927
9:56:19	9.19607	0.4069597	1.772	10.40293	3.17121
9:56:20	9.17654	0.41225	1.6736	10.30525	3.21685
9:56:20	9.18338	0.4329308	1.5752	10.30525	3.3883
9:56:21	9.19705	0.4050359	1.5752	9.67033	3.15518
9:56:21	9.18533	0.4043947	1.4768	10.30525	3.1509
9:56:22	9.16866	0.3986239	1.3784	10.40293	3.10453
9:56:22	9.16866	0.4003883	1.3784	11.03785	3.11915
9:56:23	9.15693	0.4138527	1.4768	10.64713	3.23194
9:56:23	9.16768	0.3511857	1.3784	11.03785	2.71344

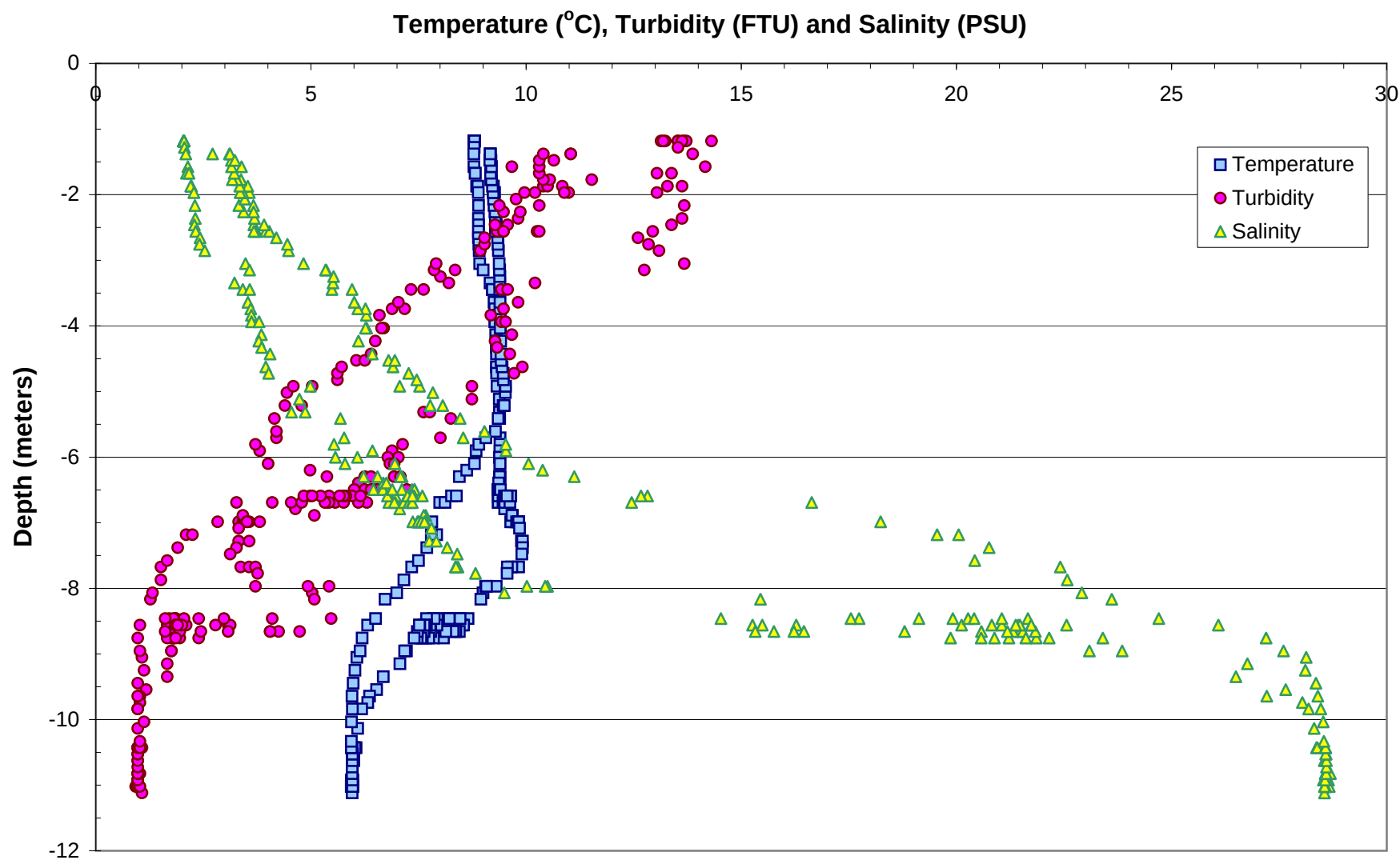


Figure C-2. Depth Profile 2 (7/15/08)

Table C-3. Depth Profile 3 (7/16/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:04:58	8.88667	0.38781	1.6736	12.25885	3.03886
10:04:58	8.86797	0.4012708	1.8703	11.72161	3.15282
10:04:59	8.85226	0.4083235	1.9687	11.03785	3.21323
10:04:59	8.83754	0.4378161	2.0671	11.91697	3.46232
10:05:00	8.82569	0.4554498	2.3623	11.81929	3.61229
10:05:00	8.82274	0.5234396	2.4606	11.77045	4.19066
10:05:01	8.8395	0.5425257	2.559	11.47741	4.35201
10:05:01	8.85619	0.5972311	2.7558	11.08669	4.82049
10:05:02	8.89747	0.638472	2.8542	11.42857	5.17161
10:05:02	8.94956	0.8094656	2.9526	10.40293	6.66088
10:05:03	9.05547	0.8722783	3.1493	9.32845	7.1967
10:05:03	9.09173	0.8875425	3.3461	7.57021	7.3248
10:05:04	9.13482	0.9653265	3.4445	6.54457	8.00847
10:05:04	9.60218	1.057766	3.5428	6.44689	8.7238
10:05:05	9.90094	1.1402684	3.7396	6.54457	9.38247
10:05:05	9.77597	1.0788313	3.838	6.49573	8.86853
10:05:06	9.68379	1.0933064	3.9364	5.95849	9.01999
10:05:06	9.71778	1.0912143	3.9364	5.86081	8.99289
10:05:07	9.7236	1.1524949	3.9364	5.81197	9.53781
10:05:07	9.64785	1.1531397	3.9364	5.71429	9.56362
10:05:08	9.57784	1.1171082	3.9364	5.32357	9.2593
10:05:08	9.56716	1.1513699	3.9364	5.27473	9.56917
10:05:09	9.58464	1.1624686	3.9364	5.90965	9.66416
10:05:09	9.54087	1.1623093	3.9364	5.56777	9.67448
10:05:10	9.37329	1.2892639	4.0348	5.71429	10.87242
10:05:10	9.04177	1.4006624	4.1331	6.15385	12.00386
10:05:11	8.78634	1.5344928	4.3299	5.81197	13.34788
10:05:11	8.55464	1.632606	4.5267	5.27473	14.37068
10:05:12	8.43109	1.6567774	4.6251	4.6398	14.65313
10:05:12	8.32011	1.748322	4.7234	4.68864	15.58456
10:05:13	8.1981	1.7944241	4.9202	4.59096	16.08789
10:05:13	8.09474	1.841342	5.0186	4.24908	16.59512
10:05:14	8.00314	1.8469848	5.2153	4.20024	16.69397
10:05:14	7.94937	1.8774609	5.3137	4.05372	17.02034
10:05:15	7.90346	1.9530928	5.4121	3.9072	17.79235
10:05:15	7.83161	1.9782549	5.4121	3.95604	18.07959
10:05:16	7.74171	1.9561582	5.6089	3.51648	17.90538
10:05:16	7.7087	1.9576108	5.6089	3.36996	17.93683
10:05:17	7.72468	1.9551921	5.6089	3.61416	17.90447
10:05:17	7.76865	1.9526108	5.6089	3.76068	17.85619
10:05:18	7.75169	2.0082577	5.6089	3.46764	18.42097
10:05:18	7.72168	2.0495546	5.6089	3.51648	18.85099
10:05:19	7.62657	2.1257073	5.7073	3.4188	19.67081
10:05:19	7.46709	2.1326481	5.904	3.32112	19.8316
10:05:20	7.38266	2.152659	6.0024	2.97924	20.08378
10:05:20	7.32129	2.1755745	6.1992	2.88156	20.35352
10:05:21	7.26093	2.2028466	6.3959	3.02808	20.66858
10:05:21	7.21555	2.2372259	6.5927	2.97924	21.04919
10:05:22	7.14194	2.2719292	6.7895	2.9304	21.45228
10:05:22	7.12576	2.3461854	6.9862	2.73504	22.23155
10:05:23	7.07121	2.4477487	7.183	2.78388	23.32534

Table C-3. Depth Profile 3 (7/16/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:05:23	6.91847	2.4621218	7.3798	2.58852	23.57977
10:05:24	6.82524	2.4659981	7.4781	2.24664	23.68455
10:05:24	6.78265	2.5532109	7.6749	2.53968	24.63594
10:05:25	6.64345	2.56145	7.7733	1.90476	24.82373
10:05:25	6.58749	2.5609658	7.9701	1.75824	24.85909
10:05:26	6.52131	2.5695257	8.0684	1.75824	24.99863
10:05:26	6.44482	2.5706571	8.1668	1.80708	25.06671
10:05:27	6.40098	2.5708203	8.2652	1.61172	25.10063
10:05:27	6.3948	2.6412519	8.3636	1.61172	25.862
10:05:28	6.35704	2.6688777	8.5604	1.75824	26.18849
10:05:28	6.1852	2.6759886	8.6587	1.80708	26.39808
10:05:29	6.05702	2.6976383	8.8555	1.56288	26.73374
10:05:29	6.00055	2.7032956	8.9539	1.51404	26.84005
10:05:30	5.92762	2.706688	9.1506	1.51404	26.93495
10:05:30	5.87823	2.7288258	9.249	1.56288	27.21715
10:05:31	5.83805	2.7575876	9.3474	1.61172	27.56583
10:05:32	5.6588	2.789898	9.6426	1.31868	28.07034
10:05:33	5.6257	2.8012098	9.7409	1.41636	28.22342
10:05:33	5.58852	2.821088	9.8393	1.41636	28.47558
10:05:34	5.52959	2.8223827	10.0361	1.36752	28.53986
10:05:34	5.51301	2.83418	10.1345	1.31868	28.68547
10:05:35	5.48609	2.8351528	10.2329	1.51404	28.71927
10:05:35	5.46124	2.8357983	10.3312	1.31868	28.7477
10:05:36	5.46124	2.8378983	10.528	1.07448	28.77108
10:05:36	5.44154	2.8412939	10.528	1.17216	28.82594
10:05:37	5.40425	2.8409698	10.6264	1.02564	28.85431
10:05:37	5.39074	2.8411338	10.7248	1.07448	28.86773
10:05:38	5.38764	2.8417797	10.7248	1.31868	28.87764
10:05:38	5.36792	2.8417799	10.8232	1.221	28.89458
10:05:39	5.3773	2.840485	10.8232	1.12332	28.87199
10:05:39	5.4177	2.8391931	10.8232	1.12332	28.82278
10:05:40	5.43844	2.839193	10.8232	1.07448	28.80497
10:05:40	5.42913	2.8401632	10.8232	1.56288	28.82381
10:05:41	5.40632	2.8411337	10.8232	1.12332	28.85428
10:05:41	5.39074	2.84097	10.8232	1.07448	28.86585
10:05:42	5.38143	2.8412946	10.8232	1.07448	28.8775
10:05:42	5.38868	2.8417797	10.8232	1.12332	28.8767
10:05:43	5.38143	2.8414553	10.8232	1.17216	28.8793
10:05:43	5.3804	2.8416191	10.8232	1.12332	28.88203
10:05:44	5.40322	2.8417795	10.7248	1.02564	28.86422
10:05:44	5.41149	2.8417795	10.8232	1.12332	28.85706
10:05:45	5.39798	2.8416189	10.8232	1.221	28.86689
10:05:45	5.38247	2.8419405	10.8232	1.17216	28.88385
10:05:46	5.38661	2.841619	10.8232	1.12332	28.87668
10:05:46	5.38661	2.841619	10.8232	1.07448	28.87668
10:05:47	5.38661	2.8424257	10.8232	1.12332	28.88572
10:05:47	5.39074	2.8430717	10.8232	1.12332	28.88939
10:05:48	5.40005	2.8425863	10.8232	1.41636	28.87594
10:05:48	5.3835	2.8417798	10.8232	1.90476	28.88116
10:05:49	5.37937	2.8417798	10.7248	1.221	28.88476
10:05:49	5.37626	2.842265	10.7248	1.41636	28.89288

Table C-3. Depth Profile 3 (7/16/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:05:50	5.38661	2.8390327	10.528	1.26984	28.84784
10:05:50	5.40425	2.8372533	10.2329	1.26984	28.81288
10:05:51	5.42287	2.8332116	10.1345	1.07448	28.75174
10:05:51	5.4343	2.830465	10.0361	1.12332	28.71127
10:05:52	5.43844	2.8265849	10.0361	1.17216	28.66437
10:05:52	5.4695	2.7991106	9.6426	1.12332	28.33145
10:05:53	5.543	2.7907054	9.4458	1.31868	28.17613
10:05:53	5.58233	2.7630711	9.3474	1.31868	27.83646
10:05:54	5.59883	2.7362456	9.249	1.56288	27.5256
10:05:54	5.6794	2.7609698	9.1506	1.4652	27.7332
10:05:55	5.68358	2.7226711	9.0523	1.56288	27.30663
10:05:55	5.77639	2.7116813	8.6587	1.61172	27.11085
10:05:56	5.88247	2.6981079	8.462	1.4652	26.87715
10:05:56	5.91852	2.6126413	8.2652	1.4652	25.91487
10:05:57	6.00177	2.6014934	8.1668	1.61172	25.7301
10:05:57	6.06847	2.6284708	8.1668	1.75824	25.97239
10:05:58	6.07154	2.5764529	7.9701	1.80708	25.40588
10:05:58	6.22019	2.5270232	7.7733	1.85592	24.76262
10:05:59	6.42357	2.511194	7.5765	1.90476	24.44618
10:05:59	6.52252	2.4540212	7.5765	1.9536	23.76724
10:06:00	6.57339	2.4734003	7.4781	2.24664	23.93763
10:06:00	6.64567	2.3942705	7.3798	2.24664	23.05047
10:06:01	6.77677	2.3214533	7.0846	2.63736	22.19866
10:06:01	6.91057	2.2773806	6.9862	3.02808	21.65328
10:06:02	6.96222	2.2333122	6.8878	2.73504	21.16346
10:06:02	7.00772	2.2323441	6.8878	2.63736	21.12553
10:06:03	7.03704	2.2326674	6.7895	2.97924	21.11096
10:06:03	7.07146	2.2102295	6.5927	2.88156	20.85825
10:06:04	7.12595	2.1928002	6.3959	2.78388	20.64591
10:06:04	7.12292	2.1877952	6.2976	2.83272	20.59621
10:06:05	7.14615	2.1881186	6.3959	3.02808	20.58567
10:06:05	7.1532	2.183922	6.2976	2.9304	20.53835
10:06:06	7.19662	2.1500314	6.1008	2.9304	20.16492
10:06:06	7.33661	2.0520898	5.8056	2.97924	19.08644
10:06:07	7.33962	2.0449911	5.7073	3.07692	19.01275
10:06:07	7.37789	2.0114338	5.8056	3.1746	18.65187
10:06:08	7.43313	2.0075624	5.7073	2.97924	18.58315
10:06:08	7.48237	2.0032063	5.7073	3.02808	18.5129
10:06:09	7.53158	2.0003033	5.7073	3.12576	18.4575
10:06:09	7.5436	1.9690103	5.7073	3.07692	18.13646
10:06:10	7.57269	1.9682027	5.7073	3.1746	18.11321
10:06:10	7.59176	2.039018	5.7073	3.46764	18.81516
10:06:11	7.56468	2.0117557	5.5105	3.27228	18.55525
10:06:11	7.55361	1.9814292	5.3137	3.32112	18.25613
10:06:12	7.61476	1.9564274	5.117	3.56532	17.97349
10:06:12	7.66487	1.9377168	5.117	3.80952	17.76059
10:06:13	7.7019	1.8308021	5.117	3.76068	16.67775
10:06:13	7.73191	1.8817549	5.117	3.71184	17.16921
10:06:14	7.75893	1.8432161	5.0186	3.9072	16.77355
10:06:14	7.82189	1.7846906	4.7234	3.9072	16.16541
10:06:15	8.07208	1.5582598	4.6251	4.1514	13.84959

Table C-3. Depth Profile 3 (7/16/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:06:15	8.12284	1.5933826	4.4283	4.44444	14.16844
10:06:16	8.17945	1.4856122	4.3299	5.32357	13.11029
10:06:16	8.34812	1.3384343	4.1331	5.47009	11.65287
10:06:17	8.52826	1.3315111	4.0348	5.56777	11.52871
10:06:17	8.70786	1.1020543	3.9364	5.76313	9.34942
10:06:18	9.20755	1.0795368	3.6412	5.76313	9.01618
10:06:18	9.28087	1.0177886	3.5428	5.90965	8.44394
10:06:19	9.38041	0.9079998	3.5428	6.69109	7.44636
10:06:19	9.42824	0.9792034	3.4445	6.44689	8.06627
10:06:20	9.38041	0.9332314	3.2477	6.64225	7.66937
10:06:20	9.23397	0.9009297	3.0509	6.93529	7.41425
10:06:21	9.17623	0.8363374	3.0509	7.17949	6.85517
10:06:21	9.15571	0.8408352	2.9526	7.13065	6.89877
10:06:22	9.12144	0.7699975	2.7558	6.54457	6.28241
10:06:22	9.06752	0.765502	2.4606	6.98413	6.25249
10:06:23	9.05284	0.7438229	2.3623	7.57021	6.06513
10:06:23	9.04501	0.7320992	2.2639	8.49817	5.96393
10:06:24	9.03614	0.6897134	2.1655	8.69353	5.59582
10:06:24	9.03222	0.7282468	2.1655	8.59585	5.9324
10:06:25	9.03222	0.7030377	2.1655	10.74481	5.71243
10:06:25	9.02635	0.6913191	2.1655	10.64713	5.61132
10:06:26	9.01851	0.6688444	2.0671	10.45177	5.41724
10:06:26	8.98711	0.6569662	1.8703	10.54945	5.31892
10:06:27	8.95765	0.5786545	1.772	10.40293	4.64712
10:06:27	8.94981	0.5943782	1.772	10.45177	4.78336
10:06:28	8.93804	0.5886018	1.6736	10.35409	4.73522
10:06:28	8.93412	0.5515414	1.5752	11.18437	4.41767
10:06:29	8.91543	0.5255548	1.4768	11.03785	4.19788
10:06:29	8.90072	0.5116021	1.2801	10.79365	4.08069
10:06:30	8.90072	0.4541942	1.2801	11.23321	3.59417
10:06:30	8.89287	0.4554771	1.2801	11.33089	3.60578
10:06:31	8.89287	0.431431	1.2801	11.13553	3.40333
10:06:32	8.90016	0.4578776	1.3784	10.40293	3.6253
10:06:33	8.89624	0.4545108	1.2801	11.67277	3.59729
10:06:33	8.89232	0.4532286	1.2801	12.55189	3.58687
10:06:34	8.88545	0.4405633	1.3784	11.13553	3.48083
10:06:34	8.89232	0.4258166	1.2801	11.37973	3.35624
10:06:35	8.90997	0.4339906	1.2801	11.37973	3.4232
10:06:35	8.92769	0.4323889	1.2801	10.84249	3.40805
10:06:36	8.93063	0.4229317	1.3784	11.13553	3.32845
10:06:36	8.93357	0.4266172	1.2801	10.98901	3.35907
10:06:37	8.93455	0.4253354	1.2801	11.18437	3.34824
10:06:37	8.93553	0.414435	1.2801	10.54945	3.25687
10:06:38	8.93749	0.4149161	1.2801	10.79365	3.26072
10:06:38	8.93455	0.4161993	1.2801	10.89133	3.27172
10:06:39	8.93553	0.4219696	1.2801	11.13553	3.31994
10:06:39	8.93063	0.4261374	1.2801	12.11233	3.35533
10:06:40	8.92376	0.4266172	1.2801	10.64713	3.36

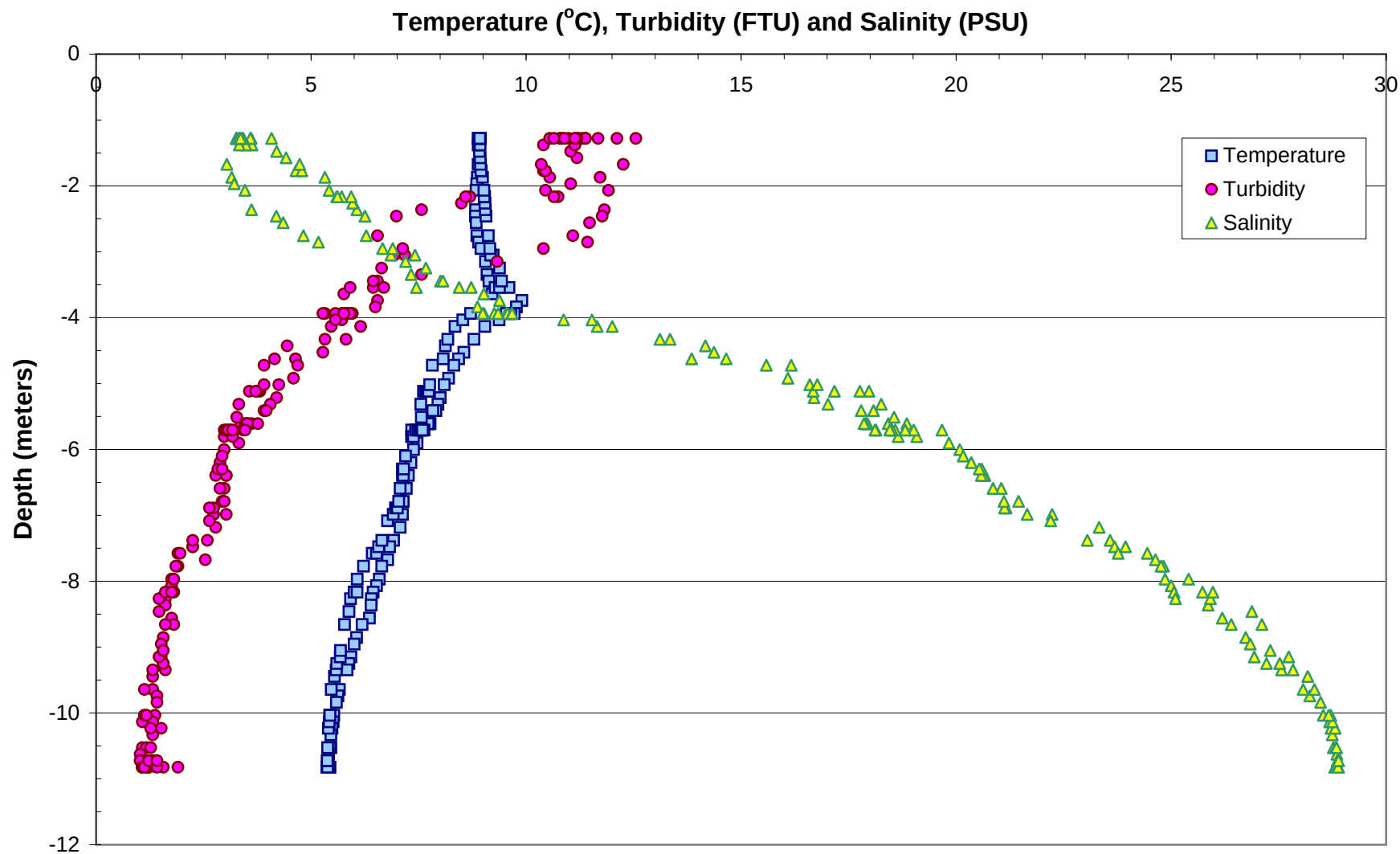


Figure C-3. Depth Profile 3 (7/16/08)

Table C-4. Depth Profile 4 (7/17/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:07:44	10.07969	0.4818379	1.0833	8.25397	3.70472
10:07:45	10.07776	0.4818379	1.0833	8.00977	3.70492
10:07:45	10.0768	0.4818379	1.0833	8.05861	3.70501
10:07:46	10.07583	0.4816771	1.0833	8.20513	3.70379
10:07:46	10.07487	0.4811964	1.1817	8.30281	3.69994
10:07:47	10.07101	0.4815163	1.1817	8.00977	3.70296
10:07:48	10.06957	0.4825979	1.5752	8.30281	3.71195
10:07:49	10.06475	0.4834009	1.772	8.25397	3.71902
10:07:49	10.06571	0.48324	1.9687	8.64469	3.71759
10:07:50	10.06667	0.4825979	2.1655	8.69353	3.71222
10:07:50	10.06571	0.48324	2.3623	8.10745	3.71757
10:07:51	10.06282	0.4843621	2.6574	8.25397	3.72706
10:07:51	10.05992	0.4842011	2.8542	8.84005	3.72602
10:07:52	10.06475	0.4854849	3.2477	8.59585	3.73604
10:07:52	10.0686	0.4922184	3.5428	8.79121	3.79092
10:07:53	10.10432	0.4923785	3.9364	8.40049	3.7885
10:07:53	10.10625	0.4926988	4.2315	7.96093	3.79091
10:07:54	10.10914	0.4925386	4.2315	7.61905	3.78929
10:07:54	10.11107	0.5013565	4.2315	7.86325	3.86151
10:07:55	10.10818	0.4997529	4.3299	7.96093	3.84863
10:07:55	10.10336	0.5053643	4.4283	7.76557	3.89527
10:07:56	10.10818	0.5154668	4.6251	8.15629	3.9779
10:07:56	10.1641	0.5260505	4.7234	7.66789	4.05892
10:07:57	10.12167	0.5570018	5.0186	8.25397	4.31954
10:07:57	10.06957	0.5412839	5.3137	8.15629	4.19541
10:07:58	10.07342	0.5568412	5.3137	7.71673	4.32391
10:07:58	10.09758	0.5857127	5.5105	8.25397	4.56095
10:07:59	10.11974	0.5852322	5.8056	8.00977	4.55416
10:07:59	10.09077	0.5823449	6.0024	7.27717	4.53373
10:08:00	10.08692	0.5877974	6.0024	6.73993	4.57962
10:08:00	10.10143	0.5743238	6.0024	6.88645	4.46568
10:08:01	10.10722	0.6238938	6.0024	6.98413	4.87843
10:08:01	10.10914	0.7286938	6.3959	7.27717	5.7612
10:08:02	10.18528	0.6853545	6.7895	5.76313	5.3833
10:08:02	10.18913	0.681181	6.7895	5.27473	5.3476
10:08:03	10.14677	0.6917751	6.5927	5.71429	5.44314
10:08:03	10.1641	0.753256	6.6911	6.15385	5.96079
10:08:04	10.11011	0.7999814	6.9862	5.47009	6.3681
10:08:04	10.12648	0.7551821	7.0846	5.12821	5.98329
10:08:05	10.10529	0.7569499	7.0846	4.93284	6.00182
10:08:05	10.10529	0.7962884	6.9862	5.22589	6.33737
10:08:06	10.15929	0.8269615	7.0846	5.51893	6.59022
10:08:06	10.2296	0.8197356	7.2814	5.07937	6.51575
10:08:07	10.24306	0.802873	7.2814	4.6398	6.3695
10:08:07	10.23248	0.824553	7.2814	4.34676	6.55639
10:08:08	10.25178	0.8443091	7.2814	4.83516	6.72183
10:08:08	10.30278	0.8680808	7.4781	4.54212	6.91583
10:08:09	10.43152	0.8659937	7.7733	4.1514	6.87365
10:08:09	10.49675	0.8667958	7.8717	3.61416	6.86823
10:08:10	10.50346	0.9063169	7.9701	3.76068	7.20436
10:08:10	10.59452	0.9174016	8.2652	3.663	7.28108

Table C-4. Depth Profile 4 (7/17/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:08:11	10.55236	0.9566103	8.462	2.9304	7.6254
10:08:11	10.29599	0.9384516	8.7571	3.56532	7.52219
10:08:12	10.27389	0.94729	8.8555	4.34676	7.60309
10:08:12	10.19202	1.040996	8.7571	4.24908	8.43555
10:08:13	9.98166	1.1147965	9.0523	4.3956	9.13527
10:08:13	9.73571	1.100486	9.3474	4.34676	9.07013
10:08:14	9.68719	1.0919619	9.4458	4.3956	9.00641
10:08:14	9.6901	1.1088459	9.3474	4.6398	9.15609
10:08:15	9.66779	1.1329698	9.4458	4.6398	9.37712
10:08:15	9.55113	1.150659	9.6426	4.54212	9.56622
10:08:16	9.50247	1.1361851	9.7409	4.78632	9.44908
10:08:16	9.48303	1.1247684	9.7409	4.93284	9.35165
10:08:17	9.521	1.1704439	9.7409	4.884	9.75217
10:08:17	9.47233	1.2048669	9.8393	5.03053	10.07609
10:08:18	9.38461	1.2441205	10.0361	5.17705	10.45693
10:08:18	9.30068	1.2080838	10.1345	5.27473	10.15355
10:08:19	9.27428	1.2264235	10.1345	5.47009	10.32789
10:08:19	9.31335	1.1794519	10.1345	5.42125	9.89023
10:08:20	9.34461	1.2164493	10.1345	5.22589	10.21705
10:08:20	9.29775	1.2232066	10.1345	5.42125	10.29186
10:08:21	9.2655	1.2248147	10.1345	5.07937	10.31577
10:08:21	9.2655	1.2589238	10.2329	5.07937	10.62677
10:08:22	9.24989	1.2637512	10.3312	5.66545	10.67549
10:08:22	9.22543	1.2357555	10.3312	5.17705	10.42707
10:08:23	9.24696	1.2851517	10.3312	5.47009	10.8721
10:08:23	9.22836	1.352098	10.3312	5.17705	11.49243
10:08:24	9.1325	1.3092891	10.528	5.81197	11.12875
10:08:24	9.09821	1.3387407	10.528	5.56777	11.41095
10:08:25	9.06691	1.5847668	10.7248	5.76313	13.71352
10:08:25	8.94233	1.9873864	10.9215	5.56777	17.60637
10:08:26	8.51482	2.0230317	11.0199	5.76313	18.16864
10:08:26	8.19686	2.3131304	11.1183	6.10501	21.22529
10:08:27	7.87533	2.4387226	11.2167	6.59341	22.69836
10:08:27	7.46296	2.2826321	11.3151	6.64225	21.36267
10:08:28	7.34131	2.1901643	11.3151	6.44689	20.48936
10:08:28	7.76148	2.2865018	11.3151	6.44689	21.21975
10:08:29	7.67449	2.3752767	11.3151	6.39805	22.17894
10:08:29	7.22051	2.3836767	11.4134	6.15385	22.55768
10:08:30	6.91746	2.0143309	11.3151	6.64225	18.93001
10:08:30	7.29806	1.8851646	11.1183	6.39805	17.41737
10:08:31	8.0398	1.8482439	10.9215	6.34921	16.68746
10:08:31	8.5425	1.7661948	10.7248	5.95849	15.65767
10:08:32	8.62837	1.5132599	10.528	5.90965	13.20496
10:08:32	8.88042	1.4053813	9.9377	5.47009	12.10127
10:08:33	9.16286	1.3096111	9.5442	5.42125	11.12244
10:08:33	9.32018	1.1736612	9.249	5.22589	9.83604
10:08:34	9.26941	1.2019709	9.0523	4.78632	10.10701
10:08:34	9.327	1.1324885	8.7571	4.54212	9.46213
10:08:35	9.70858	0.9993638	8.2652	4.44444	8.18084
10:08:35	10.2296	0.9551646	7.8717	3.95604	7.68062
10:08:36	10.47567	0.912421	7.4781	3.22344	7.26215

Table C-4. Depth Profile 4 (7/17/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:08:36	10.48813	0.9138666	7.4781	3.32112	7.27206
10:08:37	10.54374	0.9103318	7.3798	3.61416	7.23081
10:08:37	10.51208	0.8587632	6.9862	3.56532	6.79705
10:08:38	10.35854	0.7755728	6.5927	3.80952	6.11787
10:08:38	10.32007	0.7903461	6.3959	4.6398	6.2497
10:08:39	10.31815	0.8038349	6.3959	5.32357	6.36467
10:08:39	10.31623	0.7694713	6.3959	4.98168	6.07326
10:08:40	10.28734	0.7513295	6.0024	4.93284	5.92442
10:08:40	10.23729	0.7277302	5.8056	5.47009	5.73287
10:08:41	10.21228	0.6778115	5.5105	5.56777	5.31599
10:08:41	10.1949	0.6489244	5.4121	5.95849	5.07608
10:08:42	10.14677	0.6184394	5.117	6.10501	4.82761
10:08:42	10.11492	0.5796173	4.9202	6.59341	4.50811
10:08:43	10.09662	0.5743238	4.9202	7.13065	4.46635
10:08:43	10.07342	0.5882802	4.9202	7.66789	4.58542
10:08:44	10.06764	0.5853918	5.0186	7.13065	4.56207
10:08:44	10.06282	0.5770509	4.8218	7.22833	4.4932
10:08:45	10.05414	0.5667856	4.4283	7.37485	4.40889
10:08:45	10.05896	0.5316622	4.5267	6.88645	4.11705
10:08:46	10.05414	0.536795	4.5267	7.76557	4.16007
10:08:46	10.05317	0.546897	4.4283	8.05861	4.24387
10:08:47	10.06764	0.5090527	4.3299	7.86325	3.92948
10:08:48	10.13576	0.512453	4.4283	7.47253	3.9501
10:08:49	10.15315	0.5175829	4.4283	7.27717	3.99042
10:08:49	10.12516	0.5113299	4.2315	7.42369	3.94202
10:08:50	10.10396	0.502832	3.9364	7.76557	3.87441
10:08:50	10.10204	0.4900046	3.9364	8.10745	3.76925
10:08:51	10.09433	0.4924099	3.9364	8.25397	3.78979
10:08:51	10.0924	0.49257	3.9364	7.86325	3.79131
10:08:52	10.08752	0.4930505	3.838	7.91209	3.79577
10:08:52	10.08559	0.4911277	3.838	8.25397	3.78018
10:08:53	10.08174	0.4912877	3.6412	8.20513	3.7819
10:08:53	10.08077	0.4895233	3.5428	8.00977	3.76752
10:08:54	10.07885	0.4869589	3.5428	9.03541	3.74667
10:08:54	10.07595	0.4869589	3.5428	8.15629	3.74697
10:08:55	10.07499	0.4872799	3.5428	8.10745	3.7497
10:08:55	10.07499	0.4867976	3.4445	8.15629	3.74575
10:08:56	10.07306	0.4871186	3.3461	8.05861	3.74859
10:08:56	10.07306	0.4874396	3.3461	7.76557	3.75122
10:08:57	10.07306	0.4861576	3.3461	7.96093	3.7407
10:08:57	10.07306	0.4861576	3.1493	8.25397	3.74071
10:08:58	10.0692	0.4850344	2.7558	8.10745	3.73191
10:08:58	10.06824	0.4843933	2.6574	8.20513	3.72676
10:08:59	10.06824	0.4831103	2.4606	8.05861	3.71624
10:08:59	10.06535	0.4839118	2.3623	7.96093	3.72312
10:09:00	10.06342	0.4837525	2.3623	7.76557	3.72201
10:09:00	10.06631	0.4837525	2.1655	8.15629	3.72173
10:09:01	10.06535	0.4835915	2.1655	8.54701	3.7205
10:09:01	10.06342	0.4834305	2.1655	8.40049	3.71938
10:09:02	10.06631	0.4831102	2.0671	8.79121	3.71646
10:09:02	10.06535	0.4826291	1.8703	8.20513	3.71262

Table C-4. Depth Profile 4 (7/17/2008)

CTD Time	Temperature (deg C)	Conductivity (S/m)	Depth (m)	Turbidity (FTU)	Salinity (PSU)
10:09:03	10.06342	0.482309	1.6736	8.05861	3.71021
10:09:03	10.06149	0.4821481	1.5752	7.96093	3.70909
10:09:04	10.05956	0.4818281	1.4768	8.44933	3.70666
10:09:04	10.05763	0.4818281	1.2801	8.88889	3.70687
10:09:05	10.05763	0.4815081	1.0833	8.15629	3.70426
10:09:05	10.05667	0.4816673	1.1817	8.35165	3.70566
10:09:06	10.05474	0.4815081	1.1817	8.10745	3.70455
10:09:06	10.05571	0.4815081	1.1817	8.00977	3.70445
10:09:07	10.05571	0.4815081	1.1817	8.20513	3.70445
10:09:07	10.05667	0.4815081	1.0833	8.49817	3.70436
10:09:08	10.05571	0.4815081	1.1817	8.44933	3.70445
10:09:08	10.05667	0.4813473	1.1817	16.9475	3.70303
10:09:09	10.05378	0.4815081	1.1817	9.76801	3.70464
10:09:09	10.05281	0.4818281	1.1817	8.40049	3.70737
10:09:10	10.05378	0.4816673	1.1817	8.25397	3.70595
10:09:10	10.05474	0.4816673	1.1817	8.40049	3.70585
10:09:11	10.05667	0.4815081	1.1817	8.74237	3.70435
10:09:11	10.05474	0.4818281	1.1817	8.25397	3.70717
10:09:12	10.05571	0.4818281	1.1817	8.15629	3.70707
10:09:12	10.05571	0.4818281	1.1817	12.55189	3.70707
10:09:13	10.05667	0.4816673	1.1817	8.88889	3.70566
10:09:13	10.0586	0.4816673	1.0833	8.10745	3.70547
10:09:14	10.05956	0.4818281	1.1817	8.10745	3.70668

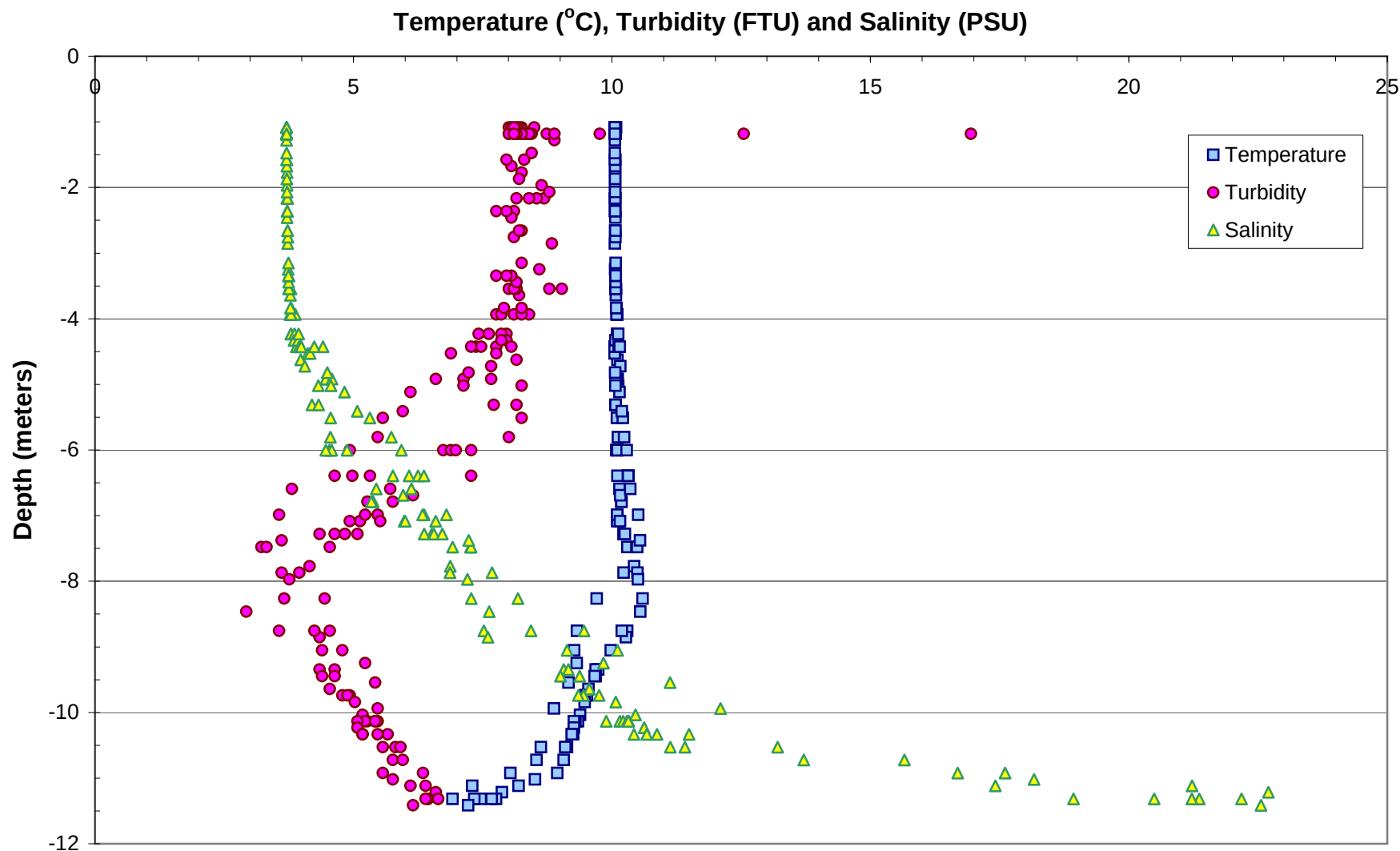


Figure C-4. Depth Profile 4 (7/17/08)

Appendix D
CURRENT MEASUREMENTS

Table D-1. Current Measurements for Star Princess, 1 Meter Depth (7/10/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
16	9:15:00	0	-3	-3	4.24	225	1.226	10	-206	0.625	0.188	87.2	0.7	34.811	827.4
17	9:20:00	0	-2	-3	3.61	236.3	1.226	19	-205	0.563	0.313	84.7	0.6	28.81	818.4
18	9:25:00	0	-2	-4.4	4.83	245.6	1.226	47	-200	0.313	0.625	76.8	0.7	22.81	805.2
19	9:30:00	0	-3.2	-4.6	5.6	235.2	1.226	35	-205	0.313	0.063	80.3	0.3	13.21	791.401
20	9:35:00	0	-1.6	-3.2	3.58	243.4	1.226	63	-205	0.5	0.813	72.9	1	8.409	781.801
21	9:40:00	0	-5.6	-3.8	6.77	214.2	1.226	155	-135	0.5	0.125	41.1	0.5	-8.391	770.401
22	9:45:00	0	-10	-2	10.2	191.3	1.226	186	-99	0.688	0.5	28	0.9	-38.391	764.402
23	9:50:00	0	-4.6	-1.2	4.75	194.6	1.226	186	-97	0.625	0.438	27.5	0.8	-52.191	760.802
24	9:55:00	0	-9.8	-1.6	9.93	189.3	1.226	180	-107	0.625	0.313	30.7	0.7	-81.591	756.003
25	10:00:00	0	-4.6	-3.2	5.6	214.8	1.226	195	-85	0.375	0.188	23.6	0.4	-95.392	746.403
26	10:05:00	0	-6.4	-5.4	8.37	220.2	1.226	194	-84	0.5	0.563	23.4	0.8	-114.592	730.204
27	10:10:00	0	-8	-2.2	8.3	195.4	1.226	188	-98	0.188	0.188	27.5	0.3	-138.592	723.605
28	10:15:00	0	-7.2	-3.6	8.05	206.6	1.226	202	-70	0.313	0.688	19.1	0.8	-160.193	712.805
29	10:20:00	0	-7.6	-1.4	7.73	190.4	1.226	201	-80	0.25	0.625	21.7	0.7	-182.993	708.606
30	10:25:00	0	-4.6	-1.6	4.87	199.2	1.226	207	-45	0.563	0.438	12.3	0.7	-196.793	703.806
31	10:30:00	0	-6	-0.2	6	181.9	1.226	209	-42	0.188	0.563	11.4	0.6	-214.793	703.207
32	10:35:00	0	-6	-1	6.08	189.5	1.226	219	4	0.438	0.813	359	0.9	-232.793	700.207
33	10:40:00	0	-6.2	-1.4	6.36	192.7	1.226	208	-47	0.188	0.563	12.7	0.6	-251.393	696.008
34	10:45:00	0	0	0.2	0.2	90	1.226	197	-80	0.563	0.5	22.1	0.8	-251.393	696.608
35	10:50:00	0	2.2	6.4	6.77	71	1.226	186	-103	0.625	0.188	29	0.7	-244.793	715.807
36	10:55:00	0	2.8	3.8	4.72	53.6	1.226	184	-99	0.5	0.313	28.3	0.6	-236.393	727.207
37	11:00:00	0	4	3.4	5.25	40.4	1.226	184	-107	0.625	0.063	30.2	0.6	-224.393	737.407
38	11:05:00	0	0.8	2.8	2.91	74.1	1.226	189	-92	0.125	0.063	26	0.1	-221.993	745.807
39	11:10:00	0	1.6	3	3.4	61.9	1.226	189	-100	0.375	0.063	27.9	0.4	-217.193	754.807
40	11:15:00	0	0.6	4	4.04	81.5	1.226	195	-88	0.313	0.188	24.3	0.4	-215.392	766.807
41	11:20:00	0	1.2	3	3.23	68.2	1.226	197	-81	0.438	0.313	22.4	0.5	-211.792	775.807
42	11:25:00	0	1.4	2.6	2.95	61.7	1.226	195	-87	0.563	0.375	24	0.7	-207.592	783.607
43	11:30:00	0	4	3.8	5.52	43.5	1.226	190	-91	0.188	0.188	25.6	0.3	-195.592	795.007
44	11:35:00	0	5.2	4.4	6.81	40.2	1.226	189	-105	0.438	0.188	29.1	0.5	-179.992	808.207
45	11:40:00	0	5.6	2.2	6.02	21.4	1.226	178	-113	0.5	0.688	32.4	0.9	-163.192	814.807
46	11:45:00	0	-0.8	1.8	1.97	114	1.226	189	-102	0.5	0.25	28.4	0.6	-165.592	820.207
47	11:50:00	0	-1.4	6	6.16	103.1	1.226	185	-97	0.25	0.188	27.7	0.3	-169.792	838.207
48	11:55:00	0	0	1.2	1.2	90	1.226	194	-87	0.25	0.125	24.2	0.3	-169.792	841.807
49	12:00:00	0	0.6	3	3.06	78.7	1.226	189	-98	0.188	0.063	27.4	0.2	-167.992	850.807
50	12:05:00	0	1.6	-0.6	1.71	339.4	1.226	199	-83	0.375	0.063	22.6	0.4	-163.192	849.007
51	12:10:00	0	3.6	-0.6	3.65	350.5	1.226	210	-40	0.063	0.313	10.8	0.3	-152.392	847.206
52	12:15:00	0	0.4	2.2	2.24	79.7	1.226	184	-103	0.438	0.313	29.2	0.5	-151.192	853.806
53	12:20:00	0	1.4	2.8	3.13	63.4	1.226	194	-91	0.125	0.188	25.1	0.2	-146.992	862.206
54	12:25:00	0	-2.6	2.6	3.68	135	1.226	206	-62	0.313	0.188	16.8	0.4	-154.792	870.006
55	12:30:00	0	-5.2	0.8	5.26	171.3	1.226	196	-95	0.625	0.375	25.9	0.7	-170.392	872.407

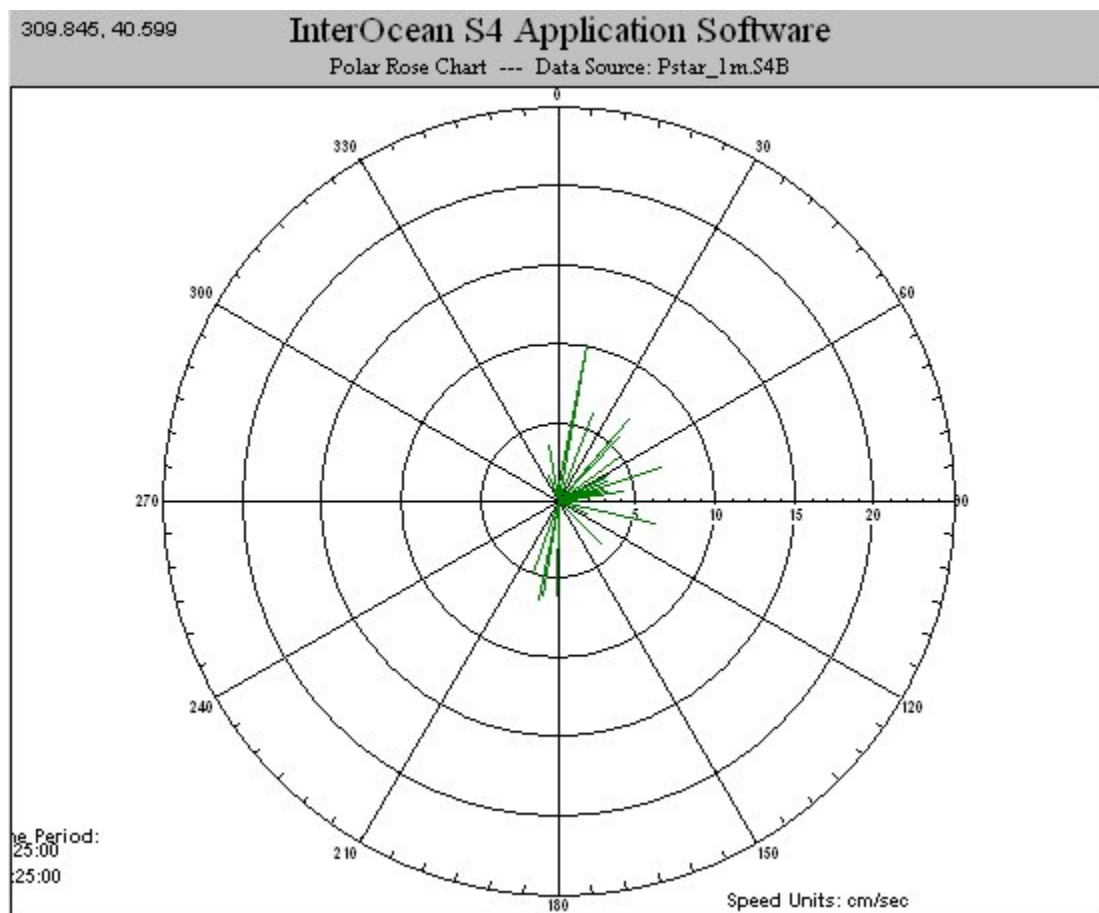


Figure D-1. Star Princess 1m Survey

Table D-2. Current Measurements for Star Princess, 3 Meter Depth (7/10/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
16	9:15:00	0	0.2	-5.6	5.6	272	1.206	223	67	0.625	1.188	343.3	1.3	-3297.07	-2117.309
17	9:20:00	0	0.8	-6.8	6.85	276.7	1.206	222	73	0.375	0.688	341.8	0.8	-3294.671	-2137.71
18	9:25:00	0	1.8	-7.6	7.81	283.3	1.206	213	103	0.375	0.938	334.2	1	-3289.272	-2160.51
19	9:30:00	0	2.4	-6	6.46	291.8	1.206	222	81	0.438	0.625	340	0.8	-3282.073	-2178.51
20	9:35:00	0	0.4	-6	6.01	273.8	1.206	218	91	1.688	1.188	337.3	2.1	-3280.873	-2196.51
21	9:40:00	0	-1	-6.4	6.48	261.1	1.206	145	182	0.5	0.625	308.5	0.8	-3283.874	-2215.71
22	9:45:00	0	-2.8	-8.8	9.23	252.3	1.206	99	213	1.188	1.188	294.9	1.7	-3292.275	-2242.11
23	9:50:00	0	-1	-6.4	6.48	261.1	1.206	105	209	1	1.125	296.7	1.5	-3295.275	-2261.31
24	9:55:00	0	-3.6	-9.6	10.25	249.4	1.206	110	207	1.688	1.688	298	2.4	-3306.076	-2290.109
25	10:00:00	0	-1	-6.4	6.48	261.1	1.206	95	215	0.438	1.125	293.8	1.2	-3309.077	-2309.309
26	10:05:00	0	-1.8	-8.6	8.79	258.2	1.206	91	215	1.438	1.125	292.9	1.8	-3314.478	-2335.109
27	10:10:00	0	-2.2	-6.6	6.96	251.6	1.206	101	211	0.688	0.438	295.6	0.8	-3321.079	-2354.909
28	10:15:00	0	-2.4	-7.4	7.78	252	1.206	71	223	1.625	0.688	287.7	1.8	-3328.279	-2377.108
29	10:20:00	0	-0.2	-6.2	6.2	268.2	1.206	77	222	1.563	0.625	289.1	1.7	-3328.88	-2395.708
30	10:25:00	0	-2.8	-7.2	7.73	248.7	1.206	47	231	1.875	0.438	281.5	1.9	-3337.281	-2417.308
31	10:30:00	0	-3.4	-8.4	9.06	248	1.206	33	230	1.375	0.438	278.2	1.4	-3347.481	-2442.508
32	10:35:00	0	-2.4	-10	10.28	256.5	1.206	-5	234	0.938	0.688	268.8	1.2	-3354.682	-2472.508
33	10:40:00	0	-1.6	-8	8.16	258.7	1.206	53	227	0.5	0.625	283.1	0.8	-3359.483	-2496.507
34	10:45:00	0	1.8	-3.8	4.2	295.3	1.206	87	217	0.438	0.625	291.8	0.8	-3354.084	-2507.908
35	10:50:00	0	3.6	-3.2	4.82	318.4	1.206	112	206	0.875	0.125	298.5	0.9	-3343.284	-2517.508
36	10:55:00	0	1.2	-2.6	2.86	294.8	1.206	105	209	0.625	0.625	296.7	0.9	-3339.684	-2525.308
37	11:00:00	0	2.6	-1.6	3.05	328.4	1.206	113	206	0.188	0.188	298.7	0.3	-3331.885	-2530.109
38	11:05:00	0	3.2	-1.8	3.67	330.6	1.206	103	211	0.625	0.625	296	0.9	-3322.285	-2535.509
39	11:10:00	0	2.2	-2.4	3.26	312.5	1.206	108	209	0.5	0.188	297.3	0.5	-3315.685	-2542.709
40	11:15:00	0	2.2	-2.4	3.26	312.5	1.206	93	216	0.875	0.188	293.3	0.9	-3309.086	-2549.91
41	11:20:00	0	0.6	-1.6	1.71	290.6	1.206	86	218	0.438	0.188	291.5	0.5	-3307.286	-2554.71
42	11:25:00	0	4.4	-0.6	4.44	352.2	1.206	93	215	0.5	0.375	293.4	0.6	-3294.086	-2556.51
43	11:30:00	0	2	-1.6	2.56	321.3	1.206	98	213	0.438	0.125	294.7	0.5	-3288.086	-2561.311
44	11:35:00	0	3.8	-1.4	4.05	339.8	1.206	103	213	0.688	0.688	295.8	1	-3276.686	-2565.511
45	11:40:00	0	2.6	-2	3.28	322.4	1.206	113	206	0.688	0.438	298.7	0.8	-3268.886	-2571.511
46	11:45:00	0	-0.4	-1	1.08	248.2	1.206	109	208	0.375	0.688	297.7	0.8	-3270.087	-2574.511
47	11:50:00	0	2.8	-2.4	3.69	319.4	1.206	99	211	0.125	0.625	295.1	0.6	-3261.687	-2581.712
48	11:55:00	0	2.2	-4	4.57	298.8	1.206	85	217	0.375	0.938	291.4	1	-3255.087	-2593.712
49	12:00:00	0	0.4	-4	4.02	275.7	1.206	95	211	0.875	0.188	294.2	0.9	-3253.888	-2605.712
50	12:05:00	0	1.6	-2.8	3.22	299.7	1.206	83	219	0.5	0.188	290.8	0.5	-3249.088	-2614.112
51	12:10:00	0	1.8	-2.2	2.84	309.3	1.206	38	232	1.125	0.188	279.3	1.1	-3243.688	-2620.713
52	12:15:00	0	0.2	-4.4	4.4	272.6	1.206	107	209	1.188	0.688	297.1	1.4	-3243.089	-2633.913
53	12:20:00	0	2.2	-1.8	2.84	320.7	1.206	95	215	0.688	0.188	293.8	0.7	-3236.489	-2639.313
54	12:25:00	0	-1	-3.4	3.54	253.6	1.206	65	225	0.438	0.188	286.1	0.5	-3239.49	-2649.513
55	12:30:00	0	0.8	-2.8	2.91	285.9	1.206	107	209	0.75	2.125	297.1	2.3	-3237.09	-2657.913

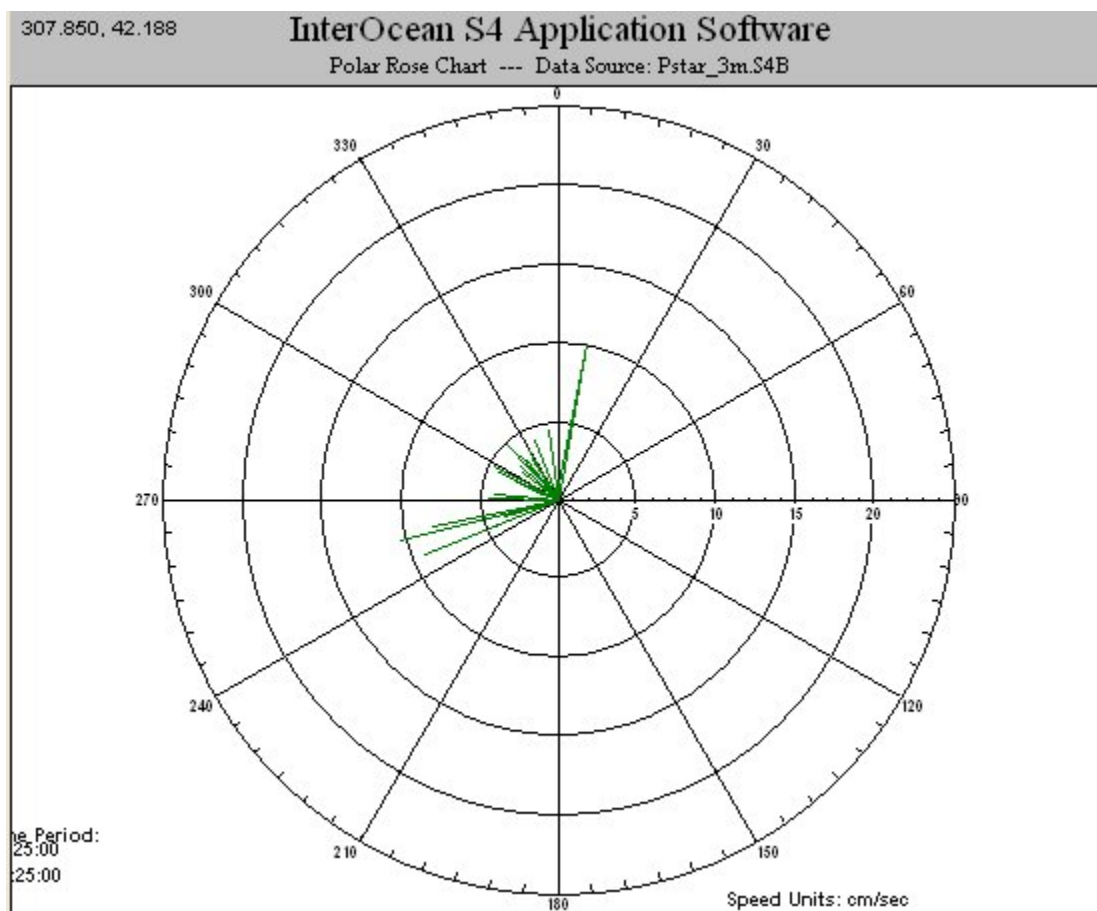


Figure D-2. Star Princess 3 m Survey

Table D-3. Current Measurements for Coral Princess, 1 Meter Depth (7/11/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
9	8:40:00	0	-14.2	-19.8	24.37	234.4	1.226	-39	-231	0.625	0.5	99.6	0.8	912.576	-584.433
10	8:45:00	0	-10.4	-17.2	20.1	238.8	1.226	-17	-230	0.25	0.688	94.2	0.7	881.374	-636.032
11	8:50:00	0	-10.4	-15.8	18.92	236.6	1.226	-2	-234	0.25	0.375	90.5	0.5	850.173	-683.431
12	8:55:00	0	-7.2	-14.6	16.28	243.7	1.226	2	-232	0.125	0.313	89.5	0.3	828.572	-727.23
13	9:00:00	0	-7.4	-13.6	15.48	241.4	1.226	11	-236	0.375	0.375	87.3	0.5	806.37	-768.029
14	9:05:00	0	-11.8	-14	18.31	229.9	1.226	21	-231	0.188	0.125	84.8	0.2	770.969	-810.028
15	9:10:00	0	-10.4	-17.4	20.27	239.1	1.226	12	-232	0.563	0.688	87	0.9	739.767	-862.227
16	9:15:00	0	-7	-15.8	17.28	246.1	1.226	22	-235	0.5	0.313	84.7	0.6	718.766	-909.626
17	9:20:00	0	-7	-14.8	16.37	244.7	1.226	23	-234	0.5	0.188	84.4	0.5	697.764	-954.026
18	9:25:00	0	-7.6	-10.6	13.04	234.4	1.226	23	-232	0.125	0.063	84.3	0.1	674.963	-985.825
19	9:30:00	0	-7.4	-18.4	19.83	248.1	1.226	13	-227	0.438	0.688	86.7	0.8	652.762	-1041.024
20	9:35:00	0	-8.8	-14.2	16.71	238.2	1.226	39	-232	0.375	0.188	80.5	0.4	626.36	-1083.624
21	9:40:00	0	-6.6	-13.8	15.3	244.4	1.226	31	-229	0.375	0.5	82.3	0.6	606.559	-1125.023
22	9:45:00	0	-0.8	-6.2	6.25	262.6	1.226	56	-223	0.125	0.063	75.9	0.1	604.158	-1143.623
23	9:50:00	0	-6	-9	10.82	236.3	1.226	32	-229	0.125	0.063	82	0.1	586.158	-1170.622
24	9:55:00	0	-5.6	-11	12.34	243	1.226	26	-231	0.125	0.188	83.6	0.2	569.357	-1203.622
25	10:00:00	0	-7.2	-8.8	11.37	230.7	1.226	37	-232	0	0.125	80.9	0.1	547.756	-1230.021
26	10:05:00	0	-5.6	-11.4	12.7	243.8	1.226	28	-232	0.375	0.063	83.1	0.4	530.955	-1264.221
27	10:10:00	0	-2.6	-3.8	4.6	235.6	1.226	43	-232	0.5	0.188	79.5	0.5	523.154	-1275.62
28	10:15:00	0	-9	-17.4	19.59	242.6	1.226	34	-229	0.688	0.5	81.6	0.9	496.153	-1327.819
29	10:20:00	0	-6.6	-8.2	10.53	231.2	1.226	39	-226	0.188	0.313	80.2	0.4	476.352	-1352.419
30	10:25:00	0	-5.2	-6.2	8.09	230	1.226	154	-177	0.25	0.313	49	0.4	460.751	-1371.018
31	10:30:00	0	-7.4	-10	12.44	233.5	1.226	138	-189	0.188	0.063	53.9	0.2	438.55	-1401.018
32	10:35:00	0	-3.6	-5.6	6.66	237.3	1.226	149	-184	0.188	0.063	51	0.2	427.75	-1417.817
33	10:40:00	0	-5.6	-8.2	9.93	235.7	1.226	152	-175	0.188	0.313	49	0.4	410.949	-1442.417
34	10:45:00	0	-0.6	-4.2	4.24	261.9	1.226	171	-162	0.063	0.125	43.5	0.1	409.149	-1455.017
35	10:50:00	0	4.8	6.4	8	53.1	1.226	153	-179	0.375	0.063	49.5	0.4	423.549	-1435.817
36	10:55:00	0	4.2	7.6	8.68	61.1	1.226	121	-199	0.5	0.125	58.7	0.5	436.149	-1413.017
37	11:00:00	0	4.4	7	8.27	57.8	1.226	139	-177	0.188	0.75	51.9	0.8	449.349	-1392.017
38	11:05:00	0	5.2	11	12.17	64.7	1.226	135	-193	0.375	0.188	55	0.4	464.949	-1359.017
39	11:10:00	0	7.2	11.2	13.31	57.3	1.226	144	-185	0.5	0.063	52.1	0.5	486.55	-1325.417
40	11:15:00	0	1.4	5.4	5.58	75.5	1.226	155	-179	0.625	0.188	49.1	0.7	490.75	-1309.217
41	11:20:00	0	5	8.2	9.6	58.6	1.226	147	-185	0.688	0.188	51.5	0.7	505.75	-1284.617
42	11:25:00	0	1.6	2.8	3.22	60.3	1.226	140	-182	0.188	0.188	52.4	0.3	510.55	-1276.218
43	11:30:00	0	11.4	13.8	17.9	50.4	1.226	151	-181	0.688	0.063	50.2	0.7	544.75	-1234.818
44	11:35:00	0	9.2	13.6	16.42	55.9	1.226	152	-184	0.75	0.188	50.4	0.8	572.351	-1194.018
45	11:40:00	0	7.8	11.6	13.98	56.1	1.226	153	-179	0.188	0.375	49.5	0.4	595.751	-1159.218
46	11:45:00	0	6.6	13.2	14.76	63.4	1.226	146	-184	0.75	0.188	51.6	0.8	615.551	-1119.618
47	11:50:00	0	6.2	10.2	11.94	58.7	1.226	135	-191	0.25	0.063	54.7	0.3	634.151	-1089.018
48	11:55:00	0	8.4	14.2	16.5	59.4	1.226	139	-189	0.5	0.063	53.7	0.5	659.352	-1046.419
49	12:00:00	0	6.2	12	13.51	62.7	1.226	166	-169	0.5	0.313	45.5	0.6	677.952	-1010.419
50	12:05:00	0	6.4	12.4	13.95	62.7	1.226	151	-181	0.625	0.375	50.2	0.7	697.152	-973.219
51	12:10:00	0	5.2	9	10.39	60	1.226	175	-159	0.688	0.313	42.3	0.8	712.752	-946.219

Table D-3. Current Measurements for Coral Princess, 1 Meter Depth (7/11/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
52	12:15:00	0	5	10.4	11.54	64.3	1.23	152	-173	0.438	0.313	48.7	0.5	727.753	-915.019
53	12:20:00	0	5.2	8.8	10.22	59.4	1.23	157	-183	0.688	0.188	49.4	0.7	743.353	-888.619
54	12:25:00	0	5.8	13.4	14.6	66.6	1.226	168	-164	0.625	0.063	44.3	0.6	760.753	-848.419
55	12:30:00	0	5.4	12.2	13.34	66.1	1.226	140	-183	0.688	0.25	52.6	0.7	776.953	-811.819
56	12:35:00	0	7.4	11.6	13.76	57.5	1.226	157	-171	0.625	0.125	47.4	0.6	799.154	-777.02
57	12:40:00	0	6	9.8	11.49	58.5	1.226	153	-180	0.625	0.188	49.6	0.7	817.154	-747.62
58	12:45:00	0	7.2	10.6	12.81	55.8	1.226	156	-177	0.5	0.063	48.6	0.5	838.754	-715.82

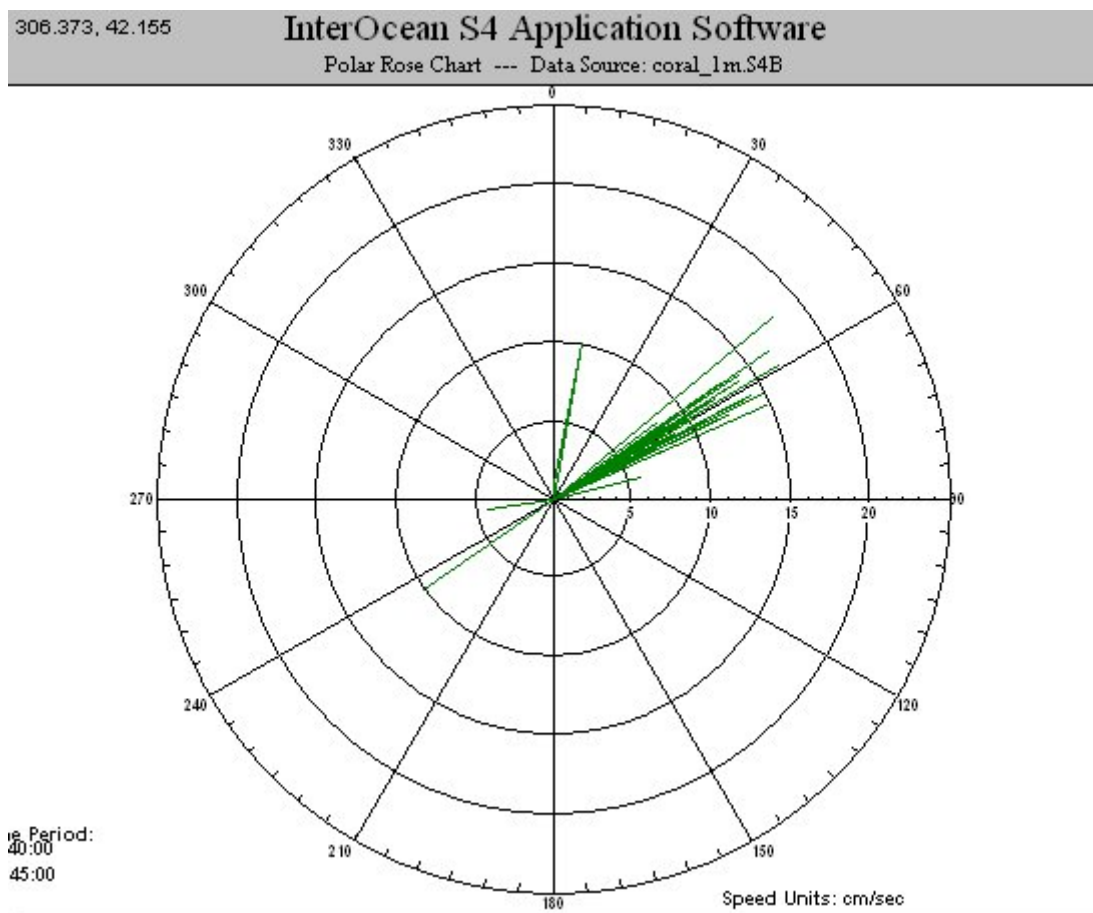


Figure D-3. Coral Princess 1m Survey

Table D-4. Current Measurements for Coral Princess, 3 Meter Depth (7/11/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
9	8:40:00	0	-1.2	-7	7.1	260.3	1.206	-25	273	1.313	0.188	264.8	1.3	-223.831	-895.193
10	8:45:00	0	-4.8	-6.8	8.32	234.8	1.206	-56	267	0.875	0.625	258.2	1.1	-238.232	-915.593
11	8:50:00	0	-3.4	-6	6.9	240.5	1.206	-83	263	0.625	0.375	252.5	0.7	-248.432	-933.593
12	8:55:00	0	0.8	-2	2.15	291.8	1.206	-92	259	0.563	0.188	250.4	0.6	-246.032	-939.593
13	9:00:00	0	-3.6	-7.6	8.41	244.7	1.206	-91	259	0.875	0.438	250.6	1	-256.833	-962.392
14	9:05:00	0	-1.4	-5	5.19	254.4	1.206	-101	255	0.438	0.125	248.4	0.5	-261.034	-977.392
15	9:10:00	0	-4.4	-7.6	8.78	239.9	1.206	-93	259	0.563	0.375	250.2	0.7	-274.234	-1000.192
16	9:15:00	0	-1	-4.6	4.71	257.7	1.206	-99	256	0.625	0.688	248.9	0.9	-277.235	-1013.992
17	9:20:00	0	-3.8	-9.2	9.95	247.6	1.206	-103	255	1	0.625	248	1.2	-288.636	-1041.591
18	9:25:00	0	-4.8	-9.4	10.55	242.9	1.206	-105	254	0.5	0.438	247.5	0.7	-303.037	-1069.791
19	9:30:00	0	-4.4	-7.6	8.78	239.9	1.206	-101	255	1.313	0.188	248.4	1.3	-316.237	-1092.59
20	9:35:00	0	-0.8	-4.4	4.47	259.7	1.206	-119	248	0.625	0.375	244.4	0.7	-318.638	-1105.79
21	9:40:00	0	-3.4	-7	7.78	244.1	1.206	-117	248	0.688	0.188	244.7	0.7	-328.838	-1126.79
22	9:45:00	0	-2.4	-6	6.46	248.2	1.206	-139	235	0.75	0.375	239.4	0.8	-336.039	-1144.79
23	9:50:00	0	-1.8	-4.8	5.13	249.4	1.206	-115	250	0.375	0.375	245.3	0.5	-341.439	-1159.19
24	9:55:00	0	-2.6	-5.2	5.81	243.4	1.206	-107	253	0.625	0.438	247.1	0.8	-349.24	-1174.789
25	10:00:00	0	-2	-9.2	9.41	257.7	1.206	-121	247	0.625	0.688	243.9	0.9	-355.241	-1202.389
26	10:05:00	0	-3.4	-8.8	9.43	248.9	1.206	-111	251	0.813	0.688	246.1	1.1	-365.442	-1228.789
27	10:10:00	0	0	-5	5	270	1.206	-131	243	1.125	0.125	241.7	1.1	-365.442	-1243.789
28	10:15:00	0	-5	-15.8	16.57	252.4	1.206	-116	249	1.813	0.688	245	1.9	-380.444	-1291.188
29	10:20:00	0	-4	-13.6	14.18	253.6	1.206	-119	249	1.313	1.438	244.5	1.9	-392.445	-1331.988
30	10:25:00	0	-4.4	-9.2	10.2	244.4	1.206	-229	153	0.438	0.875	213.7	1	-405.646	-1359.588
31	10:30:00	0	-2.2	-8	8.3	254.6	1.206	-219	169	0.813	0.375	217.7	0.9	-412.247	-1383.587
32	10:35:00	0	-5.2	-11.4	12.53	245.5	1.206	-225	162	1.375	0.625	215.8	1.5	-427.848	-1417.787
33	10:40:00	0	-0.8	-7.4	7.44	263.8	1.206	-235	145	0.375	1.125	211.7	1.2	-430.249	-1439.987
34	10:45:00	0	-2.6	-8.4	8.79	252.8	1.206	-245	121	1.875	1.688	206.3	2.5	-438.05	-1465.186
35	10:50:00	0	-3.4	-8.6	9.25	248.4	1.206	-233	149	1.063	0.188	212.6	1.1	-448.25	-1490.986
36	10:55:00	0	-3.6	-6.2	7.17	239.9	1.206	-198	189	0.375	0.688	223.7	0.8	-459.051	-1509.586
37	11:00:00	0	-2.2	-5.6	6.02	248.6	1.206	-216	171	0.688	2.375	218.4	2.5	-465.651	-1526.386
38	11:05:00	0	-1.8	-2	2.69	228	1.206	-213	177	1.313	0.875	219.7	1.6	-471.052	-1532.385
39	11:10:00	0	0.2	0.6	0.63	71.6	1.206	-225	161	0.313	0.188	215.6	0.4	-470.452	-1530.585
40	11:15:00	0	2.2	3.8	4.39	59.9	1.206	-239	143	0.375	0.625	210.9	0.7	-463.852	-1519.185
41	11:20:00	0	2.2	2.6	3.41	49.8	1.206	-221	165	2.438	1.188	216.7	2.7	-457.252	-1511.385
42	11:25:00	0	1	1	1.41	45	1.206	-216	169	0.938	1.625	218	1.9	-454.252	-1508.386
43	11:30:00	0	5.2	6.2	8.09	50	1.206	-235	143	0.5	0.188	211.3	0.5	-438.651	-1489.786
44	11:35:00	0	2.8	3.6	4.56	52.1	1.206	-235	155	0.875	0.625	213.4	1.1	-430.251	-1478.986
45	11:40:00	0	1	-1.4	1.72	305.5	1.206	-231	151	0.188	0.625	213.2	0.7	-427.252	-1483.186
46	11:45:00	0	2.2	2.4	3.26	47.5	1.206	-227	158	0.375	0.688	214.8	0.8	-420.651	-1475.986
47	11:50:00	0	1	1.8	2.06	60.9	1.206	-225	161	0.188	0.438	215.6	0.5	-417.651	-1470.586
48	11:55:00	0	2.6	2.6	3.68	45	1.206	-221	167	0.375	0.625	217.1	0.7	-409.851	-1462.786
49	12:00:00	0	0.8	0.8	1.13	45	1.206	-245	130	1.125	0.875	208	1.4	-407.451	-1460.386
50	12:05:00	0	5	7	8.6	54.5	1.206	-233	149	0.5	1.625	212.6	1.7	-392.451	-1439.386
51	12:10:00	0	6	3.6	7	31	1.206	-251	122	1.375	1.625	205.9	2.1	-374.451	-1428.586

Table D-4. Current Measurements for Coral Princess, 3 Meter Depth (7/11/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
52	12:15:00	0	2	4.2	4.65	64.5	1.206	-239	137	0.688	1.125	209.8	1.3	-368.451	-1415.986
53	12:20:00	0	7.6	2	7.86	14.7	1.206	-231	153	0.938	1.438	213.5	1.7	-345.651	-1409.986
54	12:25:00	0	7	3.4	7.78	25.9	1.206	-248	127	0.563	0.188	207.1	0.6	-324.651	-1399.786
55	12:30:00	0	10.4	8	13.12	37.6	1.206	-231	152	0.563	0.688	213.3	0.9	-293.451	-1375.786
56	12:35:00	0	2	3.2	3.77	58	1.206	-239	141	0.938	0.125	210.5	0.9	-287.451	-1366.186
57	12:40:00	0	1.8	0.2	1.81	6.3	1.206	-229	155	0.938	1.875	214.1	2.1	-282.051	-1365.586
58	12:45:00	0	2.4	0.6	2.47	14	1.206	-235	148	1.125	0.188	212.2	1.1	-274.851	-1363.786

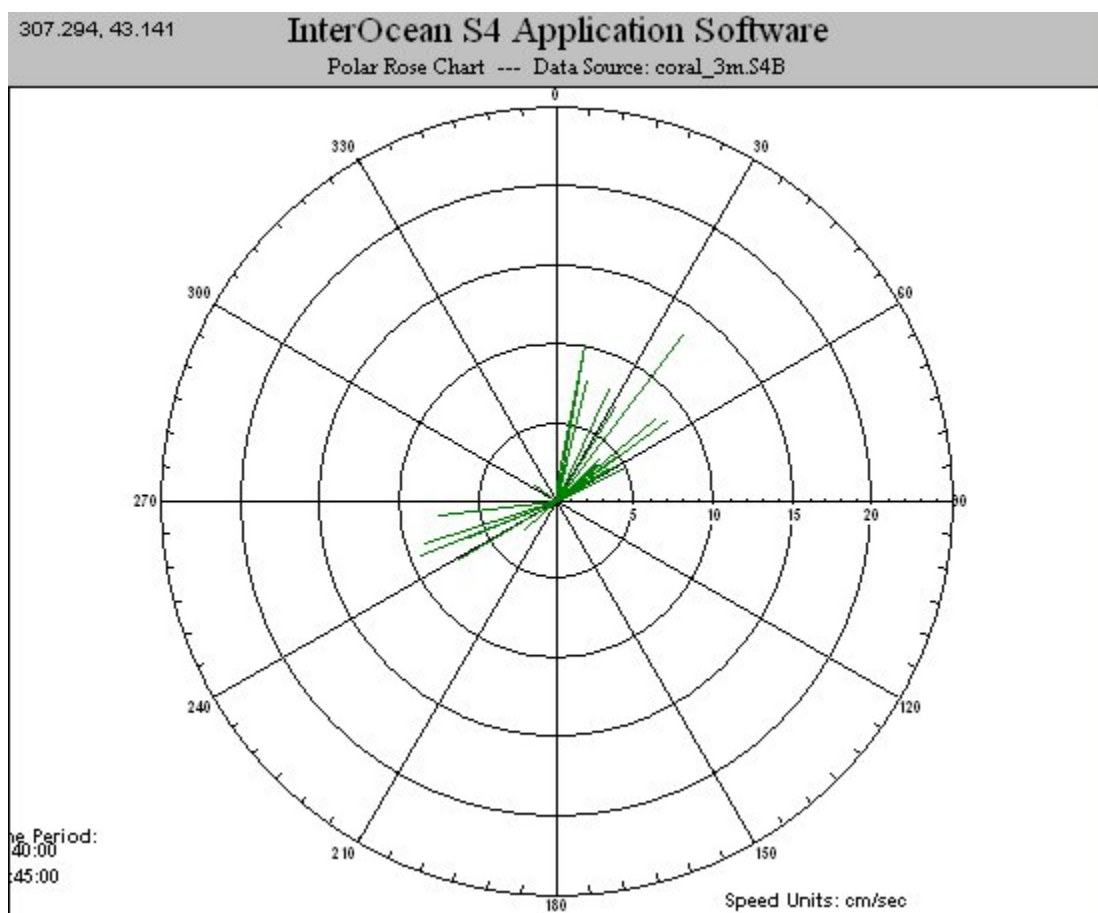


Figure D-4. Coral Princess 3m Survey

Table D-5. Current Measurements for Ryndam, 1 Meter Depth (7/12/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
14	9:05:00	0	-2.4	-3.2	4	233.1	1.226	-150	-208	0.375	0	125.8	0.4	-886.221	-584.374
15	9:10:00	0	-3.2	-3.2	4.53	225	1.226	-14	-254	0.188	0.125	93.2	0.2	-895.821	-593.974
16	9:15:00	0	-4.2	-0.2	4.2	182.7	1.226	75	-244	0.125	0.063	72.9	0.1	-908.421	-594.574
17	9:20:00	0	-2.8	-2.4	3.69	220.6	1.226	82	-242	0.25	0.063	71.3	0.3	-916.821	-601.773
18	9:25:00	0	-1	0	1	180	1.226	139	-213	0.438	0.063	56.9	0.4	-919.821	-601.773
19	9:30:00	0	-4.4	-3.8	5.81	220.8	1.226	122	-225	0.25	0.5	61.5	0.6	-933.022	-613.173
20	9:35:00	0	1	-3.2	3.35	287.4	1.226	187	-175	0.375	0.25	43.1	0.5	-930.022	-622.773
21	9:40:00	0	-0.2	1.8	1.81	96.3	1.226	193	-169	0.625	0.188	41.2	0.7	-930.622	-617.373
22	9:45:00	0	-1.6	0	1.6	180	1.226	190	-177	0.375	0	43	0.4	-935.422	-617.373
23	9:50:00	0	-4.2	-5	6.53	230	1.226	217	-139	0.188	0	32.6	0.2	-948.022	-632.373
24	9:55:00	0	1	2.4	2.6	67.4	1.226	238	-102	0.375	0.063	23.2	0.4	-945.022	-625.173
25	10:00:00	0	-3.6	-4.2	5.53	229.4	1.226	255	-59	0.125	0.125	13	0.2	-955.823	-637.772
26	10:05:00	0	-5.6	-0.8	5.66	188.1	1.226	236	-107	0.125	0.063	24.4	0.1	-972.623	-640.172
27	10:10:00	0	-2.2	-2	2.97	222.3	1.226	243	-92	0.063	0	20.7	0.1	-979.223	-646.172
28	10:15:00	0	-3.4	-0.8	3.49	193.2	1.226	253	-63	0.125	0.063	14	0.1	-989.423	-648.571
29	10:20:00	0	-2.6	-1.8	3.16	214.7	1.226	256	-53	0.25	0.063	11.7	0.3	-997.223	-653.971
30	10:25:00	0	-4.6	-3.2	5.6	214.8	1.226	257	-47	0.125	0	10.4	0.1	-1011.024	-663.571
31	10:30:00	0	-2.2	-0.8	2.34	200	1.226	261	-22	0.375	0.063	4.8	0.4	-1017.624	-665.971
32	10:35:00	0	-5.4	0.6	5.43	173.7	1.226	264	7	0.188	0.063	358.5	0.2	-1033.824	-664.17
33	10:40:00	0	-3.6	-1.2	3.79	198.4	1.226	262	5	0.25	0	358.9	0.3	-1044.624	-667.77
34	10:45:00	0	-4	-0.2	4	182.9	1.226	264	-3	0.188	0	0.7	0.2	-1056.624	-668.37
35	10:50:00	0	-5.2	-0.8	5.26	188.7	1.226	263	11	0.188	0	357.6	0.2	-1072.224	-670.769
36	10:55:00	0	-4.2	-1.6	4.49	200.9	1.226	259	51	0.25	0.063	348.9	0.3	-1084.824	-675.569
37	11:00:00	0	-2.8	-1	2.97	199.7	1.226	262	25	0.25	0	354.5	0.3	-1093.224	-678.569
38	11:05:00	0	-1.2	0.6	1.34	153.4	1.226	263	25	0.188	0	354.6	0.2	-1096.824	-676.769
39	11:10:00	0	-4.6	-2.2	5.1	205.6	1.226	264	6	0.125	0	358.7	0.1	-1110.624	-683.368
40	11:15:00	0	-2.6	0.6	2.67	167	1.226	261	32	0.188	0.063	353	0.2	-1118.424	-681.568
41	11:20:00	0	-3.8	0.6	3.85	171	1.226	257	57	0.188	0.063	347.5	0.2	-1129.824	-679.768
42	11:25:00	0	-4	0	4	180	1.226	251	81	0.188	0	342.1	0.2	-1141.824	-679.768
43	11:30:00	0	-2.8	0.8	2.91	164.1	1.226	249	89	0.313	0.063	340.3	0.3	-1150.224	-677.367
44	11:35:00	0	-3	-3.2	4.39	226.8	1.226	248	93	0.188	0	339.4	0.2	-1159.224	-686.967
45	11:40:00	0	-3.8	-3	4.84	218.3	1.226	242	108	0.125	0.188	335.9	0.2	-1170.624	-695.967
46	11:45:00	0	-2	-0.6	2.09	196.7	1.226	241	103	0.313	0	336.9	0.3	-1176.625	-697.767
47	11:50:00	0	-2.6	-1.8	3.16	214.7	1.226	236	125	0.188	0.188	332.1	0.3	-1184.425	-703.166
48	11:55:00	0	-2.8	1.2	3.05	156.8	1.226	239	115	0.188	0	334.3	0.2	-1192.825	-699.566
49	12:00:00	0	-2.8	-1.4	3.13	206.6	1.226	232	129	0.25	0	330.9	0.3	-1201.225	-703.766
50	12:05:00	0	-2	-1.2	2.33	211	1.226	236	121	0.25	0	332.9	0.3	-1207.225	-707.366
51	12:10:00	0	-2.4	0	2.4	180	1.226	245	101	0.313	0.063	337.6	0.3	-1214.425	-707.366
52	12:15:00	0	-2.8	0.2	2.81	175.9	1.226	223	144	0.25	0.063	327.1	0.3	-1222.825	-706.765
53	12:20:00	0	-0.4	-2.4	2.43	260.5	1.226	190	184	0.125	0.188	315.9	0.2	-1224.025	-713.965
54	12:25:00	0	-3.8	-1.8	4.2	205.3	1.226	205	171	0.188	0.125	320.2	0.2	-1235.425	-719.365
55	12:30:00	0	-2.8	-0.8	2.91	195.9	1.226	228	135	0.25	0.063	329.4	0.3	-1243.825	-721.765

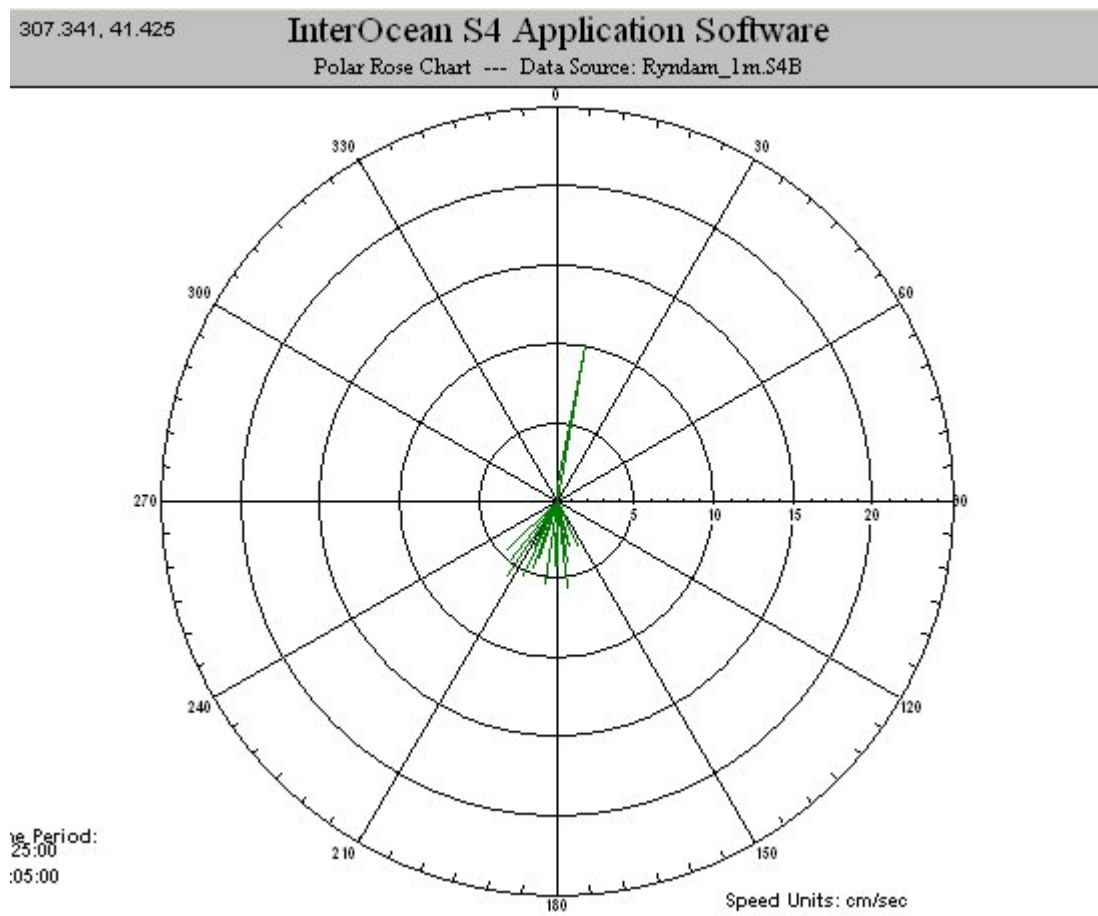


Figure D-5. Ryndam 1m Survey

Table D-6. Current Measurements for Ryndam, 3 Meter Depth (7/12/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
14	9:05:00	0	-2.2	-2.8	3.56	231.8	1.206	153	246	0.313	0.125	301.9	0.3	-971.414	-491.973
15	9:10:00	0	-1.4	0.8	1.61	150.3	1.206	2	287	0.688	0.188	270.4	0.7	-975.614	-489.573
16	9:15:00	0	4.8	1.4	5	16.3	1.206	-90	273	1.125	0.188	251.8	1.1	-961.214	-485.373
17	9:20:00	0	-0.6	-1.6	1.71	249.4	1.206	-100	272	0.375	0.125	249.8	0.4	-963.014	-490.173
18	9:25:00	0	2.2	0.2	2.21	5.2	1.206	-165	237	0.375	0.188	235.2	0.4	-956.414	-489.573
19	9:30:00	0	3.6	-2.2	4.22	328.6	1.206	-168	234	0.5	0.625	234.3	0.8	-945.614	-496.174
20	9:35:00	0	-0.4	-1.4	1.46	254.1	1.206	-225	181	0.375	0.125	218.8	0.4	-946.814	-500.374
21	9:40:00	0	2	3.2	3.77	58	1.206	-229	177	0.375	0.125	217.7	0.4	-940.814	-490.774
22	9:45:00	0	2	0	2	0	1.206	-229	176	0.313	0.125	217.5	0.3	-934.814	-490.774
23	9:50:00	0	-1.6	-7.2	7.38	257.5	1.206	-255	142	0.625	0.125	209.1	0.6	-939.615	-512.374
24	9:55:00	0	10.4	1.4	10.49	7.7	1.206	-279	83	0.5	0.125	196.6	0.5	-908.415	-508.174
25	10:00:00	0	-1.6	-5	5.25	252.3	1.206	-289	45	0.688	0.188	188.9	0.7	-913.216	-523.174
26	10:05:00	0	-1.2	-1.8	2.16	236.3	1.206	-274	97	0.688	0.125	199.5	0.7	-916.816	-528.573
27	10:10:00	0	-2.6	-3	3.97	229.1	1.206	-280	83	0.688	0.125	196.5	0.7	-924.616	-537.573
28	10:15:00	0	-2.6	-3.8	4.6	235.6	1.206	-287	49	0.5	0.188	189.7	0.5	-932.416	-548.973
29	10:20:00	0	0	-2.2	2.2	270	1.206	-289	39	0.375	0.125	187.7	0.4	-932.417	-555.573
30	10:25:00	0	-1.8	-3.2	3.67	240.6	1.206	-291	31	0.563	0.125	186.1	0.6	-937.817	-565.173
31	10:30:00	0	-2.4	-0.4	2.43	189.5	1.206	-291	4	0.375	0.125	180.8	0.4	-945.017	-566.373
32	10:35:00	0	-3.2	-3.4	4.67	226.7	1.206	-291	-27	0.625	0.125	174.7	0.6	-954.617	-576.572
33	10:40:00	0	-3.2	-2	3.77	212	1.206	-291	-25	0.438	0.125	175.1	0.5	-964.217	-582.572
34	10:45:00	0	-2.4	-2.2	3.26	222.5	1.206	-291	-19	0.5	0.125	176.3	0.5	-971.418	-589.172
35	10:50:00	0	-1.2	-3.2	3.42	249.4	1.206	-290	-31	0.438	0.125	173.9	0.5	-975.018	-598.772
36	10:55:00	0	-3.8	-3.4	5.1	221.8	1.206	-281	-75	0.438	0.125	165.1	0.5	-986.418	-608.971
37	11:00:00	0	-2.4	-3	3.84	231.3	1.206	-289	-45	0.438	0.125	171.1	0.5	-993.618	-617.971
38	11:05:00	0	-0.4	1	1.08	111.8	1.206	-289	-43	0.5	0.125	171.5	0.5	-994.818	-614.971
39	11:10:00	0	-1.4	-1.4	1.98	225	1.206	-293	-19	0.563	0.125	176.3	0.6	-999.018	-619.171
40	11:15:00	0	0.6	1.2	1.34	63.4	1.206	-289	-51	0.5	0.125	170	0.5	-997.218	-615.571
41	11:20:00	0	0	-1.6	1.6	270	1.206	-281	-77	0.5	0.125	164.7	0.5	-997.219	-620.371
42	11:25:00	0	-2.4	-3	3.84	231.3	1.206	-273	-105	0.438	0.125	159	0.5	-1004.419	-629.371
43	11:30:00	0	-3.2	-2.2	3.88	214.5	1.206	-269	-115	0.375	0.125	156.9	0.4	-1014.019	-635.971
44	11:35:00	0	-1.4	0	1.4	180	1.206	-269	-118	0.5	0.125	156.3	0.5	-1018.219	-635.97
45	11:40:00	0	-2.8	-5	5.73	240.8	1.206	-256	-143	0.438	0.188	150.8	0.5	-1026.62	-650.97
46	11:45:00	0	-1	-1.6	1.89	238	1.206	-259	-137	0.375	0.125	152.1	0.4	-1029.62	-655.77
47	11:50:00	0	-2.8	-5	5.73	240.8	1.206	-245	-161	0.438	0.188	146.7	0.5	-1038.02	-670.77
48	11:55:00	0	-2.6	-2	3.28	217.6	1.206	-251	-151	0.438	0.125	149	0.5	-1045.82	-676.77
49	12:00:00	0	-2.8	-3	4.1	227	1.206	-243	-165	0.438	0.125	145.8	0.5	-1054.221	-685.769
50	12:05:00	0	-1.8	-2.2	2.84	230.7	1.206	-247	-157	0.438	0.125	147.6	0.5	-1059.621	-692.369
51	12:10:00	0	-2.6	-3.2	4.12	230.9	1.206	-259	-136	0.375	0.125	152.3	0.4	-1067.421	-701.969
52	12:15:00	0	-2.6	-4.2	4.94	238.2	1.206	-225	-187	0.375	0.125	140.3	0.4	-1075.222	-714.569
53	12:20:00	0	0.4	-6	6.01	273.8	1.206	-194	-219	1.188	0.688	131.5	1.4	-1074.022	-732.569
54	12:25:00	0	-3	-5.4	6.18	240.9	1.206	-213	-203	0.438	0.125	136.4	0.5	-1083.023	-748.768
55	12:30:00	0	-0.4	-1.2	1.26	251.6	1.206	-245	-161	0.375	0.125	146.7	0.4	-1084.223	-752.368

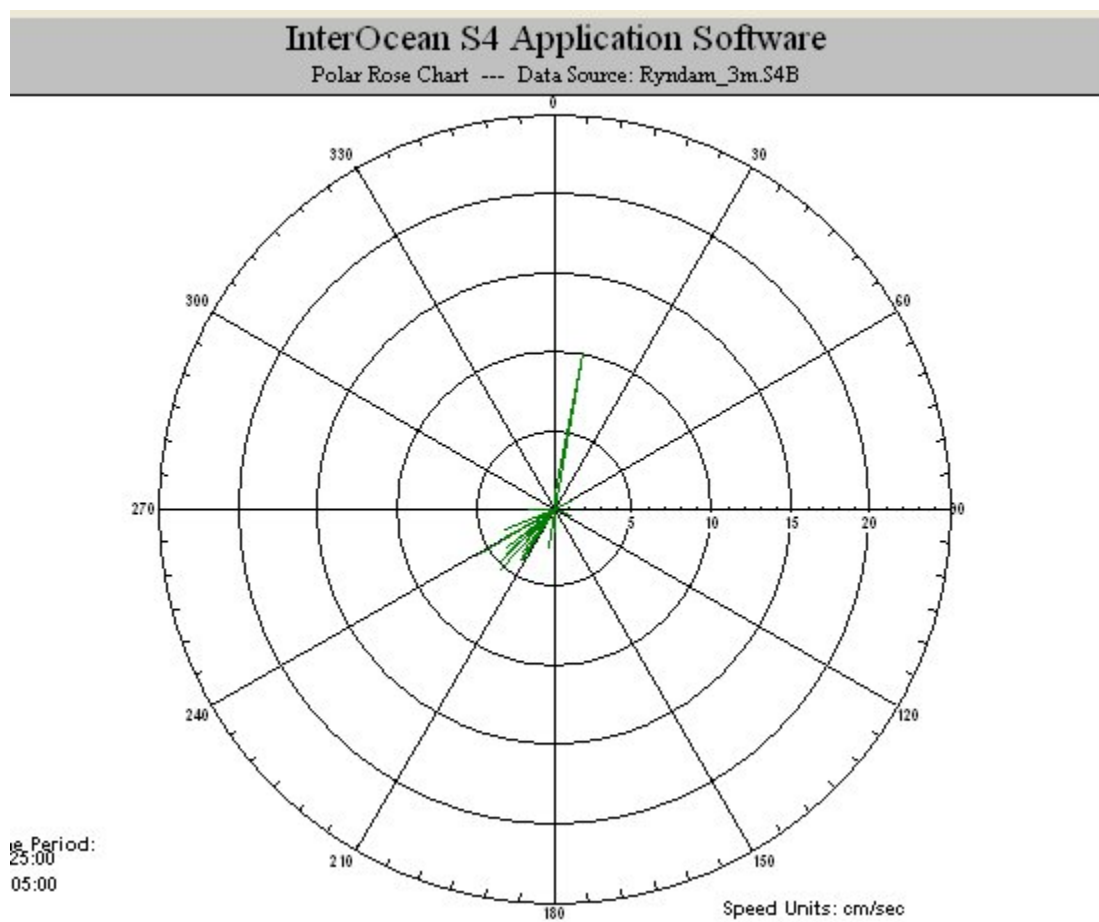


Figure D-6. Ryndam 3m Survey

Table D-7. Current Measurements for Millennium, 1 Meter Depth (7/15/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
11	8:50:00	0	-19.4	-6.8	20.56	199.3	1.23	-141	132	0.25	0.313	223.1	0.4	-462.017	-433.782
12	8:55:00	0	-2.8	-6.8	7.35	247.6	1.23	-180	67	0.625	0.313	200.4	0.7	-470.418	-454.182
13	9:00:00	0	0	-1.4	1.4	270	1.23	-186	41	0.375	0.5	192.4	0.6	-470.418	-458.382
14	9:05:00	0	2	0.4	2.04	11.3	1.23	150	-117	0.188	0.063	38	0.2	-464.418	-457.182
15	9:10:00	0	2	0	2	0	1.23	168	-94	0.25	0.063	29.2	0.3	-458.418	-457.182
16	9:15:00	0	-1.6	-1	1.89	212	1.23	186	-61	0.5	0.313	18.2	0.6	-463.218	-460.182
17	9:20:00	0	-2	-4.8	5.2	247.4	1.23	178	-67	0.063	0.188	20.6	0.2	-469.219	-474.582
18	9:25:00	0	0.2	-3.4	3.41	273.4	1.23	189	-16	0	0.063	4.8	0.1	-468.619	-484.782
19	9:30:00	0	0.4	1.6	1.65	76	1.23	187	-35	0.188	0.313	10.6	0.4	-467.419	-479.982
20	9:35:00	0	-0.6	-2	2.09	253.3	1.226	190	8	0.063	0.188	357.6	0.2	-469.219	-485.982
21	9:40:00	0	-3.6	-6.2	7.17	239.9	1.226	190	14	0.125	0.063	355.8	0.1	-480.02	-504.582
22	9:45:00	0	-1.8	-4.2	4.57	246.8	1.226	190	8	0.125	0.188	357.6	0.2	-485.42	-517.181
23	9:50:00	0	-1	-5	5.1	258.7	1.226	191	7	0.125	0.063	357.9	0.1	-488.421	-532.181
24	9:55:00	0	0.2	-4.2	4.2	272.7	1.226	190	-22	0.125	0.063	6.6	0.1	-487.821	-544.781
25	10:00:00	0	-2.2	-0.8	2.34	200	1.226	189	-6	0.375	0.313	1.8	0.5	-494.421	-547.181
26	10:05:00	0	1	-3.2	3.35	287.4	1.226	53	-175	1.375	0.563	73.2	1.5	-491.422	-556.781
27	10:10:00	0	-3	-9.4	9.87	252.3	1.23	182	-50	0	0.125	15.4	0.1	-500.423	-584.981
28	10:15:00	0	-0.4	-5.8	5.81	266.1	1.23	184	-44	0.125	0.063	13.4	0.1	-501.623	-602.381
29	10:20:00	0	0.4	-1.8	1.84	282.5	1.23	184	-45	0.125	0.063	13.7	0.1	-500.423	-607.781
30	10:25:00	0	2.2	-0.8	2.34	340	1.23	187	-39	0.438	0.188	11.8	0.5	-493.823	-610.181
31	10:30:00	0	-0.2	1.8	1.81	96.3	1.226	189	-29	0.125	0.188	8.7	0.2	-494.423	-604.781
32	10:35:00	0	-3.2	-4.8	5.77	236.3	1.226	189	-24	0.125	0.063	7.2	0.1	-504.024	-619.181
33	10:40:00	0	0.6	1	1.17	59	1.226	190	-26	0.125	0	7.8	0.1	-502.224	-616.181
34	10:45:00	0	1.4	5	5.19	74.4	1.226	189	-21	0.188	0.188	6.3	0.3	-498.024	-601.181
35	10:50:00	0	0.4	2.4	2.43	80.5	1.226	189	-21	0.125	0.063	6.3	0.1	-496.824	-593.981
36	10:55:00	0	-3	-2.6	3.97	220.9	1.226	187	-18	0.063	0.063	5.5	0.1	-505.824	-601.781
37	11:00:00	0	-2.2	-1.6	2.72	216	1.226	190	-19	0.125	0.063	5.7	0.1	-512.424	-606.581
38	11:05:00	0	1.6	3.2	3.58	63.4	1.226	-67	177	0.125	0.063	249.3	0.1	-507.624	-596.981
39	11:10:00	0	0	-1.8	1.8	270	1.226	-66	177	0.25	0.063	249.6	0.3	-507.624	-602.381
40	11:15:00	0	-0.4	-1.6	1.65	256	1.226	-31	187	0.125	0.188	260.6	0.2	-508.824	-607.181
41	11:20:00	0	-4.4	-6.4	7.77	235.5	1.226	-48	184	0.5	0.188	255.4	0.5	-522.025	-626.38
42	11:25:00	0	-1.4	-2.6	2.95	241.7	1.226	-50	180	0.5	0	254.5	0.5	-526.225	-634.18
43	11:30:00	0	-6.8	-8.8	11.12	232.3	1.226	-55	179	0.688	0.063	252.9	0.7	-546.626	-660.579
44	11:35:00	0	-1	-1.8	2.06	240.9	1.226	-61	178	0.625	0.063	251.1	0.6	-549.626	-665.979

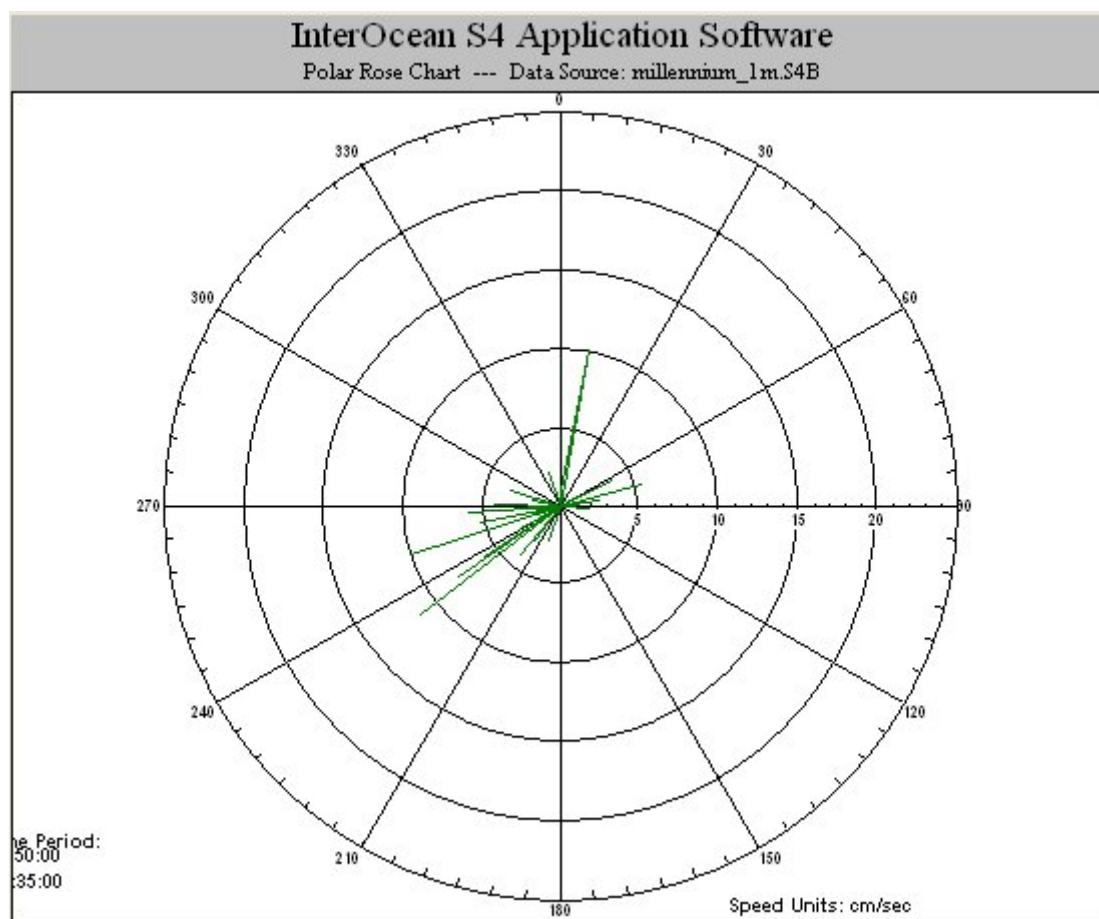


Figure D-7. Millenium 1m Survey

Table D-8. Current Measurements for Millennium, 3 Meter Depth (7/15/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
11	8:50:00	0	-1.8	-5	5.31	250.2	1.206	250	-77	0.375	0.188	17.1	0.4	83.394	-110.403
12	8:55:00	0	-3	-6.4	7.07	244.9	1.206	258	45	0.188	0.625	350.1	0.7	74.393	-129.602
13	9:00:00	0	0	-4.4	4.4	270	1.206	243	83	0.125	2.438	341.1	2.4	74.393	-142.802
14	9:05:00	0	-0.2	-6.2	6.2	268.2	1.206	-249	77	0.438	0.875	197.2	1	73.792	-161.402
15	9:10:00	0	2.8	1.2	3.05	23.2	1.206	-259	33	0.188	0.375	187.3	0.4	82.192	-157.802
16	9:15:00	0	-3.4	-3.6	4.95	226.6	1.206	-260	27	0.438	0.688	185.9	0.8	71.992	-168.602
17	9:20:00	0	-3.8	-5.8	6.93	236.8	1.206	-261	49	0.438	0.188	190.6	0.5	60.591	-186.002
18	9:25:00	0	3	1.4	3.31	25	1.206	-245	-91	0.625	0.188	159.6	0.7	69.591	-181.802
19	9:30:00	0	0	2.2	2.2	90	1.206	-250	-72	0.438	2.125	163.9	2.2	69.592	-175.202
20	9:35:00	0	1.6	0.6	1.71	20.6	1.206	-233	-111	0.688	0.125	154.5	0.7	74.392	-173.402
21	9:40:00	0	0	-0.6	0.6	270	1.206	-227	-123	0.5	0.625	151.5	0.8	74.391	-175.202
22	9:45:00	0	-0.4	-2.6	2.63	261.3	1.206	-231	-117	0.938	0.688	153.1	1.2	73.191	-183.002
23	9:50:00	0	1.2	-1.8	2.16	303.7	1.206	-231	-115	0.375	0.125	153.5	0.4	76.791	-188.402
24	9:55:00	0	0	-0.6	0.6	270	1.206	-249	-69	0.375	0.438	164.5	0.6	76.791	-190.202
25	10:00:00	0	1.2	1.2	1.7	45	1.206	-234	-109	1	0.625	155	1.2	80.391	-186.602
26	10:05:00	0	1.8	1.2	2.16	33.7	1.206	-115	229	4.625	1.438	243.3	4.8	85.791	-183.002
27	10:10:00	0	-0.6	-0.4	0.72	213.7	1.206	-259	-34	0.5	0.125	172.5	0.5	83.991	-184.202
28	10:15:00	0	2.8	1.4	3.13	26.6	1.206	-255	-40	0.438	0.188	171.1	0.5	92.391	-180.002
29	10:20:00	0	0.6	4	4.04	81.5	1.206	-253	-45	0.188	0.188	169.9	0.3	94.191	-168.002
30	10:25:00	0	2.8	8.8	9.23	72.3	1.206	-249	-67	0.125	1.125	164.9	1.1	102.591	-141.602
31	10:30:00	0	2.6	7.8	8.22	71.6	1.206	-251	-60	0.375	1.875	166.6	1.9	110.391	-118.202
32	10:35:00	0	-0.2	0	0.2	180	1.206	-249	-73	0.375	0.188	163.7	0.4	109.791	-118.202
33	10:40:00	0	2	2.4	3.12	50.2	1.206	-249	-70	0.375	0.125	164.3	0.4	115.792	-111.002
34	10:45:00	0	-0.2	4.2	4.2	92.7	1.206	-248	-75	0.5	0.188	163.2	0.5	115.192	-98.402
35	10:50:00	0	-1.6	-0.4	1.65	194	1.206	-247	-75	0.625	0.125	163.1	0.6	110.392	-99.602
36	10:55:00	0	-3.4	-3.6	4.95	226.6	1.206	-245	-79	0.375	0.188	162.1	0.4	100.191	-110.401
37	11:00:00	0	-0.6	-5.2	5.23	263.4	1.206	-245	-80	0.188	0.125	161.9	0.2	98.391	-126.001
38	11:05:00	0	0	2.8	2.8	90	1.206	169	-195	0.125	0.125	49.1	0.2	98.391	-117.601
39	11:10:00	0	-1.2	-3	3.23	248.2	1.206	186	-177	0.188	0.375	43.6	0.4	94.791	-126.601
40	11:15:00	0	0.8	1	1.28	51.3	1.206	151	-207	0.563	0.125	53.9	0.6	97.191	-123.601
41	11:20:00	0	-3.2	-3.2	4.53	225	1.206	169	-193	0.125	0.188	48.8	0.2	87.59	-133.201
42	11:25:00	0	-2.4	-2.2	3.26	222.5	1.206	171	-189	0.375	0.625	47.9	0.7	80.39	-139.801
43	11:30:00	0	-2.2	-7.8	8.1	254.2	1.206	171	-189	0	0.188	47.9	0.2	73.789	-163.201
44	11:35:00	0	2.2	-0.2	2.21	354.8	1.206	176	-187	0.313	0.188	46.7	0.4	80.389	-163.801

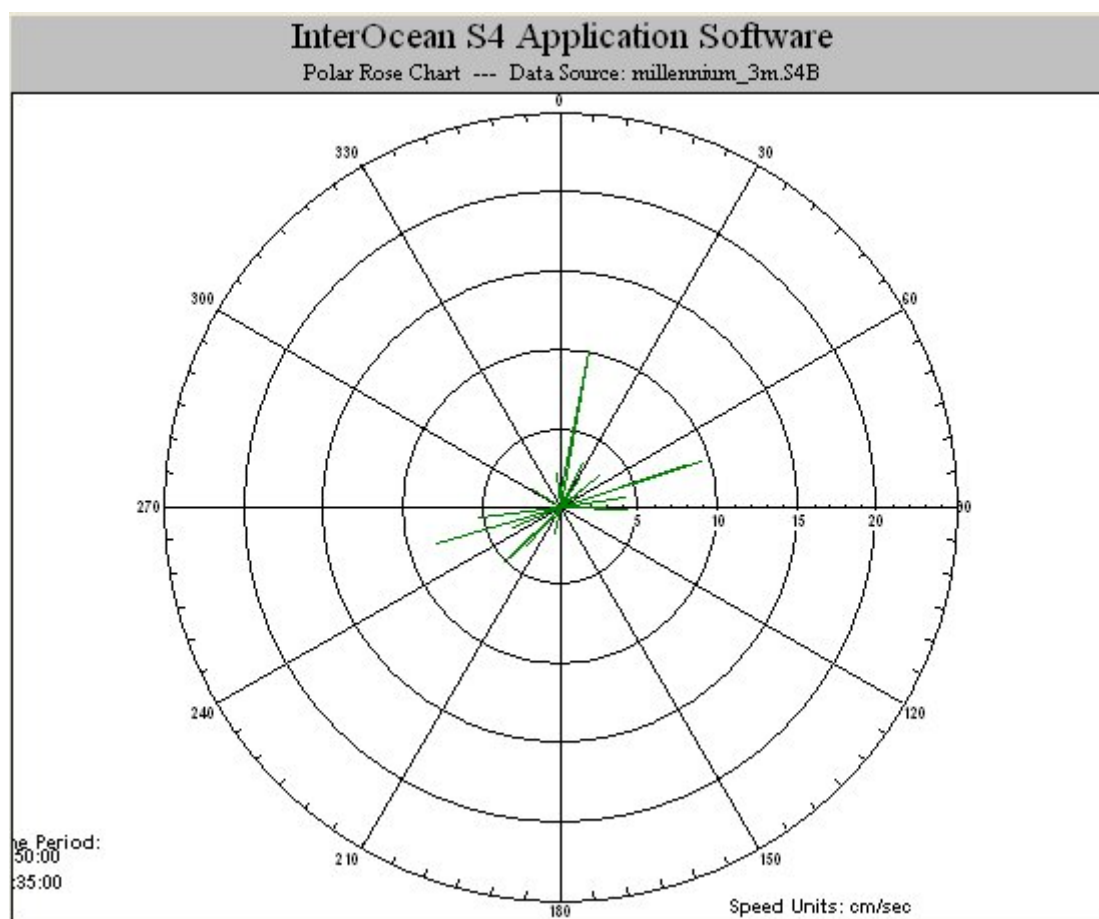


Figure D-8. Millenium 3m Survey

Table D-9. Current Measurements for Norwegian Star, 3 Meter Depth (7/16/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
22	9:45:00	0	-1	1.6	1.89	122	1.206	33	-177	0.188	0.688	79.4	0.7	2122.187	-95.46
23	9:50:00	0	-2.6	4.8	5.46	118.4	1.206	167	7	0.125	0.438	357.6	0.5	2114.387	-81.06
24	9:55:00	0	2.4	0.8	2.53	18.4	1.206	151	45	0.375	0.188	343.4	0.4	2121.587	-78.66
25	10:00:00	0	-0.6	1.8	1.9	108.4	1.206	147	82	0.438	0.188	330.8	0.5	2119.787	-73.26
26	10:05:00	0	0.2	1.6	1.61	82.9	1.206	131	103	0.188	0.438	321.8	0.5	2120.387	-68.46
27	10:10:00	0	1.6	0.6	1.71	20.6	1.206	123	109	0.625	0.188	318.5	0.7	2125.187	-66.66
28	10:15:00	0	-1.8	3.4	3.85	117.9	1.206	126	105	0.438	0.438	320.2	0.6	2119.787	-56.46
29	10:20:00	0	2	1.8	2.69	42	1.206	103	127	0.375	0.188	309	0.4	2125.788	-51.06
30	10:25:00	0	-4.6	7.2	8.54	122.6	1.206	91	133	0.375	0.188	304.4	0.4	2111.988	-29.46
31	10:30:00	0	1	1	1.41	45	1.206	131	99	1.625	0.625	322.9	1.7	2114.988	-26.46
32	10:35:00	0	-4.6	7.4	8.71	121.9	1.206	73	147	0.188	0.188	296.4	0.3	2101.188	-4.26
33	10:40:00	0	-2.8	6.2	6.8	114.3	1.206	71	147	0.188	0.688	295.8	0.7	2092.789	14.34
34	10:45:00	0	-5.4	2.6	5.99	154.3	1.206	9	157	0	0.125	273.3	0.1	2076.589	22.141
35	10:50:00	0	1.8	1	2.06	29.1	1.206	-1	161	0.5	0.688	269.6	0.9	2081.989	25.141
36	10:55:00	0	4	-3.8	5.52	316.5	1.206	-27	157	0.438	0.875	260.2	1	2093.988	13.74
37	11:00:00	0	1	0	1	0	1.206	-51	153	0.125	0.188	251.6	0.2	2096.988	13.74
38	11:05:00	0	-0.6	1.6	1.71	110.6	1.206	-29	157	0.438	0.875	259.5	1	2095.188	18.54
39	11:10:00	0	6.6	-2.2	6.96	341.6	1.206	-10	161	0.625	0.938	266.4	1.1	2114.988	11.939
40	11:15:00	0	2.8	-4.4	5.22	302.5	1.206	-27	157	0.625	0.688	260.2	0.9	2123.387	-1.261
41	11:20:00	0	3	-2.8	4.1	317	1.206	-77	139	0.375	0.188	241	0.4	2132.387	-9.661
42	11:25:00	0	2.6	-1.8	3.16	325.3	1.206	-89	133	0.188	0.438	236.2	0.5	2140.187	-15.062
43	11:30:00	0	4.2	-3.2	5.28	322.7	1.206	-151	63	0.125	0.625	202.6	0.6	2152.786	-24.662
44	11:35:00	0	-4	-1.8	4.39	204.2	1.206	-157	39	0.188	0.188	194	0.3	2140.786	-30.062
45	11:40:00	0	5.2	-5.8	7.79	311.9	1.206	-89	134	0.625	0.188	236.4	0.7	2156.386	-47.463
46	11:45:00	0	7.4	-7.2	10.32	315.8	1.206	-164	15	0.875	0.688	185.2	1.1	2178.585	-69.064
47	11:50:00	0	5.2	-6	7.94	310.9	1.206	-159	-13	0.375	0.188	175.3	0.4	2194.184	-87.064

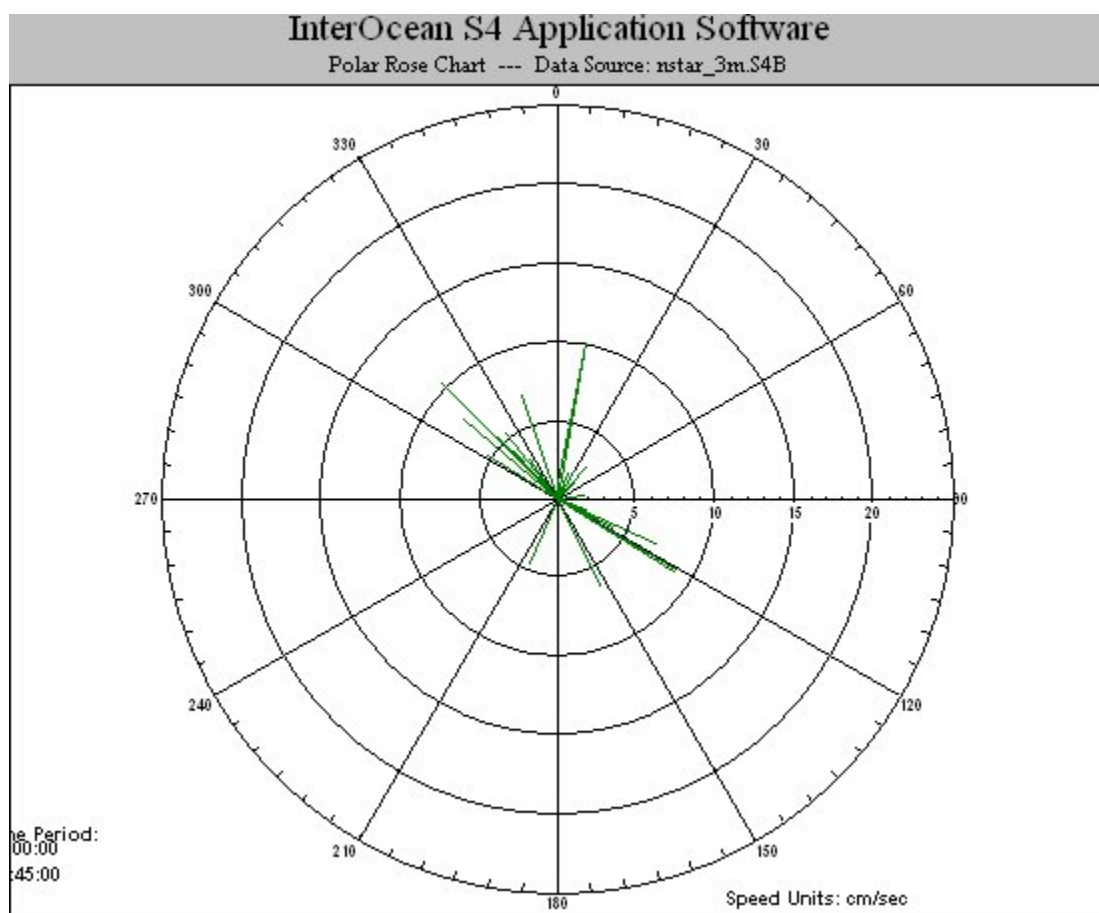


Figure D-9. Norwegian Star 3m Survey

Table D-10. Current Measurements for Norwegian Star, 5 Meter Depth (7/16/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
22	9:45:00	0	1.4	-6.6	6.75	282	1.221	-25	-180	1.438	0.188	97.9	1.4	2062.211	3139.117
23	9:50:00	0	0.2	-8	8	271.4	1.221	166	-27	0.375	1.5	9.2	1.5	2062.81	3115.117
24	9:55:00	0	0.6	-1	1.17	301	1.221	167	27	2.625	1.125	350.8	2.9	2064.61	3112.117
25	10:00:00	0	3.6	-3.4	4.95	316.6	1.221	164	49	0.188	0.5	343.4	0.5	2075.41	3101.916
26	10:05:00	0	4.2	-3.8	5.66	317.9	1.221	149	82	1	0.313	331.2	1	2088.009	3090.516
27	10:10:00	0	10	-14	17.2	305.5	1.221	143	93	1.063	1	327	1.5	2118.007	3048.515
28	10:15:00	0	1.2	-1	1.56	320.2	1.221	148	87	1.188	0.188	329.6	1.2	2121.607	3045.514
29	10:20:00	0	4.8	-9.2	10.38	297.6	1.226	131	115	0.75	0.438	318.7	0.9	2136.006	3017.914
30	10:25:00	0	2.4	-6.8	7.21	289.4	1.226	116	128	1	0.375	312.2	1.1	2143.205	2997.514
31	10:30:00	0	9.2	-7.6	11.93	320.4	1.221	151	77	2.375	0.625	333	2.5	2170.804	2974.712
32	10:35:00	0	0.4	0	0.4	0	1.216	99	143	1.063	0.688	304.7	1.3	2172.004	2974.712
33	10:40:00	0	1.4	-3.8	4.05	290.2	1.221	103	138	0.313	0.688	306.7	0.8	2176.204	2963.312
34	10:45:00	0	-1.4	3.8	4.05	110.2	1.216	38	172	0.313	0.313	282.5	0.4	2172.004	2974.712
35	10:50:00	0	2.2	-5.4	5.83	292.2	1.216	32	175	0.75	0.25	280.4	0.8	2178.603	2958.512
36	10:55:00	0	3.6	-3.4	4.95	316.6	1.216	13	177	0.438	0.625	274.2	0.8	2189.403	2948.312
37	11:00:00	0	2	-1.4	2.44	325	1.216	-20	177	0.375	0.438	263.6	0.6	2195.403	2944.111
38	11:05:00	0	-0.6	-0.6	0.85	225	1.216	4	178	1.063	0.438	271.3	1.1	2193.603	2942.311
39	11:10:00	0	5	-5.4	7.36	312.8	1.216	32	175	0.938	0.375	280.4	1	2208.602	2926.111
40	11:15:00	0	2	-3.2	3.77	302	1.216	3	179	2.125	0.625	271	2.2	2214.602	2916.51
41	11:20:00	0	5.2	-6.4	8.25	309.1	1.221	-53	173	0.688	0.188	253	0.7	2230.201	2897.31
42	11:25:00	0	1.2	-2.6	2.86	294.8	1.216	-67	169	0.625	0.688	248.4	0.9	2233.801	2889.51
43	11:30:00	0	-1.2	-4.2	4.37	254.1	1.206	-143	112	0.438	1.125	218.1	1.2	2230.2	2876.91
44	11:35:00	0	-0.2	0.8	0.82	104	1.206	-163	80	0.375	0.438	206.1	0.6	2229.6	2879.31
45	11:40:00	0	4.8	-4.2	6.38	318.8	1.206	-18	177	1.063	1.313	264.2	1.7	2244	2866.709
46	11:45:00	0	8.4	-5	9.78	329.2	1.206	-172	49	0.813	0.875	195.9	1.2	2269.199	2851.708
47	11:50:00	0	3.8	-5	6.28	307.2	1.206	-178	38	1.063	0.625	192.1	1.2	2280.598	2836.708

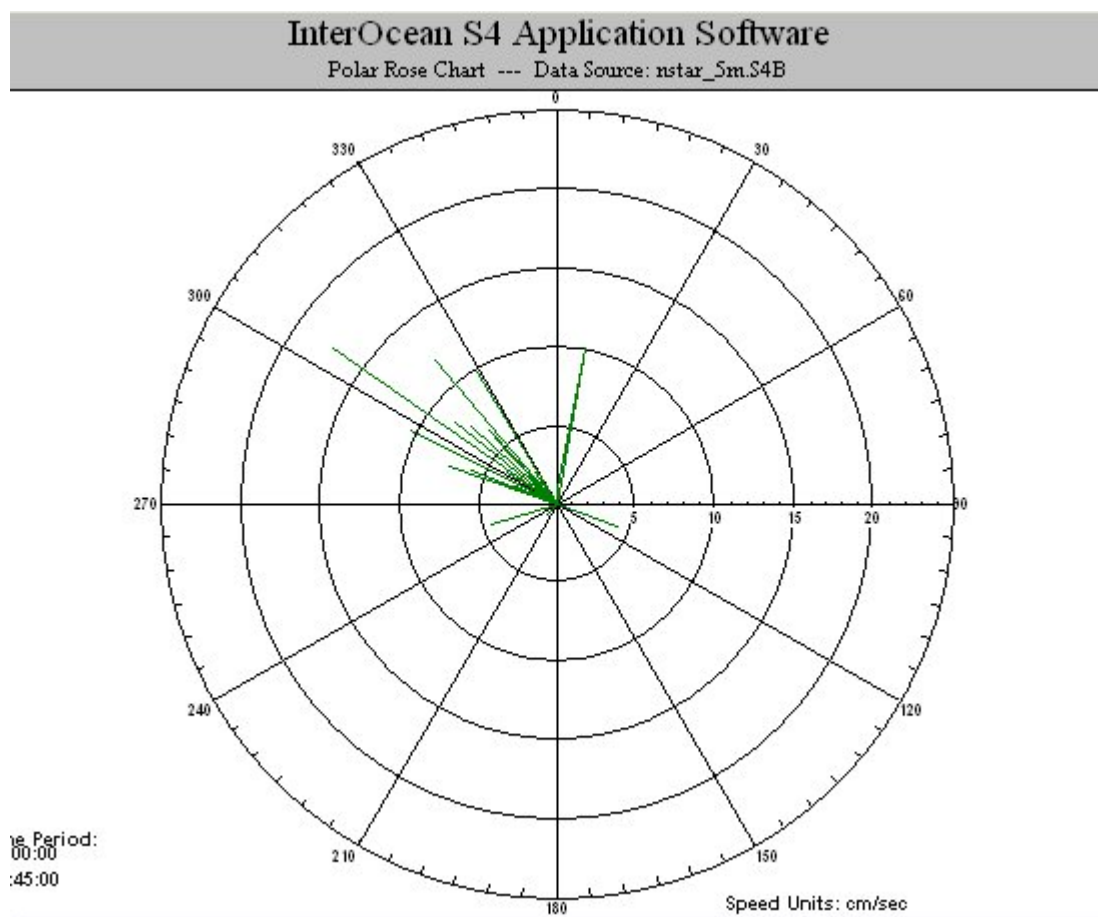


Figure D-10. Norwegian Star 5m Survey

Table D-11. Current Measurements for Volendam, 1 Meter Depth (7/17/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
23	9:50:00	0	-1.4	4.8	5	106.3	1.235	34	233	0.25	0.688	278.3	0.7	-1922.442	-831.551
24	9:55:00	0	2.6	6.2	6.72	67.2	1.235	-199	-107	1	1.5	151.7	1.8	-1914.642	-812.951
25	10:00:00	0	4	4.6	6.1	49	1.235	-139	-164	0.688	1.688	130.3	1.8	-1902.642	-799.151
26	10:05:00	0	1.2	0.2	1.22	9.5	1.235	-146	-180	0.125	1.438	129	1.4	-1899.042	-798.551
27	10:10:00	0	-0.4	0	0.4	180	1.235	-42	-204	0.875	1.813	101.6	2	-1900.242	-798.551
28	10:15:00	0	-2.4	-0.6	2.47	194	1.23	-79	-213	0.813	0.813	110.3	1.1	-1907.442	-800.351
29	10:20:00	0	-0.6	-1.4	1.52	246.8	1.23	-161	-143	0.875	1.688	138.4	1.9	-1909.242	-804.551
30	10:25:00	0	0.4	0.2	0.45	26.6	1.23	8	-229	2.25	1.5	88	2.7	-1908.042	-803.951
31	10:30:00	0	2.6	1	2.79	21	1.235	-119	-184	0.938	0.563	122.9	1.1	-1900.242	-800.951
32	10:35:00	0	1.8	1.2	2.16	33.7	1.235	-81	-228	1.125	2.688	109.6	2.9	-1894.842	-797.351
33	10:40:00	0	4	3.2	5.12	38.7	1.235	129	-189	1.563	0.313	55.7	1.6	-1882.842	-787.751
34	10:45:00	0	6.4	2.8	6.99	23.6	1.235	187	-107	1	0.313	29.8	1	-1863.642	-779.351
35	10:50:00	0	4.6	7.6	8.88	58.8	1.235	125	-193	2.688	0.938	57.1	2.8	-1849.842	-756.551
36	10:55:00	0	3	7.4	7.98	67.9	1.23	91	-195	0.438	0.563	65	0.7	-1840.842	-734.351
37	11:00:00	0	3	3.4	4.53	48.6	1.23	52	-209	0.875	0.625	76	1.1	-1831.842	-724.151
38	11:05:00	0	2.6	2.8	3.82	47.1	1.235	155	-172	2.125	0.813	48	2.3	-1824.042	-715.752
39	11:10:00	0	3.6	6.2	7.17	59.9	1.235	197	-107	1.625	0.313	28.5	1.7	-1813.242	-697.152
40	11:15:00	0	5.6	7	8.96	51.3	1.226	-128	-196	1.5	1.938	123.1	2.5	-1796.441	-676.152
41	11:20:00	0	1	5.4	5.49	79.5	1.23	56	-221	1.5	0.938	75.8	1.8	-1793.441	-659.952
42	11:25:00	0	7.4	11.4	13.59	57	1.23	39	-216	0.5	0.813	79.8	1	-1771.241	-625.752
43	11:30:00	0	1.6	3.8	4.12	67.2	1.226	87	-204	1.563	0.5	66.9	1.6	-1766.441	-614.352
44	11:35:00	0	4.2	10	10.85	67.2	1.226	97	-184	1.188	1.188	62.2	1.7	-1753.841	-584.352
45	11:40:00	0	4.4	10.2	11.11	66.7	1.226	215	-106	2.938	0.688	26.2	3	-1740.64	-553.752
46	11:45:00	0	7.8	9.8	12.53	51.5	1.23	233	31	1.188	0.938	352.4	1.5	-1717.24	-524.352
47	11:50:00	0	1	7.8	7.86	82.7	1.226	101	-200	0.625	0.313	63.2	0.7	-1714.24	-500.952

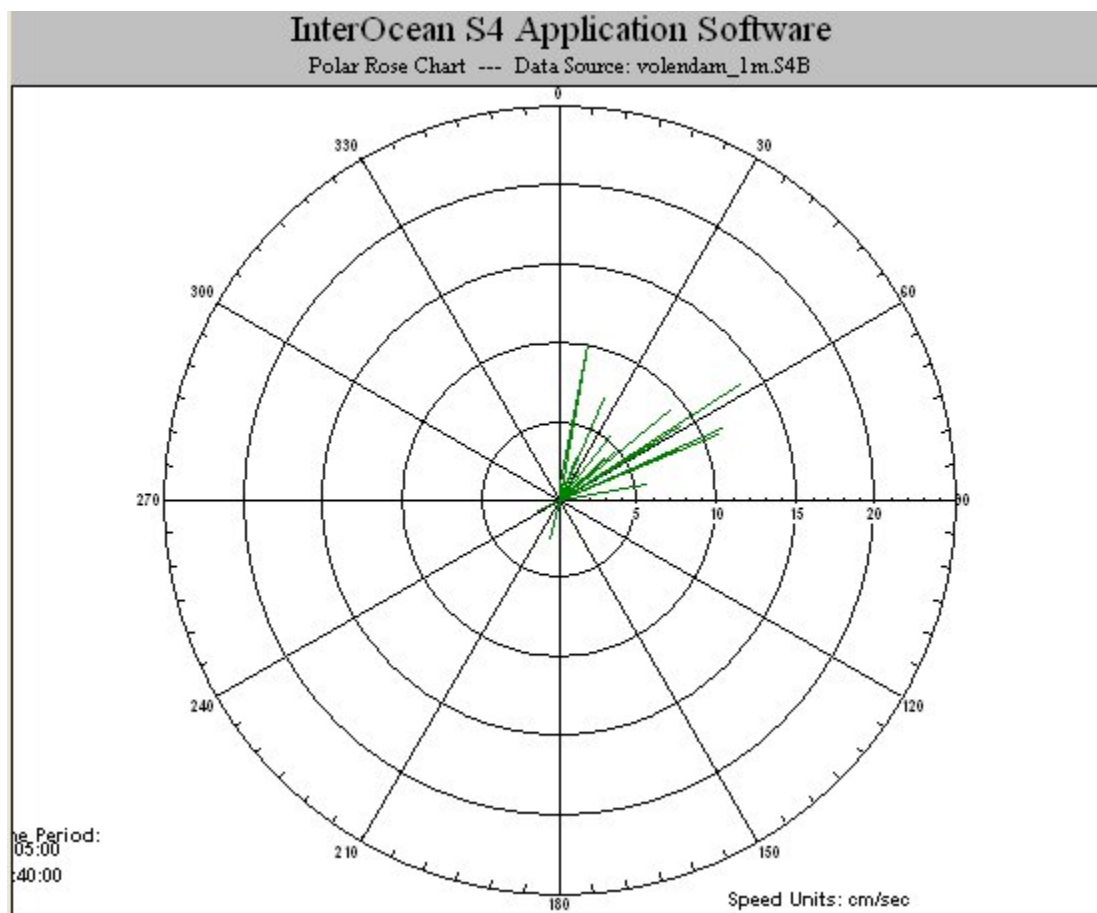


Figure D-11. Volendam 1m Survey

Table D-12. Current Measurements for Volendam, 3 Meter Depth (7/17/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
23	9:50:00	0	0.8	1.8	1.97	66	1.206	-215	62	0.188	0.438	196.1	0.5	1058.363	-871.212
24	9:55:00	0	1.6	6.8	6.99	76.8	1.206	51	-213	0.938	1.125	76.5	1.5	1063.163	-850.812
25	10:00:00	0	-0.8	1.6	1.79	116.6	1.206	147	-171	1.188	0.688	49.3	1.4	1060.763	-846.012
26	10:05:00	0	0.6	1.8	1.9	71.6	1.206	145	-165	0.688	0.188	48.7	0.7	1062.563	-840.612
27	10:10:00	0	-0.4	1.2	1.26	108.4	1.206	219	-73	0.688	0.188	18.4	0.7	1061.363	-837.012
28	10:15:00	0	-1.8	0.6	1.9	161.6	1.206	195	-109	0.563	0.188	29.2	0.6	1055.963	-835.212
29	10:20:00	0	-2.2	-1.8	2.84	219.3	1.206	131	-181	1.188	0.375	54.1	1.2	1049.363	-840.612
30	10:25:00	0	-0.8	0	0.8	180	1.206	215	-42	1.438	0.875	11.1	1.7	1046.963	-840.612
31	10:30:00	0	-1.4	0.8	1.61	150.3	1.206	147	-173	0.938	1.188	49.6	1.5	1042.763	-838.212
32	10:35:00	0	0.2	0.4	0.45	63.4	1.206	181	-133	1.438	0.188	36.3	1.4	1043.363	-837.012
33	10:40:00	0	1.8	0	1.8	0	1.206	208	89	0.188	0.938	336.8	1	1048.763	-837.012
34	10:45:00	0	5.6	3.8	6.77	34.2	1.206	123	187	1.125	0.625	303.3	1.3	1065.563	-825.612
35	10:50:00	0	4.6	5.2	6.94	48.5	1.206	219	67	1.688	0.688	343	1.8	1079.363	-810.012
36	10:55:00	0	4.6	4.2	6.23	42.4	1.206	221	53	0.125	1.188	346.5	1.2	1093.164	-797.412
37	11:00:00	0	7	6	9.22	40.6	1.206	227	11	0.375	0.688	357.2	0.8	1114.164	-779.412
38	11:05:00	0	1.8	2.6	3.16	55.3	1.206	194	107	1.125	1.375	331.1	1.8	1119.564	-771.612
39	11:10:00	0	5.6	5.4	7.78	44	1.206	139	175	1.188	1.438	308.5	1.9	1136.364	-755.412
40	11:15:00	0	4.8	5.4	7.22	48.4	1.206	143	-176	0.688	1.125	50.9	1.3	1150.764	-739.212
41	11:20:00	0	3	3.4	4.53	48.6	1.206	215	-15	0.938	1.625	4	1.9	1159.764	-729.012
42	11:25:00	0	4.6	4.8	6.65	46.2	1.206	219	-19	0.438	0.438	5	0.6	1173.564	-714.613
43	11:30:00	0	2.8	-0.8	2.91	344.1	1.206	222	37	1.188	1.188	350.5	1.7	1181.964	-717.013
44	11:35:00	0	4.6	5.2	6.94	48.5	1.206	211	69	0.938	0.688	341.9	1.2	1195.764	-701.413
45	11:40:00	0	3	3.8	4.84	51.7	1.206	147	159	0.438	1.438	312.8	1.5	1204.764	-690.013
46	11:45:00	0	4	4.8	6.25	50.2	1.206	16	208	0.188	0.625	274.4	0.7	1216.764	-675.613
47	11:50:00	0	1.2	0	1.2	0	1.206	195	91	0.5	0.625	335	0.8	1220.364	-675.613

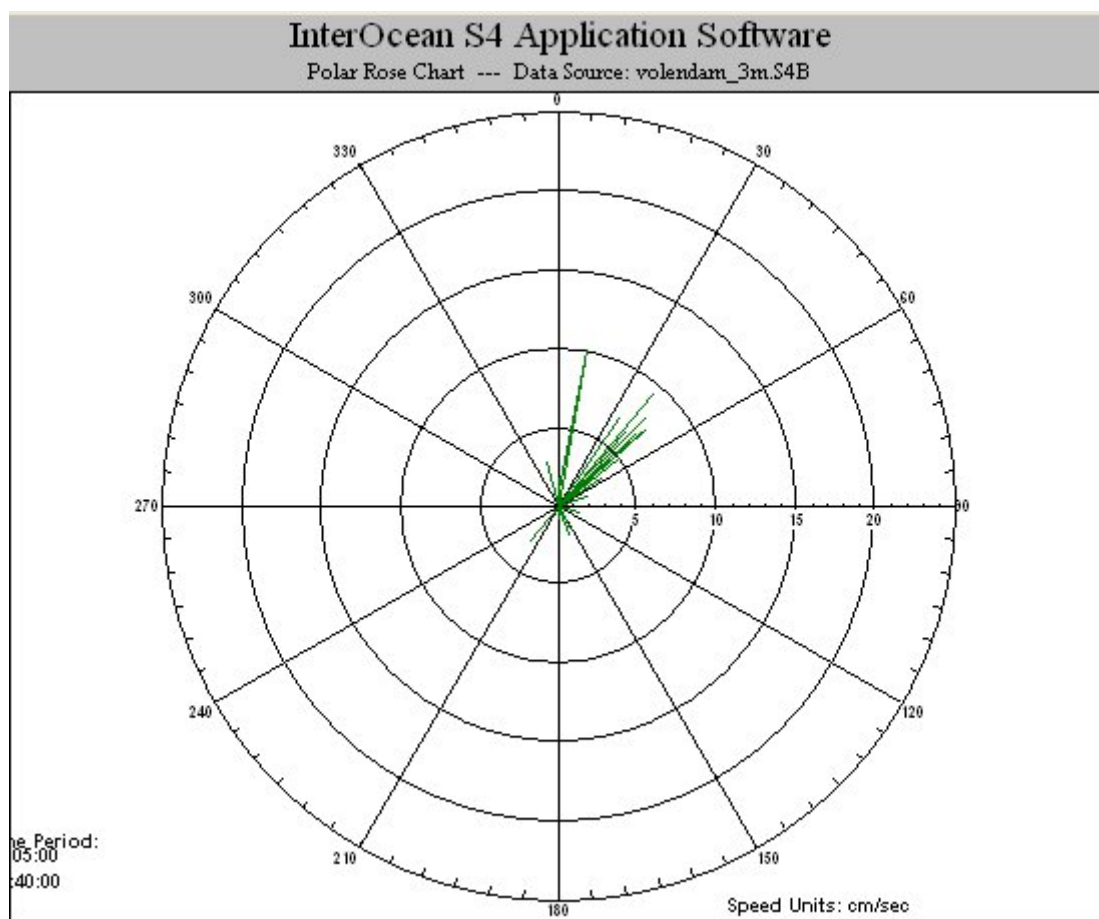


Figure D-12. Volendam 3m Survey

Table D-13. Current Measurements for Volendam, 5 Meter Depth (7/17/2008)

Sample #	Time	dec S	Vnorth (cm/sec)	Veast (cm/sec)	Speed (cm/sec)	Dir (deg)	Vref (volts)	Hx	Hy	TiltX (deg)	TiltY (deg)	Hdg (deg)	Tilt (deg)	N-S Dist	E-W Dist
23	9:50:00	0	-0.6	0.2	0.63	161.6	1.206	185	-128	3.125	1.125	34.7	3.3	-1302.604	2288.438
24	9:55:00	0	0	2.2	2.2	90	1.211	-12	215	2.688	2.313	266.8	3.5	-1302.604	2295.038
25	10:00:00	0	2	0	2	0	1.206	-127	185	2.375	1.375	235.5	2.7	-1296.604	2295.038
26	10:05:00	0	0	-0.2	0.2	270	1.206	-147	172	4.063	0.5	229.5	4.1	-1296.604	2294.438
27	10:10:00	0	0.2	0.6	0.63	71.6	1.206	-221	70	1	0.938	197.6	1.4	-1296.004	2296.238
28	10:15:00	0	0.2	-0.6	0.63	288.4	1.206	-179	139	3.375	0.938	217.8	3.5	-1295.404	2294.438
29	10:20:00	0	0.8	1	1.28	51.3	1.206	-103	201	2.313	1.5	242.9	2.8	-1293.004	2297.438
30	10:25:00	0	-0.6	-1.8	1.9	251.6	1.206	-227	27	1	1	186.8	1.4	-1294.804	2292.038
31	10:30:00	0	-2	0.4	2.04	168.7	1.206	-139	178	1.75	2	232	2.7	-1300.804	2293.238
32	10:35:00	0	-0.8	-1.8	1.97	246	1.206	-193	118	2.75	1.188	211.4	3	-1303.204	2287.839
33	10:40:00	0	0.8	-1	1.28	308.7	1.206	-213	-94	2	1.25	156.2	2.4	-1300.804	2284.838
34	10:45:00	0	0.6	0	0.6	0	1.206	-145	-177	1.563	1.938	129.3	2.5	-1299.004	2284.838
35	10:50:00	0	0.8	0.8	1.13	45	1.206	-222	-62	1.625	1.75	164.4	2.4	-1296.604	2287.238
36	10:55:00	0	-1.4	0	1.4	180	1.206	-231	-1	1.375	2.25	179.8	2.6	-1300.804	2287.239
37	11:00:00	0	-1.4	0.2	1.41	171.9	1.206	-231	-7	1.688	2.375	178.3	2.9	-1305.004	2287.839
38	11:05:00	0	0.8	0.6	1	36.9	1.206	-189	-131	0.5	4.875	145.3	4.9	-1302.604	2289.639
39	11:10:00	0	2.2	0.4	2.24	10.3	1.206	-154	-169	2.25	1.75	132.3	2.9	-1296.004	2290.839
40	11:15:00	0	0.2	-0.6	0.63	288.4	1.206	-59	217	3.188	2.188	254.8	3.9	-1295.404	2289.039
41	11:20:00	0	0.8	-1.2	1.44	303.7	1.206	-228	-45	3	2.25	168.8	3.8	-1293.004	2285.439
42	11:25:00	0	4.6	1	4.71	12.3	1.211	-222	61	1.25	1.25	195.4	1.8	-1279.204	2288.438
43	11:30:00	0	-1	1.2	1.56	129.8	1.211	-228	27	1.5	1.25	186.8	2	-1282.204	2292.039
44	11:35:00	0	0.4	5.8	5.81	86.1	1.206	-231	-40	2	2.188	170.2	3	-1281.004	2309.439
45	11:40:00	0	0.4	-1	1.08	291.8	1.206	-176	-148	0.25	1.688	139.9	1.7	-1279.804	2306.438
46	11:45:00	0	1	1.2	1.56	50.2	1.206	-88	-211	1.313	3.25	112.6	3.5	-1276.804	2310.038
47	11:50:00	0	-0.6	-1.8	1.9	251.6	1.206	-210	-85	1.125	0.75	158	1.4	-1278.604	2304.639

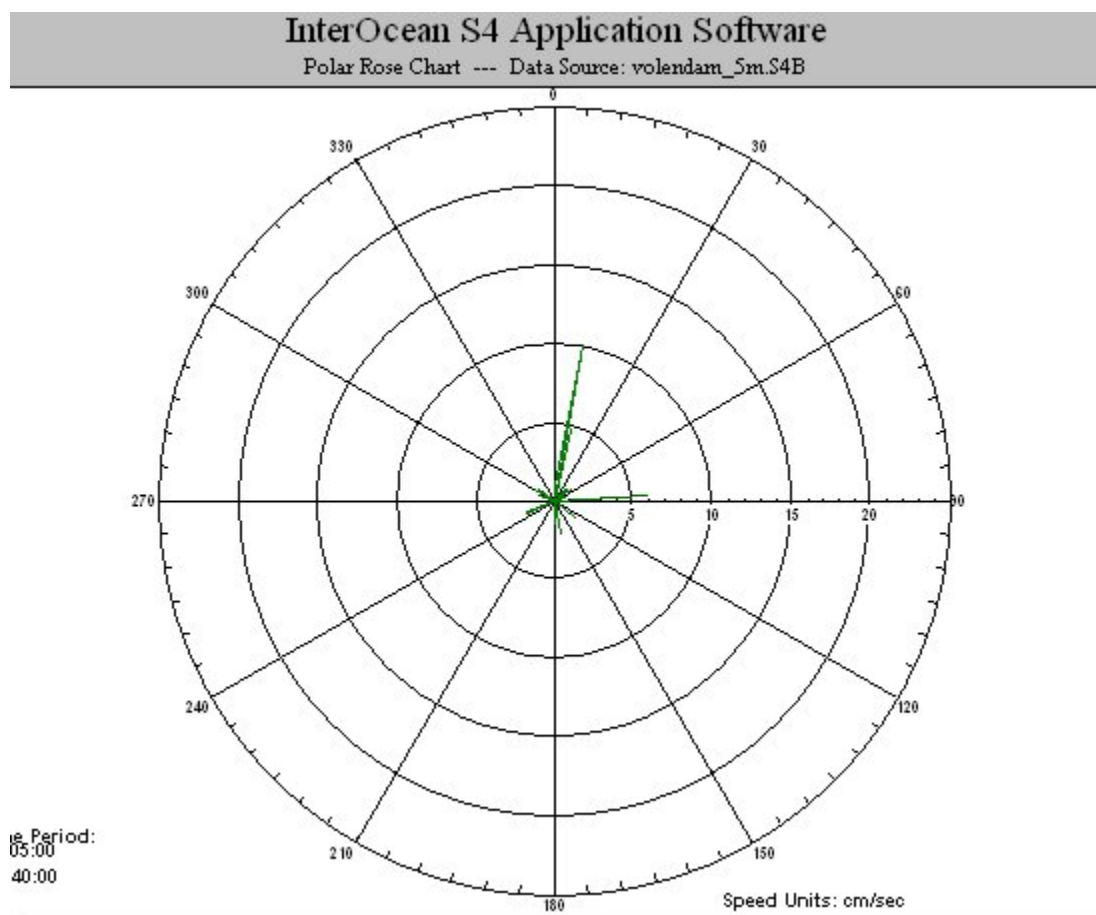


Figure D-13. Volendam 5m Survey

Appendix E
SKAGWAY TIDE TABLE

Table E-1. July - Skagway, Taiya Inlet

Date	Day	Time	Height	Time	Height	Time	Height	Time	Height
7/1/2008	Tue	06:21AM	-2.5 L	12:55PM	14.7 H	06:26PM	3.5 L		
7/2/2008	Wed	12:26AM	19.1 H	07:12AM	-3.6 L	01:48PM	15.8 H	07:21PM	2.8 L
7/3/2008	Thu	01:20AM	19.6 H	08:01AM	-4.2 L	02:36PM	16.5 H	08:12PM	2.1 L
7/4/2008	Fri	02:12AM	19.7 H	08:47AM	-4.3 L	03:21PM	16.9 H	09:01PM	1.6 L
7/5/2008	Sat	03:01AM	19.3 H	09:31AM	-3.9 L	04:05PM	17.1 H	09:50PM	1.5 L
7/6/2008	Sun	03:49AM	18.3 H	10:15AM	-2.9 L	04:46PM	17 H	10:39PM	1.6 L
7/7/2008	Mon	04:37AM	17 H	10:58AM	-1.5 L	05:28PM	16.6 H	11:29PM	2 L
7/8/2008	Tue	05:26AM	15.3 H	11:41AM	0.2 L	06:10PM	16.1 H		
7/9/2008	Wed	12:23AM	2.4 L	06:19AM	13.6 H	12:26PM	2 L	06:54PM	15.5 H
7/10/2008	Thu	01:22AM	2.9 L	07:21AM	12.2 H	01:15PM	3.7 L	07:42PM	14.9 H
7/11/2008	Fri	02:26AM	3.1 L	08:37AM	11.2 H	02:14PM	5.2 L	08:36PM	14.6 H
7/12/2008	Sat	03:34AM	2.9 L	10:02AM	11 H	03:24PM	6.1 L	09:33PM	14.5 H
7/13/2008	Sun	04:39AM	2.4 L	11:17AM	11.4 H	04:33PM	6.4 L	10:30PM	14.7 H
7/14/2008	Mon	05:34AM	1.7 L	12:15PM	12.2 H	05:33PM	6.1 L	11:22PM	15.2 H
7/15/2008	Tue	06:20AM	0.9 L	01:00PM	13 H	06:22PM	5.5 L		
7/16/2008	Wed	12:09AM	15.9 H	07:00AM	0 L	01:39PM	13.7 H	07:04PM	4.7 L
7/17/2008	Thu	12:52AM	16.5 H	07:36AM	-0.7 L	02:13PM	14.3 H	07:42PM	4.1 L
7/18/2008	Fri	01:32AM	17 H	08:09AM	-1.4 L	02:44PM	14.9 H	08:18PM	3.4 L
7/19/2008	Sat	02:09AM	17.3 H	08:41AM	-1.7 L	03:14PM	15.5 H	08:53PM	2.9 L
7/20/2008	Sun	02:45AM	17.3 H	09:12AM	-1.8 L	03:43PM	15.8 H	09:28PM	2.4 L
7/21/2008	Mon	03:21AM	17 H	09:44AM	-1.5 L	04:12PM	16.1 H	10:05PM	2.1 L
7/22/2008	Tue	03:59AM	16.4 H	10:17AM	-0.8 L	04:43PM	16.3 H	10:46PM	1.9 L
7/23/2008	Wed	04:39AM	15.5 H	10:52AM	0.2 L	05:17PM	16.4 H	11:32PM	1.8 L
7/24/2008	Thu	05:25AM	14.3 H	11:32AM	1.5 L	05:56PM	16.4 H		
7/25/2008	Fri	12:26AM	1.9 L	06:22AM	13 H	12:19PM	3.1 L	06:45PM	16.2 H
7/26/2008	Sat	01:30AM	1.9 L	07:37AM	11.9 H	01:19PM	4.5 L	07:46PM	16.1 H
7/27/2008	Sun	02:45AM	1.6 L	09:12AM	11.5 H	02:38PM	5.6 L	09:00PM	16.2 H
7/28/2008	Mon	04:03AM	0.8 L	10:44AM	12.3 H	04:05PM	5.7 L	10:15PM	16.7 H
7/29/2008	Tue	05:13AM	-0.5 L	11:55AM	13.4 H	05:21PM	4.8 L	11:22PM	17.6 H
7/30/2008	Wed	06:12AM	-1.8 L	12:50PM	14.8 H	06:22PM	3.5 L		
7/31/2008	Thu	12:22AM	18.5 H	07:02AM	-2.9 L	01:37PM	16.1 H	07:14PM	2.2 L

All times are listed in Local Standard Time(LST) or, Local Daylight Time (LDT) (when applicable).

All heights are in feet referenced to Mean Lower Low Water (MLLW).

Appendix F
MANUAL FIELD LOGS

**Table F-1. Shipboard Field Logs for Cruise Ship Plume
Dilution Study, Holland America Ryndam – 7/12/08**

Time	Metering Pump Speed (ml/min)	Discharge Flow Rate, Ultrasonic Flow Meter (m3/hr)	Discharge Flow Rate, Ship Flow Meter (m3/hr)
0955	0	20.9	
1000	0	15.0	
1009	0		
1012	0	21.0	23
1019	0		
1029	0		
1036	0		
1040	330	21.9	23
1045	330	22.0	22
1047	330	9.0	11
1050	330	21.0	23
1053	330	9.7	10
1055	330	18.0	22
1100	330	9.4	11
1105	330	21.0	23
1110	330	20.8	23
1115	330	20.8	23
1121	330	20.9	23
1126	330	19.9	23
1130	330	10.0	23
1135	330	21.0	22
1140	330	21.3	23
1142	330	21.2	12
1148	330		
1153	330	21.2	23
1155	330	10.1	11
1200	330	21.0	23
1205	330	21.0	21

**Table F-2. Shipboard Field Logs for Cruise Ship Plume Dilution Study,
Celebrity Millennium – 7/15/08**

Time	Metering Pump Speed (ml/min)	Discharge Rhodamine WT Dye Concentration (ppb)	Discharge Turbidity, Ship Meter (NTU)	Discharge Temperature, Ship Meter (deg C)	Discharge pH, Ship Meter (SU)	Discharge Flow Rate, Ultrasonic Flow Meter (m3/hr)
0943	0	0		28.0	7.08	45
0957	360	0		28.2	7.07	11.2
1000	360	736	4.9	28.7	7.07	17.0
1004	360	878	4.5	29.4	7.06	10
1009	330	366	5.0	28.4	7.08	13
1010	330	940	3.26	28.4	7.07	4
1014	330	580	4.28	28.8	7.08	22
1020	330	456	4.18	29.2	7.08	27 to 36
1025	330	596	3.7	29.1	7.08	22
1030	330	797	2.9	29.0	7.08	17.8
1032	330	402	2.9	28.2	7.09	45
1035	330	697	3.1	28.9	7.08	23
1039	330	337	3.9	28.1	7.09	9.7
1040	330	747	3.2	28.5	7.09	16
1045	330	342	4.7	28.2	7.09	42
1050	330	464	4.9	28.1	7.09	15.1
1055	330	751	3.2	28.7	7.10	25
1100	330	342	4.18	28.7	7.10	
1105	330	651	3.5	28.5	7.09	11
1110	330	634	4.3	28.5	7.09	15
1115	330	284	6.0	28.1	7.12	35
1116	330	408	5.8	29.4	7.11	0
1119	330	263	7.8	27.5	7.11	Flow erratic
1120	330	767	6.7	27.8	7.10	Flow erratic
1125	330	460	6.7	28.2	7.09	35
1130	330	885	3.7	28.6	7.09	Flow erratic
1135	330	332	6.0	29.0	7.08	4

**Table F-3. Shipboard Field Logs for Cruise Ship Plume Dilution Study,
Norwegian Star – 7/16/08**

Time	Metering Pump Speed (ml/min)	Discharge Rhodamine WT Dye Concentration (ppb)	Discharge Turbidity, Ship Meter (NTU)	Discharge Temperature, Ship Meter (deg C)	Discharge Flow Rate, Ultrasonic Flow Meter (m3/hr)
1008	330	462	0.9	31.3	NR
1010	330	779	0.9	31.3	NR
1027	330	607	0.8	31.5	NR
1030	330	558	1.4	31.6	NR
1034	330	769	0.7	31.7	NR
1039	330	581	0.9	31.5	NR
1043	330	766	0.5	31.5	NR
1050	330	454	1.2	31.5	NR
1055	330	565	1.6	31.4	NR
1100	330	573	0.6	31.4	NR
1120	330	613	1.0	31.2	NR
1125	330	903	1.2	31.4	NR
1130	330	425	2.2	31.2	NR
1135	330	426	1.5	31.2	NR
1140	330	661	0.04	31.2	NR
1145	330	501	0.7	31.2	NR
1146	330	607	0.6	31.2	NR

NR – Ultrasonic flow meter not functioning and flow measurements not recorded. Typical discharge flow rate for the Norwegian Star is 35 m³/hour.

**Table F-4. Shipboard Field Logs for Cruise Ship Plume Dilution Study,
Holland America Volendam – 7/17/08**

Time	Metering Pump Speed (ml/min)	Discharge Rhodamine WT Dye Concentration (ppb)	Discharge Turbidity, Ship Meter (NTU)	Discharge Temperature, Ship Meter (deg C)	Discharge Flow Rate, Ultrasonic Flow Meter (m3/hr)
1010	330		5.5	29.3	11
1015	330	760	16.5	29.6	30
1020	330	729	2.7	29.6	7
1025	330	777	20	29.6	32
1030	330	723	16	29.7	29
1035	330	778	26	29.8	10.9
1040	330	723	16.4	29.8	8.7
1045	330	910	12.0	29.8	36.0
1050	330	723	14.4	29.6	37.0
1055	330	804	32	29.8	36
1100	330	724	21.3	29.8	36
1105	330	858	(138)	29.6	34.7
1110	330	631	18	29.8	35.0
1115	330	890	(515)	29.7	9
1120	330	670	31	29.8	41 to 50
1125	330	940	25	29.7	25
1130	330	674	22	29.8	35
1135	330	877	35	29.7	2
1140	330	676	19.6	29.7	45
1145	330	952	74	29.8	20

Appendix G

DISCHARGE FLOW MEASUREMENTS

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:44:30
Flow 27.5712 m3/h
Vel: 3.93925 fps
NET: +11756x1m3
UP:89.7 DN:89.7 Q=89

08-07-10 12:44:35
Flow 24.6537 m3/h
Vel: 3.52241 fps
NET: +11756x1m3
UP:89.7 DN:89.7 Q=89

08-07-10 12:44:40
Flow 22.8312 m3/h
Vel: 3.26202 fps
NET: +11756x1m3
UP:89.6 DN:89.6 Q=84

08-07-10 12:44:45
Flow 21.7412 m3/h
Vel: 3.10629 fps
NET: +11756x1m3
UP:89.5 DN:89.4 Q=84

08-07-10 12:44:50
Flow 21.1705 m3/h
Vel: 3.02475 fps
NET: +11757x1m3
UP:89.2 DN:89.0 Q=80

08-07-10 12:44:55
Flow 20.633 m3/h
Vel: 2.94795 fps
NET: +11757x1m3
UP:89.1 DN:89.2 Q=80

08-07-10 12:45:00
Flow 20.407 m3/h
Vel: 2.91567 fps
NET: +11757x1m3
UP:89.0 DN:89.0 Q=82

08-07-10 12:45:05
Flow 20.3347 m3/h
Vel: 2.90533 fps
NET: +11757x1m3
UP:88.4 DN:88.2 Q=52

08-07-10 12:45:10
Flow 20.2993 m3/h
Vel: 2.90028 fps
NET: +11757x1m3
UP:87.8 DN:87.5 Q=78

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:45:15
Flow 19.8622 m3/h
Vel: 2.83782 fps
NET: +11757x1m3
UP:87.0 DN:86.5 Q=63

08-07-10 12:45:20
Flow 13.2755 m3/h
Vel: 1.89674 fps
NET: +11757x1m3
UP:87.8 DN:87.6 Q=78

08-07-10 12:45:25
Flow 7.86419 m3/h
Vel: 1.1236 fps
NET: +11757x1m3
UP:88.3 DN:88.3 Q=78

08-07-10 12:45:30
Flow 4.73791 m3/h
Vel: 0.676932 fps
NET: +11757x1m3
UP:89.0 DN:89.1 Q=83

08-07-10 12:45:35
Flow 5.23811 m3/h
Vel: 0.748398 fps
NET: +11757x1m3
UP:89.9 DN:89.6 Q=74

08-07-10 12:45:40
Flow 0 m3/h
Vel: 0 fps
NET: +11757x1m3
UP:85.9 DN:85.8 Q=00

08-07-10 12:45:45
Flow 2.5551 m3/h
Vel: 0.365062 fps
NET: +11757x1m3
UP:85.7 DN:84.4 Q=01

08-07-10 12:45:50
Flow 30.5377 m3/h
Vel: 4.36309 fps
NET: +11757x1m3
UP:84.4 DN:83.6 Q=40

08-07-10 12:45:55
Flow 57.4924 m3/h
Vel: 8.21427 fps
NET: +11757x1m3
UP:84.2 DN:83.2 Q=01

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:46:00
Flow 215.983 m3/h
Vel: 30.8587 fps
NET: +11757x1m3
UP:83.3 DN:82.6 Q=40

08-07-10 12:46:05
Flow 0 m3/h
Vel: 0 fps
NET: +11757x1m3
UP:80.7 DN:70.0 Q=01

08-07-10 12:46:10
Flow 7.92167 m3/h
Vel: 1.13181 fps
NET: +11757x1m3
UP:83.4 DN:82.9 Q=73

08-07-10 12:46:15
Flow 0 m3/h
Vel: 0 fps
NET: +11757x1m3
UP:89.9 DN:89.9 Q=00

08-07-10 12:46:20
Flow 7.90927 m3/h
Vel: 1.13004 fps
NET: +11757x1m3
UP:80.0 DN:80.0 Q=88

08-07-10 12:46:25
Flow 15.9344 m3/h
Vel: 2.27664 fps
NET: +11757x1m3
UP:80.0 DN:80.0 Q=88

08-07-10 12:46:30
Flow 25.0045 m3/h
Vel: 3.57253 fps
NET: +11757x1m3
UP:80.1 DN:80.1 Q=88

08-07-10 12:46:35
Flow 30.618 m3/h
Vel: 4.37456 fps
NET: +11757x1m3
UP:80.1 DN:80.1 Q=92

08-07-10 12:46:40
Flow 33.8318 m3/h
Vel: 4.83374 fps
NET: +11757x1m3
UP:89.9 DN:89.7 Q=80

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:46:45
Flow 0 m3/h
Vel: 0 fps
NET: +11757x1m3
UP:88.0 DN:88.0 Q=00

08-07-10 12:46:50
Flow 8.51099 m3/h
Vel: 1.21601 fps
NET: +11757x1m3
UP:89.6 DN:89.5 Q=86

08-07-10 12:46:55
Flow 13.6053 m3/h
Vel: 1.94387 fps
NET: +11757x1m3
UP:89.4 DN:89.4 Q=84

08-07-10 12:47:00
Flow 16.0044 m3/h
Vel: 2.28664 fps
NET: +11757x1m3
UP:89.4 DN:89.3 Q=89

08-07-10 12:47:05
Flow 17.6446 m3/h
Vel: 2.52099 fps
NET: +11757x1m3
UP:89.4 DN:89.4 Q=84

08-07-10 12:47:10
Flow 18.3771 m3/h
Vel: 2.62564 fps
NET: +11757x1m3
UP:89.5 DN:89.5 Q=78

08-07-10 12:47:15
Flow 18.6763 m3/h
Vel: 2.66839 fps
NET: +11757x1m3
UP:89.4 DN:89.3 Q=83

08-07-10 12:47:20
Flow 18.9049 m3/h
Vel: 2.70105 fps
NET: +11757x1m3
UP:89.4 DN:89.4 Q=90

08-07-10 12:47:25
Flow 19.2196 m3/h
Vel: 2.74601 fps
NET: +11757x1m3
UP:89.2 DN:89.1 Q=80

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:47:30
Flow 19.4471 m3/h
Vel: 2.77851 fps
NET: +11757x1m3
UP:88.5 DN:88.4 Q=62

08-07-10 12:47:35
Flow 19.8227 m3/h
Vel: 2.83218 fps
NET: +11757x1m3
UP:88.7 DN:88.7 Q=86

08-07-10 12:47:40
Flow 19.7783 m3/h
Vel: 2.82584 fps
NET: +11757x1m3
UP:88.2 DN:88.2 Q=76

08-07-10 12:47:45
Flow 19.7572 m3/h
Vel: 2.82283 fps
NET: +11758x1m3
UP:88.3 DN:88.0 Q=72

08-07-10 12:47:50
Flow 19.8135 m3/h
Vel: 2.83087 fps
NET: +11758x1m3
UP:87.9 DN:87.8 Q=74

08-07-10 12:47:55
Flow 19.5151 m3/h
Vel: 2.78823 fps
NET: +11758x1m3
UP:88.0 DN:87.9 Q=80

08-07-10 12:48:00
Flow 19.4771 m3/h
Vel: 2.78281 fps
NET: +11758x1m3
UP:87.1 DN:86.4 Q=01

08-07-10 12:48:05
Flow 22.0677 m3/h
Vel: 3.15293 fps
NET: +11758x1m3
UP:86.2 DN:85.7 Q=66

08-07-10 12:48:10
Flow 28.3379 m3/h
Vel: 4.0488 fps
NET: +11758x1m3
UP:86.2 DN:85.9 Q=77

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:48:15
Flow 32.534 m3/h
Vel: 4.64831 fps
NET: +11758x1m3
UP:86.4 DN:86.2 Q=68

08-07-10 12:48:20
Flow 35.3529 m3/h
Vel: 5.05107 fps
NET: +11758x1m3
UP:89.9 DN:89.2 Q=52

08-07-10 12:48:25
Flow 36.9183 m3/h
Vel: 5.27472 fps
NET: +11758x1m3
UP:80.1 DN:80.1 Q=82

08-07-10 12:48:30
Flow 38.0624 m3/h
Vel: 5.43818 fps
NET: +11758x1m3
UP:80.1 DN:80.0 Q=80

08-07-10 12:48:35
Flow 38.995 m3/h
Vel: 5.57143 fps
NET: +11758x1m3
UP:80.1 DN:80.0 Q=84

08-07-10 12:48:40
Flow 39.562 m3/h
Vel: 5.65245 fps
NET: +11758x1m3
UP:80.0 DN:89.9 Q=85

08-07-10 12:48:45
Flow 39.9164 m3/h
Vel: 5.70307 fps
NET: +11758x1m3
UP:80.1 DN:80.0 Q=89

08-07-10 12:48:50
Flow 40.0583 m3/h
Vel: 5.72335 fps
NET: +11758x1m3
UP:80.1 DN:80.0 Q=85

08-07-10 12:48:55
Flow 39.8127 m3/h
Vel: 5.68826 fps
NET: +11758x1m3
UP:89.8 DN:89.6 Q=80

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:49:00
Flow 39.7456 m3/h
Vel: 5.67868 fps
NET: +11758x1m3
UP:89.3 DN:89.2 Q=74

08-07-10 12:49:05
Flow 40.2104 m3/h
Vel: 5.74508 fps
NET: +11758x1m3
UP:89.9 DN:89.9 Q=80

08-07-10 12:49:10
Flow 40.1323 m3/h
Vel: 5.73393 fps
NET: +11758x1m3
UP:89.8 DN:89.8 Q=83

08-07-10 12:49:15
Flow 40.3392 m3/h
Vel: 5.76348 fps
NET: +11758x1m3
UP:89.9 DN:89.8 Q=85

08-07-10 12:49:20
Flow 40.5267 m3/h
Vel: 5.79027 fps
NET: +11758x1m3
UP:89.9 DN:89.9 Q=80

08-07-10 12:49:25
Flow 40.6811 m3/h
Vel: 5.81234 fps
NET: +11758x1m3
UP:80.0 DN:89.8 Q=86

08-07-10 12:49:30
Flow 40.6203 m3/h
Vel: 5.80365 fps
NET: +11759x1m3
UP:89.9 DN:89.9 Q=79

08-07-10 12:49:35
Flow 35.1586 m3/h
Vel: 5.0233 fps
NET: +11759x1m3
UP:89.9 DN:89.9 Q=79

08-07-10 12:49:40
Flow 29.1716 m3/h
Vel: 4.16791 fps
NET: +11759x1m3
UP:89.8 DN:89.7 Q=87

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:49:45
Flow 26.0004 m3/h
Vel: 3.71482 fps
NET: +11759x1m3
UP:89.8 DN:89.8 Q=90

08-07-10 12:49:50
Flow 23.9617 m3/h
Vel: 3.42353 fps
NET: +11759x1m3
UP:89.8 DN:89.8 Q=84

08-07-10 12:49:55
Flow 22.4355 m3/h
Vel: 3.20548 fps
NET: +11759x1m3
UP:89.7 DN:89.6 Q=77

08-07-10 12:50:00
Flow 21.2947 m3/h
Vel: 3.04249 fps
NET: +11759x1m3
UP:89.5 DN:89.5 Q=85

08-07-10 12:50:05
Flow 20.7342 m3/h
Vel: 2.96241 fps
NET: +11759x1m3
UP:89.2 DN:89.3 Q=77

08-07-10 12:50:10
Flow 20.4284 m3/h
Vel: 2.91872 fps
NET: +11759x1m3
UP:88.8 DN:88.7 Q=82

08-07-10 12:50:15
Flow 20.4573 m3/h
Vel: 2.92285 fps
NET: +11759x1m3
UP:88.4 DN:88.5 Q=75

08-07-10 12:50:20
Flow 20.5867 m3/h
Vel: 2.94133 fps
NET: +11759x1m3
UP:88.4 DN:88.4 Q=79

08-07-10 12:50:25
Flow 20.5119 m3/h
Vel: 2.93065 fps
NET: +11759x1m3
UP:88.2 DN:88.1 Q=76

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:50:30
Flow 20.1926 m3/h
Vel: 2.88503 fps
NET: +11759x1m3
UP:87.5 DN:87.3 Q=86

08-07-10 12:50:35
Flow 20.2628 m3/h
Vel: 2.89505 fps
NET: +11759x1m3
UP:87.4 DN:87.4 Q=78

08-07-10 12:50:40
Flow 20.3608 m3/h
Vel: 2.90905 fps
NET: +11759x1m3
UP:87.3 DN:86.0 Q=66

08-07-10 12:50:45
Flow 0 m3/h
Vel: 0 fps
NET: +11759x1m3
UP:85.8 DN:85.8 Q=00

08-07-10 12:50:50
Flow 28.1175 m3/h
Vel: 4.0173 fps
NET: +11759x1m3
UP:85.8 DN:85.6 Q=66

08-07-10 12:50:55
Flow 32.3163 m3/h
Vel: 4.61721 fps
NET: +11759x1m3
UP:86.3 DN:86.2 Q=69

08-07-10 12:51:00
Flow 35.3074 m3/h
Vel: 5.04456 fps
NET: +11759x1m3
UP:87.9 DN:87.5 Q=63

08-07-10 12:51:05
Flow 37.149 m3/h
Vel: 5.30768 fps
NET: +11759x1m3
UP:80.1 DN:80.0 Q=85

08-07-10 12:51:10
Flow 38.196 m3/h
Vel: 5.45728 fps
NET: +11759x1m3
UP:80.1 DN:80.0 Q=86

Table G-1. Flow Data for Star Princess (7/10/2008)

08-07-10 12:51:15
Flow 38.8959 m3/h
Vel: 5.55728 fps
NET: +11759x1m3
UP:80.1 DN:80.0 Q=82

08-07-10 12:51:20
Flow 39.2443 m3/h
Vel: 5.60705 fps
NET: +11759x1m3
UP:80.2 DN:80.0 Q=88

08-07-10 12:51:25
Flow 39.5061 m3/h
Vel: 5.64446 fps
NET: +11759x1m3
UP:80.1 DN:80.1 Q=83

08-07-10 12:51:30
Flow 39.5731 m3/h
Vel: 5.65403 fps
NET: +11759x1m3
UP:80.1 DN:80.1 Q=75

08-07-10 12:51:35
Flow 39.5592 m3/h
Vel: 5.65204 fps
NET: +11759x1m3
UP:80.1 DN:80.0 Q=93

08-07-10 12:51:40
Flow 39.6111 m3/h
Vel: 5.65947 fps
NET: +11760x1m3
UP:89.5 DN:89.5 Q=76

Table G-2. Flow Data for Coral Princess (7/11/2008)

Flow 0.435909 m3/h
Vel: 0.08439 fps
NET: +40x1m3
UP:77.9 DN:77.9 Q=85

08-07-11 12:42:16
Flow 0.441125 m3/h
Vel: 0.0853998 fps
NET: +40x1m3
UP:77.9 DN:77.9 Q=82

08-07-11 12:42:26
Flow 0.391633 m3/h
Vel: 0.0758184 fps
NET: +40x1m3
UP:77.0 DN:78.0 Q=87

08-07-11 12:42:36
Flow 0.441 m3/h
Vel: 0.0853757 fps
NET: +40x1m3
UP:77.9 DN:77.0 Q=83

08-07-11 12:42:46
Flow 0.368275 m3/h
Vel: 0.0712964 fps
NET: +40x1m3
UP:77.9 DN:77.0 Q=74

08-07-11 12:42:56
Flow 0.35365 m3/h
Vel: 0.068465 fps
NET: +40x1m3
UP:77.9 DN:77.9 Q=82

08-07-11 12:43:06
Flow 0.383723 m3/h
Vel: 0.074287 fps
NET: +40x1m3
UP:77.9 DN:77.9 Q=81

08-07-11 12:43:16
Flow 0.419757 m3/h
Vel: 0.0812631 fps
NET: +40x1m3
UP:77.9 DN:77.0 Q=84

08-07-11 12:43:26
Flow 0.422728 m3/h
Vel: 0.0818383 fps
NET: +40x1m3
UP:77.9 DN:77.9 Q=87

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:43:36
Flow 0.420808 m3/h
Vel: 0.0814665 fps
NET: +40x1m3
UP:77.8 DN:77.0 Q=78

08-07-11 12:43:46
Flow 0.428693 m3/h
Vel: 0.0829931 fps
NET: +40x1m3
UP:77.0 DN:77.0 Q=82

08-07-11 12:43:56
Flow 1.1515 m3/h
Vel: 0.222926 fps
NET: +40x1m3
UP:77.9 DN:77.9 Q=77

08-07-11 12:44:06
Flow -0.0732948 m3/h
Vel: -0.0141896 fps
NET: +40x1m3
UP:67.9 DN:67.7 Q=40

08-07-11 12:44:16
Flow -12.6519 m3/h
Vel: -2.44935 fps
NET: +40x1m3
UP:68.1 DN:67.6 Q=33

08-07-11 12:44:26
Flow -13.6105 m3/h
Vel: -2.63494 fps
NET: +40x1m3
UP:67.7 DN:67.9 Q=42

08-07-11 12:44:36
Flow -6.35947 m3/h
Vel: -1.23117 fps
NET: +40x1m3
UP:71.5 DN:70.9 Q=06

08-07-11 12:44:46
Flow 3.19284 m3/h
Vel: 0.618119 fps
NET: +40x1m3
UP:71.8 DN:71.6 Q=37

08-07-11 12:44:56
Flow 10.1876 m3/h
Vel: 1.97228 fps
NET: +40x1m3
UP:71.8 DN:71.9 Q=44

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:45:06
Flow 13.5568 m3/h
Vel: 2.62454 fps
NET: +40x1m3
UP:70.9 DN:70.4 Q=36

08-07-11 12:45:16
Flow 21.9718 m3/h
Vel: 4.25365 fps
NET: +40x1m3
UP:75.1 DN:75.0 Q=49

08-07-11 12:45:26
Flow 26.3894 m3/h
Vel: 5.10886 fps
NET: +40x1m3
UP:76.4 DN:76.2 Q=68

08-07-11 12:45:36
Flow 27.8564 m3/h
Vel: 5.39288 fps
NET: +40x1m3
UP:76.9 DN:76.8 Q=82

08-07-11 12:45:46
Flow 28.5102 m3/h
Vel: 5.51945 fps
NET: +40x1m3
UP:77.1 DN:77.0 Q=74

08-07-11 12:45:56
Flow 28.5735 m3/h
Vel: 5.5317 fps
NET: +41x1m3
UP:77.2 DN:77.1 Q=70

08-07-11 12:46:06
Flow 28.6321 m3/h
Vel: 5.54305 fps
NET: +41x1m3
UP:77.3 DN:77.1 Q=73

08-07-11 12:46:16
Flow 28.6967 m3/h
Vel: 5.55555 fps
NET: +41x1m3
UP:77.2 DN:77.2 Q=80

08-07-11 12:46:27
Flow 0 m3/h
Vel: 0 fps
NET: +41x1m3
UP:77.3 DN:77.2 Q=00

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:46:37
Flow 17.7021 m3/h
Vel: 3.42705 fps
NET: +41x1m3
UP:77.5 DN:77.3 Q=73

08-07-11 12:46:47
Flow 24.9334 m3/h
Vel: 4.82699 fps
NET: +41x1m3
UP:77.4 DN:77.3 Q=78

08-07-11 12:46:57
Flow 27.7171 m3/h
Vel: 5.3659 fps
NET: +41x1m3
UP:77.5 DN:77.4 Q=85

08-07-11 12:47:07
Flow 28.4916 m3/h
Vel: 5.51586 fps
NET: +41x1m3
UP:77.3 DN:77.0 Q=49

08-07-11 12:47:17
Flow 28.7037 m3/h
Vel: 5.55691 fps
NET: +41x1m3
UP:77.4 DN:77.3 Q=61

08-07-11 12:47:27
Flow 29.0865 m3/h
Vel: 5.63102 fps
NET: +41x1m3
UP:77.4 DN:77.2 Q=72

08-07-11 12:47:37
Flow 0.840139 m3/h
Vel: 0.162647 fps
NET: +41x1m3
UP:72.2 DN:72.1 Q=14

08-07-11 12:47:47
Flow 0.438102 m3/h
Vel: 0.0848145 fps
NET: +41x1m3
UP:70.9 DN:71.1 Q=17

08-07-11 12:47:57
Flow 1.95694 m3/h
Vel: 0.378855 fps
NET: +41x1m3
UP:72.3 DN:72.1 Q=06

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:48:07
Flow 3.69773 m3/h
Vel: 0.715865 fps
NET: +41x1m3
UP:72.2 DN:71.9 Q=09

08-07-11 12:48:17
Flow 8.19894 m3/h
Vel: 1.58728 fps
NET: +41x1m3
UP:71.5 DN:71.4 Q=03

08-07-11 12:48:27
Flow 6.15083 m3/h
Vel: 1.19077 fps
NET: +41x1m3
UP:70.3 DN:68.6 Q=01

08-07-11 12:48:37
Flow -1.59351 m3/h
Vel: -0.308496 fps
NET: +41x1m3
UP:69.5 DN:69.2 Q=43

08-07-11 12:48:47
Flow 2.8398 m3/h
Vel: 0.549772 fps
NET: +41x1m3
UP:60.2 DN:69.3 Q=11

08-07-11 12:48:57
Flow 15.6865 m3/h
Vel: 3.03684 fps
NET: +41x1m3
UP:74.8 DN:74.7 Q=61

08-07-11 12:49:07
Flow 24.0834 m3/h
Vel: 4.66244 fps
NET: +41x1m3
UP:76.2 DN:76.3 Q=70

08-07-11 12:49:24
Flow 0 m3/h
Vel: 0 fps
NET: +41x1m3
UP:76.8 DN:76.7 Q=00

08-07-11 12:49:34
Flow 28.2085 m3/h
Vel: 5.46105 fps
NET: +41x1m3
UP:76.9 DN:76.9 Q=69

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:49:44
Flow 28.2867 m3/h
Vel: 5.47618 fps
NET: +41x1m3
UP:77.1 DN:76.0 Q=70

08-07-11 12:49:54
Flow 28.395 m3/h
Vel: 5.49715 fps
NET: +42x1m3
UP:77.3 DN:77.2 Q=73

08-07-11 12:50:04
Flow 28.2853 m3/h
Vel: 5.4759 fps
NET: +42x1m3
UP:77.5 DN:77.4 Q=78

08-07-11 12:50:14
Flow 28.5097 m3/h
Vel: 5.51936 fps
NET: +42x1m3
UP:77.4 DN:77.2 Q=74

08-07-11 12:50:24
Flow 28.4348 m3/h
Vel: 5.50485 fps
NET: +42x1m3
UP:77.4 DN:77.2 Q=70

08-07-11 12:50:34
Flow 28.4423 m3/h
Vel: 5.50629 fps
NET: +42x1m3
UP:77.5 DN:77.4 Q=76

08-07-11 12:50:44
Flow 28.8058 m3/h
Vel: 5.57667 fps
NET: +42x1m3
UP:77.6 DN:77.4 Q=74

08-07-11 12:50:54
Flow 28.8912 m3/h
Vel: 5.5932 fps
NET: +42x1m3
UP:77.6 DN:77.4 Q=68

08-07-11 12:51:04
Flow 28.8246 m3/h
Vel: 5.58031 fps
NET: +42x1m3
UP:77.5 DN:77.4 Q=83

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:51:14
Flow 28.4997 m3/h
Vel: 5.51742 fps
NET: +42x1m3
UP:76.0 DN:76.3 Q=01

08-07-11 12:51:24
Flow -0.208905 m3/h
Vel: -0.0404432 fps
NET: +42x1m3
UP:71.3 DN:70.4 Q=05

08-07-11 12:51:34
Flow 11.2271 m3/h
Vel: 2.17352 fps
NET: +42x1m3
UP:68.3 DN:67.6 Q=43

08-07-11 12:51:44
Flow 8.02915 m3/h
Vel: 1.55441 fps
NET: +42x1m3
UP:69.8 DN:69.1 Q=35

08-07-11 12:51:54
Flow 3.02276 m3/h
Vel: 0.585194 fps
NET: +42x1m3
UP:71.1 DN:70.5 Q=38

08-07-11 12:52:04
Flow 1.78159 m3/h
Vel: 0.344909 fps
NET: +42x1m3
UP:69.6 DN:69.0 Q=33

08-07-11 12:52:14
Flow 0.957886 m3/h
Vel: 0.185443 fps
NET: +42x1m3
UP:69.6 DN:68.7 Q=44

08-07-11 12:52:24
Flow -0.566684 m3/h
Vel: -0.109708 fps
NET: +42x1m3
UP:68.9 DN:68.6 Q=38

08-07-11 12:52:34
Flow 0.411844 m3/h
Vel: 0.0797312 fps
NET: +42x1m3
UP:70.4 DN:60.0 Q=40

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:52:44
Flow 15.7557 m3/h
Vel: 3.05024 fps
NET: +42x1m3
UP:74.2 DN:73.9 Q=48

08-07-11 12:52:54
Flow 23.8714 m3/h
Vel: 4.6214 fps
NET: +42x1m3
UP:76.2 DN:75.0 Q=62

08-07-11 12:53:04
Flow 26.6276 m3/h
Vel: 5.15498 fps
NET: +42x1m3
UP:76.7 DN:76.5 Q=64

08-07-11 12:53:14
Flow 27.5769 m3/h
Vel: 5.33877 fps
NET: +43x1m3
UP:77.0 DN:76.9 Q=67

08-07-11 12:53:24
Flow 27.9846 m3/h
Vel: 5.41769 fps
NET: +43x1m3
UP:77.1 DN:77.1 Q=76

08-07-11 12:53:34
Flow 28.0993 m3/h
Vel: 5.43989 fps
NET: +43x1m3
UP:77.2 DN:77.0 Q=76

08-07-11 12:53:44
Flow 28.1277 m3/h
Vel: 5.4454 fps
NET: +43x1m3
UP:77.2 DN:77.1 Q=76

08-07-11 12:53:54
Flow 28.3473 m3/h
Vel: 5.4879 fps
NET: +43x1m3
UP:77.4 DN:77.3 Q=84

08-07-11 12:54:04
Flow 28.138 m3/h
Vel: 5.4474 fps
NET: +43x1m3
UP:77.5 DN:77.4 Q=78

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:54:14
Flow 28.3687 m3/h
Vel: 5.49206 fps
NET: +43x1m3
UP:77.5 DN:77.3 Q=79

08-07-11 12:54:24
Flow 27.9826 m3/h
Vel: 5.41732 fps
NET: +43x1m3
UP:77.3 DN:77.2 Q=79

08-07-11 12:54:34
Flow 22.2137 m3/h
Vel: 4.30047 fps
NET: +43x1m3
UP:76.0 DN:76.8 Q=70

08-07-11 12:54:44
Flow 18.8064 m3/h
Vel: 3.64083 fps
NET: +43x1m3
UP:76.0 DN:76.0 Q=76

08-07-11 12:54:54
Flow 11.7668 m3/h
Vel: 2.27799 fps
NET: +43x1m3
UP:77.2 DN:77.2 Q=76

08-07-11 12:55:04
Flow 4.35901 m3/h
Vel: 0.843885 fps
NET: +43x1m3
UP:77.5 DN:77.5 Q=90

08-07-11 12:55:14
Flow 1.75318 m3/h
Vel: 0.339409 fps
NET: +43x1m3
UP:77.7 DN:77.8 Q=79

08-07-11 12:55:24
Flow 0.611585 m3/h
Vel: 0.1184 fps
NET: +43x1m3
UP:77.8 DN:77.8 Q=82

08-07-11 12:55:34
Flow 0.354515 m3/h
Vel: 0.0686325 fps
NET: +43x1m3
UP:77.7 DN:77.8 Q=82

Table G-2. Flow Data for Coral Princess (7/11/2008)

08-07-11 12:55:44
Flow 0.243106 m3/h
Vel: 0.0470642 fps
NET: +43x1m3
UP:77.8 DN:77.9 Q=83

08-07-11 12:55:54
Flow 0.250365 m3/h
Vel: 0.0484695 fps
NET: +43x1m3
UP:77.9 DN:77.8 Q=82

08-07-11 12:56:04
Flow 0.226499 m3/h
Vel: 0.0438492 fps
NET: +43x1m3
UP:77.9 DN:77.8 Q=84

08-07-11 12:56:14
Flow 0.214464 m3/h
Vel: 0.0415193 fps
NET: +43x1m3
UP:77.8 DN:77.7 Q=85

08-07-11 12:56:24
Flow 0.205526 m3/h
Vel: 0.0397889 fps
NET: +43x1m3
UP:77.7 DN:77.9 Q=80

08-07-11 12:56:34
Flow 0.199484 m3/h
Vel: 0.0386192 fps
NET: +43x1m3
UP:77.8 DN:77.9 Q=85

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:11:50
Flow 21.3204 m3/h
Vel: 2.36578 fps
NET: +124x1m3
UP:90.3 DN:90.3 Q=76

08-07-12 12:12:00
Flow 21.3683 m3/h
Vel: 2.37108 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=84

08-07-12 12:12:10
Flow 9.54317 m3/h
Vel: 1.05894 fps
NET: +124x1m3
UP:90.4 DN:90.5 Q=81

08-07-12 12:12:20
Flow 9.39243 m3/h
Vel: 1.04221 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=74

08-07-12 12:12:30
Flow 9.72281 m3/h
Vel: 1.07887 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=84

08-07-12 12:12:40
Flow 10.0219 m3/h
Vel: 1.11206 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=69

08-07-12 12:12:50
Flow 10.0584 m3/h
Vel: 1.11611 fps
NET: +124x1m3
UP:90.4 DN:90.3 Q=83

08-07-12 12:13:00
Flow 10.0941 m3/h
Vel: 1.12007 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=84

08-07-12 12:13:10
Flow 9.99216 m3/h
Vel: 1.10876 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=85

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:13:20
Flow 6.10441 m3/h
Vel: 0.677363 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=69

08-07-12 12:13:30
Flow 14.698 m3/h
Vel: 1.63094 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=78

08-07-12 12:13:40
Flow 18.277 m3/h
Vel: 2.02807 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=88

08-07-12 12:13:50
Flow 19.6027 m3/h
Vel: 2.17517 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=89

08-07-12 12:14:00
Flow 12.2081 m3/h
Vel: 1.35465 fps
NET: +124x1m3
UP:90.4 DN:90.5 Q=81

08-07-12 12:14:10
Flow 9.03822 m3/h
Vel: 1.00291 fps
NET: +124x1m3
UP:90.4 DN:90.3 Q=80

08-07-12 12:14:20
Flow 9.57473 m3/h
Vel: 1.06244 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=82

08-07-12 12:14:30
Flow 10.0211 m3/h
Vel: 1.11197 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=83

08-07-12 12:14:40
Flow 10.01 m3/h
Vel: 1.11074 fps
NET: +124x1m3
UP:90.4 DN:90.3 Q=77

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:14:50
Flow 6.78703 m3/h
Vel: 0.753108 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=84

08-07-12 12:15:00
Flow 11.1785 m3/h
Vel: 1.24039 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=87

08-07-12 12:15:10
Flow 17.2066 m3/h
Vel: 1.9093 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=85

08-07-12 12:15:20
Flow 19.6892 m3/h
Vel: 2.18477 fps
NET: +124x1m3
UP:90.4 DN:90.4 Q=82

08-07-12 12:15:30
Flow 20.5423 m3/h
Vel: 2.27944 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=78

08-07-12 12:15:40
Flow 21.0344 m3/h
Vel: 2.33404 fps
NET: +124x1m3
UP:90.3 DN:90.3 Q=87

08-07-12 12:15:50
Flow 21.0117 m3/h
Vel: 2.33152 fps
NET: +124x1m3
UP:90.3 DN:90.4 Q=81

08-07-12 12:16:00
Flow 20.8985 m3/h
Vel: 2.31896 fps
NET: +124x1m3
UP:90.3 DN:90.3 Q=75

08-07-12 12:16:10
Flow 21.1409 m3/h
Vel: 2.34586 fps
NET: +125x1m3
UP:90.3 DN:90.4 Q=88

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:16:20
Flow 20.9761 m3/h
Vel: 2.32757 fps
NET: +125x1m3
UP:90.4 DN:90.3 Q=82

08-07-12 12:16:30
Flow 20.8915 m3/h
Vel: 2.31818 fps
NET: +125x1m3
UP:90.2 DN:90.3 Q=73

08-07-12 12:16:40
Flow 20.9827 m3/h
Vel: 2.3283 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=83

08-07-12 12:16:50
Flow 20.7419 m3/h
Vel: 2.30158 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=80

08-07-12 12:17:00
Flow 21.0671 m3/h
Vel: 2.33767 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=87

08-07-12 12:17:10
Flow 21.0331 m3/h
Vel: 2.33389 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=83

08-07-12 12:17:20
Flow 21.0104 m3/h
Vel: 2.33138 fps
NET: +125x1m3
UP:90.4 DN:90.3 Q=72

08-07-12 12:17:30
Flow 20.937 m3/h
Vel: 2.32323 fps
NET: +125x1m3
UP:90.2 DN:90.4 Q=78

08-07-12 12:17:40
Flow 21.1253 m3/h
Vel: 2.34412 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=72

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:17:50
Flow 21.0436 m3/h
Vel: 2.33506 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=85

08-07-12 12:18:00
Flow 21.115 m3/h
Vel: 2.34298 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=84

08-07-12 12:18:10
Flow 20.1306 m3/h
Vel: 2.23375 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=80

08-07-12 12:18:20
Flow 9.26091 m3/h
Vel: 1.02762 fps
NET: +125x1m3
UP:90.4 DN:90.4 Q=81

08-07-12 12:18:30
Flow 9.72071 m3/h
Vel: 1.07864 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=81

08-07-12 12:18:40
Flow 9.97358 m3/h
Vel: 1.1067 fps
NET: +125x1m3
UP:90.4 DN:90.4 Q=86

08-07-12 12:18:50
Flow 10.0109 m3/h
Vel: 1.11084 fps
NET: +125x1m3
UP:90.4 DN:90.3 Q=86

08-07-12 12:19:00
Flow 10.0137 m3/h
Vel: 1.11114 fps
NET: +125x1m3
UP:90.3 DN:90.4 Q=79

08-07-12 12:19:10
Flow 9.97861 m3/h
Vel: 1.10726 fps
NET: +125x1m3
UP:90.4 DN:90.4 Q=87

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:19:20
Flow 7.907 m3/h
Vel: 0.877384 fps
NET: +125x1m3
UP:90.3 DN:90.4 Q=72

08-07-12 12:19:30
Flow 8.40159 m3/h
Vel: 0.932264 fps
NET: +125x1m3
UP:90.3 DN:90.4 Q=84

08-07-12 12:19:40
Flow 15.569 m3/h
Vel: 1.72758 fps
NET: +125x1m3
UP:90.2 DN:90.3 Q=77

08-07-12 12:19:50
Flow 18.4415 m3/h
Vel: 2.04632 fps
NET: +125x1m3
UP:90.3 DN:90.3 Q=85

08-07-12 12:20:00
Flow 19.7611 m3/h
Vel: 2.19275 fps
NET: +126x1m3
UP:90.3 DN:90.3 Q=86

08-07-12 12:20:10
Flow 9.96364 m3/h
Vel: 1.1056 fps
NET: +126x1m3
UP:90.4 DN:90.4 Q=80

08-07-12 12:20:20
Flow 9.33231 m3/h
Vel: 1.03554 fps
NET: +126x1m3
UP:90.3 DN:90.3 Q=76

08-07-12 12:20:30
Flow 9.77302 m3/h
Vel: 1.08444 fps
NET: +126x1m3
UP:90.3 DN:90.4 Q=71

08-07-12 12:20:40
Flow 9.90075 m3/h
Vel: 1.09862 fps
NET: +126x1m3
UP:90.4 DN:90.4 Q=76

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:20:50
Flow 8.61439 m3/h
Vel: 0.955878 fps
NET: +126x1m3
UP:90.4 DN:90.3 Q=84

08-07-12 12:21:00
Flow 8.45758 m3/h
Vel: 0.938478 fps
NET: +126x1m3
UP:90.2 DN:90.3 Q=90

08-07-12 12:21:10
Flow 16.0244 m3/h
Vel: 1.77811 fps
NET: +126x1m3
UP:91.6 DN:91.6 Q=80

08-07-12 12:21:20
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.1 DN:47.8 Q=00

08-07-12 12:21:30
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:51.8 Q=00

08-07-12 12:21:40
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:21:50
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:22:00
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:22:10
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:22:20
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:22:30
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:22:40
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:22:50
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:23:00
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:23:10
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:23:20
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:23:30
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:23:40
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:23:50
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:24:00
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:24:10
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:24:20
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:24:30
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:24:40
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:24:50
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:25:00
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:25:10
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

Table G-3. Flow Data for Holland Ryndam (7/12/2008)

08-07-12 12:25:20
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:25:30
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:25:40
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:25:50
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:26:00
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

08-07-12 12:26:10
Flow 0 m3/h
Vel: 0 fps
NET: +126x1m3
UP:00.0 DN:00.0 Q=00

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:27:07
Flow 2.59805 m3/h
Vel: 0.140792 fps
NET: +34x1m3
UP:74.7 DN:74.8 Q=34

08-07-15 11:27:17
Flow 1.70954 m3/h
Vel: 0.0926423 fps
NET: +34x1m3
UP:75.0 DN:75.0 Q=04

08-07-15 11:27:27
Flow 0.77548 m3/h
Vel: 0.0420243 fps
NET: +34x1m3
UP:75.2 DN:75.1 Q=39

08-07-15 11:27:37
Flow 7.55345 m3/h
Vel: 0.409331 fps
NET: +34x1m3
UP:75.7 DN:75.2 Q=11

08-07-15 11:27:47
Flow 0 m3/h
Vel: 0 fps
NET: +34x1m3
UP:72.7 DN:72.0 Q=22

08-07-15 11:27:57
Flow 2.71912 m3/h
Vel: 0.147353 fps
NET: +34x1m3
UP:74.3 DN:74.2 Q=10

08-07-15 11:28:07
Flow 2.71912 m3/h
Vel: 0.147353 fps
NET: +34x1m3
UP:72.9 DN:71.6 Q=09

08-07-15 11:28:17
Flow 3.21061 m3/h
Vel: 0.173987 fps
NET: +34x1m3
UP:74.5 DN:74.5 Q=00

08-07-15 11:28:27
Flow 5.55131 m3/h
Vel: 0.300833 fps
NET: +35x1m3
UP:75.2 DN:75.2 Q=01

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:28:37
Flow 7.11537 m3/h
Vel: 0.385591 fps
NET: +35x1m3
UP:75.6 DN:75.6 Q=42

08-07-15 11:28:47
Flow 7.47919 m3/h
Vel: 0.405307 fps
NET: +35x1m3
UP:75.8 DN:75.9 Q=36

08-07-15 11:28:57
Flow 7.16014 m3/h
Vel: 0.388018 fps
NET: +35x1m3
UP:75.8 DN:75.9 Q=38

08-07-15 11:29:07
Flow 5.15703 m3/h
Vel: 0.279466 fps
NET: +35x1m3
UP:76.0 DN:76.0 Q=45

08-07-15 11:29:17
Flow 3.93373 m3/h
Vel: 0.213174 fps
NET: +35x1m3
UP:76.0 DN:76.0 Q=44

08-07-15 11:29:27
Flow 4.08724 m3/h
Vel: 0.221493 fps
NET: +35x1m3
UP:76.0 DN:75.0 Q=46

08-07-15 11:29:37
Flow 2.98026 m3/h
Vel: 0.161504 fps
NET: +35x1m3
UP:76.0 DN:75.9 Q=38

08-07-15 11:29:47
Flow 2.53087 m3/h
Vel: 0.137151 fps
NET: +35x1m3
UP:75.9 DN:75.0 Q=00

08-07-15 11:29:57
Flow 3.48434 m3/h
Vel: 0.188821 fps
NET: +35x1m3
UP:76.0 DN:76.0 Q=41

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:30:07
Flow 2.52912 m3/h
Vel: 0.137056 fps
NET: +35x1m3
UP:76.1 DN:76.0 Q=46

08-07-15 11:30:17
Flow 3.2635 m3/h
Vel: 0.176853 fps
NET: +35x1m3
UP:75.9 DN:75.9 Q=47

08-07-15 11:30:27
Flow 2.67762 m3/h
Vel: 0.145104 fps
NET: +35x1m3
UP:75.9 DN:75.0 Q=48

08-07-15 11:30:37
Flow 9.14656 m3/h
Vel: 0.495664 fps
NET: +35x1m3
UP:76.0 DN:75.0 Q=34

08-07-15 11:30:47
Flow 0 m3/h
Vel: 0 fps
NET: +35x1m3
UP:73.1 DN:73.0 Q=00

08-07-15 11:30:57
Flow 0 m3/h
Vel: 0 fps
NET: +35x1m3
UP:74.5 DN:74.3 Q=04

08-07-15 11:31:07
Flow 42.4307 m3/h
Vel: 2.29937 fps
NET: +35x1m3
UP:73.3 DN:72.3 Q=20

08-07-15 11:31:17
Flow 42.4307 m3/h
Vel: 2.29937 fps
NET: +35x1m3
UP:73.3 DN:73.2 Q=07

08-07-15 11:31:27
Flow 38.6826 m3/h
Vel: 2.09626 fps
NET: +35x1m3
UP:75.0 DN:75.1 Q=56

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:31:37
Flow 26.6695 m3/h
Vel: 1.44526 fps
NET: +35x1m3
UP:75.5 DN:75.4 Q=38

08-07-15 11:31:47
Flow 19.3475 m3/h
Vel: 1.04847 fps
NET: +35x1m3
UP:76.1 DN:75.8 Q=00

08-07-15 11:31:57
Flow 15.388 m3/h
Vel: 0.833896 fps
NET: +35x1m3
UP:75.0 DN:75.9 Q=42

08-07-15 11:32:07
Flow 12.3756 m3/h
Vel: 0.670651 fps
NET: +35x1m3
UP:76.1 DN:76.0 Q=38

08-07-15 11:32:17
Flow 8.86028 m3/h
Vel: 0.48015 fps
NET: +35x1m3
UP:76.0 DN:75.9 Q=44

08-07-15 11:32:27
Flow 7.77162 m3/h
Vel: 0.421154 fps
NET: +35x1m3
UP:75.0 DN:75.9 Q=10

08-07-15 11:32:37
Flow 6.82268 m3/h
Vel: 0.36973 fps
NET: +35x1m3
UP:75.9 DN:75.9 Q=44

08-07-15 11:32:47
Flow 5.25792 m3/h
Vel: 0.284934 fps
NET: +35x1m3
UP:76.0 DN:76.1 Q=38

08-07-15 11:32:57
Flow 4.41001 m3/h
Vel: 0.238984 fps
NET: +35x1m3
UP:76.1 DN:76.1 Q=42

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:33:07
Flow 3.52149 m3/h
Vel: 0.190834 fps
NET: +35x1m3
UP:76.0 DN:76.0 Q=40

08-07-15 11:33:17
Flow 3.1016 m3/h
Vel: 0.16808 fps
NET: +35x1m3
UP:76.1 DN:76.1 Q=44

08-07-15 11:33:27
Flow 3.64902 m3/h
Vel: 0.197745 fps
NET: +35x1m3
UP:76.2 DN:76.1 Q=46

08-07-15 11:33:37
Flow 3.11527 m3/h
Vel: 0.168821 fps
NET: +35x1m3
UP:76.1 DN:76.0 Q=43

08-07-15 11:33:47
Flow 2.70278 m3/h
Vel: 0.146467 fps
NET: +35x1m3
UP:76.1 DN:76.1 Q=45

08-07-15 11:33:57
Flow 3.69532 m3/h
Vel: 0.200254 fps
NET: +35x1m3
UP:76.1 DN:76.1 Q=41

08-07-15 11:34:07
Flow 3.5352 m3/h
Vel: 0.191577 fps
NET: +35x1m3
UP:76.2 DN:76.0 Q=40

08-07-15 11:34:17
Flow 2.92117 m3/h
Vel: 0.158302 fps
NET: +35x1m3
UP:76.2 DN:76.2 Q=47

08-07-15 11:34:27
Flow 4.42706 m3/h
Vel: 0.239908 fps
NET: +35x1m3
UP:76.1 DN:76.0 Q=45

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:34:37
Flow 3.52425 m3/h
Vel: 0.190983 fps
NET: +35x1m3
UP:76.1 DN:76.1 Q=04

08-07-15 11:34:47
Flow 10.7359 m3/h
Vel: 0.581789 fps
NET: +35x1m3
UP:75.8 DN:75.5 Q=07

08-07-15 11:34:57
Flow 15.3239 m3/h
Vel: 0.83042 fps
NET: +36x1m3
UP:75.4 DN:75.4 Q=06

08-07-15 11:35:07
Flow 27.4288 m3/h
Vel: 1.4864 fps
NET: +36x1m3
UP:75.2 DN:74.9 Q=02

08-07-15 11:35:17
Flow 27.4288 m3/h
Vel: 1.4864 fps
NET: +36x1m3
UP:73.7 DN:73.0 Q=19

08-07-15 11:35:27
Flow 27.4288 m3/h
Vel: 1.4864 fps
NET: +36x1m3
UP:73.5 DN:73.0 Q=20

08-07-15 11:35:37
Flow 27.4288 m3/h
Vel: 1.4864 fps
NET: +36x1m3
UP:74.3 DN:74.4 Q=01

08-07-15 11:35:47
Flow 24.229 m3/h
Vel: 1.313 fps
NET: +36x1m3
UP:75.1 DN:75.2 Q=79

08-07-15 11:35:57
Flow 19.6184 m3/h
Vel: 1.06315 fps
NET: +36x1m3
UP:75.6 DN:75.7 Q=78

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:36:07
Flow 16.9816 m3/h
Vel: 0.920253 fps
NET: +36x1m3
UP:75.8 DN:75.9 Q=77

08-07-15 11:36:17
Flow 13.8465 m3/h
Vel: 0.750361 fps
NET: +36x1m3
UP:75.8 DN:75.9 Q=79

08-07-15 11:36:27
Flow 10.4746 m3/h
Vel: 0.567633 fps
NET: +36x1m3
UP:75.5 DN:75.3 Q=61

08-07-15 11:36:37
Flow 8.81717 m3/h
Vel: 0.477814 fps
NET: +36x1m3
UP:75.9 DN:76.0 Q=68

08-07-15 11:36:47
Flow 7.76626 m3/h
Vel: 0.420864 fps
NET: +36x1m3
UP:75.9 DN:75.9 Q=80

08-07-15 11:36:57
Flow 7.23206 m3/h
Vel: 0.391915 fps
NET: +36x1m3
UP:75.9 DN:76.0 Q=82

08-07-15 11:37:07
Flow 6.4132 m3/h
Vel: 0.34754 fps
NET: +36x1m3
UP:75.9 DN:76.0 Q=82

08-07-15 11:37:17
Flow 5.3342 m3/h
Vel: 0.289067 fps
NET: +36x1m3
UP:75.9 DN:75.0 Q=76

08-07-15 11:37:27
Flow 4.82171 m3/h
Vel: 0.261295 fps
NET: +36x1m3
UP:75.9 DN:76.0 Q=74

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:37:37
Flow 5.37005 m3/h
Vel: 0.29101 fps
NET: +36x1m3
UP:75.9 DN:76.0 Q=82

08-07-15 11:37:47
Flow 5.47307 m3/h
Vel: 0.296593 fps
NET: +36x1m3
UP:75.9 DN:76.0 Q=80

08-07-15 11:37:57
Flow 5.11505 m3/h
Vel: 0.277191 fps
NET: +36x1m3
UP:76.1 DN:76.0 Q=02

08-07-15 11:38:07
Flow 4.83144 m3/h
Vel: 0.261822 fps
NET: +36x1m3
UP:75.9 DN:76.0 Q=69

08-07-15 11:38:17
Flow 4.81843 m3/h
Vel: 0.261117 fps
NET: +36x1m3
UP:76.0 DN:76.0 Q=74

08-07-15 11:38:27
Flow 4.86398 m3/h
Vel: 0.263586 fps
NET: +36x1m3
UP:76.0 DN:76.0 Q=49

08-07-15 11:38:37
Flow 5.09109 m3/h
Vel: 0.275893 fps
NET: +36x1m3
UP:76.0 DN:76.1 Q=63

08-07-15 11:38:47
Flow 5.57922 m3/h
Vel: 0.302345 fps
NET: +36x1m3
UP:75.8 DN:75.6 Q=58

08-07-15 11:38:57
Flow 6.39096 m3/h
Vel: 0.346334 fps
NET: +36x1m3
UP:75.6 DN:75.3 Q=16

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:39:07
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:55.0 DN:66.0 Q=09

08-07-15 11:39:17
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:54.5 DN:67.1 Q=20

08-07-15 11:39:27
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:54.0 DN:66.8 Q=06

08-07-15 11:39:37
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:53.0 DN:64.1 Q=20

08-07-15 11:39:47
Flow -8.95265 m3/h
Vel: -0.485156 fps
NET: +36x1m3
UP:53.5 DN:62.0 Q=02

08-07-15 11:39:57
Flow -8.95265 m3/h
Vel: -0.485156 fps
NET: +36x1m3
UP:53.9 DN:64.2 Q=13

08-07-15 11:40:07
Flow -8.95265 m3/h
Vel: -0.485156 fps
NET: +36x1m3
UP:54.3 DN:62.1 Q=06

08-07-15 11:40:17
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:47.6 DN:56.5 Q=00

08-07-15 11:40:27
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:65.3 DN:56.2 Q=00

Table G-4. Flow Data for Millennium July (7/15/2008)

08-07-15 11:40:37
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:67.0 DN:56.6 Q=21

08-07-15 11:40:47
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:66.7 DN:56.2 Q=20

08-07-15 11:40:57
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:66.6 DN:55.6 Q=06

08-07-15 11:41:07
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:66.6 DN:55.6 Q=19

08-07-15 11:41:17
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:66.5 DN:56.2 Q=07

08-07-15 11:41:27
Flow 0 m3/h
Vel: 0 fps
NET: +36x1m3
UP:66.6 DN:55.8 Q=02

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:42:02
Flow 7.58574 m3/h
Vel: 0.755345 fps
NET: +7x1m3
UP:63.2 DN:62.9 Q=60

08-07-16 09:42:12
Flow 10.0788 m3/h
Vel: 1.00359 fps
NET: +7x1m3
UP:63.2 DN:63.0 Q=58

08-07-16 09:42:22
Flow 13.3555 m3/h
Vel: 1.32986 fps
NET: +7x1m3
UP:63.0 DN:62.8 Q=60

08-07-16 09:42:32
Flow 16.6369 m3/h
Vel: 1.6566 fps
NET: +7x1m3
UP:63.1 DN:62.8 Q=47

08-07-16 09:42:42
Flow 18.643 m3/h
Vel: 1.85637 fps
NET: +7x1m3
UP:63.3 DN:62.9 Q=65

08-07-16 09:42:52
Flow 21.1801 m3/h
Vel: 2.109 fps
NET: +7x1m3
UP:63.2 DN:63.0 Q=54

08-07-16 09:43:02
Flow 22.3426 m3/h
Vel: 2.22475 fps
NET: +7x1m3
UP:63.2 DN:63.1 Q=59

08-07-16 09:43:12
Flow 25.1786 m3/h
Vel: 2.50714 fps
NET: +7x1m3
UP:63.2 DN:63.0 Q=46

08-07-16 09:43:22
Flow 27.9301 m3/h
Vel: 2.78112 fps
NET: +7x1m3
UP:63.2 DN:63.1 Q=46

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:43:32
Flow 29.8895 m3/h
Vel: 2.97623 fps
NET: +7x1m3
UP:63.3 DN:63.0 Q=56

08-07-16 09:43:42
Flow 31.4693 m3/h
Vel: 3.13354 fps
NET: +7x1m3
UP:63.2 DN:63.0 Q=58

08-07-16 09:43:52
Flow 32.8716 m3/h
Vel: 3.27317 fps
NET: +7x1m3
UP:63.4 DN:62.9 Q=72

08-07-16 09:44:02
Flow 33.764 m3/h
Vel: 3.36203 fps
NET: +8x1m3
UP:63.4 DN:62.9 Q=60

08-07-16 09:44:12
Flow 34.2801 m3/h
Vel: 3.41342 fps
NET: +8x1m3
UP:63.3 DN:62.9 Q=55

08-07-16 09:44:22
Flow 34.318 m3/h
Vel: 3.41719 fps
NET: +8x1m3
UP:63.3 DN:62.9 Q=56

08-07-16 09:44:32
Flow 33.9217 m3/h
Vel: 3.37773 fps
NET: +8x1m3
UP:63.3 DN:63.0 Q=60

08-07-16 09:44:42
Flow 29.4137 m3/h
Vel: 2.92885 fps
NET: +8x1m3
UP:63.2 DN:63.0 Q=64

08-07-16 09:44:52
Flow 28.2264 m3/h
Vel: 2.81062 fps
NET: +8x1m3
UP:63.2 DN:63.0 Q=52

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:45:02
Flow 28.8759 m3/h
Vel: 2.8753 fps
NET: +8x1m3
UP:63.2 DN:62.9 Q=58

08-07-16 09:45:12
Flow 27.8701 m3/h
Vel: 2.77515 fps
NET: +8x1m3
UP:63.2 DN:63.0 Q=56

08-07-16 09:45:22
Flow 27.2745 m3/h
Vel: 2.71584 fps
NET: +8x1m3
UP:63.1 DN:62.9 Q=54

08-07-16 09:45:32
Flow 28.0448 m3/h
Vel: 2.79254 fps
NET: +8x1m3
UP:63.1 DN:62.9 Q=68

08-07-16 09:45:42
Flow 27.658 m3/h
Vel: 2.75403 fps
NET: +8x1m3
UP:63.2 DN:62.9 Q=63

08-07-16 09:45:52
Flow 25.4086 m3/h
Vel: 2.53005 fps
NET: +8x1m3
UP:63.2 DN:62.8 Q=56

08-07-16 09:46:02
Flow 22.3412 m3/h
Vel: 2.22461 fps
NET: +9x1m3
UP:63.4 DN:62.9 Q=58

08-07-16 09:46:12
Flow 13.2278 m3/h
Vel: 1.31715 fps
NET: +9x1m3
UP:63.2 DN:63.0 Q=58

08-07-16 09:46:22
Flow 3.52493 m3/h
Vel: 0.350992 fps
NET: +9x1m3
UP:63.2 DN:63.0 Q=61

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:46:32
Flow 6.70042 m3/h
Vel: 0.66719 fps
NET: +9x1m3
UP:63.1 DN:62.9 Q=68

08-07-16 09:46:42
Flow 9.59439 m3/h
Vel: 0.955355 fps
NET: +9x1m3
UP:63.1 DN:63.0 Q=62

08-07-16 09:46:52
Flow 11.4368 m3/h
Vel: 1.13882 fps
NET: +9x1m3
UP:63.2 DN:62.8 Q=60

08-07-16 09:47:02
Flow 15.1798 m3/h
Vel: 1.51152 fps
NET: +9x1m3
UP:63.2 DN:62.9 Q=56

08-07-16 09:47:12
Flow 19.172 m3/h
Vel: 1.90904 fps
NET: +9x1m3
UP:63.2 DN:62.9 Q=62

08-07-16 09:47:22
Flow 23.6578 m3/h
Vel: 2.35571 fps
NET: +9x1m3
UP:63.2 DN:62.9 Q=54

08-07-16 09:47:32
Flow 27.7536 m3/h
Vel: 2.76355 fps
NET: +9x1m3
UP:63.3 DN:63.1 Q=56

08-07-16 09:47:42
Flow 31.8293 m3/h
Vel: 3.16938 fps
NET: +9x1m3
UP:63.3 DN:62.8 Q=50

08-07-16 09:47:52
Flow 36.0157 m3/h
Vel: 3.58624 fps
NET: +9x1m3
UP:63.1 DN:62.9 Q=52

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:48:02
Flow 39.6324 m3/h
Vel: 3.94637 fps
NET: +9x1m3
UP:63.2 DN:62.9 Q=62

08-07-16 09:48:12
Flow 42.2579 m3/h
Vel: 4.2078 fps
NET: +9x1m3
UP:63.2 DN:62.9 Q=58

08-07-16 09:48:22
Flow 43.2934 m3/h
Vel: 4.31091 fps
NET: +9x1m3
UP:63.3 DN:62.8 Q=52

08-07-16 09:48:32
Flow 43.1328 m3/h
Vel: 4.29492 fps
NET: +10x1m3
UP:63.2 DN:62.7 Q=64

08-07-16 09:48:42
Flow 42.7657 m3/h
Vel: 4.25837 fps
NET: +10x1m3
UP:63.3 DN:62.8 Q=53

08-07-16 09:48:52
Flow 40.0646 m3/h
Vel: 3.98941 fps
NET: +10x1m3
UP:63.2 DN:62.9 Q=68

08-07-16 09:49:02
Flow 37.4763 m3/h
Vel: 3.73167 fps
NET: +10x1m3
UP:63.2 DN:62.9 Q=62

08-07-16 09:49:12
Flow 25.2511 m3/h
Vel: 2.51437 fps
NET: +10x1m3
UP:63.1 DN:62.8 Q=61

08-07-16 09:49:22
Flow 8.70174 m3/h
Vel: 0.86647 fps
NET: +10x1m3
UP:63.2 DN:63.0 Q=48

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:49:32
Flow 2.45372 m3/h
Vel: 0.244328 fps
NET: +10x1m3
UP:63.1 DN:62.9 Q=54

08-07-16 09:49:42
Flow 0.481449 m3/h
Vel: 0.04794 fps
NET: +10x1m3
UP:63.2 DN:62.8 Q=55

08-07-16 09:49:52
Flow -0.348425 m3/h
Vel: -0.0346941 fps
NET: +10x1m3
UP:63.0 DN:63.1 Q=54

08-07-16 09:50:02
Flow -0.427137 m3/h
Vel: -0.0425319 fps
NET: +10x1m3
UP:63.1 DN:62.9 Q=62

08-07-16 09:50:12
Flow -1.2839 m3/h
Vel: -0.127844 fps
NET: +10x1m3
UP:63.2 DN:63.0 Q=55

08-07-16 09:50:22
Flow -0.357221 m3/h
Vel: -0.03557 fps
NET: +10x1m3
UP:63.1 DN:63.0 Q=47

08-07-16 09:50:32
Flow 9.3672 m3/h
Vel: 0.932733 fps
NET: +10x1m3
UP:63.2 DN:62.9 Q=56

08-07-16 09:50:42
Flow 19.3961 m3/h
Vel: 1.93135 fps
NET: +10x1m3
UP:63.3 DN:62.9 Q=62

08-07-16 09:50:52
Flow 27.6578 m3/h
Vel: 2.75401 fps
NET: +10x1m3
UP:63.2 DN:63.0 Q=63

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:51:02
Flow 34.4175 m3/h
Vel: 3.42709 fps
NET: +10x1m3
UP:63.2 DN:62.9 Q=48

08-07-16 09:51:12
Flow 39.8752 m3/h
Vel: 3.97054 fps
NET: +10x1m3
UP:63.2 DN:62.7 Q=60

08-07-16 09:51:22
Flow 41.953 m3/h
Vel: 4.17744 fps
NET: +10x1m3
UP:63.2 DN:62.9 Q=62

08-07-16 09:51:32
Flow 43.2294 m3/h
Vel: 4.30454 fps
NET: +11x1m3
UP:63.2 DN:62.9 Q=66

08-07-16 09:51:42
Flow 43.2471 m3/h
Vel: 4.3063 fps
NET: +11x1m3
UP:63.3 DN:62.8 Q=58

08-07-16 09:51:52
Flow 43.0527 m3/h
Vel: 4.28695 fps
NET: +11x1m3
UP:63.2 DN:62.9 Q=56

08-07-16 09:52:02
Flow 38.3908 m3/h
Vel: 3.82273 fps
NET: +11x1m3
UP:63.2 DN:62.9 Q=50

08-07-16 09:52:12
Flow 22.009 m3/h
Vel: 2.19153 fps
NET: +11x1m3
UP:63.2 DN:62.9 Q=57

08-07-16 09:52:22
Flow 7.36043 m3/h
Vel: 0.73291 fps
NET: +11x1m3
UP:63.2 DN:62.8 Q=65

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:52:32
Flow 1.76037 m3/h
Vel: 0.175287 fps
NET: +11x1m3
UP:63.1 DN:62.9 Q=60

08-07-16 09:52:42
Flow 3.70976 m3/h
Vel: 0.369397 fps
NET: +11x1m3
UP:63.2 DN:62.7 Q=56

08-07-16 09:52:52
Flow 14.0006 m3/h
Vel: 1.3941 fps
NET: +11x1m3
UP:63.1 DN:62.8 Q=50

08-07-16 09:53:02
Flow 21.6043 m3/h
Vel: 2.15124 fps
NET: +11x1m3
UP:63.3 DN:62.9 Q=48

08-07-16 09:53:12
Flow 28.4735 m3/h
Vel: 2.83523 fps
NET: +11x1m3
UP:63.2 DN:63.0 Q=66

08-07-16 09:53:22
Flow 33.5481 m3/h
Vel: 3.34053 fps
NET: +11x1m3
UP:63.1 DN:62.8 Q=60

08-07-16 09:53:32
Flow 37.2096 m3/h
Vel: 3.70512 fps
NET: +11x1m3
UP:63.3 DN:62.8 Q=48

08-07-16 09:53:42
Flow 39.7379 m3/h
Vel: 3.95687 fps
NET: +11x1m3
UP:63.2 DN:62.9 Q=52

08-07-16 09:53:52
Flow 42.2855 m3/h
Vel: 4.21055 fps
NET: +12x1m3
UP:63.2 DN:62.9 Q=64

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:54:02
Flow 42.2092 m3/h
Vel: 4.20295 fps
NET: +12x1m3
UP:63.2 DN:62.9 Q=59

08-07-16 09:54:12
Flow 40.5119 m3/h
Vel: 4.03394 fps
NET: +12x1m3
UP:63.3 DN:62.9 Q=56

08-07-16 09:54:22
Flow 33.7956 m3/h
Vel: 3.36518 fps
NET: +12x1m3
UP:63.1 DN:63.0 Q=66

08-07-16 09:54:32
Flow 15.3722 m3/h
Vel: 1.53068 fps
NET: +12x1m3
UP:63.0 DN:62.9 Q=58

08-07-16 09:54:42
Flow 5.47243 m3/h
Vel: 0.544913 fps
NET: +12x1m3
UP:63.2 DN:63.0 Q=56

08-07-16 09:54:52
Flow 6.05796 m3/h
Vel: 0.603217 fps
NET: +12x1m3
UP:63.2 DN:63.0 Q=56

08-07-16 09:55:02
Flow 10.3576 m3/h
Vel: 1.03136 fps
NET: +12x1m3
UP:63.0 DN:63.0 Q=59

08-07-16 09:55:12
Flow 12.6948 m3/h
Vel: 1.26408 fps
NET: +12x1m3
UP:63.0 DN:62.8 Q=52

08-07-16 09:55:22
Flow 14.33 m3/h
Vel: 1.4269 fps
NET: +12x1m3
UP:63.2 DN:63.1 Q=53

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:55:32
Flow 18.3742 m3/h
Vel: 1.8296 fps
NET: +12x1m3
UP:63.1 DN:62.9 Q=59

08-07-16 09:55:42
Flow 22.1187 m3/h
Vel: 2.20245 fps
NET: +12x1m3
UP:63.1 DN:62.7 Q=57

08-07-16 09:55:52
Flow 25.6902 m3/h
Vel: 2.55808 fps
NET: +12x1m3
UP:63.1 DN:62.7 Q=65

08-07-16 09:56:02
Flow 28.1502 m3/h
Vel: 2.80304 fps
NET: +12x1m3
UP:63.2 DN:62.7 Q=60

08-07-16 09:56:12
Flow 30.5546 m3/h
Vel: 3.04245 fps
NET: +12x1m3
UP:63.1 DN:62.8 Q=53

08-07-16 09:56:22
Flow 33.2242 m3/h
Vel: 3.30828 fps
NET: +13x1m3
UP:63.2 DN:62.7 Q=54

08-07-16 09:56:32
Flow 34.3413 m3/h
Vel: 3.41951 fps
NET: +13x1m3
UP:63.1 DN:62.7 Q=56

08-07-16 09:56:42
Flow 34.3882 m3/h
Vel: 3.42418 fps
NET: +13x1m3
UP:63.2 DN:62.8 Q=62

08-07-16 09:56:52
Flow 34.3556 m3/h
Vel: 3.42093 fps
NET: +13x1m3
UP:63.2 DN:62.6 Q=66

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:57:02
Flow 35.0122 m3/h
Vel: 3.48632 fps
NET: +13x1m3
UP:63.2 DN:62.7 Q=59

08-07-16 09:57:12
Flow 36.0308 m3/h
Vel: 3.58775 fps
NET: +13x1m3
UP:63.2 DN:62.6 Q=62

08-07-16 09:57:22
Flow 32.2953 m3/h
Vel: 3.21578 fps
NET: +13x1m3
UP:63.1 DN:62.9 Q=62

08-07-16 09:57:32
Flow 18.3529 m3/h
Vel: 1.82747 fps
NET: +13x1m3
UP:63.0 DN:62.9 Q=52

08-07-16 09:57:42
Flow 6.16321 m3/h
Vel: 0.613697 fps
NET: +13x1m3
UP:63.0 DN:62.9 Q=54

08-07-16 09:57:52
Flow 8.61614 m3/h
Vel: 0.857946 fps
NET: +13x1m3
UP:63.2 DN:62.9 Q=68

08-07-16 09:58:02
Flow 16.5962 m3/h
Vel: 1.65256 fps
NET: +13x1m3
UP:63.2 DN:62.6 Q=60

08-07-16 09:58:12
Flow 22.3294 m3/h
Vel: 2.22343 fps
NET: +13x1m3
UP:63.1 DN:62.6 Q=64

08-07-16 09:58:22
Flow 26.5229 m3/h
Vel: 2.641 fps
NET: +13x1m3
UP:63.1 DN:62.6 Q=46

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 09:58:32
Flow 30.5708 m3/h
Vel: 3.04407 fps
NET: +13x1m3
UP:63.1 DN:62.9 Q=60

08-07-16 09:58:42
Flow 33.2749 m3/h
Vel: 3.31333 fps
NET: +14x1m3
UP:63.2 DN:62.8 Q=50

08-07-16 09:58:52
Flow 34.8178 m3/h
Vel: 3.46696 fps
NET: +14x1m3
UP:63.1 DN:62.6 Q=56

08-07-16 09:59:02
Flow 30.5394 m3/h
Vel: 3.04094 fps
NET: +14x1m3
UP:63.1 DN:62.8 Q=50

08-07-16 09:59:12
Flow 20.6834 m3/h
Vel: 2.05954 fps
NET: +14x1m3
UP:63.0 DN:62.8 Q=50

08-07-16 09:59:22
Flow 19.796 m3/h
Vel: 1.97117 fps
NET: +14x1m3
UP:63.2 DN:62.8 Q=60

08-07-16 09:59:32
Flow 22.6553 m3/h
Vel: 2.25588 fps
NET: +14x1m3
UP:63.2 DN:62.8 Q=54

08-07-16 09:59:42
Flow 24.3987 m3/h
Vel: 2.42948 fps
NET: +14x1m3
UP:63.1 DN:62.7 Q=53

08-07-16 09:59:52
Flow 22.3125 m3/h
Vel: 2.22175 fps
NET: +14x1m3
UP:63.1 DN:62.8 Q=42

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 10:00:02
Flow 18.7015 m3/h
Vel: 1.86219 fps
NET: +14x1m3
UP:63.0 DN:62.8 Q=60

08-07-16 10:00:12
Flow 21.1944 m3/h
Vel: 2.11042 fps
NET: +14x1m3
UP:62.9 DN:62.7 Q=68

08-07-16 10:00:22
Flow 24.3557 m3/h
Vel: 2.4252 fps
NET: +14x1m3
UP:63.1 DN:62.9 Q=61

08-07-16 10:00:32
Flow 25.8389 m3/h
Vel: 2.57289 fps
NET: +14x1m3
UP:63.0 DN:62.7 Q=56

08-07-16 10:00:42
Flow 26.5039 m3/h
Vel: 2.63911 fps
NET: +14x1m3
UP:63.1 DN:62.8 Q=51

08-07-16 10:00:52
Flow 25.393 m3/h
Vel: 2.52849 fps
NET: +14x1m3
UP:63.2 DN:62.8 Q=68

08-07-16 10:01:02
Flow 25.7406 m3/h
Vel: 2.5631 fps
NET: +15x1m3
UP:63.1 DN:62.8 Q=67

08-07-16 10:01:12
Flow 26.8521 m3/h
Vel: 2.67378 fps
NET: +15x1m3
UP:63.2 DN:62.8 Q=56

08-07-16 10:01:22
Flow 29.6144 m3/h
Vel: 2.94883 fps
NET: +15x1m3
UP:63.1 DN:62.7 Q=64

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 10:01:32
Flow 30.9183 m3/h
Vel: 3.07867 fps
NET: +15x1m3
UP:63.2 DN:62.8 Q=64

08-07-16 10:01:42
Flow 24.1798 m3/h
Vel: 2.40769 fps
NET: +15x1m3
UP:63.0 DN:62.7 Q=64

08-07-16 10:01:52
Flow 9.24134 m3/h
Vel: 0.920201 fps
NET: +15x1m3
UP:62.9 DN:62.9 Q=63

08-07-16 10:02:02
Flow 2.76051 m3/h
Vel: 0.274876 fps
NET: +15x1m3
UP:62.9 DN:62.8 Q=57

08-07-16 10:02:12
Flow 0.645004 m3/h
Vel: 0.0642258 fps
NET: +15x1m3
UP:63.0 DN:62.8 Q=57

08-07-16 10:02:22
Flow 3.97421 m3/h
Vel: 0.395729 fps
NET: +15x1m3
UP:63.0 DN:62.8 Q=58

08-07-16 10:02:32
Flow 13.6825 m3/h
Vel: 1.36243 fps
NET: +15x1m3
UP:63.1 DN:62.7 Q=54

08-07-16 10:02:42
Flow 22.3292 m3/h
Vel: 2.22341 fps
NET: +15x1m3
UP:63.1 DN:62.9 Q=62

08-07-16 10:02:52
Flow 30.4651 m3/h
Vel: 3.03354 fps
NET: +15x1m3
UP:63.1 DN:62.7 Q=56

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 10:03:02
Flow 36.5633 m3/h
Vel: 3.64077 fps
NET: +15x1m3
UP:63.1 DN:62.7 Q=55

08-07-16 10:03:12
Flow 41.266 m3/h
Vel: 4.10903 fps
NET: +15x1m3
UP:63.1 DN:62.7 Q=55

08-07-16 10:03:22
Flow 42.4464 m3/h
Vel: 4.22657 fps
NET: +15x1m3
UP:63.2 DN:62.6 Q=62

08-07-16 10:03:32
Flow 43.5909 m3/h
Vel: 4.34053 fps
NET: +15x1m3
UP:63.1 DN:62.7 Q=66

08-07-16 10:03:42
Flow 43.774 m3/h
Vel: 4.35877 fps
NET: +16x1m3
UP:63.1 DN:62.8 Q=58

08-07-16 10:03:52
Flow 42.7017 m3/h
Vel: 4.25199 fps
NET: +16x1m3
UP:63.2 DN:62.6 Q=57

08-07-16 10:04:02
Flow 38.62 m3/h
Vel: 3.84556 fps
NET: +16x1m3
UP:63.0 DN:62.7 Q=58

08-07-16 10:04:12
Flow 36.246 m3/h
Vel: 3.60917 fps
NET: +16x1m3
UP:63.0 DN:62.8 Q=54

08-07-16 10:04:22
Flow 26.9633 m3/h
Vel: 2.68485 fps
NET: +16x1m3
UP:63.0 DN:62.9 Q=42

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 10:04:32
Flow 9.81778 m3/h
Vel: 0.977599 fps
NET: +16x1m3
UP:63.0 DN:62.7 Q=64

08-07-16 10:04:42
Flow 3.18755 m3/h
Vel: 0.317398 fps
NET: +16x1m3
UP:63.0 DN:62.7 Q=64

08-07-16 10:04:52
Flow 0.648924 m3/h
Vel: 0.0646162 fps
NET: +16x1m3
UP:62.9 DN:62.9 Q=63

08-07-16 10:05:02
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.7 DN:64.4 Q=03

08-07-16 10:05:12
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.1 DN:70.3 Q=09

08-07-16 10:05:22
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.0 DN:70.3 Q=08

08-07-16 10:05:32
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.0 DN:70.3 Q=08

08-07-16 10:05:42
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.0 DN:70.3 Q=06

08-07-16 10:05:52
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.0 DN:60.1 Q=04

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 10:06:02
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:69.8 DN:60.2 Q=22

08-07-16 10:06:12
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.0 DN:70.4 Q=08

08-07-16 10:06:22
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:69.8 DN:70.3 Q=08

08-07-16 11:26:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=06

08-07-16 11:27:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=08

08-07-16 11:27:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=08

08-07-16 11:27:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=06

08-07-16 11:27:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=06

08-07-16 11:27:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.0 Q=08

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:27:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=22

08-07-16 11:28:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.1 DN:71.1 Q=04

08-07-16 11:28:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=04

08-07-16 11:28:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.1 Q=08

08-07-16 11:28:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.1 DN:71.1 Q=06

08-07-16 11:28:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=08

08-07-16 11:28:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.2 Q=06

08-07-16 11:29:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=06

08-07-16 11:29:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=06

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:29:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=08

08-07-16 11:29:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=06

08-07-16 11:29:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.5 DN:71.1 Q=08

08-07-16 11:29:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.0 Q=08

08-07-16 11:30:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.1 Q=06

08-07-16 11:30:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=08

08-07-16 11:30:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=16

08-07-16 11:30:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:70.9 Q=04

08-07-16 11:30:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.0 Q=06

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:30:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:70.9 Q=19

08-07-16 11:31:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:70.9 Q=06

08-07-16 11:31:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:70.8 Q=08

08-07-16 11:31:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=22

08-07-16 11:31:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=06

08-07-16 11:31:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=21

08-07-16 11:31:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=08

08-07-16 11:32:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.5 DN:71.0 Q=08

08-07-16 11:32:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.2 Q=04

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:32:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.0 Q=22

08-07-16 11:32:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=04

08-07-16 11:32:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=00

08-07-16 11:32:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.1 Q=22

08-07-16 11:33:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=06

08-07-16 11:33:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=18

08-07-16 11:33:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.5 DN:71.0 Q=22

08-07-16 11:33:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:70.9 Q=08

08-07-16 11:33:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.0 Q=08

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:33:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=22

08-07-16 11:34:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:70.9 Q=00

08-07-16 11:34:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=00

08-07-16 11:34:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.5 DN:71.0 Q=06

08-07-16 11:34:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=22

08-07-16 11:34:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.4 DN:71.0 Q=22

08-07-16 11:34:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=08

08-07-16 11:35:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.2 Q=06

08-07-16 11:35:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.5 DN:71.0 Q=04

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:35:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=04

08-07-16 11:35:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=06

08-07-16 11:35:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.0 Q=04

08-07-16 11:35:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.0 Q=06

08-07-16 11:36:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:60.2 DN:71.1 Q=06

08-07-16 11:36:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:69.6 DN:60.1 Q=04

08-07-16 11:36:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=06

08-07-16 11:36:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.0 Q=22

08-07-16 11:36:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:70.3 DN:71.1 Q=08

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:36:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:69.7 DN:65.4 Q=00

08-07-16 11:37:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:69.3 DN:65.8 Q=06

08-07-16 11:37:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:61.8 DN:65.7 Q=06

08-07-16 11:37:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:63.5 DN:69.2 Q=22

08-07-16 11:37:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:63.8 DN:68.0 Q=06

08-07-16 11:37:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:63.0 DN:66.1 Q=09

08-07-16 11:37:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.5 DN:63.0 Q=22

08-07-16 11:38:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.1 DN:63.2 Q=08

08-07-16 11:38:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.5 DN:63.3 Q=06

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:38:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.2 DN:63.2 Q=08

08-07-16 11:38:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.1 DN:62.7 Q=05

08-07-16 11:38:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:63.7 DN:62.5 Q=21

08-07-16 11:38:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.2 DN:63.2 Q=22

08-07-16 11:39:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:63.7 DN:69.1 Q=00

08-07-16 11:39:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.2 DN:69.0 Q=08

08-07-16 11:39:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:63.8 DN:66.4 Q=00

08-07-16 11:39:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:63.0 DN:66.5 Q=22

08-07-16 11:39:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.0 DN:66.6 Q=06

Table G-5. Flow Data for Norwegian Star (7/16/2008)

08-07-16 11:39:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.2 DN:69.0 Q=06

08-07-16 11:40:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:64.1 DN:67.8 Q=17

08-07-16 11:40:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:66.9 DN:69.9 Q=21

08-07-16 11:40:23
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:66.1 DN:69.6 Q=20

08-07-16 11:40:33
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:66.5 DN:67.2 Q=07

08-07-16 11:40:43
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:65.3 DN:65.4 Q=13

08-07-16 11:40:53
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:38.7 DN:54.9 Q=18

08-07-16 11:41:03
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:38.6 DN:54.6 Q=07

08-07-16 11:41:13
Flow 0 m3/h
Vel: 0 fps
NET: +16x1m3
UP:38.4 DN:58.3 Q=06

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:05:38
Flow 37.1303 m3/h
Vel: 4.12008 fps
NET: -5226x0.01m3
UP:79.5 DN:79.5 Q=59

08-07-17 09:05:48
Flow 36.8388 m3/h
Vel: 4.08774 fps
NET: +5x0.01m3
UP:79.9 DN:80.0 Q=59

08-07-17 09:05:58
Flow 36.4476 m3/h
Vel: 4.04434 fps
NET: +15x0.01m3
UP:70.0 DN:70.0 Q=74

08-07-17 09:06:08
Flow 36.2772 m3/h
Vel: 4.02542 fps
NET: +25x0.01m3
UP:80.1 DN:80.1 Q=73

08-07-17 09:06:18
Flow 37.0165 m3/h
Vel: 4.10745 fps
NET: +36x0.01m3
UP:80.3 DN:80.4 Q=64

08-07-17 09:06:28
Flow 37.6343 m3/h
Vel: 4.17601 fps
NET: +46x0.01m3
UP:70.0 DN:80.1 Q=78

08-07-17 09:06:38
Flow 37.3094 m3/h
Vel: 4.13996 fps
NET: +56x0.01m3
UP:80.2 DN:80.3 Q=77

08-07-17 09:06:48
Flow 36.866 m3/h
Vel: 4.09076 fps
NET: +67x0.01m3
UP:79.6 DN:79.8 Q=66

08-07-17 09:06:58
Flow 37.1259 m3/h
Vel: 4.1196 fps
NET: +77x0.01m3
UP:79.6 DN:79.7 Q=70

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:07:08
Flow 37.3136 m3/h
Vel: 4.14042 fps
NET: +87x0.01m3
UP:79.8 DN:79.9 Q=80

08-07-17 09:07:18
Flow 37.3239 m3/h
Vel: 4.14156 fps
NET: +98x0.01m3
UP:79.8 DN:80.1 Q=57

08-07-17 09:07:28
Flow 36.814 m3/h
Vel: 4.08499 fps
NET: +108x0.01m3
UP:70.0 DN:80.1 Q=63

08-07-17 09:07:38
Flow 36.4414 m3/h
Vel: 4.04365 fps
NET: +118x0.01m3
UP:79.8 DN:79.9 Q=54

08-07-17 09:07:48
Flow 36.6127 m3/h
Vel: 4.06265 fps
NET: +128x0.01m3
UP:80.4 DN:80.5 Q=66

08-07-17 09:07:58
Flow 36.7709 m3/h
Vel: 4.08021 fps
NET: +138x0.01m3
UP:79.9 DN:70.0 Q=68

08-07-17 09:08:08
Flow 37.2296 m3/h
Vel: 4.13111 fps
NET: +149x0.01m3
UP:80.1 DN:80.2 Q=64

08-07-17 09:08:18
Flow 37.4588 m3/h
Vel: 4.15654 fps
NET: +159x0.01m3
UP:80.0 DN:70.0 Q=57

08-07-17 09:08:28
Flow 24.7529 m3/h
Vel: 2.74665 fps
NET: +168x0.01m3
UP:81.2 DN:81.2 Q=88

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:08:38
Flow 3.96682 m3/h
Vel: 0.44017 fps
NET: +169x0.01m3
UP:87.6 DN:87.6 Q=80

08-07-17 09:08:48
Flow 8.3627 m3/h
Vel: 0.92795 fps
NET: +171x0.01m3
UP:88.1 DN:88.2 Q=87

08-07-17 09:08:58
Flow 9.67141 m3/h
Vel: 1.07317 fps
NET: +174x0.01m3
UP:88.4 DN:88.4 Q=92

08-07-17 09:09:08
Flow 9.99297 m3/h
Vel: 1.10885 fps
NET: +177x0.01m3
UP:88.5 DN:88.6 Q=80

08-07-17 09:09:18
Flow 9.97713 m3/h
Vel: 1.10709 fps
NET: +179x0.01m3
UP:88.5 DN:88.7 Q=75

08-07-17 09:09:28
Flow 9.79722 m3/h
Vel: 1.08713 fps
NET: +182x0.01m3
UP:88.6 DN:88.6 Q=84

08-07-17 09:09:38
Flow 5.9363 m3/h
Vel: 0.658709 fps
NET: +184x0.01m3
UP:88.7 DN:88.6 Q=80

08-07-17 09:09:48
Flow 8.15747 m3/h
Vel: 0.905176 fps
NET: +186x0.01m3
UP:88.7 DN:88.7 Q=85

08-07-17 09:09:58
Flow 9.94909 m3/h
Vel: 1.10398 fps
NET: +189x0.01m3
UP:88.5 DN:88.7 Q=83

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:10:08
Flow 11.1279 m3/h
Vel: 1.23479 fps
NET: +192x0.01m3
UP:88.5 DN:88.6 Q=84

08-07-17 09:10:18
Flow 12.3119 m3/h
Vel: 1.36616 fps
NET: +195x0.01m3
UP:88.7 DN:88.7 Q=84

08-07-17 09:10:28
Flow 13.1764 m3/h
Vel: 1.46209 fps
NET: +199x0.01m3
UP:88.4 DN:88.5 Q=81

08-07-17 09:10:38
Flow 13.7578 m3/h
Vel: 1.52661 fps
NET: +202x0.01m3
UP:88.4 DN:88.5 Q=85

08-07-17 09:10:48
Flow 14.5164 m3/h
Vel: 1.61078 fps
NET: +206x0.01m3
UP:88.3 DN:88.5 Q=85

08-07-17 09:10:58
Flow 14.8484 m3/h
Vel: 1.64763 fps
NET: +210x0.01m3
UP:87.9 DN:87.9 Q=82

08-07-17 09:11:08
Flow 7.46824 m3/h
Vel: 0.828697 fps
NET: +213x0.01m3
UP:88.5 DN:88.5 Q=83

08-07-17 09:11:18
Flow 18.1956 m3/h
Vel: 2.01904 fps
NET: +217x0.01m3
UP:84.2 DN:84.3 Q=76

08-07-17 09:11:28
Flow 24.1381 m3/h
Vel: 2.67844 fps
NET: +223x0.01m3
UP:81.8 DN:81.9 Q=68

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:11:38
Flow 0 m3/h
Vel: 0 fps
NET: +227x0.01m3
UP:86.8 DN:86.9 Q=00

08-07-17 09:11:48
Flow 4.41566 m3/h
Vel: 0.489974 fps
NET: +227x0.01m3
UP:88.2 DN:88.1 Q=84

08-07-17 09:11:58
Flow 6.55299 m3/h
Vel: 0.727139 fps
NET: +229x0.01m3
UP:88.5 DN:88.5 Q=86

08-07-17 09:12:08
Flow 12.4542 m3/h
Vel: 1.38195 fps
NET: +231x0.01m3
UP:87.1 DN:87.2 Q=64

08-07-17 09:12:18
Flow 0 m3/h
Vel: 0 fps
NET: +233x0.01m3
UP:60.1 DN:69.5 Q=00

08-07-17 09:12:28
Flow 13.8775 m3/h
Vel: 1.53988 fps
NET: +234x0.01m3
UP:75.2 DN:75.1 Q=67

08-07-17 09:12:38
Flow 21.9319 m3/h
Vel: 2.43362 fps
NET: +240x0.01m3
UP:73.0 DN:72.9 Q=07

08-07-17 09:12:48
Flow 24.814 m3/h
Vel: 2.75343 fps
NET: +246x0.01m3
UP:72.0 DN:71.0 Q=48

08-07-17 09:12:58
Flow 27.4985 m3/h
Vel: 3.05132 fps
NET: +253x0.01m3
UP:73.4 DN:73.5 Q=44

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:13:08
Flow 0 m3/h
Vel: 0 fps
NET: +259x0.01m3
UP:79.5 DN:79.5 Q=00

08-07-17 09:13:18
Flow 20.2462 m3/h
Vel: 2.24658 fps
NET: +262x0.01m3
UP:79.8 DN:79.8 Q=66

08-07-17 09:13:28
Flow 29.0813 m3/h
Vel: 3.22695 fps
NET: +269x0.01m3
UP:80.5 DN:80.5 Q=63

08-07-17 09:13:38
Flow 15.6115 m3/h
Vel: 1.73229 fps
NET: +275x0.01m3
UP:80.3 DN:80.2 Q=58

08-07-17 09:13:48
Flow 0 m3/h
Vel: 0 fps
NET: +278x0.01m3
UP:86.5 DN:86.6 Q=00

08-07-17 09:13:58
Flow 13.3843 m3/h
Vel: 1.48516 fps
NET: +279x0.01m3
UP:84.6 DN:84.6 Q=63

08-07-17 09:14:08
Flow 10.8798 m3/h
Vel: 1.20726 fps
NET: +281x0.01m3
UP:79.6 DN:79.7 Q=63

08-07-17 09:14:18
Flow 0 m3/h
Vel: 0 fps
NET: +285x0.01m3
UP:74.2 DN:74.0 Q=00

08-07-17 09:14:28
Flow 7.73423 m3/h
Vel: 0.858212 fps
NET: +285x0.01m3
UP:80.6 DN:80.8 Q=69

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:14:38
Flow 24.7157 m3/h
Vel: 2.74253 fps
NET: +290x0.01m3
UP:80.9 DN:80.9 Q=61

08-07-17 09:14:48
Flow 32.0788 m3/h
Vel: 3.55955 fps
NET: +298x0.01m3
UP:80.9 DN:80.9 Q=68

08-07-17 09:14:58
Flow 35.3167 m3/h
Vel: 3.91884 fps
NET: +308x0.01m3
UP:80.9 DN:81.1 Q=72

08-07-17 09:15:08
Flow 36.4596 m3/h
Vel: 4.04566 fps
NET: +318x0.01m3
UP:80.6 DN:80.8 Q=56

08-07-17 09:15:18
Flow 36.5308 m3/h
Vel: 4.05357 fps
NET: +328x0.01m3
UP:80.6 DN:80.5 Q=73

08-07-17 09:15:28
Flow 36.2483 m3/h
Vel: 4.02221 fps
NET: +338x0.01m3
UP:79.9 DN:70.0 Q=62

08-07-17 09:15:38
Flow 36.934 m3/h
Vel: 4.0983 fps
NET: +348x0.01m3
UP:80.1 DN:80.1 Q=62

08-07-17 09:15:48
Flow 37.2705 m3/h
Vel: 4.13564 fps
NET: +358x0.01m3
UP:80.2 DN:80.4 Q=61

08-07-17 09:15:58
Flow 37.0248 m3/h
Vel: 4.10838 fps
NET: +369x0.01m3
UP:80.4 DN:80.4 Q=68

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:16:08
Flow 37.1898 m3/h
Vel: 4.12669 fps
NET: +379x0.01m3
UP:80.1 DN:80.1 Q=72

08-07-17 09:16:18
Flow 36.4179 m3/h
Vel: 4.04103 fps
NET: +389x0.01m3
UP:79.8 DN:79.8 Q=66

08-07-17 09:16:28
Flow 36.3987 m3/h
Vel: 4.03891 fps
NET: +399x0.01m3
UP:80.2 DN:80.3 Q=71

08-07-17 09:16:38
Flow 36.6283 m3/h
Vel: 4.06438 fps
NET: +410x0.01m3
UP:79.9 DN:70.0 Q=69

08-07-17 09:16:48
Flow 36.9751 m3/h
Vel: 4.10286 fps
NET: +420x0.01m3
UP:79.9 DN:80.2 Q=68

08-07-17 09:16:58
Flow 36.8697 m3/h
Vel: 4.09117 fps
NET: +430x0.01m3
UP:80.1 DN:80.2 Q=65

08-07-17 09:17:08
Flow 36.9034 m3/h
Vel: 4.09491 fps
NET: +440x0.01m3
UP:80.2 DN:80.5 Q=70

08-07-17 09:17:18
Flow 36.971 m3/h
Vel: 4.10241 fps
NET: +451x0.01m3
UP:80.1 DN:80.1 Q=66

08-07-17 09:17:28
Flow 37.1331 m3/h
Vel: 4.12039 fps
NET: +461x0.01m3
UP:70.0 DN:80.0 Q=74

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:17:38
Flow 37.6263 m3/h
Vel: 4.17512 fps
NET: +471x0.01m3
UP:80.2 DN:80.3 Q=70

08-07-17 09:17:48
Flow 36.9697 m3/h
Vel: 4.10226 fps
NET: +482x0.01m3
UP:79.8 DN:79.9 Q=68

08-07-17 09:17:58
Flow 37.2949 m3/h
Vel: 4.13835 fps
NET: +492x0.01m3
UP:70.0 DN:80.1 Q=65

08-07-17 09:18:08
Flow 36.719 m3/h
Vel: 4.07444 fps
NET: +502x0.01m3
UP:80.2 DN:80.5 Q=64

08-07-17 09:18:18
Flow 36.8732 m3/h
Vel: 4.09155 fps
NET: +512x0.01m3
UP:79.6 DN:79.8 Q=64

08-07-17 09:18:28
Flow 36.3411 m3/h
Vel: 4.03252 fps
NET: +523x0.01m3
UP:79.9 DN:70.0 Q=64

08-07-17 09:18:38
Flow 24.7507 m3/h
Vel: 2.74641 fps
NET: +532x0.01m3
UP:81.5 DN:81.5 Q=83

08-07-17 09:18:48
Flow 3.76092 m3/h
Vel: 0.417323 fps
NET: +533x0.01m3
UP:87.3 DN:87.5 Q=79

08-07-17 09:18:58
Flow 8.23256 m3/h
Vel: 0.913509 fps
NET: +535x0.01m3
UP:88.1 DN:88.2 Q=90

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:19:08
Flow 9.75304 m3/h
Vel: 1.08223 fps
NET: +537x0.01m3
UP:88.5 DN:88.6 Q=76

08-07-17 09:19:18
Flow 10.1384 m3/h
Vel: 1.12499 fps
NET: +540x0.01m3
UP:88.6 DN:88.7 Q=87

Flow 10.0832 m3/h
Vel: 1.11887 fps
NET: +543x0.01m3
UP:88.6 DN:88.6 Q=83

08-07-17 09:19:38
Flow 9.97596 m3/h
Vel: 1.10696 fps
NET: +546x0.01m3
UP:88.7 DN:88.8 Q=86

08-07-17 09:19:48
Flow 6.01962 m3/h
Vel: 0.667954 fps
NET: +548x0.01m3
UP:88.7 DN:88.7 Q=86

08-07-17 09:19:58
Flow 8.08648 m3/h
Vel: 0.8973 fps
NET: +550x0.01m3
UP:88.6 DN:88.7 Q=85

08-07-17 09:23:08
Flow 32.3339 m3/h
Vel: 3.58787 fps
NET: +619x0.01m3
UP:74.1 DN:74.2 Q=04

08-07-17 09:23:18
Flow 0 m3/h
Vel: 0 fps
NET: +625x0.01m3
UP:79.1 DN:79.3 Q=00

08-07-17 09:23:28
Flow 21.9171 m3/h
Vel: 2.43199 fps
NET: +628x0.01m3
UP:80.2 DN:80.4 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:23:38
Flow 30.6039 m3/h
Vel: 3.3959 fps
NET: +636x0.01m3
UP:80.9 DN:81.0 Q=79

08-07-17 09:23:48
Flow 16.4626 m3/h
Vel: 1.82673 fps
NET: +642x0.01m3
UP:81.1 DN:81.2 Q=58

08-07-17 09:23:58
Flow 0 m3/h
Vel: 0 fps
NET: +645x0.01m3
UP:86.4 DN:86.5 Q=00

08-07-17 09:24:08
Flow 12.5603 m3/h
Vel: 1.39372 fps
NET: +646x0.01m3
UP:85.3 DN:85.3 Q=52

08-07-17 09:24:18
Flow 11.6818 m3/h
Vel: 1.29624 fps
NET: +648x0.01m3
UP:80.1 DN:80.2 Q=75

08-07-17 09:24:28
Flow 0 m3/h
Vel: 0 fps
NET: +653x0.01m3
UP:75.2 DN:75.4 Q=00

08-07-17 09:24:38
Flow 9.56436 m3/h
Vel: 1.06129 fps
NET: +654x0.01m3
UP:80.9 DN:80.9 Q=78

08-07-17 09:24:48
Flow 26.4636 m3/h
Vel: 2.93647 fps
NET: +660x0.01m3
UP:81.2 DN:81.2 Q=72

08-07-17 09:24:58
Flow 32.6491 m3/h
Vel: 3.62284 fps
NET: +668x0.01m3
UP:81.1 DN:81.2 Q=77

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:25:08
Flow 34.7786 m3/h
Vel: 3.85913 fps
NET: +678x0.01m3
UP:81.4 DN:81.4 Q=80

08-07-17 09:25:18
Flow 35.6093 m3/h
Vel: 3.95131 fps
NET: +688x0.01m3
UP:80.2 DN:80.2 Q=70

08-07-17 09:25:28
Flow 36.0192 m3/h
Vel: 3.99679 fps
NET: +697x0.01m3
UP:80.0 DN:81.0 Q=66

08-07-17 09:25:38
Flow 35.7088 m3/h
Vel: 3.96235 fps
NET: +707x0.01m3
UP:80.1 DN:80.1 Q=62

08-07-17 09:25:48
Flow 36.073 m3/h
Vel: 4.00276 fps
NET: +717x0.01m3
UP:80.2 DN:80.2 Q=73

08-07-17 09:25:58
Flow 36.7474 m3/h
Vel: 4.0776 fps
NET: +727x0.01m3
UP:80.4 DN:80.5 Q=71

08-07-17 09:26:08
Flow 36.9359 m3/h
Vel: 4.09851 fps
NET: +738x0.01m3
UP:70.0 DN:70.0 Q=58

08-07-17 09:26:18
Flow 36.9829 m3/h
Vel: 4.10372 fps
NET: +748x0.01m3
UP:79.6 DN:79.6 Q=74

08-07-17 09:26:28
Flow 36.9955 m3/h
Vel: 4.10513 fps
NET: +758x0.01m3
UP:79.8 DN:79.9 Q=76

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:26:38
Flow 37.3456 m3/h
Vel: 4.14397 fps
NET: +768x0.01m3
UP:80.2 DN:80.2 Q=62

08-07-17 09:26:48
Flow 37.4193 m3/h
Vel: 4.15215 fps
NET: +779x0.01m3
UP:70.0 DN:80.1 Q=58

08-07-17 09:26:58
Flow 37.2085 m3/h
Vel: 4.12876 fps
NET: +789x0.01m3
UP:80.4 DN:80.5 Q=71

08-07-17 09:27:08
Flow 37.1128 m3/h
Vel: 4.11814 fps
NET: +800x0.01m3
UP:79.8 DN:70.0 Q=73

08-07-17 09:27:18
Flow 36.9753 m3/h
Vel: 4.10289 fps
NET: +810x0.01m3
UP:80.1 DN:80.2 Q=74

08-07-17 09:27:28
Flow 36.7193 m3/h
Vel: 4.07448 fps
NET: +820x0.01m3
UP:80.3 DN:80.3 Q=67

08-07-17 09:27:38
Flow 36.6783 m3/h
Vel: 4.06993 fps
NET: +830x0.01m3
UP:79.6 DN:79.8 Q=64

08-07-17 09:27:48
Flow 37.4698 m3/h
Vel: 4.15776 fps
NET: +841x0.01m3
UP:80.0 DN:80.1 Q=73

08-07-17 09:27:58
Flow 37.4208 m3/h
Vel: 4.15232 fps
NET: +851x0.01m3
UP:80.0 DN:80.1 Q=65

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:28:08
Flow 37.4735 m3/h
Vel: 4.15817 fps
NET: +861x0.01m3
UP:70.0 DN:70.0 Q=71

08-07-17 09:28:18
Flow 37.1944 m3/h
Vel: 4.1272 fps
NET: +872x0.01m3
UP:79.8 DN:70.0 Q=57

08-07-17 09:28:28
Flow 37.6962 m3/h
Vel: 4.18288 fps
NET: +882x0.01m3
UP:80.1 DN:80.2 Q=48

08-07-17 09:28:38
Flow 37.0753 m3/h
Vel: 4.11398 fps
NET: +892x0.01m3
UP:80.3 DN:80.5 Q=58

08-07-17 09:28:48
Flow 25.8921 m3/h
Vel: 2.87306 fps
NET: +902x0.01m3
UP:81.5 DN:81.7 Q=90

08-07-17 09:28:58
Flow 10.5578 m3/h
Vel: 1.17152 fps
NET: +905x0.01m3
UP:87.7 DN:87.8 Q=82

08-07-17 09:29:08
Flow 10.7676 m3/h
Vel: 1.1948 fps
NET: +908x0.01m3
UP:88.1 DN:88.3 Q=84

08-07-17 09:29:18
Flow 10.6478 m3/h
Vel: 1.18151 fps
NET: +911x0.01m3
UP:88.5 DN:88.6 Q=91

08-07-17 09:29:28
Flow 10.5018 m3/h
Vel: 1.16531 fps
NET: +914x0.01m3
UP:88.6 DN:88.7 Q=84

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:29:38
Flow 10.4042 m3/h
Vel: 1.15448 fps
NET: +917x0.01m3
UP:88.7 DN:88.7 Q=86

08-07-17 09:29:48
Flow 10.3278 m3/h
Vel: 1.146 fps
NET: +919x0.01m3
UP:88.7 DN:88.7 Q=85

08-07-17 09:29:58
Flow 6.22872 m3/h
Vel: 0.691157 fps
NET: +922x0.01m3
UP:88.6 DN:88.8 Q=85

08-07-17 09:30:08
Flow 8.09008 m3/h
Vel: 0.897698 fps
NET: +924x0.01m3
UP:88.9 DN:88.8 Q=78

08-07-17 09:30:18
Flow 9.89802 m3/h
Vel: 1.09831 fps
NET: +926x0.01m3
UP:88.7 DN:88.8 Q=84

08-07-17 09:30:28
Flow 10.9742 m3/h
Vel: 1.21773 fps
NET: +929x0.01m3
UP:88.6 DN:88.6 Q=83

08-07-17 09:30:38
Flow 12.1977 m3/h
Vel: 1.35349 fps
NET: +932x0.01m3
UP:88.6 DN:88.7 Q=83

08-07-17 09:30:48
Flow 13.3417 m3/h
Vel: 1.48044 fps
NET: +936x0.01m3
UP:88.4 DN:88.4 Q=87

08-07-17 09:30:58
Flow 13.6166 m3/h
Vel: 1.51093 fps
NET: +940x0.01m3
UP:88.5 DN:88.6 Q=78

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:31:08
Flow 14.2199 m3/h
Vel: 1.57789 fps
NET: +944x0.01m3
UP:88.4 DN:88.4 Q=90

08-07-17 09:31:18
Flow 15.0746 m3/h
Vel: 1.67272 fps
NET: +948x0.01m3
UP:88.2 DN:88.3 Q=91

08-07-17 09:31:28
Flow 7.47042 m3/h
Vel: 0.828939 fps
NET: +951x0.01m3
UP:88.6 DN:88.6 Q=84

08-07-17 09:31:38
Flow 17.3373 m3/h
Vel: 1.92379 fps
NET: +954x0.01m3
UP:84.9 DN:85.0 Q=80

08-07-17 09:31:48
Flow 23.3756 m3/h
Vel: 2.59382 fps
NET: +960x0.01m3
UP:81.7 DN:81.9 Q=59

08-07-17 09:31:58
Flow 0 m3/h
Vel: 0 fps
NET: +965x0.01m3
UP:86.9 DN:86.9 Q=00

08-07-17 09:32:08
Flow 4.17835 m3/h
Vel: 0.463642 fps
NET: +965x0.01m3
UP:88.3 DN:88.3 Q=84

08-07-17 09:32:18
Flow 6.40958 m3/h
Vel: 0.711226 fps
NET: +967x0.01m3
UP:88.5 DN:88.5 Q=82

08-07-17 09:32:28
Flow 12.4549 m3/h
Vel: 1.38204 fps
NET: +969x0.01m3
UP:86.0 DN:87.0 Q=62

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:32:38
Flow 5.4557 m3/h
Vel: 0.605381 fps
NET: +970x0.01m3
UP:74.9 DN:75.1 Q=33

08-07-17 09:32:48
Flow 31.6775 m3/h
Vel: 3.51502 fps
NET: +976x0.01m3
UP:75.0 DN:75.1 Q=48

08-07-17 09:32:58
Flow 31.8828 m3/h
Vel: 3.53781 fps
NET: +985x0.01m3
UP:72.7 DN:72.8 Q=36

08-07-17 09:33:08
Flow 32.2087 m3/h
Vel: 3.57397 fps
NET: +993x0.01m3
UP:72.3 DN:72.5 Q=42

08-07-17 09:33:18
Flow 31.2073 m3/h
Vel: 3.46285 fps
NET: +1002x0.01m3
UP:72.6 DN:72.9 Q=16

08-07-17 09:33:28
Flow 0 m3/h
Vel: 0 fps
NET: +1008x0.01m3
UP:79.9 DN:79.9 Q=00

08-07-17 09:33:38
Flow 20.7746 m3/h
Vel: 2.30521 fps
NET: +1012x0.01m3
UP:80.4 DN:80.5 Q=80

08-07-17 09:33:48
Flow 30.0824 m3/h
Vel: 3.33803 fps
NET: +1019x0.01m3
UP:80.3 DN:80.4 Q=63

08-07-17 09:33:58
Flow 22.6465 m3/h
Vel: 2.51292 fps
NET: +1025x0.01m3
UP:81.4 DN:81.4 Q=47

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:34:08
Flow 0 m3/h
Vel: 0 fps
NET: +1030x0.01m3
UP:86.8 DN:86.0 Q=00

08-07-17 09:34:18
Flow 12.186 m3/h
Vel: 1.35219 fps
NET: +1031x0.01m3
UP:85.3 DN:85.3 Q=69

08-07-17 09:34:28
Flow 13.0455 m3/h
Vel: 1.44757 fps
NET: +1033x0.01m3
UP:79.7 DN:70.0 Q=68

08-07-17 09:34:38
Flow 0 m3/h
Vel: 0 fps
NET: +1038x0.01m3
UP:74.0 DN:74.3 Q=00

08-07-17 09:34:48
Flow 4.85693 m3/h
Vel: 0.538939 fps
NET: +1038x0.01m3
UP:80.7 DN:80.8 Q=80

08-07-17 09:34:58
Flow 24.3523 m3/h
Vel: 2.7022 fps
NET: +1043x0.01m3
UP:81.1 DN:81.1 Q=63

08-07-17 09:35:08
Flow 31.7415 m3/h
Vel: 3.52212 fps
NET: +1051x0.01m3
UP:81.1 DN:81.2 Q=85

08-07-17 09:35:18
Flow 34.8318 m3/h
Vel: 3.86504 fps
NET: +1060x0.01m3
UP:80.8 DN:80.9 Q=64

08-07-17 09:35:28
Flow 35.558 m3/h
Vel: 3.94562 fps
NET: +1070x0.01m3
UP:79.6 DN:79.7 Q=58

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:35:38
Flow 36.1788 m3/h
Vel: 4.0145 fps
NET: +1080x0.01m3
UP:80.7 DN:80.7 Q=64

08-07-17 09:35:48
Flow 36.8857 m3/h
Vel: 4.09295 fps
NET: +1090x0.01m3
UP:80.8 DN:80.8 Q=76

08-07-17 09:35:58
Flow 36.6608 m3/h
Vel: 4.06799 fps
NET: +1100x0.01m3
UP:80.6 DN:80.7 Q=68

08-07-17 09:36:08
Flow 36.6762 m3/h
Vel: 4.06969 fps
NET: +1110x0.01m3
UP:80.2 DN:80.5 Q=53

08-07-17 09:36:18
Flow 36.9339 m3/h
Vel: 4.0983 fps
NET: +1121x0.01m3
UP:80.4 DN:80.5 Q=74

08-07-17 09:36:28
Flow 36.3904 m3/h
Vel: 4.03798 fps
NET: +1131x0.01m3
UP:80.3 DN:80.5 Q=70

08-07-17 09:36:38
Flow 36.0714 m3/h
Vel: 4.00259 fps
NET: +1141x0.01m3
UP:80.6 DN:80.6 Q=72

08-07-17 09:36:48
Flow 36.518 m3/h
Vel: 4.05214 fps
NET: +1151x0.01m3
UP:80.4 DN:80.7 Q=75

08-07-17 09:36:58
Flow 36.9466 m3/h
Vel: 4.0997 fps
NET: +1161x0.01m3
UP:80.5 DN:80.5 Q=66

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:37:08
Flow 37.341 m3/h
Vel: 4.14347 fps
NET: +1172x0.01m3
UP:80.2 DN:80.3 Q=58

08-07-17 09:37:18
Flow 36.6929 m3/h
Vel: 4.07155 fps
NET: +1182x0.01m3
UP:80.5 DN:80.6 Q=62

08-07-17 09:37:28
Flow 37.175 m3/h
Vel: 4.12505 fps
NET: +1192x0.01m3
UP:79.7 DN:79.8 Q=52

08-07-17 09:37:38
Flow 37.1728 m3/h
Vel: 4.1248 fps
NET: +1202x0.01m3
UP:79.8 DN:80.0 Q=63

08-07-17 09:37:48
Flow 36.7577 m3/h
Vel: 4.07874 fps
NET: +1213x0.01m3
UP:79.6 DN:79.7 Q=71

08-07-17 09:37:58
Flow 37.2623 m3/h
Vel: 4.13473 fps
NET: +1223x0.01m3
UP:80.4 DN:80.4 Q=64

08-07-17 09:38:08
Flow 36.6198 m3/h
Vel: 4.06344 fps
NET: +1233x0.01m3
UP:80.3 DN:80.3 Q=75

08-07-17 09:38:18
Flow 37.1579 m3/h
Vel: 4.12315 fps
NET: +1244x0.01m3
UP:80.1 DN:80.2 Q=65

08-07-17 09:38:28
Flow 37.0689 m3/h
Vel: 4.11327 fps
NET: +1254x0.01m3
UP:80.4 DN:80.5 Q=61

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:38:38
Flow 36.6055 m3/h
Vel: 4.06185 fps
NET: +1264x0.01m3
UP:80.7 DN:81.0 Q=76

08-07-17 09:38:48
Flow 36.7793 m3/h
Vel: 4.08113 fps
NET: +1274x0.01m3
UP:80.1 DN:80.1 Q=66

08-07-17 09:38:58
Flow 26.3565 m3/h
Vel: 2.9246 fps
NET: +1284x0.01m3
UP:80.8 DN:80.9 Q=85

08-07-17 09:39:08
Flow 3.23827 m3/h
Vel: 0.359328 fps
NET: +1286x0.01m3
UP:88.0 DN:87.9 Q=79

08-07-17 09:39:18
Flow 8.00405 m3/h
Vel: 0.888153 fps
NET: +1287x0.01m3
UP:88.2 DN:88.3 Q=84

08-07-17 09:39:28
Flow 9.4231 m3/h
Vel: 1.04561 fps
NET: +1290x0.01m3
UP:88.6 DN:88.6 Q=83

08-07-17 09:39:38
Flow 9.56382 m3/h
Vel: 1.06123 fps
NET: +1292x0.01m3
UP:88.6 DN:88.7 Q=87

08-07-17 09:39:48
Flow 9.78919 m3/h
Vel: 1.08624 fps
NET: +1295x0.01m3
UP:88.7 DN:88.7 Q=78

08-07-17 09:39:58
Flow 9.86015 m3/h
Vel: 1.09411 fps
NET: +1298x0.01m3
UP:88.7 DN:88.8 Q=80

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:40:08
Flow 6.08863 m3/h
Vel: 0.675612 fps
NET: +1300x0.01m3
UP:88.7 DN:88.8 Q=83

08-07-17 09:40:18
Flow 7.67146 m3/h
Vel: 0.851248 fps
NET: +1302x0.01m3
UP:88.8 DN:88.8 Q=85

08-07-17 09:40:28
Flow 9.70215 m3/h
Vel: 1.07658 fps
NET: +1304x0.01m3
UP:88.7 DN:88.8 Q=80

08-07-17 09:40:38
Flow 10.9632 m3/h
Vel: 1.21651 fps
NET: +1307x0.01m3
UP:88.6 DN:88.6 Q=84

08-07-17 09:40:48
Flow 12.1248 m3/h
Vel: 1.3454 fps
NET: +1311x0.01m3
UP:88.6 DN:88.7 Q=78

08-07-17 09:40:58
Flow 12.9238 m3/h
Vel: 1.43406 fps
NET: +1314x0.01m3
UP:88.5 DN:88.5 Q=84

08-07-17 09:41:08
Flow 13.8875 m3/h
Vel: 1.541 fps
NET: +1318x0.01m3
UP:88.5 DN:88.5 Q=84

08-07-17 09:41:18
Flow 14.6218 m3/h
Vel: 1.62247 fps
NET: +1322x0.01m3
UP:88.4 DN:88.4 Q=78

08-07-17 09:41:28
Flow 15.0634 m3/h
Vel: 1.67148 fps
NET: +1326x0.01m3
UP:87.9 DN:87.9 Q=84

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:41:38
Flow 7.57792 m3/h
Vel: 0.840868 fps
NET: +1329x0.01m3
UP:88.5 DN:88.4 Q=84

08-07-17 09:41:48
Flow 17.8084 m3/h
Vel: 1.97607 fps
NET: +1332x0.01m3
UP:85.2 DN:85.2 Q=83

08-07-17 09:41:58
Flow 23.4482 m3/h
Vel: 2.60188 fps
NET: +1338x0.01m3
UP:82.3 DN:82.3 Q=64

08-07-17 09:42:08
Flow 15.4411 m3/h
Vel: 1.71339 fps
NET: +1344x0.01m3
UP:85.0 DN:85.1 Q=82

08-07-17 09:42:18
Flow 0 m3/h
Vel: 0 fps
NET: +1347x0.01m3
UP:88.2 DN:88.3 Q=00

08-07-17 09:42:28
Flow 4.22398 m3/h
Vel: 0.468705 fps
NET: +1347x0.01m3
UP:88.6 DN:88.6 Q=82

08-07-17 09:42:38
Flow 8.38863 m3/h
Vel: 0.930827 fps
NET: +1349x0.01m3
UP:88.5 DN:88.4 Q=80

08-07-17 09:42:48
Flow 0 m3/h
Vel: 0 fps
NET: +1350x0.01m3
UP:81.7 DN:81.8 Q=52

08-07-17 09:42:58
Flow 29.2163 m3/h
Vel: 3.24192 fps
NET: +1354x0.01m3
UP:73.3 DN:73.4 Q=57

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:43:08
Flow 29.4861 m3/h
Vel: 3.27187 fps
NET: +1363x0.01m3
UP:73.1 DN:73.1 Q=55

08-07-17 09:43:18
Flow 30.8198 m3/h
Vel: 3.41985 fps
NET: +1371x0.01m3
UP:73.2 DN:73.2 Q=01

08-07-17 09:43:28
Flow 31.8907 m3/h
Vel: 3.53868 fps
NET: +1380x0.01m3
UP:74.2 DN:74.2 Q=06

08-07-17 09:43:38
Flow 33.2613 m3/h
Vel: 3.69077 fps
NET: +1389x0.01m3
UP:77.3 DN:77.6 Q=67

08-07-17 09:43:48
Flow 33.8854 m3/h
Vel: 3.76002 fps
NET: +1398x0.01m3
UP:79.9 DN:80.1 Q=73

08-07-17 09:43:58
Flow 34.7958 m3/h
Vel: 3.86104 fps
NET: +1408x0.01m3
UP:80.7 DN:80.8 Q=62

08-07-17 09:44:08
Flow 18.1665 m3/h
Vel: 2.0158 fps
NET: +1415x0.01m3
UP:81.4 DN:81.5 Q=66

08-07-17 09:44:18
Flow 8.97694 m3/h
Vel: 0.996108 fps
NET: +1418x0.01m3
UP:85.3 DN:85.5 Q=71

08-07-17 09:44:28
Flow 23.1736 m3/h
Vel: 2.57141 fps
NET: +1423x0.01m3
UP:82.8 DN:83.0 Q=71

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:44:38
Flow 31.13 m3/h
Vel: 3.45428 fps
NET: +1431x0.01m3
UP:82.5 DN:82.6 Q=73

08-07-17 09:44:48
Flow 33.438 m3/h
Vel: 3.71038 fps
NET: +1440x0.01m3
UP:80.9 DN:80.0 Q=59

08-07-17 09:44:58
Flow 35.045 m3/h
Vel: 3.88869 fps
NET: +1449x0.01m3
UP:81.4 DN:81.6 Q=73

08-07-17 09:45:08
Flow 36.1454 m3/h
Vel: 4.0108 fps
NET: +1459x0.01m3
UP:81.0 DN:81.1 Q=73

08-07-17 09:45:18
Flow 36.3844 m3/h
Vel: 4.03732 fps
NET: +1469x0.01m3
UP:80.8 DN:80.0 Q=60

08-07-17 09:45:28
Flow 36.348 m3/h
Vel: 4.03328 fps
NET: +1479x0.01m3
UP:81.1 DN:81.2 Q=75

08-07-17 09:45:38
Flow 36.3171 m3/h
Vel: 4.02985 fps
NET: +1489x0.01m3
UP:80.7 DN:80.8 Q=72

08-07-17 09:45:48
Flow 36.7582 m3/h
Vel: 4.0788 fps
NET: +1500x0.01m3
UP:80.8 DN:80.7 Q=69

08-07-17 09:45:58
Flow 36.7592 m3/h
Vel: 4.0789 fps
NET: +1510x0.01m3
UP:80.7 DN:80.9 Q=71

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:46:08
Flow 36.9727 m3/h
Vel: 4.10259 fps
NET: +1520x0.01m3
UP:80.5 DN:80.5 Q=81

08-07-17 09:46:18
Flow 36.473 m3/h
Vel: 4.04715 fps
NET: +1530x0.01m3
UP:80.9 DN:80.9 Q=68

08-07-17 09:46:28
Flow 36.6498 m3/h
Vel: 4.06677 fps
NET: +1540x0.01m3
UP:80.2 DN:80.3 Q=70

08-07-17 09:46:38
Flow 37.111 m3/h
Vel: 4.11795 fps
NET: +1551x0.01m3
UP:80.4 DN:80.4 Q=64

08-07-17 09:46:48
Flow 36.1201 m3/h
Vel: 4.00799 fps
NET: +1561x0.01m3
UP:80.4 DN:80.6 Q=67

08-07-17 09:46:58
Flow 36.7982 m3/h
Vel: 4.08324 fps
NET: +1571x0.01m3
UP:80.7 DN:80.8 Q=69

08-07-17 09:47:08
Flow 37.0075 m3/h
Vel: 4.10646 fps
NET: +1581x0.01m3
UP:80.4 DN:80.5 Q=68

08-07-17 09:47:18
Flow 37.0146 m3/h
Vel: 4.10724 fps
NET: +1591x0.01m3
UP:80.4 DN:80.5 Q=70

08-07-17 09:47:28
Flow 36.7774 m3/h
Vel: 4.08093 fps
NET: +1602x0.01m3
UP:80.5 DN:80.6 Q=76

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:47:38
Flow 36.5794 m3/h
Vel: 4.05895 fps
NET: +1612x0.01m3
UP:80.4 DN:80.6 Q=66

08-07-17 09:47:48
Flow 36.7888 m3/h
Vel: 4.08219 fps
NET: +1622x0.01m3
UP:80.9 DN:81.0 Q=68

08-07-17 09:47:58
Flow 36.9314 m3/h
Vel: 4.09802 fps
NET: +1632x0.01m3
UP:80.4 DN:80.5 Q=48

08-07-17 09:48:08
Flow 37.2066 m3/h
Vel: 4.12856 fps
NET: +1643x0.01m3
UP:70.0 DN:80.1 Q=57

08-07-17 09:48:18
Flow 36.3838 m3/h
Vel: 4.03725 fps
NET: +1653x0.01m3
UP:80.7 DN:80.9 Q=61

08-07-17 09:48:28
Flow 36.3992 m3/h
Vel: 4.03896 fps
NET: +1663x0.01m3
UP:80.4 DN:80.5 Q=67

08-07-17 09:48:38
Flow 36.986 m3/h
Vel: 4.10407 fps
NET: +1673x0.01m3
UP:80.5 DN:80.5 Q=61

08-07-17 09:48:48
Flow 36.7428 m3/h
Vel: 4.07709 fps
NET: +1683x0.01m3
UP:80.6 DN:80.8 Q=80

08-07-17 09:48:58
Flow 36.7957 m3/h
Vel: 4.08295 fps
NET: +1694x0.01m3
UP:80.6 DN:80.7 Q=72

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:49:08
Flow 26.4598 m3/h
Vel: 2.93606 fps
NET: +1703x0.01m3
UP:80.8 DN:80.8 Q=88

08-07-17 09:49:18
Flow 10.7474 m3/h
Vel: 1.19257 fps
NET: +1706x0.01m3
UP:87.7 DN:87.8 Q=85

08-07-17 09:49:28
Flow 10.5888 m3/h
Vel: 1.17496 fps
NET: +1709x0.01m3
UP:88.3 DN:88.4 Q=82

08-07-17 09:49:38
Flow 10.1415 m3/h
Vel: 1.12533 fps
NET: +1712x0.01m3
UP:88.7 DN:88.6 Q=90

08-07-17 09:49:48
Flow 10.0186 m3/h
Vel: 1.11169 fps
NET: +1715x0.01m3
UP:88.8 DN:88.8 Q=81

08-07-17 09:49:58
Flow 10.0101 m3/h
Vel: 1.11075 fps
NET: +1718x0.01m3
UP:88.7 DN:88.9 Q=83

08-07-17 09:50:08
Flow 9.89467 m3/h
Vel: 1.09794 fps
NET: +1720x0.01m3
UP:88.8 DN:88.8 Q=84

08-07-17 09:50:18
Flow 6.38849 m3/h
Vel: 0.708885 fps
NET: +1723x0.01m3
UP:88.8 DN:88.7 Q=80

08-07-17 09:50:48
Flow 10.7849 m3/h
Vel: 1.19672 fps
NET: +1730x0.01m3
UP:88.8 DN:88.8 Q=77

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:50:58
Flow 11.8174 m3/h
Vel: 1.31129 fps
NET: +1733x0.01m3
UP:88.7 DN:88.7 Q=78

08-07-17 09:51:08
Flow 12.8068 m3/h
Vel: 1.42108 fps
NET: +1736x0.01m3
UP:88.6 DN:88.6 Q=84

08-07-17 09:51:18
Flow 13.4264 m3/h
Vel: 1.48983 fps
NET: +1740x0.01m3
UP:88.6 DN:88.7 Q=84

08-07-17 09:51:28
Flow 14.4737 m3/h
Vel: 1.60605 fps
NET: +1744x0.01m3
UP:88.1 DN:88.2 Q=70

08-07-17 09:51:38
Flow 15.1505 m3/h
Vel: 1.68114 fps
NET: +1748x0.01m3
UP:87.7 DN:87.8 Q=84

08-07-17 09:51:48
Flow 7.85168 m3/h
Vel: 0.871245 fps
NET: +1751x0.01m3
UP:88.6 DN:88.6 Q=80

08-07-17 09:51:58
Flow 17.1971 m3/h
Vel: 1.90824 fps
NET: +1755x0.01m3
UP:86.0 DN:86.0 Q=76

08-07-17 09:52:08
Flow 23.2979 m3/h
Vel: 2.5852 fps
NET: +1760x0.01m3
UP:83.3 DN:83.3 Q=82

08-07-17 09:52:18
Flow 0 m3/h
Vel: 0 fps
NET: +1766x0.01m3
UP:86.3 DN:86.4 Q=00

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:52:28
Flow 3.37918 m3/h
Vel: 0.374964 fps
NET: +1766x0.01m3
UP:87.9 DN:88.0 Q=86

08-07-17 09:52:38
Flow 5.74862 m3/h
Vel: 0.637884 fps
NET: +1768x0.01m3
UP:88.5 DN:88.6 Q=81

08-07-17 09:52:48
Flow 6.91551 m3/h
Vel: 0.767365 fps
NET: +1769x0.01m3
UP:88.6 DN:88.6 Q=87

08-07-17 09:52:58
Flow 0 m3/h
Vel: 0 fps
NET: +1772x0.01m3
UP:82.9 DN:82.8 Q=00

08-07-17 09:53:08
Flow 0 m3/h
Vel: 0 fps
NET: +1772x0.01m3
UP:71.8 DN:71.7 Q=07

08-07-17 09:53:18
Flow 17.2407 m3/h
Vel: 1.91308 fps
NET: +1775x0.01m3
UP:73.2 DN:73.1 Q=36

08-07-17 09:53:28
Flow 25.2657 m3/h
Vel: 2.80355 fps
NET: +1781x0.01m3
UP:75.0 DN:75.0 Q=68

08-07-17 09:53:38
Flow 29.4531 m3/h
Vel: 3.2682 fps
NET: +1789x0.01m3
UP:76.4 DN:76.5 Q=72

08-07-17 09:53:48
Flow 32.0406 m3/h
Vel: 3.55532 fps
NET: +1797x0.01m3
UP:76.1 DN:76.2 Q=48

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:53:58
Flow 33.5129 m3/h
Vel: 3.71869 fps
NET: +1807x0.01m3
UP:70.0 DN:80.2 Q=62

08-07-17 09:54:08
Flow 34.5904 m3/h
Vel: 3.83825 fps
NET: +1816x0.01m3
UP:80.2 DN:80.2 Q=78

08-07-17 09:54:18
Flow 17.727 m3/h
Vel: 1.96703 fps
NET: +1823x0.01m3
UP:82.1 DN:82.3 Q=77

08-07-17 09:54:28
Flow 11.2327 m3/h
Vel: 1.24641 fps
NET: +1828x0.01m3
UP:83.6 DN:83.9 Q=85

08-07-17 09:54:38
Flow 14.252 m3/h
Vel: 1.58144 fps
NET: +1829x0.01m3
UP:81.0 DN:81.3 Q=00

08-07-17 09:54:48
Flow 16.1286 m3/h
Vel: 1.78967 fps
NET: +1831x0.01m3
UP:80.4 DN:80.6 Q=83

08-07-17 09:54:58
Flow 0 m3/h
Vel: 0 fps
NET: +1832x0.01m3
UP:78.4 DN:78.6 Q=00

08-07-17 09:55:08
Flow 18.5727 m3/h
Vel: 2.06088 fps
NET: +1835x0.01m3
UP:80.6 DN:80.7 Q=74

08-07-17 09:55:18
Flow 29.9174 m3/h
Vel: 3.31972 fps
NET: +1842x0.01m3
UP:81.2 DN:81.3 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:55:28
Flow 33.8373 m3/h
Vel: 3.75468 fps
NET: +1851x0.01m3
UP:81.7 DN:81.7 Q=57

08-07-17 09:55:38
Flow 35.2068 m3/h
Vel: 3.90665 fps
NET: +1860x0.01m3
UP:81.2 DN:81.4 Q=64

08-07-17 09:55:48
Flow 35.6517 m3/h
Vel: 3.95602 fps
NET: +1870x0.01m3
UP:81.0 DN:81.1 Q=52

08-07-17 09:55:58
Flow 36.0581 m3/h
Vel: 4.00111 fps
NET: +1880x0.01m3
UP:80.9 DN:81.2 Q=56

08-07-17 09:56:08
Flow 36.3164 m3/h
Vel: 4.02978 fps
NET: +1890x0.01m3
UP:80.7 DN:80.8 Q=50

08-07-17 09:56:18
Flow 36.4131 m3/h
Vel: 4.0405 fps
NET: +1900x0.01m3
UP:80.9 DN:81.1 Q=58

08-07-17 09:56:28
Flow 36.7134 m3/h
Vel: 4.07382 fps
NET: +1911x0.01m3
UP:80.4 DN:80.5 Q=63

08-07-17 09:56:38
Flow 36.2619 m3/h
Vel: 4.02373 fps
NET: +1921x0.01m3
UP:80.5 DN:80.5 Q=63

08-07-17 09:56:48
Flow 36.9311 m3/h
Vel: 4.09798 fps
NET: +1931x0.01m3
UP:80.2 DN:80.3 Q=54

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:56:58
Flow 36.8656 m3/h
Vel: 4.09071 fps
NET: +1941x0.01m3
UP:80.5 DN:80.6 Q=70

08-07-17 09:57:08
Flow 36.7325 m3/h
Vel: 4.07595 fps
NET: +1951x0.01m3
UP:79.9 DN:80.1 Q=58

08-07-17 09:57:18
Flow 36.8881 m3/h
Vel: 4.09321 fps
NET: +1961x0.01m3
UP:80.4 DN:80.4 Q=60

08-07-17 09:57:28
Flow 37.0458 m3/h
Vel: 4.11071 fps
NET: +1972x0.01m3
UP:80.1 DN:80.1 Q=78

08-07-17 09:57:38
Flow 36.4536 m3/h
Vel: 4.045 fps
NET: +1982x0.01m3
UP:80.7 DN:80.7 Q=64

08-07-17 09:57:48
Flow 36.7542 m3/h
Vel: 4.07835 fps
NET: +1992x0.01m3
UP:80.4 DN:80.4 Q=68

08-07-17 09:57:58
Flow 36.989 m3/h
Vel: 4.10441 fps
NET: +2002x0.01m3
UP:80.6 DN:80.6 Q=66

08-07-17 09:58:08
Flow 36.5798 m3/h
Vel: 4.059 fps
NET: +2013x0.01m3
UP:81.0 DN:81.0 Q=67

08-07-17 09:58:18
Flow 37.0868 m3/h
Vel: 4.11525 fps
NET: +2023x0.01m3
UP:80.1 DN:80.2 Q=61

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:58:28
Flow 36.5479 m3/h
Vel: 4.05546 fps
NET: +2033x0.01m3
UP:80.5 DN:80.6 Q=68

08-07-17 09:58:38
Flow 36.8308 m3/h
Vel: 4.08685 fps
NET: +2043x0.01m3
UP:79.6 DN:79.9 Q=67

08-07-17 09:58:48
Flow 36.8382 m3/h
Vel: 4.08767 fps
NET: +2054x0.01m3
UP:80.4 DN:80.3 Q=48

08-07-17 09:58:58
Flow 36.645 m3/h
Vel: 4.06624 fps
NET: +2064x0.01m3
UP:70.0 DN:80.2 Q=69

08-07-17 09:59:08
Flow 36.66 m3/h
Vel: 4.0679 fps
NET: +2074x0.01m3
UP:80.9 DN:80.8 Q=73

08-07-17 09:59:18
Flow 26.7263 m3/h
Vel: 2.96563 fps
NET: +2083x0.01m3
UP:80.2 DN:80.2 Q=82

08-07-17 09:59:28
Flow 0 m3/h
Vel: 0 fps
NET: +2086x0.01m3
UP:87.9 DN:87.9 Q=81

08-07-17 09:59:38
Flow 7.39281 m3/h
Vel: 0.820328 fps
NET: +2088x0.01m3
UP:88.4 DN:88.3 Q=88

08-07-17 09:59:48
Flow 8.84485 m3/h
Vel: 0.98145 fps
NET: +2090x0.01m3
UP:88.6 DN:88.6 Q=82

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 09:59:58
Flow 9.39973 m3/h
Vel: 1.04302 fps
NET: +2092x0.01m3
UP:88.8 DN:88.8 Q=80

08-07-17 10:00:08
Flow 9.59739 m3/h
Vel: 1.06496 fps
NET: +2095x0.01m3
UP:88.9 DN:88.7 Q=82

08-07-17 10:00:18
Flow 9.71846 m3/h
Vel: 1.07839 fps
NET: +2098x0.01m3
UP:88.7 DN:88.8 Q=78

08-07-17 10:00:28
Flow 6.35107 m3/h
Vel: 0.704734 fps
NET: +2100x0.01m3
UP:88.8 DN:88.9 Q=82

08-07-17 10:00:38
Flow 7.57405 m3/h
Vel: 0.840438 fps
NET: +2102x0.01m3
UP:88.8 DN:88.8 Q=89

08-07-17 10:00:48
Flow 9.47511 m3/h
Vel: 1.05139 fps
NET: +2104x0.01m3
UP:88.8 DN:88.7 Q=86

08-07-17 10:00:58
Flow 10.5364 m3/h
Vel: 1.16915 fps
NET: +2107x0.01m3
UP:88.8 DN:88.8 Q=86

08-07-17 10:01:08
Flow 11.8303 m3/h
Vel: 1.31272 fps
NET: +2110x0.01m3
UP:88.6 DN:88.7 Q=84

08-07-17 10:01:18
Flow 12.7262 m3/h
Vel: 1.41213 fps
NET: +2114x0.01m3
UP:88.7 DN:88.7 Q=86

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:01:28
Flow 13.4213 m3/h
Vel: 1.48926 fps
NET: +2117x0.01m3
UP:88.7 DN:88.7 Q=84

08-07-17 10:01:38
Flow 14.2098 m3/h
Vel: 1.57676 fps
NET: +2121x0.01m3
UP:88.4 DN:88.4 Q=86

08-07-17 10:01:48
Flow 14.8827 m3/h
Vel: 1.65143 fps
NET: +2125x0.01m3
UP:88.1 DN:88.2 Q=80

08-07-17 10:01:58
Flow 7.95165 m3/h
Vel: 0.882338 fps
NET: +2128x0.01m3
UP:88.5 DN:88.5 Q=79

08-07-17 10:02:08
Flow 16.6389 m3/h
Vel: 1.8463 fps
NET: +2132x0.01m3
UP:85.8 DN:86.0 Q=84

08-07-17 10:02:18
Flow 22.6514 m3/h
Vel: 2.51347 fps
NET: +2137x0.01m3
UP:83.8 DN:83.8 Q=62

08-07-17 10:02:28
Flow 15.6402 m3/h
Vel: 1.73548 fps
NET: +2143x0.01m3
UP:85.7 DN:85.8 Q=87

08-07-17 10:02:38
Flow 0 m3/h
Vel: 0 fps
NET: +2145x0.01m3
UP:88.3 DN:88.4 Q=89

08-07-17 10:02:48
Flow 4.52842 m3/h
Vel: 0.502487 fps
NET: +2146x0.01m3
UP:88.6 DN:88.5 Q=82

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:02:58
Flow 6.54835 m3/h
Vel: 0.726624 fps
NET: +2147x0.01m3
UP:88.6 DN:88.7 Q=81

08-07-17 10:03:08
Flow 0 m3/h
Vel: 0 fps
NET: +2150x0.01m3
UP:81.8 DN:81.9 Q=06

08-07-17 10:03:18
Flow 4.17323 m3/h
Vel: 0.463074 fps
NET: +2150x0.01m3
UP:72.8 DN:73.0 Q=73

08-07-17 10:03:28
Flow 20.5337 m3/h
Vel: 2.27848 fps
NET: +2154x0.01m3
UP:73.8 DN:73.9 Q=08

08-07-17 10:03:38
Flow 26.0675 m3/h
Vel: 2.89252 fps
NET: +2161x0.01m3
UP:75.2 DN:75.2 Q=56

08-07-17 10:03:48
Flow 32.8758 m3/h
Vel: 3.648 fps
NET: +2171x0.01m3
UP:75.1 DN:75.2 Q=51

08-07-17 10:03:58
Flow 32.8157 m3/h
Vel: 3.64133 fps
NET: +2180x0.01m3
UP:75.3 DN:75.6 Q=61

08-07-17 10:04:08
Flow 7.98469 m3/h
Vel: 0.886004 fps
NET: +2183x0.01m3
UP:79.9 DN:80.0 Q=58

08-07-17 10:04:18
Flow 25.0838 m3/h
Vel: 2.78337 fps
NET: +2189x0.01m3
UP:80.3 DN:80.2 Q=48

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:04:28
Flow 14.2033 m3/h
Vel: 1.57604 fps
NET: +2194x0.01m3
UP:80.7 DN:80.8 Q=67

08-07-17 10:04:38
Flow 10.4323 m3/h
Vel: 1.15759 fps
NET: +2198x0.01m3
UP:82.9 DN:83.1 Q=82

08-07-17 10:04:48
Flow 13.6297 m3/h
Vel: 1.51239 fps
NET: +2199x0.01m3
UP:84.8 DN:85.0 Q=40

08-07-17 10:04:58
Flow 13.1099 m3/h
Vel: 1.45471 fps
NET: +2201x0.01m3
UP:80.8 DN:80.8 Q=80

08-07-17 10:05:08
Flow 25.2083 m3/h
Vel: 2.79719 fps
NET: +2207x0.01m3
UP:78.9 DN:79.0 Q=72

08-07-17 10:05:18
Flow 31.8332 m3/h
Vel: 3.5323 fps
NET: +2215x0.01m3
UP:80.7 DN:80.9 Q=65

08-07-17 10:05:28
Flow 34.4477 m3/h
Vel: 3.82242 fps
NET: +2224x0.01m3
UP:81.6 DN:81.7 Q=76

08-07-17 10:05:38
Flow 35.8795 m3/h
Vel: 3.98129 fps
NET: +2234x0.01m3
UP:81.6 DN:81.6 Q=75

08-07-17 10:05:48
Flow 36.081 m3/h
Vel: 4.00366 fps
NET: +2244x0.01m3
UP:81.1 DN:81.1 Q=73

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:05:58
Flow 36.2782 m3/h
Vel: 4.02553 fps
NET: +2254x0.01m3
UP:80.5 DN:80.5 Q=62

08-07-17 10:06:08
Flow 36.3234 m3/h
Vel: 4.03055 fps
NET: +2264x0.01m3
UP:80.8 DN:80.9 Q=70

08-07-17 10:06:18
Flow 36.2324 m3/h
Vel: 4.02045 fps
NET: +2274x0.01m3
UP:80.6 DN:80.8 Q=68

08-07-17 10:06:28
Flow 36.9515 m3/h
Vel: 4.10025 fps
NET: +2284x0.01m3
UP:81.2 DN:81.2 Q=79

08-07-17 10:06:38
Flow 36.6554 m3/h
Vel: 4.06739 fps
NET: +2295x0.01m3
UP:80.9 DN:80.9 Q=58

08-07-17 10:06:48
Flow 36.8946 m3/h
Vel: 4.09393 fps
NET: +2305x0.01m3
UP:80.6 DN:80.7 Q=63

08-07-17 10:06:58
Flow 36.7299 m3/h
Vel: 4.07565 fps
NET: +2315x0.01m3
UP:80.2 DN:80.2 Q=62

08-07-17 10:07:08
Flow 36.4258 m3/h
Vel: 4.04191 fps
NET: +2325x0.01m3
UP:80.6 DN:80.7 Q=68

08-07-17 10:07:18
Flow 36.295 m3/h
Vel: 4.0274 fps
NET: +2335x0.01m3
UP:80.3 DN:80.4 Q=79

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:07:28
Flow 37.0326 m3/h
Vel: 4.10924 fps
NET: +2345x0.01m3
UP:80.5 DN:80.7 Q=74

08-07-17 10:07:38
Flow 36.6311 m3/h
Vel: 4.06469 fps
NET: +2356x0.01m3
UP:80.7 DN:80.8 Q=66

08-07-17 10:07:48
Flow 36.6776 m3/h
Vel: 4.06985 fps
NET: +2366x0.01m3
UP:80.6 DN:80.7 Q=53

08-07-17 10:07:58
Flow 36.8061 m3/h
Vel: 4.08411 fps
NET: +2376x0.01m3
UP:80.4 DN:80.6 Q=69

08-07-17 10:08:08
Flow 37.0479 m3/h
Vel: 4.11095 fps
NET: +2386x0.01m3
UP:80.7 DN:80.7 Q=61

08-07-17 10:08:18
Flow 36.2211 m3/h
Vel: 4.0192 fps
NET: +2397x0.01m3
UP:80.3 DN:80.5 Q=66

08-07-17 10:08:28
Flow 36.5231 m3/h
Vel: 4.05271 fps
NET: +2407x0.01m3
UP:80.3 DN:80.5 Q=82

08-07-17 10:08:38
Flow 36.7128 m3/h
Vel: 4.07375 fps
NET: +2417x0.01m3
UP:80.7 DN:80.8 Q=87

08-07-17 10:08:48
Flow 37.2187 m3/h
Vel: 4.12989 fps
NET: +2427x0.01m3
UP:80.6 DN:80.8 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:08:58
Flow 36.3367 m3/h
Vel: 4.03202 fps
NET: +2437x0.01m3
UP:80.4 DN:80.4 Q=58

08-07-17 10:09:08
Flow 36.5934 m3/h
Vel: 4.06051 fps
NET: +2447x0.01m3
UP:80.7 DN:80.8 Q=76

08-07-17 10:09:18
Flow 36.7216 m3/h
Vel: 4.07474 fps
NET: +2458x0.01m3
UP:80.4 DN:80.4 Q=79

08-07-17 10:09:28
Flow 27.9925 m3/h
Vel: 3.10612 fps
NET: +2467x0.01m3
UP:80.1 DN:80.2 Q=72

08-07-17 10:09:38
Flow 10.1534 m3/h
Vel: 1.12665 fps
NET: +2471x0.01m3
UP:87.6 DN:87.5 Q=80

08-07-17 10:09:48
Flow 10.4863 m3/h
Vel: 1.16359 fps
NET: +2474x0.01m3
UP:87.8 DN:87.9 Q=91

08-07-17 10:09:58
Flow 10.0762 m3/h
Vel: 1.11808 fps
NET: +2476x0.01m3
UP:88.6 DN:88.6 Q=81

08-07-17 10:10:08
Flow 9.89259 m3/h
Vel: 1.09771 fps
NET: +2479x0.01m3
UP:88.6 DN:88.7 Q=78

08-07-17 10:10:18
Flow 9.94356 m3/h
Vel: 1.10337 fps
NET: +2482x0.01m3
UP:88.8 DN:88.9 Q=82

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:10:28
Flow 9.81531 m3/h
Vel: 1.08914 fps
NET: +2485x0.01m3
UP:88.7 DN:88.8 Q=87

08-07-17 10:10:38
Flow 6.43283 m3/h
Vel: 0.713806 fps
NET: +2487x0.01m3
UP:88.8 DN:89.0 Q=76

08-07-17 10:10:48
Flow 7.48975 m3/h
Vel: 0.831084 fps
NET: +2489x0.01m3
UP:88.8 DN:88.8 Q=80

08-07-17 10:10:58
Flow 9.36512 m3/h
Vel: 1.03918 fps
NET: +2491x0.01m3
UP:88.7 DN:88.8 Q=80

08-07-17 10:11:08
Flow 10.5479 m3/h
Vel: 1.17042 fps
NET: +2494x0.01m3
UP:88.6 DN:88.7 Q=79

08-07-17 10:11:18
Flow 11.7034 m3/h
Vel: 1.29864 fps
NET: +2497x0.01m3
UP:88.7 DN:88.8 Q=90

08-07-17 10:11:28
Flow 12.5355 m3/h
Vel: 1.39098 fps
NET: +2500x0.01m3
UP:88.6 DN:88.6 Q=83

08-07-17 10:11:38
Flow 13.5452 m3/h
Vel: 1.50301 fps
NET: +2504x0.01m3
UP:88.5 DN:88.5 Q=79

08-07-17 10:11:48
Flow 14.2238 m3/h
Vel: 1.57832 fps
NET: +2508x0.01m3
UP:88.2 DN:88.2 Q=89

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:11:58
Flow 14.8772 m3/h
Vel: 1.65082 fps
NET: +2512x0.01m3
UP:88.1 DN:88.1 Q=79

08-07-17 10:12:08
Flow 8.09865 m3/h
Vel: 0.89865 fps
NET: +2515x0.01m3
UP:88.5 DN:88.6 Q=82

08-07-17 10:12:18
Flow 16.4221 m3/h
Vel: 1.82224 fps
NET: +2518x0.01m3
UP:87.1 DN:87.1 Q=68

08-07-17 10:12:28
Flow 22.2681 m3/h
Vel: 2.47093 fps
NET: +2524x0.01m3
UP:83.0 DN:83.2 Q=70

08-07-17 10:12:38
Flow 15.2898 m3/h
Vel: 1.6966 fps
NET: +2530x0.01m3
UP:85.3 DN:85.4 Q=80

08-07-17 10:12:48
Flow 9.93752 m3/h
Vel: 1.1027 fps
NET: +2533x0.01m3
UP:88.5 DN:88.6 Q=79

08-07-17 10:12:58
Flow 8.11528 m3/h
Vel: 0.900495 fps
NET: +2535x0.01m3
UP:88.6 DN:88.6 Q=81

08-07-17 10:13:08
Flow 7.80071 m3/h
Vel: 0.86559 fps
NET: +2538x0.01m3
UP:88.7 DN:88.8 Q=80

08-07-17 10:13:18
Flow 0 m3/h
Vel: 0 fps
NET: +2540x0.01m3
UP:81.9 DN:82.0 Q=38

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:13:28
Flow 33.7647 m3/h
Vel: 3.74663 fps
NET: +2543x0.01m3
UP:72.3 DN:72.3 Q=44

08-07-17 10:13:38
Flow 33.001 m3/h
Vel: 3.66188 fps
NET: +2552x0.01m3
UP:73.2 DN:73.2 Q=47

08-07-17 10:13:48
Flow 31.0538 m3/h
Vel: 3.44582 fps
NET: +2561x0.01m3
UP:74.9 DN:75.1 Q=50

08-07-17 10:13:58
Flow 32.2279 m3/h
Vel: 3.5761 fps
NET: +2569x0.01m3
UP:74.4 DN:74.6 Q=44

08-07-17 10:14:08
Flow 34.5945 m3/h
Vel: 3.8387 fps
NET: +2579x0.01m3
UP:77.2 DN:77.3 Q=58

08-07-17 10:14:18
Flow 12.7505 m3/h
Vel: 1.41483 fps
NET: +2581x0.01m3
UP:80.1 DN:80.3 Q=61

08-07-17 10:14:28
Flow 26.4194 m3/h
Vel: 2.93157 fps
NET: +2587x0.01m3
UP:80.1 DN:80.3 Q=46

08-07-17 10:14:38
Flow 14.5363 m3/h
Vel: 1.61299 fps
NET: +2593x0.01m3
UP:82.7 DN:82.7 Q=86

08-07-17 10:14:48
Flow 10.1638 m3/h
Vel: 1.1278 fps
NET: +2597x0.01m3
UP:83.5 DN:83.6 Q=85

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:14:58
Flow 12.5634 m3/h
Vel: 1.39407 fps
NET: +2598x0.01m3
UP:84.9 DN:84.9 Q=63

08-07-17 10:15:08
Flow 14.0249 m3/h
Vel: 1.55625 fps
NET: +2600x0.01m3
UP:81.0 DN:80.9 Q=80

08-07-17 10:15:18
Flow 26.8866 m3/h
Vel: 2.98341 fps
NET: +2606x0.01m3
UP:79.3 DN:79.5 Q=47

08-07-17 10:15:28
Flow 32.5982 m3/h
Vel: 3.61719 fps
NET: +2614x0.01m3
UP:81.0 DN:81.2 Q=64

08-07-17 10:15:38
Flow 34.5713 m3/h
Vel: 3.83613 fps
NET: +2624x0.01m3
UP:81.1 DN:81.2 Q=59

08-07-17 10:15:48
Flow 35.5817 m3/h
Vel: 3.94824 fps
NET: +2633x0.01m3
UP:81.2 DN:81.2 Q=67

08-07-17 10:15:58
Flow 35.96 m3/h
Vel: 3.99023 fps
NET: +2643x0.01m3
UP:81.7 DN:81.8 Q=74

08-07-17 10:16:08
Flow 36.8827 m3/h
Vel: 4.09262 fps
NET: +2653x0.01m3
UP:80.9 DN:81.0 Q=60

08-07-17 10:16:18
Flow 36.4789 m3/h
Vel: 4.0478 fps
NET: +2664x0.01m3
UP:80.1 DN:80.3 Q=66

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:16:28
Flow 36.4616 m3/h
Vel: 4.04589 fps
NET: +2674x0.01m3
UP:80.5 DN:80.6 Q=72

08-07-17 10:16:38
Flow 36.0352 m3/h
Vel: 3.99857 fps
NET: +2684x0.01m3
UP:80.6 DN:80.7 Q=66

08-07-17 10:16:48
Flow 36.211 m3/h
Vel: 4.01808 fps
NET: +2694x0.01m3
UP:80.8 DN:80.8 Q=54

08-07-17 10:16:58
Flow 36.7102 m3/h
Vel: 4.07347 fps
NET: +2704x0.01m3
UP:80.8 DN:80.8 Q=75

08-07-17 10:17:08
Flow 36.2255 m3/h
Vel: 4.01968 fps
NET: +2714x0.01m3
UP:80.3 DN:80.4 Q=72

08-07-17 10:17:18
Flow 36.193 m3/h
Vel: 4.01608 fps
NET: +2724x0.01m3
UP:80.5 DN:80.6 Q=59

08-07-17 10:17:28
Flow 36.2776 m3/h
Vel: 4.02546 fps
NET: +2734x0.01m3
UP:80.4 DN:80.5 Q=80

08-07-17 10:17:38
Flow 36.1405 m3/h
Vel: 4.01025 fps
NET: +2744x0.01m3
UP:80.7 DN:80.6 Q=64

08-07-17 10:17:48
Flow 36.1214 m3/h
Vel: 4.00813 fps
NET: +2754x0.01m3
UP:80.7 DN:80.6 Q=80

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:17:58
Flow 36.4034 m3/h
Vel: 4.03943 fps
NET: +2764x0.01m3
UP:80.1 DN:80.3 Q=59

08-07-17 10:18:08
Flow 35.9017 m3/h
Vel: 3.98376 fps
NET: +2774x0.01m3
UP:80.4 DN:80.6 Q=70

08-07-17 10:18:18
Flow 35.8902 m3/h
Vel: 3.98248 fps
NET: +2784x0.01m3
UP:80.5 DN:80.6 Q=66

08-07-17 10:18:28
Flow 36.6253 m3/h
Vel: 4.06405 fps
NET: +2794x0.01m3
UP:81.1 DN:81.2 Q=74

08-07-17 10:18:38
Flow 36.9252 m3/h
Vel: 4.09733 fps
NET: +2805x0.01m3
UP:80.9 DN:81.0 Q=72

08-07-17 10:18:48
Flow 36.8762 m3/h
Vel: 4.09189 fps
NET: +2815x0.01m3
UP:80.8 DN:80.8 Q=54

08-07-17 10:18:58
Flow 36.9845 m3/h
Vel: 4.1039 fps
NET: +2825x0.01m3
UP:80.2 DN:80.4 Q=70

08-07-17 10:19:08
Flow 43.5987 m3/h
Vel: 4.83784 fps
NET: +2838x0.01m3
UP:80.9 DN:81.0 Q=77

08-07-17 10:19:18
Flow 39.3056 m3/h
Vel: 4.36146 fps
NET: +2849x0.01m3
UP:80.1 DN:80.1 Q=59

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:19:28
Flow 37.7794 m3/h
Vel: 4.19211 fps
NET: +2860x0.01m3
UP:80.7 DN:80.9 Q=59

08-07-17 10:19:38
Flow 28.744 m3/h
Vel: 3.18952 fps
NET: +2870x0.01m3
UP:80.6 DN:80.6 Q=72

08-07-17 10:19:48
Flow 0 m3/h
Vel: 0 fps
NET: +2873x0.01m3
UP:87.6 DN:87.7 Q=80

08-07-17 10:19:58
Flow 7.30842 m3/h
Vel: 0.810963 fps
NET: +2874x0.01m3
UP:88.3 DN:88.3 Q=81

08-07-17 10:20:08
Flow 8.83017 m3/h
Vel: 0.979821 fps
NET: +2876x0.01m3
UP:88.6 DN:88.7 Q=83

08-07-17 10:20:18
Flow 9.32042 m3/h
Vel: 1.03422 fps
NET: +2879x0.01m3
UP:88.7 DN:88.7 Q=76

08-07-17 10:20:28
Flow 9.61977 m3/h
Vel: 1.06744 fps
NET: +2882x0.01m3
UP:88.8 DN:88.8 Q=80

08-07-17 10:20:38
Flow 9.76515 m3/h
Vel: 1.08357 fps
NET: +2884x0.01m3
UP:88.7 DN:88.7 Q=83

08-07-17 10:20:48
Flow 6.56696 m3/h
Vel: 0.728689 fps
NET: +2887x0.01m3
UP:88.7 DN:88.8 Q=75

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:20:58
Flow 7.35256 m3/h
Vel: 0.815862 fps
NET: +2888x0.01m3
UP:88.9 DN:88.9 Q=81

08-07-17 10:21:08
Flow 9.34885 m3/h
Vel: 1.03738 fps
NET: +2891x0.01m3
UP:88.8 DN:88.7 Q=76

08-07-17 10:21:18
Flow 10.2428 m3/h
Vel: 1.13657 fps
NET: +2894x0.01m3
UP:88.6 DN:88.8 Q=76

08-07-17 10:21:28
Flow 11.5163 m3/h
Vel: 1.27788 fps
NET: +2897x0.01m3
UP:88.6 DN:88.7 Q=81

08-07-17 10:21:38
Flow 12.4341 m3/h
Vel: 1.37972 fps
NET: +2900x0.01m3
UP:88.7 DN:88.8 Q=87

08-07-17 10:21:48
Flow 13.1445 m3/h
Vel: 1.45855 fps
NET: +2903x0.01m3
UP:88.2 DN:88.3 Q=75

08-07-17 10:21:58
Flow 13.9591 m3/h
Vel: 1.54894 fps
NET: +2907x0.01m3
UP:88.1 DN:88.2 Q=78

08-07-17 10:22:08
Flow 14.4505 m3/h
Vel: 1.60347 fps
NET: +2911x0.01m3
UP:87.7 DN:87.9 Q=84

08-07-17 10:22:18
Flow 8.15955 m3/h
Vel: 0.905408 fps
NET: +2914x0.01m3
UP:87.5 DN:87.5 Q=78

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:22:28
Flow 16.095 m3/h
Vel: 1.78595 fps
NET: +2917x0.01m3
UP:86.6 DN:86.7 Q=76

08-07-17 10:22:38
Flow 21.8766 m3/h
Vel: 2.42749 fps
NET: +2923x0.01m3
UP:83.3 DN:83.3 Q=57

08-07-17 10:22:48
Flow 15.4772 m3/h
Vel: 1.7174 fps
NET: +2929x0.01m3
UP:84.8 DN:84.9 Q=72

08-07-17 10:22:58
Flow 9.86831 m3/h
Vel: 1.09502 fps
NET: +2932x0.01m3
UP:88.2 DN:88.3 Q=81

08-07-17 10:23:08
Flow 8.07539 m3/h
Vel: 0.896069 fps
NET: +2934x0.01m3
UP:88.6 DN:88.6 Q=76

08-07-17 10:23:18
Flow 7.6723 m3/h
Vel: 0.85134 fps
NET: +2936x0.01m3
UP:88.6 DN:88.7 Q=80

08-07-17 10:23:28
Flow 0 m3/h
Vel: 0 fps
NET: +2939x0.01m3
UP:81.9 DN:81.0 Q=00

08-07-17 10:23:38
Flow 5.93278 m3/h
Vel: 0.658318 fps
NET: +2939x0.01m3
UP:72.6 DN:72.7 Q=13

08-07-17 10:23:48
Flow 20.6988 m3/h
Vel: 2.29679 fps
NET: +2943x0.01m3
UP:75.0 DN:74.9 Q=49

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:23:58
Flow 24.8265 m3/h
Vel: 2.75482 fps
NET: +2950x0.01m3
UP:75.4 DN:75.5 Q=55

08-07-17 10:24:08
Flow 30.3143 m3/h
Vel: 3.36377 fps
NET: +2958x0.01m3
UP:75.8 DN:75.8 Q=64

08-07-17 10:24:18
Flow 36.0448 m3/h
Vel: 3.99963 fps
NET: +2967x0.01m3
UP:76.5 DN:76.5 Q=67

08-07-17 10:24:28
Flow 35.0982 m3/h
Vel: 3.8946 fps
NET: +2977x0.01m3
UP:80.3 DN:80.4 Q=66

08-07-17 10:24:38
Flow 34.7153 m3/h
Vel: 3.85211 fps
NET: +2987x0.01m3
UP:80.1 DN:80.1 Q=64

08-07-17 10:24:48
Flow 17.9264 m3/h
Vel: 1.98917 fps
NET: +2995x0.01m3
UP:81.2 DN:81.2 Q=79

08-07-17 10:24:58
Flow 0 m3/h
Vel: 0 fps
NET: +2998x0.01m3
UP:85.3 DN:85.4 Q=00

08-07-17 10:25:08
Flow 17.5169 m3/h
Vel: 1.94373 fps
NET: +3000x0.01m3
UP:82.4 DN:82.6 Q=49

08-07-17 10:25:18
Flow 28.1195 m3/h
Vel: 3.12022 fps
NET: +3007x0.01m3
UP:82.1 DN:82.2 Q=62

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:25:28
Flow 32.5337 m3/h
Vel: 3.61004 fps
NET: +3015x0.01m3
UP:80.5 DN:80.4 Q=68

08-07-17 10:25:38
Flow 35.4639 m3/h
Vel: 3.93517 fps
NET: +3025x0.01m3
UP:81.2 DN:81.4 Q=76

08-07-17 10:25:48
Flow 36.1412 m3/h
Vel: 4.01034 fps
NET: +3035x0.01m3
UP:81.7 DN:81.8 Q=74

08-07-17 10:25:58
Flow 36.2389 m3/h
Vel: 4.02117 fps
NET: +3045x0.01m3
UP:81.7 DN:81.9 Q=77

08-07-17 10:26:08
Flow 36.5405 m3/h
Vel: 4.05464 fps
NET: +3055x0.01m3
UP:81.7 DN:81.7 Q=79

08-07-17 10:26:18
Flow 36.2744 m3/h
Vel: 4.02511 fps
NET: +3065x0.01m3
UP:81.6 DN:81.7 Q=74

08-07-17 10:26:28
Flow 36.052 m3/h
Vel: 4.00044 fps
NET: +3075x0.01m3
UP:80.5 DN:80.6 Q=63

08-07-17 10:26:38
Flow 36.6286 m3/h
Vel: 4.06441 fps
NET: +3085x0.01m3
UP:80.5 DN:80.6 Q=63

08-07-17 10:26:48
Flow 36.6214 m3/h
Vel: 4.06361 fps
NET: +3095x0.01m3
UP:80.6 DN:80.5 Q=61

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:26:58
Flow 36.6184 m3/h
Vel: 4.06328 fps
NET: +3105x0.01m3
UP:80.9 DN:81.1 Q=65

08-07-17 10:27:08
Flow 36.8092 m3/h
Vel: 4.08445 fps
NET: +3116x0.01m3
UP:80.8 DN:80.8 Q=70

08-07-17 10:27:18
Flow 36.9395 m3/h
Vel: 4.09892 fps
NET: +3126x0.01m3
UP:80.1 DN:80.1 Q=59

08-07-17 10:27:28
Flow 36.7795 m3/h
Vel: 4.08116 fps
NET: +3136x0.01m3
UP:70.0 DN:80.2 Q=60

08-07-17 10:27:38
Flow 37.0726 m3/h
Vel: 4.11369 fps
NET: +3146x0.01m3
UP:80.6 DN:80.8 Q=70

08-07-17 10:27:48
Flow 36.9786 m3/h
Vel: 4.10325 fps
NET: +3157x0.01m3
UP:80.7 DN:80.8 Q=58

08-07-17 10:27:58
Flow 36.8619 m3/h
Vel: 4.0903 fps
NET: +3167x0.01m3
UP:81.0 DN:80.9 Q=68

08-07-17 10:28:08
Flow 36.3962 m3/h
Vel: 4.03863 fps
NET: +3177x0.01m3
UP:80.6 DN:80.7 Q=59

08-07-17 10:28:18
Flow 36.4109 m3/h
Vel: 4.04026 fps
NET: +3187x0.01m3
UP:80.9 DN:80.0 Q=58

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:28:28
Flow 36.7241 m3/h
Vel: 4.07501 fps
NET: +3197x0.01m3
UP:80.7 DN:80.9 Q=65

08-07-17 10:28:38
Flow 36.72 m3/h
Vel: 4.07456 fps
NET: +3208x0.01m3
UP:80.3 DN:80.3 Q=60

08-07-17 10:28:48
Flow 36.8577 m3/h
Vel: 4.08984 fps
NET: +3218x0.01m3
UP:80.7 DN:80.8 Q=63

08-07-17 10:28:58
Flow 37.1016 m3/h
Vel: 4.1169 fps
NET: +3228x0.01m3
UP:80.8 DN:80.8 Q=68

08-07-17 10:29:08
Flow 36.8471 m3/h
Vel: 4.08866 fps
NET: +3238x0.01m3
UP:80.7 DN:80.7 Q=81

08-07-17 10:29:18
Flow 36.7393 m3/h
Vel: 4.0767 fps
NET: +3249x0.01m3
UP:80.4 DN:80.4 Q=63

08-07-17 10:29:28
Flow 36.5662 m3/h
Vel: 4.0575 fps
NET: +3259x0.01m3
UP:80.7 DN:80.8 Q=76

08-07-17 10:29:38
Flow 36.3717 m3/h
Vel: 4.0359 fps
NET: +3269x0.01m3
UP:79.9 DN:80.2 Q=57

08-07-17 10:29:48
Flow 29.5638 m3/h
Vel: 3.28048 fps
NET: +3279x0.01m3
UP:80.4 DN:80.5 Q=75

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:29:58
Flow 0 m3/h
Vel: 0 fps
NET: +3282x0.01m3
UP:87.4 DN:87.4 Q=90

08-07-17 10:30:08
Flow 7.06639 m3/h
Vel: 0.784107 fps
NET: +3283x0.01m3
UP:88.1 DN:88.3 Q=83

08-07-17 10:30:18
Flow 8.87036 m3/h
Vel: 0.98428 fps
NET: +3286x0.01m3
UP:88.6 DN:88.6 Q=73

08-07-17 10:30:28
Flow 9.30547 m3/h
Vel: 1.03256 fps
NET: +3288x0.01m3
UP:88.7 DN:88.7 Q=78

08-07-17 10:30:38
Flow 9.40727 m3/h
Vel: 1.04386 fps
NET: +3291x0.01m3
UP:88.7 DN:88.8 Q=86

08-07-17 10:30:48
Flow 9.62343 m3/h
Vel: 1.06784 fps
NET: +3293x0.01m3
UP:88.7 DN:88.8 Q=73

08-07-17 10:30:58
Flow 6.67737 m3/h
Vel: 0.74094 fps
NET: +3296x0.01m3
UP:88.7 DN:88.8 Q=87

08-07-17 10:31:08
Flow 7.03586 m3/h
Vel: 0.78072 fps
NET: +3297x0.01m3
UP:88.7 DN:88.8 Q=72

08-07-17 10:31:18
Flow 9.13539 m3/h
Vel: 1.01369 fps
NET: +3300x0.01m3
UP:88.6 DN:88.7 Q=88

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:31:28
Flow 10.5128 m3/h
Vel: 1.16653 fps
NET: +3302x0.01m3
UP:88.6 DN:88.6 Q=78

08-07-17 10:31:38
Flow 11.6829 m3/h
Vel: 1.29637 fps
NET: +3306x0.01m3
UP:88.6 DN:88.8 Q=81

08-07-17 10:31:48
Flow 12.3709 m3/h
Vel: 1.37271 fps
NET: +3309x0.01m3
UP:88.4 DN:88.5 Q=79

08-07-17 10:31:58
Flow 13.2911 m3/h
Vel: 1.47482 fps
NET: +3313x0.01m3
UP:88.5 DN:88.6 Q=81

08-07-17 10:32:08
Flow 14.0969 m3/h
Vel: 1.56424 fps
NET: +3316x0.01m3
UP:88.5 DN:88.4 Q=73

08-07-17 10:32:18
Flow 14.4958 m3/h
Vel: 1.6085 fps
NET: +3320x0.01m3
UP:88.2 DN:88.3 Q=82

08-07-17 10:32:28
Flow 7.9425 m3/h
Vel: 0.881323 fps
NET: +3324x0.01m3
UP:88.2 DN:88.2 Q=89

08-07-17 10:32:38
Flow 15.5446 m3/h
Vel: 1.72487 fps
NET: +3326x0.01m3
UP:86.3 DN:86.5 Q=81

08-07-17 10:32:48
Flow 21.6649 m3/h
Vel: 2.404 fps
NET: +3332x0.01m3
UP:83.3 DN:83.5 Q=73

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:32:58
Flow 15.8323 m3/h
Vel: 1.7568 fps
NET: +3337x0.01m3
UP:84.6 DN:84.7 Q=81

08-07-17 10:33:08
Flow 5.81082 m3/h
Vel: 0.644785 fps
NET: +3338x0.01m3
UP:88.1 DN:88.1 Q=78

08-07-17 10:33:18
Flow 6.44977 m3/h
Vel: 0.715685 fps
NET: +3340x0.01m3
UP:88.6 DN:88.6 Q=79

08-07-17 10:33:28
Flow 7.02155 m3/h
Vel: 0.779131 fps
NET: +3342x0.01m3
UP:88.6 DN:88.6 Q=70

08-07-17 10:33:38
Flow 0 m3/h
Vel: 0 fps
NET: +3345x0.01m3
UP:83.7 DN:83.9 Q=00

08-07-17 10:33:48
Flow 0 m3/h
Vel: 0 fps
NET: +3345x0.01m3
UP:71.6 DN:72.0 Q=34

08-07-17 10:33:58
Flow 13.8201 m3/h
Vel: 1.53352 fps
NET: +3347x0.01m3
UP:73.1 DN:73.1 Q=40

08-07-17 10:34:08
Flow 22.5739 m3/h
Vel: 2.50486 fps
NET: +3352x0.01m3
UP:74.2 DN:74.2 Q=58

08-07-17 10:34:18
Flow 29.4148 m3/h
Vel: 3.26395 fps
NET: +3359x0.01m3
UP:75.6 DN:75.5 Q=54

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:34:28
Flow 32.2461 m3/h
Vel: 3.57812 fps
NET: +3368x0.01m3
UP:76.4 DN:76.5 Q=70

08-07-17 10:34:38
Flow 34.1248 m3/h
Vel: 3.78659 fps
NET: +3377x0.01m3
UP:79.6 DN:79.5 Q=53

08-07-17 10:34:48
Flow 34.2268 m3/h
Vel: 3.79791 fps
NET: +3387x0.01m3
UP:80.3 DN:80.3 Q=60

08-07-17 10:34:58
Flow 18.6723 m3/h
Vel: 2.07193 fps
NET: +3394x0.01m3
UP:81.5 DN:81.5 Q=82

08-07-17 10:35:08
Flow 13.0157 m3/h
Vel: 1.44426 fps
NET: +3399x0.01m3
UP:83.0 DN:83.1 Q=86

08-07-17 10:35:18
Flow 10.9547 m3/h
Vel: 1.21557 fps
NET: +3401x0.01m3
UP:85.5 DN:85.6 Q=49

08-07-17 10:35:28
Flow 10.1805 m3/h
Vel: 1.12966 fps
NET: +3402x0.01m3
UP:79.6 DN:79.8 Q=53

08-07-17 10:35:38
Flow 24.2869 m3/h
Vel: 2.69494 fps
NET: +3407x0.01m3
UP:79.3 DN:79.6 Q=49

08-07-17 10:35:48
Flow 30.843 m3/h
Vel: 3.42243 fps
NET: +3415x0.01m3
UP:81.3 DN:81.6 Q=59

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:35:58
Flow 34.0657 m3/h
Vel: 3.78003 fps
NET: +3424x0.01m3
UP:81.2 DN:81.3 Q=75

08-07-17 10:36:08
Flow 35.724 m3/h
Vel: 3.96404 fps
NET: +3434x0.01m3
UP:81.3 DN:81.3 Q=60

08-07-17 10:36:18
Flow 36.0715 m3/h
Vel: 4.0026 fps
NET: +3444x0.01m3
UP:81.4 DN:81.5 Q=69

08-07-17 10:36:28
Flow 35.8249 m3/h
Vel: 3.97523 fps
NET: +3454x0.01m3
UP:81.5 DN:81.4 Q=72

08-07-17 10:36:38
Flow 35.8723 m3/h
Vel: 3.98049 fps
NET: +3464x0.01m3
UP:80.9 DN:80.0 Q=64

08-07-17 10:36:48
Flow 36.2951 m3/h
Vel: 4.02741 fps
NET: +3474x0.01m3
UP:80.7 DN:80.8 Q=66

08-07-17 10:36:58
Flow 36.6588 m3/h
Vel: 4.06777 fps
NET: +3484x0.01m3
UP:80.6 DN:80.7 Q=66

08-07-17 10:37:08
Flow 43.8158 m3/h
Vel: 4.86193 fps
NET: +3497x0.01m3
UP:80.6 DN:80.8 Q=71

08-07-17 10:37:18
Flow 39.2284 m3/h
Vel: 4.35289 fps
NET: +3508x0.01m3
UP:80.4 DN:80.5 Q=47

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:37:28
Flow 37.8994 m3/h
Vel: 4.20543 fps
NET: +3519x0.01m3
UP:80.8 DN:80.9 Q=54

08-07-17 10:37:38
Flow 37.5713 m3/h
Vel: 4.16902 fps
NET: +3529x0.01m3
UP:80.9 DN:81.0 Q=61

08-07-17 10:37:48
Flow 36.4176 m3/h
Vel: 4.041 fps
NET: +3540x0.01m3
UP:80.1 DN:80.1 Q=63

08-07-17 10:37:58
Flow 36.5036 m3/h
Vel: 4.05055 fps
NET: +3550x0.01m3
UP:80.5 DN:80.7 Q=62

08-07-17 10:38:08
Flow 36.2064 m3/h
Vel: 4.01757 fps
NET: +3560x0.01m3
UP:80.3 DN:80.5 Q=69

08-07-17 10:38:18
Flow 36.3664 m3/h
Vel: 4.03532 fps
NET: +3570x0.01m3
UP:70.0 DN:80.2 Q=59

08-07-17 10:38:28
Flow 37.0213 m3/h
Vel: 4.10799 fps
NET: +3580x0.01m3
UP:80.6 DN:80.5 Q=59

08-07-17 10:38:38
Flow 37.0852 m3/h
Vel: 4.11508 fps
NET: +3591x0.01m3
UP:80.4 DN:80.3 Q=60

08-07-17 10:38:48
Flow 37.0341 m3/h
Vel: 4.10941 fps
NET: +3601x0.01m3
UP:80.7 DN:80.8 Q=59

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:38:58
Flow 36.7485 m3/h
Vel: 4.07772 fps
NET: +3611x0.01m3
UP:80.4 DN:80.6 Q=70

08-07-17 10:39:08
Flow 36.3483 m3/h
Vel: 4.03332 fps
NET: +3621x0.01m3
UP:80.9 DN:80.8 Q=71

08-07-17 10:39:18
Flow 36.7641 m3/h
Vel: 4.07945 fps
NET: +3631x0.01m3
UP:80.0 DN:81.1 Q=72

08-07-17 10:39:28
Flow 36.4636 m3/h
Vel: 4.0461 fps
NET: +3641x0.01m3
UP:80.5 DN:80.7 Q=69

08-07-17 10:39:38
Flow 36.4188 m3/h
Vel: 4.04114 fps
NET: +3652x0.01m3
UP:80.9 DN:81.0 Q=62

08-07-17 10:39:48
Flow 36.7695 m3/h
Vel: 4.08005 fps
NET: +3662x0.01m3
UP:81.1 DN:81.0 Q=64

08-07-17 10:39:58
Flow 28.9381 m3/h
Vel: 3.21106 fps
NET: +3671x0.01m3
UP:80.2 DN:80.4 Q=70

08-07-17 10:40:08
Flow 0 m3/h
Vel: 0 fps
NET: +3675x0.01m3
UP:87.4 DN:87.5 Q=77

08-07-17 10:40:18
Flow 7.17026 m3/h
Vel: 0.795633 fps
NET: +3676x0.01m3
UP:88.1 DN:88.1 Q=90

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:40:28
Flow 8.76977 m3/h
Vel: 0.973119 fps
NET: +3678x0.01m3
UP:88.5 DN:88.5 Q=84

08-07-17 10:40:38
Flow 9.3108 m3/h
Vel: 1.03315 fps
NET: +3681x0.01m3
UP:88.6 DN:88.7 Q=73

08-07-17 10:40:48
Flow 9.50824 m3/h
Vel: 1.05506 fps
NET: +3683x0.01m3
UP:88.6 DN:88.6 Q=77

08-07-17 10:40:58
Flow 9.55156 m3/h
Vel: 1.05987 fps
NET: +3686x0.01m3
UP:88.6 DN:88.7 Q=83

08-07-17 10:41:08
Flow 6.67696 m3/h
Vel: 0.740895 fps
NET: +3688x0.01m3
UP:88.7 DN:88.7 Q=80

08-07-17 10:41:18
Flow 6.89529 m3/h
Vel: 0.765121 fps
NET: +3690x0.01m3
UP:88.7 DN:88.7 Q=88

08-07-17 10:41:28
Flow 8.86569 m3/h
Vel: 0.983762 fps
NET: +3692x0.01m3
UP:88.6 DN:88.6 Q=81

08-07-17 10:41:38
Flow 10.2301 m3/h
Vel: 1.13516 fps
NET: +3695x0.01m3
UP:88.6 DN:88.6 Q=81

08-07-17 10:41:48
Flow 11.3165 m3/h
Vel: 1.25571 fps
NET: +3698x0.01m3
UP:88.4 DN:88.4 Q=79

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:41:58
Flow 12.3805 m3/h
Vel: 1.37378 fps
NET: +3701x0.01m3
UP:88.5 DN:88.6 Q=80

08-07-17 10:42:08
Flow 13.1499 m3/h
Vel: 1.45915 fps
NET: +3705x0.01m3
UP:88.4 DN:88.5 Q=86

08-07-17 10:42:18
Flow 13.83 m3/h
Vel: 1.53462 fps
NET: +3709x0.01m3
UP:88.3 DN:88.3 Q=78

08-07-17 10:42:28
Flow 14.441 m3/h
Vel: 1.60242 fps
NET: +3713x0.01m3
UP:88.0 DN:88.1 Q=76

08-07-17 10:42:38
Flow 8.35162 m3/h
Vel: 0.92672 fps
NET: +3716x0.01m3
UP:88.2 DN:88.2 Q=82

08-07-17 10:42:48
Flow 15.3948 m3/h
Vel: 1.70825 fps
NET: +3719x0.01m3
UP:86.0 DN:86.0 Q=79

08-07-17 10:42:58
Flow 21.9527 m3/h
Vel: 2.43593 fps
NET: +3724x0.01m3
UP:83.2 DN:83.3 Q=55

08-07-17 10:43:08
Flow 0 m3/h
Vel: 0 fps
NET: +3725x0.01m3
UP:86.2 DN:86.1 Q=86

08-07-17 10:43:18
Flow 2.86446 m3/h
Vel: 0.317848 fps
NET: +3725x0.01m3
UP:88.2 DN:88.2 Q=83

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:43:28
Flow 5.22234 m3/h
Vel: 0.579486 fps
NET: +3727x0.01m3
UP:88.5 DN:88.5 Q=77

08-07-17 10:43:38
Flow 6.47736 m3/h
Vel: 0.718746 fps
NET: +3728x0.01m3
UP:88.5 DN:88.6 Q=80

08-07-17 10:43:48
Flow 0 m3/h
Vel: 0 fps
NET: +3730x0.01m3
UP:82.1 DN:82.1 Q=00

08-07-17 10:43:58
Flow 33.4795 m3/h
Vel: 3.71498 fps
NET: +3733x0.01m3
UP:71.7 DN:72.1 Q=55

08-07-17 10:44:08
Flow 31.727 m3/h
Vel: 3.52051 fps
NET: +3742x0.01m3
UP:73.2 DN:73.3 Q=53

08-07-17 10:44:18
Flow 31.5126 m3/h
Vel: 3.49672 fps
NET: +3751x0.01m3
UP:73.9 DN:74.1 Q=62

08-07-17 10:44:28
Flow 31.1357 m3/h
Vel: 3.4549 fps
NET: +3759x0.01m3
UP:74.0 DN:74.1 Q=00

08-07-17 10:44:38
Flow 32.3972 m3/h
Vel: 3.59488 fps
NET: +3768x0.01m3
UP:75.0 DN:75.2 Q=37

08-07-17 10:44:48
Flow 29.5457 m3/h
Vel: 3.27847 fps
NET: +3774x0.01m3
UP:79.5 DN:79.7 Q=56

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:44:58
Flow 32.8281 m3/h
Vel: 3.6427 fps
NET: +3783x0.01m3
UP:80.7 DN:80.8 Q=59

08-07-17 10:45:08
Flow 18.5576 m3/h
Vel: 2.0592 fps
NET: +3790x0.01m3
UP:82.2 DN:82.2 Q=78

08-07-17 10:45:18
Flow 12.5285 m3/h
Vel: 1.3902 fps
NET: +3795x0.01m3
UP:82.9 DN:83.0 Q=82

08-07-17 10:45:28
Flow 10.6023 m3/h
Vel: 1.17646 fps
NET: +3796x0.01m3
UP:85.3 DN:85.4 Q=77

08-07-17 10:45:38
Flow 10.6564 m3/h
Vel: 1.18247 fps
NET: +3798x0.01m3
UP:80.6 DN:80.7 Q=66

08-07-17 10:45:48
Flow 24.3242 m3/h
Vel: 2.69908 fps
NET: +3803x0.01m3
UP:77.4 DN:77.5 Q=54

08-07-17 10:45:58
Flow 16.5202 m3/h
Vel: 1.83313 fps
NET: +3805x0.01m3
UP:81.3 DN:81.3 Q=66

08-07-17 10:46:08
Flow 28.0083 m3/h
Vel: 3.10788 fps
NET: +3812x0.01m3
UP:80.5 DN:80.8 Q=64

08-07-17 10:46:18
Flow 33.2304 m3/h
Vel: 3.68734 fps
NET: +3820x0.01m3
UP:81.4 DN:81.7 Q=81

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:46:28
Flow 34.9356 m3/h
Vel: 3.87656 fps
NET: +3830x0.01m3
UP:81.3 DN:81.4 Q=70

08-07-17 10:46:38
Flow 35.547 m3/h
Vel: 3.94439 fps
NET: +3840x0.01m3
UP:81.3 DN:81.3 Q=73

08-07-17 10:46:48
Flow 36.1536 m3/h
Vel: 4.01171 fps
NET: +3850x0.01m3
UP:80.8 DN:80.0 Q=57

08-07-17 10:46:58
Flow 36.1238 m3/h
Vel: 4.0084 fps
NET: +3860x0.01m3
UP:80.7 DN:80.7 Q=79

08-07-17 10:47:08
Flow 36.3812 m3/h
Vel: 4.03697 fps
NET: +3870x0.01m3
UP:80.5 DN:80.4 Q=76

08-07-17 10:47:18
Flow 36.2755 m3/h
Vel: 4.02524 fps
NET: +3880x0.01m3
UP:81.1 DN:81.0 Q=59

08-07-17 10:47:28
Flow 36.2959 m3/h
Vel: 4.02749 fps
NET: +3890x0.01m3
UP:80.2 DN:80.3 Q=57

08-07-17 10:47:38
Flow 36.9019 m3/h
Vel: 4.09474 fps
NET: +3900x0.01m3
UP:80.5 DN:80.5 Q=64

08-07-17 10:47:48
Flow 37.1946 m3/h
Vel: 4.12722 fps
NET: +3910x0.01m3
UP:80.4 DN:80.5 Q=78

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:47:58
Flow 36.6593 m3/h
Vel: 4.06782 fps
NET: +3921x0.01m3
UP:80.4 DN:80.4 Q=56

08-07-17 10:48:08
Flow 36.8336 m3/h
Vel: 4.08717 fps
NET: +3931x0.01m3
UP:80.3 DN:80.3 Q=75

08-07-17 10:48:18
Flow 36.4995 m3/h
Vel: 4.05009 fps
NET: +3941x0.01m3
UP:80.1 DN:80.1 Q=56

08-07-17 10:48:28
Flow 36.7703 m3/h
Vel: 4.08014 fps
NET: +3951x0.01m3
UP:80.4 DN:80.5 Q=53

08-07-17 10:48:38
Flow 37.0553 m3/h
Vel: 4.11177 fps
NET: +3962x0.01m3
UP:80.9 DN:81.0 Q=76

08-07-17 10:48:48
Flow 37.0616 m3/h
Vel: 4.11246 fps
NET: +3972x0.01m3
UP:80.3 DN:80.5 Q=75

08-07-17 10:48:58
Flow 36.7716 m3/h
Vel: 4.08028 fps
NET: +3982x0.01m3
UP:80.5 DN:80.7 Q=62

08-07-17 10:49:08
Flow 36.6803 m3/h
Vel: 4.07015 fps
NET: +3992x0.01m3
UP:80.3 DN:80.4 Q=47

08-07-17 10:49:18
Flow 36.3177 m3/h
Vel: 4.02991 fps
NET: +4002x0.01m3
UP:80.7 DN:80.7 Q=73

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:49:28
Flow 36.3447 m3/h
Vel: 4.03291 fps
NET: +4012x0.01m3
UP:80.1 DN:80.3 Q=44

08-07-17 10:49:38
Flow 36.3508 m3/h
Vel: 4.03359 fps
NET: +4023x0.01m3
UP:80.1 DN:80.1 Q=52

08-07-17 10:49:48
Flow 36.2466 m3/h
Vel: 4.02203 fps
NET: +4033x0.01m3
UP:80.5 DN:80.7 Q=59

08-07-17 10:49:58
Flow 36.2666 m3/h
Vel: 4.02425 fps
NET: +4043x0.01m3
UP:80.2 DN:80.5 Q=70

08-07-17 10:50:08
Flow 29.7619 m3/h
Vel: 3.30246 fps
NET: +4053x0.01m3
UP:79.5 DN:79.4 Q=55

08-07-17 10:50:18
Flow 0 m3/h
Vel: 0 fps
NET: +4056x0.01m3
UP:86.0 DN:86.9 Q=78

08-07-17 10:50:28
Flow 6.85118 m3/h
Vel: 0.760227 fps
NET: +4058x0.01m3
UP:87.9 DN:87.9 Q=83

08-07-17 10:50:38
Flow 8.88372 m3/h
Vel: 0.985763 fps
NET: +4060x0.01m3
UP:88.3 DN:88.3 Q=86

08-07-17 10:50:48
Flow 9.17329 m3/h
Vel: 1.0179 fps
NET: +4062x0.01m3
UP:88.4 DN:88.5 Q=72

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:50:58
Flow 9.42424 m3/h
Vel: 1.04574 fps
NET: +4065x0.01m3
UP:88.6 DN:88.6 Q=85

08-07-17 10:51:08
Flow 9.56131 m3/h
Vel: 1.06095 fps
NET: +4068x0.01m3
UP:88.5 DN:88.6 Q=83

08-07-17 10:51:18
Flow 7.04531 m3/h
Vel: 0.781768 fps
NET: +4070x0.01m3
UP:88.5 DN:88.6 Q=82

08-07-17 10:51:28
Flow 6.89336 m3/h
Vel: 0.764907 fps
NET: +4072x0.01m3
UP:88.5 DN:88.6 Q=78

08-07-17 10:51:38
Flow 8.97947 m3/h
Vel: 0.996388 fps
NET: +4074x0.01m3
UP:88.5 DN:88.5 Q=77

08-07-17 10:51:48
Flow 10.3229 m3/h
Vel: 1.14545 fps
NET: +4077x0.01m3
UP:88.3 DN:88.4 Q=77

08-07-17 10:51:58
Flow 11.3626 m3/h
Vel: 1.26083 fps
NET: +4080x0.01m3
UP:88.4 DN:88.5 Q=83

08-07-17 10:52:08
Flow 12.4631 m3/h
Vel: 1.38294 fps
NET: +4083x0.01m3
UP:88.3 DN:88.3 Q=84

08-07-17 10:52:18
Flow 13.2347 m3/h
Vel: 1.46856 fps
NET: +4087x0.01m3
UP:88.1 DN:88.1 Q=88

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:52:28
Flow 13.7773 m3/h
Vel: 1.52877 fps
NET: +4090x0.01m3
UP:88.3 DN:88.4 Q=80

08-07-17 10:52:38
Flow 14.3342 m3/h
Vel: 1.59057 fps
NET: +4094x0.01m3
UP:88.2 DN:88.3 Q=68

08-07-17 10:52:48
Flow 8.60612 m3/h
Vel: 0.95496 fps
NET: +4098x0.01m3
UP:88.4 DN:88.5 Q=80

08-07-17 10:52:58
Flow 14.9217 m3/h
Vel: 1.65576 fps
NET: +4100x0.01m3
UP:86.2 DN:86.2 Q=74

08-07-17 10:53:08
Flow 21.8208 m3/h
Vel: 2.4213 fps
NET: +4106x0.01m3
UP:84.2 DN:84.2 Q=57

08-07-17 10:53:18
Flow 0 m3/h
Vel: 0 fps
NET: +4107x0.01m3
UP:84.2 DN:84.4 Q=75

08-07-17 10:53:28
Flow 0 m3/h
Vel: 0 fps
NET: +4107x0.01m3
UP:88.2 DN:88.3 Q=00

08-07-17 10:53:38
Flow 3.88201 m3/h
Vel: 0.430759 fps
NET: +4108x0.01m3
UP:88.3 DN:88.4 Q=84

08-07-17 10:53:48
Flow 6.00161 m3/h
Vel: 0.665956 fps
NET: +4109x0.01m3
UP:88.5 DN:88.4 Q=81

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:53:58
Flow 0 m3/h
Vel: 0 fps
NET: +4111x0.01m3
UP:84.5 DN:84.5 Q=00

08-07-17 10:54:08
Flow 4.015 m3/h
Vel: 0.445516 fps
NET: +4113x0.01m3
UP:71.8 DN:71.9 Q=39

08-07-17 10:54:18
Flow 0 m3/h
Vel: 0 fps
NET: +4115x0.01m3
UP:77.9 DN:78.0 Q=00

08-07-17 10:54:28
Flow 18.9903 m3/h
Vel: 2.10721 fps
NET: +4118x0.01m3
UP:78.5 DN:78.5 Q=69

08-07-17 10:54:38
Flow 27.5155 m3/h
Vel: 3.0532 fps
NET: +4125x0.01m3
UP:77.4 DN:77.4 Q=41

08-07-17 10:54:48
Flow 39.8024 m3/h
Vel: 4.41659 fps
NET: +4136x0.01m3
UP:77.8 DN:77.7 Q=76

08-07-17 10:54:58
Flow 36.6145 m3/h
Vel: 4.06285 fps
NET: +4146x0.01m3
UP:79.5 DN:79.6 Q=58

08-07-17 10:55:08
Flow 35.431 m3/h
Vel: 3.93152 fps
NET: +4156x0.01m3
UP:70.0 DN:80.1 Q=73

08-07-17 10:55:18
Flow 19.9532 m3/h
Vel: 2.21406 fps
NET: +4164x0.01m3
UP:82.2 DN:82.4 Q=72

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:55:28
Flow 12.6192 m3/h
Vel: 1.40027 fps
NET: +4169x0.01m3
UP:83.2 DN:83.3 Q=83

08-07-17 10:55:38
Flow 3.05938 m3/h
Vel: 0.339478 fps
NET: +4171x0.01m3
UP:85.4 DN:85.4 Q=63

08-07-17 10:55:48
Flow 11.3776 m3/h
Vel: 1.26249 fps
NET: +4172x0.01m3
UP:79.9 DN:70.0 Q=57

08-07-17 10:55:58
Flow 24.494 m3/h
Vel: 2.71793 fps
NET: +4177x0.01m3
UP:78.6 DN:78.7 Q=04

08-07-17 10:56:08
Flow 16.6329 m3/h
Vel: 1.84564 fps
NET: +4180x0.01m3
UP:81.0 DN:81.2 Q=58

08-07-17 10:56:18
Flow 28.4792 m3/h
Vel: 3.16014 fps
NET: +4186x0.01m3
UP:81.3 DN:81.3 Q=68

08-07-17 10:56:28
Flow 33.2496 m3/h
Vel: 3.68947 fps
NET: +4195x0.01m3
UP:80.8 DN:80.8 Q=69

08-07-17 10:56:38
Flow 35.3311 m3/h
Vel: 3.92045 fps
NET: +4204x0.01m3
UP:81.5 DN:81.5 Q=82

08-07-17 10:56:48
Flow 35.3883 m3/h
Vel: 3.92679 fps
NET: +4214x0.01m3
UP:80.8 DN:80.0 Q=80

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:56:58
Flow 35.7624 m3/h
Vel: 3.9683 fps
NET: +4224x0.01m3
UP:80.6 DN:80.7 Q=74

08-07-17 10:57:08
Flow 36.0927 m3/h
Vel: 4.00495 fps
NET: +4234x0.01m3
UP:80.5 DN:80.5 Q=76

08-07-17 10:57:18
Flow 36.3115 m3/h
Vel: 4.02922 fps
NET: +4244x0.01m3
UP:80.5 DN:80.6 Q=73

08-07-17 10:57:28
Flow 36.102 m3/h
Vel: 4.00598 fps
NET: +4254x0.01m3
UP:80.3 DN:80.4 Q=74

08-07-17 10:57:38
Flow 35.4614 m3/h
Vel: 3.9349 fps
NET: +4264x0.01m3
UP:80.3 DN:80.4 Q=76

08-07-17 10:57:48
Flow 35.8151 m3/h
Vel: 3.97415 fps
NET: +4274x0.01m3
UP:70.0 DN:70.0 Q=63

08-07-17 10:57:58
Flow 36.7025 m3/h
Vel: 4.07262 fps
NET: +4284x0.01m3
UP:80.6 DN:80.7 Q=75

08-07-17 10:58:08
Flow 35.7992 m3/h
Vel: 3.97238 fps
NET: +4294x0.01m3
UP:80.2 DN:80.1 Q=48

08-07-17 10:58:18
Flow 35.8156 m3/h
Vel: 3.9742 fps
NET: +4304x0.01m3
UP:80.6 DN:80.6 Q=70

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:58:28
Flow 36.1705 m3/h
Vel: 4.01358 fps
NET: +4314x0.01m3
UP:79.7 DN:79.7 Q=67

08-07-17 10:58:38
Flow 36.694 m3/h
Vel: 4.07167 fps
NET: +4324x0.01m3
UP:80.4 DN:80.5 Q=45

08-07-17 10:58:48
Flow 36.6697 m3/h
Vel: 4.06897 fps
NET: +4335x0.01m3
UP:79.8 DN:79.8 Q=69

08-07-17 10:58:58
Flow 36.4206 m3/h
Vel: 4.04133 fps
NET: +4345x0.01m3
UP:80.6 DN:80.6 Q=63

08-07-17 10:59:08
Flow 36.6113 m3/h
Vel: 4.0625 fps
NET: +4355x0.01m3
UP:79.9 DN:70.0 Q=66

08-07-17 10:59:18
Flow 37.1043 m3/h
Vel: 4.1172 fps
NET: +4365x0.01m3
UP:80.2 DN:80.4 Q=61

08-07-17 10:59:28
Flow 37.5383 m3/h
Vel: 4.16536 fps
NET: +4376x0.01m3
UP:80.2 DN:80.3 Q=63

08-07-17 10:59:38
Flow 37.1593 m3/h
Vel: 4.12331 fps
NET: +4386x0.01m3
UP:79.7 DN:79.9 Q=69

08-07-17 10:59:48
Flow 36.9345 m3/h
Vel: 4.09836 fps
NET: +4396x0.01m3
UP:80.2 DN:80.2 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 10:59:58
Flow 36.5785 m3/h
Vel: 4.05885 fps
NET: +4406x0.01m3
UP:80.2 DN:80.3 Q=67

08-07-17 11:00:08
Flow 36.5639 m3/h
Vel: 4.05723 fps
NET: +4417x0.01m3
UP:80.4 DN:80.3 Q=73

08-07-17 11:00:18
Flow 30.4269 m3/h
Vel: 3.37625 fps
NET: +4427x0.01m3
UP:79.4 DN:79.4 Q=62

08-07-17 11:00:28
Flow 0 m3/h
Vel: 0 fps
NET: +4431x0.01m3
UP:87.1 DN:87.1 Q=88

08-07-17 11:00:38
Flow 6.5838 m3/h
Vel: 0.730557 fps
NET: +4432x0.01m3
UP:87.8 DN:87.9 Q=83

08-07-17 11:00:48
Flow 8.52994 m3/h
Vel: 0.946507 fps
NET: +4434x0.01m3
UP:88.1 DN:88.2 Q=78

08-07-17 11:00:58
Flow 9.02971 m3/h
Vel: 1.00196 fps
NET: +4436x0.01m3
UP:88.3 DN:88.4 Q=74

08-07-17 11:01:08
Flow 9.28124 m3/h
Vel: 1.02987 fps
NET: +4439x0.01m3
UP:88.4 DN:88.5 Q=79

08-07-17 11:01:18
Flow 9.4803 m3/h
Vel: 1.05196 fps
NET: +4442x0.01m3
UP:88.4 DN:88.4 Q=81

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:01:28
Flow 7.00178 m3/h
Vel: 0.776937 fps
NET: +4444x0.01m3
UP:88.4 DN:88.4 Q=84

08-07-17 11:01:38
Flow 6.72325 m3/h
Vel: 0.746032 fps
NET: +4446x0.01m3
UP:88.4 DN:88.5 Q=80

08-07-17 11:01:48
Flow 9.019 m3/h
Vel: 1.00078 fps
NET: +4448x0.01m3
UP:88.4 DN:88.4 Q=85

08-07-17 11:01:58
Flow 10.3967 m3/h
Vel: 1.15365 fps
NET: +4451x0.01m3
UP:88.4 DN:88.4 Q=85

08-07-17 11:02:08
Flow 11.7458 m3/h
Vel: 1.30335 fps
NET: +4454x0.01m3
UP:88.1 DN:88.1 Q=83

08-07-17 11:02:18
Flow 12.44 m3/h
Vel: 1.38037 fps
NET: +4457x0.01m3
UP:88.2 DN:88.2 Q=74

08-07-17 11:02:28
Flow 13.1177 m3/h
Vel: 1.45558 fps
NET: +4461x0.01m3
UP:88.1 DN:88.2 Q=76

08-07-17 11:02:38
Flow 13.8992 m3/h
Vel: 1.5423 fps
NET: +4464x0.01m3
UP:88.1 DN:88.1 Q=84

08-07-17 11:02:48
Flow 14.3828 m3/h
Vel: 1.59596 fps
NET: +4468x0.01m3
UP:87.3 DN:87.3 Q=89

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:02:58
Flow 8.9637 m3/h
Vel: 0.994638 fps
NET: +4472x0.01m3
UP:87.5 DN:87.5 Q=74

08-07-17 11:03:08
Flow 15.1817 m3/h
Vel: 1.68461 fps
NET: +4475x0.01m3
UP:87.5 DN:87.5 Q=80

08-07-17 11:03:18
Flow 21.7969 m3/h
Vel: 2.41864 fps
NET: +4480x0.01m3
UP:83.3 DN:83.5 Q=56

08-07-17 11:03:28
Flow 0 m3/h
Vel: 0 fps
NET: +4481x0.01m3
UP:85.4 DN:85.4 Q=00

08-07-17 11:03:38
Flow 3.4953 m3/h
Vel: 0.387848 fps
NET: +4482x0.01m3
UP:87.8 DN:87.8 Q=81

08-07-17 11:03:48
Flow 5.5568 m3/h
Vel: 0.616599 fps
NET: +4483x0.01m3
UP:88.2 DN:88.2 Q=75

08-07-17 11:03:58
Flow 6.7388 m3/h
Vel: 0.747757 fps
NET: +4485x0.01m3
UP:88.3 DN:88.3 Q=78

08-07-17 11:04:08
Flow 0 m3/h
Vel: 0 fps
NET: +4487x0.01m3
UP:83.2 DN:83.3 Q=00

08-07-17 11:04:18
Flow 2.87525 m3/h
Vel: 0.319046 fps
NET: +4487x0.01m3
UP:70.8 DN:71.0 Q=08

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:04:28
Flow 17.8987 m3/h
Vel: 1.98609 fps
NET: +4490x0.01m3
UP:74.0 DN:74.4 Q=44

08-07-17 11:04:38
Flow 25.6428 m3/h
Vel: 2.8454 fps
NET: +4497x0.01m3
UP:75.7 DN:75.9 Q=62

08-07-17 11:04:48
Flow 29.7493 m3/h
Vel: 3.30107 fps
NET: +4504x0.01m3
UP:75.5 DN:75.4 Q=46

08-07-17 11:04:58
Flow 31.9017 m3/h
Vel: 3.53991 fps
NET: +4513x0.01m3
UP:76.4 DN:76.5 Q=68

08-07-17 11:05:08
Flow 33.6246 m3/h
Vel: 3.73108 fps
NET: +4522x0.01m3
UP:79.5 DN:79.6 Q=60

08-07-17 11:05:18
Flow 34.7258 m3/h
Vel: 3.85328 fps
NET: +4532x0.01m3
UP:80.1 DN:80.1 Q=70

08-07-17 11:05:28
Flow 20.2988 m3/h
Vel: 2.25241 fps
NET: +4540x0.01m3
UP:81.5 DN:81.6 Q=87

08-07-17 11:05:38
Flow 14.854 m3/h
Vel: 1.64824 fps
NET: +4545x0.01m3
UP:84.1 DN:84.2 Q=87

08-07-17 11:05:48
Flow 7.65435 m3/h
Vel: 0.849349 fps
NET: +4546x0.01m3
UP:86.3 DN:86.3 Q=67

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:05:58
Flow 6.0678 m3/h
Vel: 0.6733 fps
NET: +4548x0.01m3
UP:79.8 DN:70.0 Q=45

08-07-17 11:06:08
Flow 23.3415 m3/h
Vel: 2.59004 fps
NET: +4553x0.01m3
UP:79.9 DN:80.1 Q=37

08-07-17 11:06:18
Flow 13.4247 m3/h
Vel: 1.48964 fps
NET: +4555x0.01m3
UP:80.4 DN:80.4 Q=75

08-07-17 11:06:28
Flow 27.4626 m3/h
Vel: 3.04733 fps
NET: +4561x0.01m3
UP:81.1 DN:81.1 Q=66

08-07-17 11:06:38
Flow 32.7987 m3/h
Vel: 3.63944 fps
NET: +4570x0.01m3
UP:80.7 DN:80.8 Q=71

08-07-17 11:06:48
Flow 34.8284 m3/h
Vel: 3.86466 fps
NET: +4579x0.01m3
UP:80.8 DN:80.9 Q=74

08-07-17 11:06:58
Flow 34.9823 m3/h
Vel: 3.88174 fps
NET: +4589x0.01m3
UP:80.5 DN:80.5 Q=80

08-07-17 11:07:08
Flow 35.6255 m3/h
Vel: 3.9531 fps
NET: +4599x0.01m3
UP:79.9 DN:80.1 Q=70

08-07-17 11:07:18
Flow 35.7623 m3/h
Vel: 3.96828 fps
NET: +4609x0.01m3
UP:80.4 DN:80.6 Q=68

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:07:28
Flow 35.9701 m3/h
Vel: 3.99135 fps
NET: +4619x0.01m3
UP:79.8 DN:70.0 Q=63

08-07-17 11:07:38
Flow 36.2729 m3/h
Vel: 4.02494 fps
NET: +4629x0.01m3
UP:80.1 DN:80.2 Q=67

08-07-17 11:07:48
Flow 36.7305 m3/h
Vel: 4.07572 fps
NET: +4639x0.01m3
UP:80.3 DN:80.4 Q=66

08-07-17 11:07:18
Flow 35.7623 m3/h
Vel: 3.96828 fps
NET: +4609x0.01m3
UP:80.4 DN:80.6 Q=68

08-07-17 11:07:28
Flow 35.9701 m3/h
Vel: 3.99135 fps
NET: +4619x0.01m3
UP:79.8 DN:70.0 Q=63

08-07-17 11:07:38
Flow 36.2729 m3/h
Vel: 4.02494 fps
NET: +4629x0.01m3
UP:80.1 DN:80.2 Q=67

08-07-17 11:07:48
Flow 36.7305 m3/h
Vel: 4.07572 fps
NET: +4639x0.01m3
UP:80.3 DN:80.4 Q=66

08-07-17 11:07:58
Flow 36.6727 m3/h
Vel: 4.06931 fps
NET: +4649x0.01m3
UP:79.9 DN:70.0 Q=71

08-07-17 11:08:08
Flow 36.5109 m3/h
Vel: 4.05135 fps
NET: +4659x0.01m3
UP:79.9 DN:80.1 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:08:18
Flow 36.4417 m3/h
Vel: 4.04367 fps
NET: +4669x0.01m3
UP:70.0 DN:80.1 Q=76

08-07-17 11:08:28
Flow 36.2307 m3/h
Vel: 4.02026 fps
NET: +4679x0.01m3
UP:80.2 DN:80.4 Q=66

08-07-17 11:08:38
Flow 36.451 m3/h
Vel: 4.0447 fps
NET: +4689x0.01m3
UP:80.2 DN:80.3 Q=57

08-07-17 11:08:48
Flow 36.6399 m3/h
Vel: 4.06567 fps
NET: +4700x0.01m3
UP:80.5 DN:80.5 Q=82

08-07-17 11:08:58
Flow 36.494 m3/h
Vel: 4.04948 fps
NET: +4710x0.01m3
UP:80.1 DN:80.2 Q=64

08-07-17 11:09:08
Flow 36.4549 m3/h
Vel: 4.04514 fps
NET: +4720x0.01m3
UP:70.0 DN:70.0 Q=72

08-07-17 11:09:18
Flow 35.968 m3/h
Vel: 3.99112 fps
NET: +4730x0.01m3
UP:79.4 DN:79.5 Q=37

08-07-17 11:09:28
Flow 35.4937 m3/h
Vel: 3.93848 fps
NET: +4740x0.01m3
UP:79.9 DN:70.0 Q=48

08-07-17 11:09:38
Flow 35.116 m3/h
Vel: 3.89657 fps
NET: +4750x0.01m3
UP:80.3 DN:80.4 Q=52

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:09:48
Flow 35.1709 m3/h
Vel: 3.90266 fps
NET: +4759x0.01m3
UP:70.0 DN:80.2 Q=40

08-07-17 11:09:58
Flow 35.4865 m3/h
Vel: 3.93769 fps
NET: +4769x0.01m3
UP:80.3 DN:80.4 Q=44

08-07-17 11:10:08
Flow 34.9021 m3/h
Vel: 3.87284 fps
NET: +4779x0.01m3
UP:80.4 DN:80.4 Q=50

08-07-17 11:10:18
Flow 35.39 m3/h
Vel: 3.92698 fps
NET: +4789x0.01m3
UP:70.0 DN:70.0 Q=53

08-07-17 11:10:28
Flow 30.5148 m3/h
Vel: 3.38601 fps
NET: +4798x0.01m3
UP:79.7 DN:79.7 Q=51

08-07-17 11:10:38
Flow 0 m3/h
Vel: 0 fps
NET: +4803x0.01m3
UP:87.1 DN:87.0 Q=58

08-07-17 11:10:48
Flow 6.35807 m3/h
Vel: 0.70551 fps
NET: +4804x0.01m3
UP:87.6 DN:87.5 Q=60

08-07-17 11:10:58
Flow 8.5687 m3/h
Vel: 0.950808 fps
NET: +4806x0.01m3
UP:88.0 DN:88.0 Q=59

08-07-17 11:11:08
Flow 9.05202 m3/h
Vel: 1.00444 fps
NET: +4808x0.01m3
UP:88.3 DN:88.2 Q=42

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:11:18
Flow 9.29119 m3/h
Vel: 1.03098 fps
NET: +4811x0.01m3
UP:88.2 DN:88.2 Q=46

08-07-17 11:11:28
Flow 9.28578 m3/h
Vel: 1.03038 fps
NET: +4813x0.01m3
UP:88.2 DN:88.3 Q=54

08-07-17 11:11:38
Flow 7.29323 m3/h
Vel: 0.809277 fps
NET: +4816x0.01m3
UP:88.3 DN:88.2 Q=58

08-07-17 11:11:48
Flow 6.53916 m3/h
Vel: 0.725604 fps
NET: +4817x0.01m3
UP:88.3 DN:88.4 Q=50

08-07-17 11:11:58
Flow 9.01148 m3/h
Vel: 0.99994 fps
NET: +4820x0.01m3
UP:88.3 DN:88.2 Q=58

08-07-17 11:12:08
Flow 10.243 m3/h
Vel: 1.13659 fps
NET: +4822x0.01m3
UP:88.2 DN:88.2 Q=48

08-07-17 11:12:18
Flow 11.1397 m3/h
Vel: 1.23609 fps
NET: +4825x0.01m3
UP:88.1 DN:88.1 Q=47

08-07-17 11:12:28
Flow 12.5572 m3/h
Vel: 1.39338 fps
NET: +4829x0.01m3
UP:87.9 DN:87.9 Q=65

08-07-17 11:12:38
Flow 12.9595 m3/h
Vel: 1.43802 fps
NET: +4832x0.01m3
UP:88.1 DN:88.1 Q=61

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:12:48
Flow 13.8697 m3/h
Vel: 1.53902 fps
NET: +4836x0.01m3
UP:87.9 DN:88.0 Q=60

08-07-17 11:12:58
Flow 14.7133 m3/h
Vel: 1.63263 fps
NET: +4840x0.01m3
UP:87.6 DN:87.6 Q=55

08-07-17 11:13:08
Flow 8.91891 m3/h
Vel: 0.989668 fps
NET: +4843x0.01m3
UP:88.0 DN:88.1 Q=62

08-07-17 11:13:18
Flow 12.9641 m3/h
Vel: 1.43854 fps
NET: +4846x0.01m3
UP:86.6 DN:86.6 Q=60

08-07-17 11:13:28
Flow 19.8179 m3/h
Vel: 2.19906 fps
NET: +4851x0.01m3
UP:82.7 DN:82.8 Q=36

08-07-17 11:13:38
Flow 16.1107 m3/h
Vel: 1.78769 fps
NET: +4856x0.01m3
UP:83.5 DN:83.6 Q=68

08-07-17 11:13:48
Flow 9.81356 m3/h
Vel: 1.08894 fps
NET: +4859x0.01m3
UP:87.5 DN:87.5 Q=62

08-07-17 11:13:58
Flow 3.03271 m3/h
Vel: 0.336518 fps
NET: +4860x0.01m3
UP:88.1 DN:88.1 Q=51

08-07-17 11:14:08
Flow 5.46095 m3/h
Vel: 0.605963 fps
NET: +4861x0.01m3
UP:88.1 DN:88.1 Q=52

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:14:18
Flow 0 m3/h
Vel: 0 fps
NET: +4863x0.01m3
UP:82.7 DN:82.8 Q=00

08-07-17 11:14:28
Flow 0 m3/h
Vel: 0 fps
NET: +4863x0.01m3
UP:72.8 DN:73.4 Q=17

08-07-17 11:14:38
Flow 0 m3/h
Vel: 0 fps
NET: +4863x0.01m3
UP:73.1 DN:73.5 Q=06

08-07-17 11:14:48
Flow 0 m3/h
Vel: 0 fps
NET: +4863x0.01m3
UP:71.8 DN:72.8 Q=22

08-07-17 11:14:58
Flow 2.41582 m3/h
Vel: 0.268066 fps
NET: +4863x0.01m3
UP:74.2 DN:74.6 Q=10

08-07-17 11:15:08
Flow 9.2652 m3/h
Vel: 1.02809 fps
NET: +4864x0.01m3
UP:75.7 DN:75.9 Q=49

08-07-17 11:15:18
Flow 9.63527 m3/h
Vel: 1.06916 fps
NET: +4866x0.01m3
UP:79.3 DN:79.5 Q=41

08-07-17 11:15:28
Flow 24.1254 m3/h
Vel: 2.67702 fps
NET: +4871x0.01m3
UP:80.2 DN:80.2 Q=46

08-07-17 11:15:38
Flow 17.0408 m3/h
Vel: 1.8909 fps
NET: +4878x0.01m3
UP:81.0 DN:81.2 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:15:48
Flow 16.9843 m3/h
Vel: 1.88463 fps
NET: +4883x0.01m3
UP:83.8 DN:83.9 Q=53

08-07-17 11:15:58
Flow 6.30167 m3/h
Vel: 0.699251 fps
NET: +4884x0.01m3
UP:86.5 DN:86.4 Q=46

08-07-17 11:16:08
Flow 30.7376 m3/h
Vel: 3.41074 fps
NET: +4887x0.01m3
UP:79.4 DN:79.7 Q=06

08-07-17 11:16:18
Flow 33.1096 m3/h
Vel: 3.67394 fps
NET: +4896x0.01m3
UP:79.9 DN:80.1 Q=12

08-07-17 11:16:28
Flow 12.5723 m3/h
Vel: 1.39505 fps
NET: +4898x0.01m3
UP:80.5 DN:80.6 Q=59

08-07-17 11:16:38
Flow 27.1653 m3/h
Vel: 3.01435 fps
NET: +4904x0.01m3
UP:80.8 DN:80.8 Q=06

08-07-17 11:16:48
Flow 32.5658 m3/h
Vel: 3.6136 fps
NET: +4912x0.01m3
UP:80.3 DN:80.4 Q=50

08-07-17 11:16:58
Flow 34.2802 m3/h
Vel: 3.80383 fps
NET: +4922x0.01m3
UP:81.1 DN:81.2 Q=56

08-07-17 11:17:08
Flow 34.9196 m3/h
Vel: 3.87478 fps
NET: +4931x0.01m3
UP:80.6 DN:80.8 Q=48

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:17:18
Flow 34.9551 m3/h
Vel: 3.87872 fps
NET: +4941x0.01m3
UP:79.3 DN:79.3 Q=35

08-07-17 11:17:28
Flow 34.5557 m3/h
Vel: 3.8344 fps
NET: +4951x0.01m3
UP:80.2 DN:80.2 Q=04

08-07-17 11:17:38
Flow 35.4441 m3/h
Vel: 3.93298 fps
NET: +4960x0.01m3
UP:80.2 DN:80.1 Q=41

08-07-17 11:17:48
Flow 35.2281 m3/h
Vel: 3.90901 fps
NET: +4970x0.01m3
UP:80.3 DN:80.4 Q=53

08-07-17 11:17:58
Flow 35.7948 m3/h
Vel: 3.9719 fps
NET: +4980x0.01m3
UP:79.9 DN:79.9 Q=41

08-07-17 11:18:08
Flow 35.609 m3/h
Vel: 3.95128 fps
NET: +4990x0.01m3
UP:79.7 DN:79.9 Q=46

08-07-17 11:18:18
Flow 34.6 m3/h
Vel: 3.83932 fps
NET: +5000x0.01m3
UP:80.1 DN:80.1 Q=71

08-07-17 11:18:28
Flow 35.255 m3/h
Vel: 3.91199 fps
NET: +5009x0.01m3
UP:79.9 DN:79.8 Q=44

08-07-17 11:18:38
Flow 35.1918 m3/h
Vel: 3.90498 fps
NET: +5019x0.01m3
UP:79.7 DN:79.8 Q=51

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:18:48
Flow 34.5377 m3/h
Vel: 3.8324 fps
NET: +5029x0.01m3
UP:70.0 DN:80.1 Q=59

08-07-17 11:18:58
Flow 34.3883 m3/h
Vel: 3.81582 fps
NET: +5038x0.01m3
UP:79.9 DN:80.2 Q=55

08-07-17 11:19:08
Flow 34.8103 m3/h
Vel: 3.86265 fps
NET: +5048x0.01m3
UP:79.6 DN:79.7 Q=48

08-07-17 11:19:18
Flow 34.6721 m3/h
Vel: 3.84732 fps
NET: +5058x0.01m3
UP:79.6 DN:79.6 Q=40

08-07-17 11:19:28
Flow 35.0387 m3/h
Vel: 3.88799 fps
NET: +5067x0.01m3
UP:79.7 DN:79.8 Q=48

08-07-17 11:19:38
Flow 50.5982 m3/h
Vel: 5.61452 fps
NET: +5077x0.01m3
UP:79.9 DN:79.8 Q=47

08-07-17 11:19:48
Flow 41.7198 m3/h
Vel: 4.62935 fps
NET: +5090x0.01m3
UP:80.1 DN:80.2 Q=04

08-07-17 11:19:58
Flow 38.1914 m3/h
Vel: 4.23783 fps
NET: +5101x0.01m3
UP:80.1 DN:80.2 Q=48

08-07-17 11:20:08
Flow 36.6166 m3/h
Vel: 4.06308 fps
NET: +5111x0.01m3
UP:79.9 DN:70.0 Q=46

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:20:18
Flow 35.6703 m3/h
Vel: 3.95807 fps
NET: +5121x0.01m3
UP:79.9 DN:70.0 Q=45

08-07-17 11:20:28
Flow 35.6467 m3/h
Vel: 3.95546 fps
NET: +5131x0.01m3
UP:80.1 DN:80.3 Q=59

08-07-17 11:20:38
Flow 32.0432 m3/h
Vel: 3.55561 fps
NET: +5141x0.01m3
UP:70.0 DN:80.2 Q=48

08-07-17 11:20:48
Flow 0 m3/h
Vel: 0 fps
NET: +5146x0.01m3
UP:86.7 DN:86.9 Q=60

08-07-17 11:20:58
Flow 6.70591 m3/h
Vel: 0.744107 fps
NET: +5147x0.01m3
UP:87.3 DN:87.4 Q=67

08-07-17 11:21:08
Flow 8.57386 m3/h
Vel: 0.95138 fps
NET: +5149x0.01m3
UP:87.9 DN:87.9 Q=61

08-07-17 11:21:18
Flow 9.09224 m3/h
Vel: 1.0089 fps
NET: +5151x0.01m3
UP:87.9 DN:88.0 Q=60

08-07-17 11:21:28
Flow 9.21354 m3/h
Vel: 1.02236 fps
NET: +5154x0.01m3
UP:88.0 DN:88.1 Q=54

08-07-17 11:21:38
Flow 9.37588 m3/h
Vel: 1.04038 fps
NET: +5156x0.01m3
UP:88.1 DN:88.0 Q=53

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:21:48
Flow 7.15641 m3/h
Vel: 0.794096 fps
NET: +5159x0.01m3
UP:88.1 DN:88.1 Q=66

08-07-17 11:21:58
Flow 6.58131 m3/h
Vel: 0.730282 fps
NET: +5160x0.01m3
UP:88.0 DN:88.2 Q=57

08-07-17 11:22:08
Flow 8.66595 m3/h
Vel: 0.961599 fps
NET: +5163x0.01m3
UP:88.1 DN:88.1 Q=64

08-07-17 11:22:18
Flow 9.97995 m3/h
Vel: 1.1074 fps
NET: +5165x0.01m3
UP:88.0 DN:88.0 Q=56

08-07-17 11:22:28
Flow 11.1288 m3/h
Vel: 1.23488 fps
NET: +5168x0.01m3
UP:87.9 DN:88.0 Q=57

08-07-17 11:22:38
Flow 12.1904 m3/h
Vel: 1.35268 fps
NET: +5171x0.01m3
UP:87.9 DN:87.7 Q=46

08-07-17 11:22:48
Flow 12.9778 m3/h
Vel: 1.44006 fps
NET: +5175x0.01m3
UP:87.7 DN:87.8 Q=62

08-07-17 11:22:58
Flow 13.7801 m3/h
Vel: 1.52908 fps
NET: +5179x0.01m3
UP:87.8 DN:87.8 Q=46

08-07-17 11:23:08
Flow 14.7297 m3/h
Vel: 1.63445 fps
NET: +5183x0.01m3
UP:87.5 DN:87.6 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:23:18
Flow 9.18255 m3/h
Vel: 1.01892 fps
NET: +5186x0.01m3
UP:87.6 DN:87.7 Q=60

08-07-17 11:23:28
Flow 13.3948 m3/h
Vel: 1.48633 fps
NET: +5189x0.01m3
UP:86.5 DN:86.6 Q=63

08-07-17 11:23:38
Flow 20.0296 m3/h
Vel: 2.22254 fps
NET: +5194x0.01m3
UP:82.5 DN:82.6 Q=46

08-07-17 11:23:48
Flow 16.2717 m3/h
Vel: 1.80555 fps
NET: +5199x0.01m3
UP:82.5 DN:82.7 Q=67

08-07-17 11:23:58
Flow 0 m3/h
Vel: 0 fps
NET: +5200x0.01m3
UP:87.0 DN:87.0 Q=60

08-07-17 11:24:08
Flow 5.01893 m3/h
Vel: 0.556915 fps
NET: +5201x0.01m3
UP:87.9 DN:87.9 Q=58

08-07-17 11:24:18
Flow 6.34935 m3/h
Vel: 0.704543 fps
NET: +5203x0.01m3
UP:88.0 DN:88.0 Q=62

08-07-17 11:24:28
Flow 0 m3/h
Vel: 0 fps
NET: +5205x0.01m3
UP:82.6 DN:82.7 Q=00

08-07-17 11:24:38
Flow 0 m3/h
Vel: 0 fps
NET: +5205x0.01m3
UP:73.9 DN:74.2 Q=04

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:24:48
Flow 6.1678 m3/h
Vel: 0.684397 fps
NET: +5206x0.01m3
UP:74.4 DN:74.6 Q=05

08-07-17 11:24:58
Flow 7.26053 m3/h
Vel: 0.80565 fps
NET: +5208x0.01m3
UP:72.4 DN:72.9 Q=20

08-07-17 11:25:08
Flow 8.43971 m3/h
Vel: 0.936494 fps
NET: +5210x0.01m3
UP:74.4 DN:74.5 Q=12

08-07-17 11:25:18
Flow 11.5098 m3/h
Vel: 1.27716 fps
NET: +5213x0.01m3
UP:76.0 DN:76.0 Q=33

08-07-17 11:25:28
Flow 25.3645 m3/h
Vel: 2.81451 fps
NET: +5218x0.01m3
UP:79.4 DN:79.7 Q=59

08-07-17 11:25:38
Flow 30.1433 m3/h
Vel: 3.34479 fps
NET: +5226x0.01m3
UP:79.9 DN:79.8 Q=54

08-07-17 11:25:48
Flow 20.1551 m3/h
Vel: 2.23647 fps
NET: +5234x0.01m3
UP:81.7 DN:81.7 Q=72

08-07-17 11:25:58
Flow 15.0769 m3/h
Vel: 1.67298 fps
NET: +5238x0.01m3
UP:83.6 DN:83.7 Q=58

08-07-17 11:26:08
Flow 11.0436 m3/h
Vel: 1.22543 fps
NET: +5241x0.01m3
UP:86.4 DN:86.5 Q=59

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:26:18
Flow 4.55002 m3/h
Vel: 0.504884 fps
NET: +5243x0.01m3
UP:79.4 DN:79.5 Q=09

08-07-17 11:26:28
Flow 21.3132 m3/h
Vel: 2.36497 fps
NET: +5247x0.01m3
UP:79.3 DN:79.3 Q=07

08-07-17 11:26:38
Flow 8.65516 m3/h
Vel: 0.960402 fps
NET: +5249x0.01m3
UP:80.2 DN:80.2 Q=47

08-07-17 11:26:48
Flow 25.3742 m3/h
Vel: 2.8156 fps
NET: +5255x0.01m3
UP:80.8 DN:81.1 Q=51

08-07-17 11:26:58
Flow 30.6704 m3/h
Vel: 3.40327 fps
NET: +5262x0.01m3
UP:80.5 DN:80.6 Q=60

08-07-17 11:27:08
Flow 33.0931 m3/h
Vel: 3.6721 fps
NET: +5271x0.01m3
UP:81.1 DN:81.1 Q=57

08-07-17 11:27:18
Flow 34.1945 m3/h
Vel: 3.79432 fps
NET: +5281x0.01m3
UP:80.5 DN:80.5 Q=34

08-07-17 11:27:28
Flow 35.3029 m3/h
Vel: 3.91731 fps
NET: +5291x0.01m3
UP:80.3 DN:80.3 Q=58

08-07-17 11:27:38
Flow 35.8177 m3/h
Vel: 3.97444 fps
NET: +5300x0.01m3
UP:80.2 DN:80.3 Q=58

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:27:48
Flow 35.8343 m3/h
Vel: 3.97628 fps
NET: +5310x0.01m3
UP:79.7 DN:79.9 Q=47

08-07-17 11:27:58
Flow 35.7588 m3/h
Vel: 3.9679 fps
NET: +5320x0.01m3
UP:80.1 DN:80.1 Q=47

08-07-17 11:28:08
Flow 45.5241 m3/h
Vel: 5.05148 fps
NET: +5331x0.01m3
UP:80.0 DN:80.1 Q=39

08-07-17 11:28:18
Flow 39.6808 m3/h
Vel: 4.4031 fps
NET: +5343x0.01m3
UP:79.7 DN:80.1 Q=34

08-07-17 11:28:28
Flow 35.9134 m3/h
Vel: 3.98505 fps
NET: +5353x0.01m3
UP:80.1 DN:80.1 Q=42

08-07-17 11:28:38
Flow 35.8166 m3/h
Vel: 3.97431 fps
NET: +5363x0.01m3
UP:80.1 DN:80.1 Q=55

08-07-17 11:28:48
Flow 35.7503 m3/h
Vel: 3.96696 fps
NET: +5373x0.01m3
UP:79.9 DN:79.9 Q=48

08-07-17 11:28:58
Flow 35.6832 m3/h
Vel: 3.95951 fps
NET: +5383x0.01m3
UP:79.9 DN:80.1 Q=44

08-07-17 11:29:08
Flow 35.0593 m3/h
Vel: 3.89028 fps
NET: +5393x0.01m3
UP:79.7 DN:79.9 Q=48

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:29:18
Flow 35.6981 m3/h
Vel: 3.96116 fps
NET: +5403x0.01m3
UP:79.6 DN:79.6 Q=53

08-07-17 11:29:28
Flow 34.9872 m3/h
Vel: 3.88228 fps
NET: +5413x0.01m3
UP:79.5 DN:79.7 Q=46

08-07-17 11:29:38
Flow 36.2423 m3/h
Vel: 4.02155 fps
NET: +5422x0.01m3
UP:79.9 DN:79.9 Q=46

08-07-17 11:29:48
Flow 36.3262 m3/h
Vel: 4.03086 fps
NET: +5432x0.01m3
UP:79.7 DN:79.9 Q=39

08-07-17 11:29:58
Flow 35.2246 m3/h
Vel: 3.90862 fps
NET: +5442x0.01m3
UP:70.0 DN:70.0 Q=54

08-07-17 11:30:08
Flow 35.2817 m3/h
Vel: 3.91496 fps
NET: +5452x0.01m3
UP:79.8 DN:80.2 Q=40

08-07-17 11:30:18
Flow 35.9289 m3/h
Vel: 3.98678 fps
NET: +5462x0.01m3
UP:80.1 DN:80.2 Q=34

08-07-17 11:30:28
Flow 35.4774 m3/h
Vel: 3.93668 fps
NET: +5472x0.01m3
UP:79.5 DN:79.8 Q=47

08-07-17 11:30:38
Flow 35.7408 m3/h
Vel: 3.9659 fps
NET: +5482x0.01m3
UP:79.9 DN:79.9 Q=47

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:30:48
Flow 32.1269 m3/h
Vel: 3.56489 fps
NET: +5492x0.01m3
UP:79.5 DN:79.6 Q=54

08-07-17 11:30:58
Flow 0 m3/h
Vel: 0 fps
NET: +5497x0.01m3
UP:86.7 DN:86.9 Q=00

08-07-17 11:31:08
Flow 5.89803 m3/h
Vel: 0.654462 fps
NET: +5498x0.01m3
UP:87.2 DN:87.2 Q=58

08-07-17 11:31:18
Flow 8.38734 m3/h
Vel: 0.930684 fps
NET: +5500x0.01m3
UP:87.6 DN:87.7 Q=58

08-07-17 11:31:28
Flow 9.25579 m3/h
Vel: 1.02705 fps
NET: +5502x0.01m3
UP:87.8 DN:87.8 Q=57

08-07-17 11:31:38
Flow 9.08157 m3/h
Vel: 1.00772 fps
NET: +5505x0.01m3
UP:87.9 DN:87.9 Q=63

08-07-17 11:31:48
Flow 9.10857 m3/h
Vel: 1.01071 fps
NET: +5507x0.01m3
UP:87.9 DN:87.9 Q=50

08-07-17 11:31:58
Flow 7.47017 m3/h
Vel: 0.828912 fps
NET: +5510x0.01m3
UP:87.9 DN:88.0 Q=57

08-07-17 11:32:08
Flow 6.30286 m3/h
Vel: 0.699383 fps
NET: +5511x0.01m3
UP:87.8 DN:87.9 Q=57

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:32:18
Flow 8.46274 m3/h
Vel: 0.93905 fps
NET: +5513x0.01m3
UP:87.9 DN:87.9 Q=59

08-07-17 11:32:28
Flow 9.74348 m3/h
Vel: 1.08117 fps
NET: +5516x0.01m3
UP:87.8 DN:87.9 Q=55

08-07-17 11:32:38
Flow 11.2164 m3/h
Vel: 1.2446 fps
NET: +5519x0.01m3
UP:87.7 DN:87.7 Q=65

08-07-17 11:32:48
Flow 11.632 m3/h
Vel: 1.29072 fps
NET: +5522x0.01m3
UP:87.5 DN:87.6 Q=54

08-07-17 11:32:58
Flow 12.9764 m3/h
Vel: 1.43989 fps
NET: +5525x0.01m3
UP:87.7 DN:87.8 Q=60

08-07-17 11:33:08
Flow 13.7434 m3/h
Vel: 1.525 fps
NET: +5529x0.01m3
UP:87.5 DN:87.5 Q=66

08-07-17 11:33:18
Flow 14.5716 m3/h
Vel: 1.61691 fps
NET: +5533x0.01m3
UP:87.4 DN:87.4 Q=48

08-07-17 11:33:28
Flow 9.52993 m3/h
Vel: 1.05747 fps
NET: +5537x0.01m3
UP:87.3 DN:87.3 Q=46

08-07-17 11:33:38
Flow 12.8948 m3/h
Vel: 1.43084 fps
NET: +5539x0.01m3
UP:86.4 DN:86.4 Q=58

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:33:48
Flow 19.7554 m3/h
Vel: 2.19212 fps
NET: +5544x0.01m3
UP:82.3 DN:82.3 Q=36

08-07-17 11:33:58
Flow 23.2921 m3/h
Vel: 2.58456 fps
NET: +5550x0.01m3
UP:81.0 DN:82.1 Q=69

08-07-17 11:34:08
Flow 0 m3/h
Vel: 0 fps
NET: +5552x0.01m3
UP:87.2 DN:87.2 Q=64

08-07-17 11:34:18
Flow 4.84858 m3/h
Vel: 0.538012 fps
NET: +5553x0.01m3
UP:87.6 DN:87.7 Q=56

08-07-17 11:34:28
Flow 6.1896 m3/h
Vel: 0.686816 fps
NET: +5554x0.01m3
UP:87.7 DN:87.7 Q=60

08-07-17 11:34:38
Flow 0 m3/h
Vel: 0 fps
NET: +5556x0.01m3
UP:83.3 DN:83.5 Q=00

08-07-17 11:34:48
Flow 0 m3/h
Vel: 0 fps
NET: +5556x0.01m3
UP:73.1 DN:73.7 Q=19

08-07-17 11:34:58
Flow 0 m3/h
Vel: 0 fps
NET: +5556x0.01m3
UP:74.4 DN:74.5 Q=17

08-07-17 11:35:08
Flow 0 m3/h
Vel: 0 fps
NET: +5556x0.01m3
UP:72.0 DN:73.0 Q=21

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:35:18
Flow 0 m3/h
Vel: 0 fps
NET: +5556x0.01m3
UP:73.1 DN:73.7 Q=08

08-07-17 11:35:28
Flow 2.64063 m3/h
Vel: 0.293012 fps
NET: +5556x0.01m3
UP:74.3 DN:74.9 Q=08

08-07-17 11:35:38
Flow 8.43061 m3/h
Vel: 0.935485 fps
NET: +5557x0.01m3
UP:79.4 DN:79.7 Q=45

08-07-17 11:35:48
Flow 23.4715 m3/h
Vel: 2.60447 fps
NET: +5562x0.01m3
UP:79.9 DN:80.1 Q=45

08-07-17 11:35:58
Flow 17.5951 m3/h
Vel: 1.9524 fps
NET: +5569x0.01m3
UP:80.6 DN:80.7 Q=63

08-07-17 11:36:08
Flow 13.4178 m3/h
Vel: 1.48887 fps
NET: +5573x0.01m3
UP:81.2 DN:81.4 Q=50

08-07-17 11:36:18
Flow 6.71935 m3/h
Vel: 0.745599 fps
NET: +5574x0.01m3
UP:86.2 DN:86.3 Q=50

08-07-17 11:36:28
Flow 31.9909 m3/h
Vel: 3.5498 fps
NET: +5577x0.01m3
UP:79.1 DN:79.2 Q=21

08-07-17 11:36:38
Flow 33.8233 m3/h
Vel: 3.75313 fps
NET: +5586x0.01m3
UP:79.7 DN:79.9 Q=10

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:36:48
Flow 34.1837 m3/h
Vel: 3.79312 fps
NET: +5593x0.01m3
UP:79.5 DN:79.7 Q=50

08-07-17 11:36:58
Flow 34.9752 m3/h
Vel: 3.88095 fps
NET: +5602x0.01m3
UP:80.7 DN:80.8 Q=39

08-07-17 11:37:08
Flow 35.5313 m3/h
Vel: 3.94265 fps
NET: +5612x0.01m3
UP:80.5 DN:80.7 Q=46

08-07-17 11:37:18
Flow 35.189 m3/h
Vel: 3.90467 fps
NET: +5622x0.01m3
UP:80.7 DN:80.7 Q=56

08-07-17 11:37:28
Flow 34.957 m3/h
Vel: 3.87893 fps
NET: +5632x0.01m3
UP:79.7 DN:79.7 Q=48

08-07-17 11:37:38
Flow 35.0319 m3/h
Vel: 3.88724 fps
NET: +5641x0.01m3
UP:79.7 DN:79.7 Q=48

08-07-17 11:37:48
Flow 35.2264 m3/h
Vel: 3.90882 fps
NET: +5651x0.01m3
UP:79.6 DN:79.8 Q=45

08-07-17 11:39:28
Flow 35.2413 m3/h
Vel: 3.91048 fps
NET: +5749x0.01m3
UP:79.3 DN:79.3 Q=44

08-07-17 11:39:38
Flow 41.285 m3/h
Vel: 4.5811 fps
NET: +5762x0.01m3
UP:79.9 DN:70.0 Q=70

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:39:48
Flow 37.6019 m3/h
Vel: 4.17241 fps
NET: +5773x0.01m3
UP:79.5 DN:79.7 Q=51

08-07-17 11:39:58
Flow 36.0071 m3/h
Vel: 3.99545 fps
NET: +5783x0.01m3
UP:79.6 DN:79.5 Q=42

08-07-17 11:40:08
Flow 36.1605 m3/h
Vel: 4.01248 fps
NET: +5793x0.01m3
UP:80.1 DN:80.2 Q=62

08-07-17 11:40:18
Flow 35.8589 m3/h
Vel: 3.979 fps
NET: +5803x0.01m3
UP:79.4 DN:79.7 Q=50

08-07-17 11:40:28
Flow 36.376 m3/h
Vel: 4.03639 fps
NET: +5813x0.01m3
UP:79.7 DN:79.9 Q=55

08-07-17 11:40:38
Flow 36.1005 m3/h
Vel: 4.00581 fps
NET: +5823x0.01m3
UP:79.6 DN:79.7 Q=53

08-07-17 11:40:48
Flow 36.269 m3/h
Vel: 4.02452 fps
NET: +5833x0.01m3
UP:79.1 DN:79.4 Q=63

08-07-17 11:40:58
Flow 33.2068 m3/h
Vel: 3.68472 fps
NET: +5843x0.01m3
UP:79.6 DN:79.6 Q=47

08-07-17 11:41:08
Flow 0 m3/h
Vel: 0 fps
NET: +5849x0.01m3
UP:86.6 DN:86.6 Q=00

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:41:18
Flow 5.87704 m3/h
Vel: 0.652133 fps
NET: +5849x0.01m3
UP:86.0 DN:86.0 Q=55

08-07-17 11:41:28
Flow 8.33814 m3/h
Vel: 0.925225 fps
NET: +5851x0.01m3
UP:87.4 DN:87.5 Q=51

08-07-17 11:41:38
Flow 9.01249 m3/h
Vel: 1.00005 fps
NET: +5854x0.01m3
UP:87.6 DN:87.6 Q=56

08-07-17 11:41:48
Flow 8.94117 m3/h
Vel: 0.992138 fps
NET: +5856x0.01m3
UP:87.6 DN:87.7 Q=58

08-07-17 11:41:58
Flow 9.13549 m3/h
Vel: 1.0137 fps
NET: +5859x0.01m3
UP:87.7 DN:87.7 Q=59

08-07-17 11:42:08
Flow 7.69766 m3/h
Vel: 0.854155 fps
NET: +5861x0.01m3
UP:87.6 DN:87.7 Q=64

08-07-17 11:42:18
Flow 6.1685 m3/h
Vel: 0.684474 fps
NET: +5863x0.01m3
UP:87.8 DN:87.8 Q=56

08-07-17 11:42:28
Flow 8.50391 m3/h
Vel: 0.943618 fps
NET: +5865x0.01m3
UP:87.7 DN:87.8 Q=58

08-07-17 11:42:38
Flow 9.94091 m3/h
Vel: 1.10307 fps
NET: +5867x0.01m3
UP:87.7 DN:87.8 Q=50

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:42:48
Flow 11.0077 m3/h
Vel: 1.22144 fps
NET: +5870x0.01m3
UP:87.4 DN:87.4 Q=63

08-07-17 11:42:58
Flow 12.0406 m3/h
Vel: 1.33606 fps
NET: +5874x0.01m3
UP:87.3 DN:87.4 Q=58

08-07-17 11:43:08
Flow 12.7742 m3/h
Vel: 1.41746 fps
NET: +5877x0.01m3
UP:87.3 DN:87.3 Q=43

08-07-17 11:43:18
Flow 13.94 m3/h
Vel: 1.54682 fps
NET: +5881x0.01m3
UP:87.4 DN:87.5 Q=50

08-07-17 11:43:28
Flow 14.419 m3/h
Vel: 1.59997 fps
NET: +5885x0.01m3
UP:87.0 DN:86.0 Q=54

08-07-17 11:43:38
Flow 9.93455 m3/h
Vel: 1.10237 fps
NET: +5888x0.01m3
UP:87.1 DN:87.2 Q=63

08-07-17 11:43:48
Flow 13.5018 m3/h
Vel: 1.4982 fps
NET: +5891x0.01m3
UP:85.6 DN:85.7 Q=49

08-07-17 11:43:58
Flow 20.8488 m3/h
Vel: 2.31345 fps
NET: +5896x0.01m3
UP:82.0 DN:82.1 Q=72

08-07-17 11:44:08
Flow 6.14005 m3/h
Vel: 0.681318 fps
NET: +5899x0.01m3
UP:84.2 DN:84.3 Q=86

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:44:18
Flow 6.39932 m3/h
Vel: 0.710086 fps
NET: +5900x0.01m3
UP:86.8 DN:86.9 Q=81

08-07-17 11:44:28
Flow 6.77395 m3/h
Vel: 0.751657 fps
NET: +5901x0.01m3
UP:87.4 DN:87.5 Q=80

08-07-17 11:44:38
Flow 7.25687 m3/h
Vel: 0.805244 fps
NET: +5903x0.01m3
UP:87.5 DN:87.6 Q=75

08-07-17 11:44:48
Flow 0 m3/h
Vel: 0 fps
NET: +5906x0.01m3
UP:82.6 DN:82.8 Q=00

08-07-17 11:44:58
Flow 2.41606 m3/h
Vel: 0.268093 fps
NET: +5906x0.01m3
UP:72.5 DN:73.0 Q=37

08-07-17 11:45:08
Flow 19.2524 m3/h
Vel: 2.1363 fps
NET: +5910x0.01m3
UP:74.3 DN:74.4 Q=09

08-07-17 11:45:18
Flow 23.9062 m3/h
Vel: 2.6527 fps
NET: +5916x0.01m3
UP:71.3 DN:71.5 Q=54

08-07-17 11:45:28
Flow 28.3352 m3/h
Vel: 3.14415 fps
NET: +5924x0.01m3
UP:73.0 DN:73.0 Q=46

08-07-17 11:45:38
Flow 31.0903 m3/h
Vel: 3.44987 fps
NET: +5932x0.01m3
UP:74.1 DN:74.2 Q=52

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:45:48
Flow 7.0895 m3/h
Vel: 0.786672 fps
NET: +5936x0.01m3
UP:78.9 DN:79.1 Q=66

08-07-17 11:45:58
Flow 23.8731 m3/h
Vel: 2.64903 fps
NET: +5940x0.01m3
UP:79.3 DN:79.4 Q=65

08-07-17 11:46:08
Flow 19.5894 m3/h
Vel: 2.1737 fps
NET: +5947x0.01m3
UP:80.6 DN:80.7 Q=88

08-07-17 11:46:18
Flow 16.8666 m3/h
Vel: 1.87156 fps
NET: +5951x0.01m3
UP:83.2 DN:83.2 Q=65

08-07-17 11:46:28
Flow 10.3822 m3/h
Vel: 1.15204 fps
NET: +5954x0.01m3
UP:86.5 DN:86.6 Q=64

08-07-17 11:46:38
Flow 4.23305 m3/h
Vel: 0.469712 fps
NET: +5956x0.01m3
UP:79.3 DN:79.4 Q=42

08-07-17 11:46:48
Flow 20.5069 m3/h
Vel: 2.2755 fps
NET: +5959x0.01m3
UP:79.3 DN:79.4 Q=33

08-07-17 11:46:58
Flow 11.2897 m3/h
Vel: 1.25274 fps
NET: +5962x0.01m3
UP:79.5 DN:79.7 Q=49

08-07-17 11:47:08
Flow 26.1398 m3/h
Vel: 2.90054 fps
NET: +5967x0.01m3
UP:79.9 DN:80.0 Q=38

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:47:18
Flow 31.4099 m3/h
Vel: 3.48534 fps
NET: +5975x0.01m3
UP:80.2 DN:80.3 Q=49

08-07-17 11:47:28
Flow 33.5029 m3/h
Vel: 3.71758 fps
NET: +5984x0.01m3
UP:80.5 DN:80.5 Q=45

08-07-17 11:47:38
Flow 34.9276 m3/h
Vel: 3.87566 fps
NET: +5994x0.01m3
UP:80.3 DN:80.3 Q=48

08-07-17 11:47:48
Flow 35.4306 m3/h
Vel: 3.93148 fps
NET: +6004x0.01m3
UP:79.6 DN:79.7 Q=53

08-07-17 11:47:58
Flow 35.2805 m3/h
Vel: 3.91483 fps
NET: +6014x0.01m3
UP:79.4 DN:79.6 Q=48

08-07-17 11:48:08
Flow 35.8406 m3/h
Vel: 3.97698 fps
NET: +6023x0.01m3
UP:79.9 DN:80.0 Q=68

08-07-17 11:48:18
Flow 35.6334 m3/h
Vel: 3.95398 fps
NET: +6033x0.01m3
UP:79.5 DN:79.6 Q=61

08-07-17 11:48:28
Flow 36.0713 m3/h
Vel: 4.00257 fps
NET: +6043x0.01m3
UP:79.5 DN:79.6 Q=65

08-07-17 11:48:38
Flow 36.2295 m3/h
Vel: 4.02013 fps
NET: +6053x0.01m3
UP:79.6 DN:79.6 Q=59

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:48:46
Flow 36.3078 m3/h
Vel: 4.02882 fps
NET: +6061x0.01m3
UP:79.5 DN:79.5 Q=57

08-07-17 11:48:56
Flow 36.2522 m3/h
Vel: 4.02265 fps
NET: +6072x0.01m3
UP:79.9 DN:70.0 Q=62

08-07-17 11:49:06
Flow 36.0546 m3/h
Vel: 4.00072 fps
NET: +6082x0.01m3
UP:79.5 DN:79.3 Q=50

08-07-17 11:49:16
Flow 35.8412 m3/h
Vel: 3.97705 fps
NET: +6091x0.01m3
UP:79.0 DN:79.2 Q=51

08-07-17 11:49:26
Flow 35.0028 m3/h
Vel: 3.88401 fps
NET: +6101x0.01m3
UP:79.2 DN:79.2 Q=57

08-07-17 11:49:36
Flow 35.4398 m3/h
Vel: 3.9325 fps
NET: +6111x0.01m3
UP:79.6 DN:79.6 Q=58

08-07-17 11:49:46
Flow 35.674 m3/h
Vel: 3.95849 fps
NET: +6121x0.01m3
UP:79.7 DN:79.8 Q=50

08-07-17 11:49:56
Flow 36.1883 m3/h
Vel: 4.01556 fps
NET: +6131x0.01m3
UP:79.7 DN:79.6 Q=37

08-07-17 11:50:06
Flow 35.7535 m3/h
Vel: 3.96731 fps
NET: +6141x0.01m3
UP:79.4 DN:79.5 Q=60

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:50:16
Flow 34.9294 m3/h
Vel: 3.87587 fps
NET: +6151x0.01m3
UP:79.8 DN:79.7 Q=62

08-07-17 11:50:26
Flow 35.7246 m3/h
Vel: 3.9641 fps
NET: +6160x0.01m3
UP:79.1 DN:79.3 Q=51

08-07-17 11:50:36
Flow 36.5749 m3/h
Vel: 4.05846 fps
NET: +6171x0.01m3
UP:79.1 DN:79.1 Q=44

08-07-17 11:50:46
Flow 35.7677 m3/h
Vel: 3.96889 fps
NET: +6181x0.01m3
UP:79.4 DN:79.5 Q=62

08-07-17 11:50:56
Flow 35.4254 m3/h
Vel: 3.9309 fps
NET: +6191x0.01m3
UP:79.1 DN:79.2 Q=46

08-07-17 11:51:06
Flow 35.6965 m3/h
Vel: 3.96099 fps
NET: +6200x0.01m3
UP:79.4 DN:79.6 Q=68

08-07-17 11:51:16
Flow 21.1044 m3/h
Vel: 2.3418 fps
NET: +6208x0.01m3
UP:85.6 DN:85.5 Q=74

08-07-17 11:51:26
Flow 4.65268 m3/h
Vel: 0.516275 fps
NET: +6209x0.01m3
UP:86.8 DN:86.8 Q=62

08-07-17 11:51:36
Flow 8.1809 m3/h
Vel: 0.907776 fps
NET: +6210x0.01m3
UP:87.3 DN:87.3 Q=65

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:51:46
Flow 9.1517 m3/h
Vel: 1.0155 fps
NET: +6213x0.01m3
UP:87.5 DN:87.5 Q=64

08-07-17 11:51:56
Flow 9.45439 m3/h
Vel: 1.04909 fps
NET: +6215x0.01m3
UP:87.5 DN:87.6 Q=66

08-07-17 11:52:06
Flow 9.75449 m3/h
Vel: 1.08239 fps
NET: +6218x0.01m3
UP:87.4 DN:87.7 Q=62

08-07-17 11:52:16
Flow 9.32457 m3/h
Vel: 1.03468 fps
NET: +6221x0.01m3
UP:87.5 DN:87.5 Q=60

08-07-17 11:52:26
Flow 5.76303 m3/h
Vel: 0.639483 fps
NET: +6223x0.01m3
UP:87.5 DN:87.6 Q=57

08-07-17 11:52:36
Flow 8.2875 m3/h
Vel: 0.919605 fps
NET: +6225x0.01m3
UP:87.4 DN:87.5 Q=78

08-07-17 11:52:46
Flow 9.92237 m3/h
Vel: 1.10102 fps
NET: +6227x0.01m3
UP:87.5 DN:87.5 Q=86

08-07-17 11:52:56
Flow 11.1877 m3/h
Vel: 1.24142 fps
NET: +6230x0.01m3
UP:87.4 DN:87.4 Q=85

08-07-17 11:53:06
Flow 12.2506 m3/h
Vel: 1.35936 fps
NET: +6233x0.01m3
UP:87.2 DN:87.3 Q=73

Table G-6. Flow Data for Holland Volendam (7/17/2008)

08-07-17 11:53:16
Flow 13.262 m³/h
Vel: 1.4716 fps
NET: +6237x0.01m³
UP:87.4 DN:87.4 Q=88

08-07-17 11:53:26
Flow 13.7899 m³/h
Vel: 1.53017 fps
NET: +6241x0.01m³
UP:87.1 DN:87.1 Q=82

08-07-17 11:53:36
Flow 14.4803 m³/h
Vel: 1.60678 fps
NET: +6245x0.01m³
UP:87.2 DN:87.2 Q=80

08-07-17 11:53:46
Flow 12.2724 m³/h
Vel: 1.36178 fps
NET: +6249x0.01m³

Appendix H
WEATHER DATA

Table H-1. Weather Data

Date	Time	Temperature (°C)		Wind Speed (KTS)	Wind Direction
		Air	Water		
7/7/2008	10:30	12.2	11.1	21	South
	11:00	12.2	10	21	South
	11:30	12.2	11.1	18.5	South
7/9/2008	12:00	11.1		21	South
	12:30	11.6		18	South
	13:00	11.6		20	South
7/10/2008	9:30	12.2		11	Southwest
	10:00	12.2		12	South
	10:30	12.2		11	South
	11:00	12.7		10	South
	11:30	12.7		12	South
7/11/2008	9:30	11.66		16.2	South
	10:00	12.2		16.5	South
	10:30	11.66		11.5	South
	11:00	12.2		17.1	South × Southwest
	11:30	12.2		17.2	South
	12:00	12.7		17.4	South
	12:30	12.7		18.2	South
7/12/2008	9:30	11.1		1.8	North
	10:00	11.1		0.3	North
	10:30	12.2		1.7	Northwest
	11:00	12.2		0.2	Variable
	11:30	12.2		0.9	Variable
	12:00	12.7		1.0	Variable
	12:30	12.2		2.0	Variable
7/15/2008	14:15	13.9		12	South × Southwest
7/16/2008	9:30	11.1		1.1	South
	10:00	11.7		2.9	West × Southwest
	10:30	12.2		1.2	South × Southwest
	11:00	12.2		Light	Variable
	11:30	12.8		12.5	South
7/17/2008	9:30	13.8		21	South
	10:00	14.4		15	South × Southwest
	10:30	14.4		18	South × Southwest
	11:00	15		19	South × Southwest
	11:30	15		19	South × Southwest

Appendix I
OSV BOLD SURVEY PLAN

**OSV BOLD
SURVEY PLAN**

**Skagway Harbor Dilution Study, Nutrient Study,
And
Open House**

A Collaborative Study Conducted by EPA and ADEC

July 1 – 21, 2008

1. General

Project title: Dye Dispersal and Nutrient Uptake in Skagway Harbor

Survey title: Skagway Harbor Dilution Study, Nutrient Study,
And Open House

Survey vessel: *OSV Bold*

Vessel requested by: Kennard Potts

Organization: EPA Oceans and Coastal Protection Division

EPA Work Assignment Manager: Jonathan Amson

EPA Chief Scientist: Kennard Potts

Organization: EPA Oceans and Coastal Protection Division

Address: 4504T

USEPA Headquarters

1200 Pennsylvania Ave. NW

Washington, DC 20460

Telephone: (202) 566-1267 (Kennard Potts)

(202) 566-1276 (Jonathan Amson)

Work Assignment Manager: Jonathan Amson

Organization: USEPA Headquarters

EPA Contract Number Contract No.: na

Work Assignment: na

2. Schedule of operations

Mobilization Date: July 1, 2008

Location: **Juneau, AK for Open House (July 2, 2008)**

Skagway, AK for nutrient study (July 6, 2008)

Departure Date: July 5, 2008

Planned Survey Duration (Days): 21

Allowable Weather Days: None

Maximum Duration (Days): 21 (including mobilization and demobilization)

Demobilization Date: July 21, 2008

Location: Juneau, AK

Comments: None

3. Background Information

As the cruise ship industry expands, there is increasing concern about the potential environmental impacts of cruise ship waste streams, such as sewage and graywater (waste water from showers, sinks, laundries and kitchens). EPA is engaged in a number of activities to address the potential environmental impacts of cruise ship waste streams. In particular, (1) EPA is evaluating the performance of various advanced sewage and graywater treatment systems to assess whether revised or additional standards for sewage and graywater discharges from large cruise ships operating in Alaska are warranted; (2) EPA is completing its Cruise Ship Discharge Assessment Report, which assesses five waste streams from cruise ships: sewage, graywater, oily bilge water, solid waste, and hazardous waste; and (3) EPA has conducted a survey to study the dilution of sewage and graywater discharges from cruise ships while underway.

To continue our assessment of the potential environmental impacts of cruise ships, EPA has partnered with the Alaska Department of Environmental Conservation (ADEC) to conduct three related studies in July 2008 using

EPA's Ocean Survey Vessel *Bold*. First, we will track sewage and graywater discharge plumes from cruise ships in Skagway Harbor to measure the dilution of discharges from stationary vessels. Second, we will conduct a nutrient amendment study to determine if phytoplankton growth in Skagway Harbor is limited by nutrients. Third, we will examine nitrogen uptake by primary producers in Skagway Harbor to assess the relative importance of natural and anthropogenic sources of nutrient inputs.

4. Survey Justification and Rationale

Data collected will focus on nutrient releases and discharge dispersal in Skagway Harbor. The survey data will be used to enhance our understanding of the fate and effects of nutrients released from cruise ships. In addition, the data will be used by ADEC to assess the impact of cruise ship discharges on the environment.

5. Objectives

A. Plume Dilution

The plume dilution study is designed to provide information on near-field cruise ship discharge (treated sewage and graywater effluent) plume characteristics in harbor waters, and to provide preliminary information on whether these plumes behave as predicted by modeling performed by ADEC (Assessment of Cruise Ship and Ferry Wastewater Impacts in Alaska, 2004). One of the goals of the study is to monitor dye-laden discharge plume dispersals from five large cruise ships. ADEC has used Visual Plumes to predict the dilution of discharges from both large and small vessels. The estimated dilution factor for initial dilution of discharges from stationary cruise ships in Skagway during a neap tide ranged from 5 to 60. However, the Visual Plume modeling was performed using parameters that do not necessarily match real world conditions.

Project objectives are to (1) determine the effluent dilution characteristics of discharges from stationary cruise ships; (2) track the near-field mixing dynamics of the effluent plume; and (3) provide information that can be used to validate modeling studies. To accomplish these objectives, a tracer dye, Rhodamine WT¹, will be added to vessel-effluent-discharge systems. A fluorescence sensor will be towed through the receiving waters in Skagway Harbor, providing spatial information on the plume via in-situ measurements of the Rhodamine WT dye concentration.

B. Nutrient Amendment

This survey is to determine whether dissolved nutrients released in cruise ship effluent are influencing phytoplankton growth in Skagway Harbor. Though data are limited, it is likely that dissolved nutrient concentrations are lowest in Skagway Harbor during the summer months, when cruise ship presence is at its peak. The nutrient concentrations are low during the summer due to low levels of run-off and to nutrient drawdown during the high productivity spring season. Performing nutrient addition experiments during this time will provide information on the natural phytoplankton community's ability to assimilate exogenous nutrients.

C. Nutrient Uptake

The availability of nutrients typically limits the abundance of primary producers. Anthropogenic inputs of nutrients to estuaries can stimulate an increase in productivity, possibly resulting in eutrophication and shifts in dominant flora. Natural abundance stable isotopes can be used to trace the origin and fate of nutrients. Nitrogen stable isotope signatures can be used to evaluate the input of anthropogenic wastes to receiving waters. As a result of microbial processes the isotope ratio of nitrogen in waste water tends to be isotopically more positive (enriched) in nitrogen-15 relative to the environmental background. Assimilation of anthropogenic

¹ Rhodamine WT has very low toxicity (concentrations up to 0.1 micrograms per liter are allowed in drinking water) and the initial dye concentration is sufficiently low that dye-laden discharge plumes are not anticipated to be visible to the naked eye.

nutrients by marine flora can sometimes be identified by shifts in stable isotope ratios, relative to unimpacted communities.

In order for this technique to be effective, there are a number of caveats that must be met. First, there must be good isotopic separation between sources. Thus, the shifts in stable isotope ratios of waste water effluent must be different (3 to 5 ‰) from other background sources. Second, the macroalgae must take up nutrients with no isotopic fractionation or with a constant and measured fractionation. Third, the macroalgae must be exposed long enough to acquire the isotopic signature.

There are two objectives for this study. The first is to determine the scope and extent of anthropogenically-derived nutrient uptake by indigenous macroalgae (seaweed) in the vicinity of Skagway Harbor through the use of stable nitrogen and carbon isotope measurements. Macroalgae samples will be collected within Skagway Harbor and the northern tip of Taiya Inlet, with the Taiya River estuary will serve as a reference site.

The second objective is to use nitrogen-starved macroalgae in an attempt to determine if the impact of treated cruise ship graywater/sewage effluent can be detected in Skagway Harbor via nutrient uptake. Meeting this objective will require achieving several goals. First, a stock nitrogen starved macroalgae will need to be developed. Second, stock material will need to be characterized with regard to nitrogen content and nitrogen isotope ratios. Third, macroalgae will need to be exposed in the natural environment and then processed and analyzed. Fourth, on deck incubations using known quantities of treated cruise ship graywater/sewage effluent and standards will be performed in order to verify that the bioassay is working as expected under controlled conditions.

6. Environmental management questions asked by project/survey

1. How do discharge parameters (e.g., initial velocity, depth) affect the initial dilution of discharges from stationary vessels?
2. Can a dye dispersal study that incorporates advanced monitoring techniques be used to validate hydrodynamic modeling?
3. Can the information obtained from the dilution study be used to predict the distances at which treated graywater and sewage discharges from large cruise ships will meet water quality standards?
4. Is phytoplankton growth in Skagway Harbor limited by nitrogen or phosphorus concentrations?
5. Does the form of nitrogen added (i.e., ammonium vs. nitrate vs. urea) alter the level of phytoplankton growth?
6. Does the form of nitrogen added to harbor water select for different phytoplankton species than those that typically dominate in Skagway Harbor?
7. What is the spatial extent and relative magnitude of anthropogenic nutrient uptake by primary producers in the vicinity of Skagway Harbor?
8. Can the nutrients being utilized by primary producers be linked to specific anthropogenic sources?

7.0 Survey Location and Description: (Attach detail/tables/figures if needed)

Skagway is an excellent test case location for the dilution and nutrient studies because there is the least mixing and the most cruise ship traffic of the various Alaskan ports of call. Because of this, both ADEC and EPA have focused their site-specific assessments of cruise ship discharges in Skagway, including both near-field and far-field dilution modeling.

Under Alaska's new state permit, cruise ships will not be able to discharge in general in Skagway this summer. However, ADEC could allow a variance from the permit for three weeks, allowing the cruise ships to discharge in Skagway. This situation presents a unique situation that would allow for the assessment of impacts from the

ships versus from other sources of nutrients such as the POTW outfall. In no other location in Alaska could this type of study be conducted.

8.0 SURVEY/SAMPLING METHODOLOGIES

A. Plume Dilution

The dilution characteristics of treated sewage and graywater discharge from each vessel will be characterized by in situ measurements of Rhodamine WT in the effluent plume (treated wastewater from advanced wastewater treatment systems). Data collected during the plume tracking survey will determine the location and mixing of the discharge plume. Measurements of dye concentration, as well as hydrographic measurements, are not anticipated to continue beyond a distance of 50 meters from the point of discharge. Measurements are planned to occur within 10 meter of the discharge point; however, depending upon site conditions, distances will be determined by the EPA Chief Scientist. Data will be collected on a single discharge plume, not the cumulative effect of multiple discharge plumes. The data is anticipated to be useful in the validation of hydrodynamic modeling of discharge plumes.

During this survey, the discharge plumes from several different cruise ships will be monitored. Plume dilution studies will be conducted no more frequently than once every day to help ensure adequate flushing of the Rhodamine WT from the harbor.

Each vessel is expected to be configured differently in terms of discharge port diameter, discharge rate, distance of discharge port from the waterline, discharge port location (i.e., bow, mid-ship, or aft), and graywater/sewage treatment and discharge system. A metering pump will be used to inject Rhodamine WT into the discharge line upstream of the discharge port. The pump will inject the dye at a rate sufficient to obtain a 100 µg/L Rhodamine WT solution.

Existing in-line flow meters will be used to measure flow rates during the discharge. However, if in-line meters are not present or they are significantly removed from the discharge port, an ultrasonic flow sensor will be attached to the effluent piping, as close as possible to the discharge port, to allow discharge rates to be recorded. Once the vessel begins discharging, a member of the survey team will monitor the dye-containing treated wastewater using a flow-through fluorometer that will be installed at a designated sampling point, which is located as close as possible to the discharge port. The purpose of the flow-through fluorometer is to provide dye concentration data (mean and variance) prior to plume dilution.

Plume monitoring will be conducted using a fluorometer and CDT deployed from a rigid inflatable boat (RIB). The in-situ fluorometer will be calibrated to measure concentrations of Rhodamine WT ranging from 0.1 to 100 µg/L. A cable or rope will be used to control the depth of the towed sensor package. A float will be attached to the sensor package to determine the offset of the package from the RIB.

Near-field transects will be conducted to determine plume dilution during vessel discharge. One of the key requirements of this study is to minimize perturbations to plume dispersal. The following measures will be implemented to help achieve this requirement:

Transects should be conducted during slack tide to minimize the effects of tidal currents;

The study will be conducted using a low-displacement boat moving at low speed to minimize the influence of the boat's wake;

The first transect will take place at the greatest distance from the discharge port, with subsequent transects occurring progressively closer to the discharge port (i.e., moving up-plume); and

For transects occurring at a given distance from the discharge port, the first transect will be done at the most shallow depth, with subsequent transects occurring at progressively greater depths.

While the plume is expected to be buoyant, surface measurements will not be made because of the anticipated irreproducible surface mixing effects caused by wind, precipitation, and wakes.

Prior to commencing the plume dilution studies, a salinity profile shall be collected in Skagway Harbor.

The sampling scheme assumes that the vessels are at the railway dock and discharging toward the inlet. A total of 12 transects will be conducted either perpendicular to the initial trajectory of the discharge plume or in an arc centered on the discharge port. The transects will occur at distances of 10, 7.5, 5, and 2.5 meters from the discharge port. Constant-depth profiles will be collected for each distance at three depths: 0.5 meters, the midpoint between 0.5 meters and the depth of the discharge port, and the depth of the discharge port (see Table 1). Depending upon site conditions, transect depths may change (see below). Prior to dye release, fluorescence measurements will be collected along transects 10 meters from the vessel to obtain information on background fluorescence in the environment. A differential GPS will be used to maintain a constant speed of 2 knots during the transects. At the end of sampling activities, all equipment will be cleaned and sanitized with bleach to remove any dye or pathogens.

Table 1

Vessel	Transect Depths		
<i>Millennium</i>	0.5	1.0	1.5
<i>Norwegian Star</i>	0.5	2.5	4.5
<i>Princess Star</i>	0.5	1.5	2.5
<i>Princes Coral</i>	0.5	1.5	2.5
<i>Ryndam</i>	0.5	1	1.5
<i>Volendam</i>	0.5	3.25	6.0

Current meters will be deployed to collect current data throughout the near-field transect study. The meters will be deployed in the vicinity of the discharge port. These measurements will document the ambient currents that affect the trajectory and dilution of the plume.

During the course of the sampling transects, weather conditions (e.g., temperature, wind speed, and wind direction) shall be recorded.

The sampling locations proposed in the previous paragraphs are based upon the hydrodynamic modeling studies conducted by ADEC. Under real-world conditions, the dilution and buoyancy of the plumes may differ from those predicted in the modeling study. Consequently, the first of the vessel discharge dilution studies will be used to “fine tune” the experimental conditions that will be used in subsequent studies. The first set of transects will be conducted at a distance of 10 meters from the point of discharge. These transects will begin at a depth of 0.5 meters; with subsequent transects occurring in 0.5 meter increments until a final depth of 5 meters is reached. After these ten transects are completed, the scientific crew will consult with the EPA Chief Scientist and ADEC, if available, to determine appropriate distances and depths at which subsequent transects will be conducted. As the study progresses, further refinement of the experimental conditions may be required. Such refinements will be made by direction of the EPA Chief Scientist.

A pre-survey kickoff meeting will be held on July 6th prior to commencing any activities. The meeting participants will include the EPA Chief Scientist, representative(s) of ADEC, survey technical staff, designated *OSV Bold* crew, and representatives of the vessels participating in the survey. The purpose of the meeting is to ensure that all participating organizations understand the study objectives and design, as well as their respective roles and responsibilities, and those of the other participants.

Objectives of the kickoff meeting:

1. Finalize communication logistics;
2. Coordinate the plume tracking schedule and activities; and

3. Finalize vessel positioning for the study.

In addition to the pre-survey meeting, on the morning of each plume tracking event the survey party will meet with all participants to review the plan as it applies to the vessel participating in the study that day.

B. Nutrient Amendment

Between 130 - 140 liters of water will be collected from above the halocline (middle of the mixed layer) in the central part of harbor, where cruise ship effluent is likely to flow past, using the *Bold's* conductivity, temperature, and depth (CTD) sampling rosette. Collection time will be just after dusk or prior to dawn in order to minimize photochemical effects on phytoplankton. This water will be gently homogenized in an acid-washed 55 gallon polyethylene drum and screened through a 200 μm mesh in order to exclude macrozooplankton grazers. The water will then be distributed into 32 acid-washed 4 L polyethylene cubitainers (i.e., incubation bottles).

Samples of the homogenized harbor water will also be used to determine the initial conditions (i.e., dissolved nutrients, chlorophyll, and phytoplankton community). Triplicate samples will be collected for the measurement of ammonia, total nitrogen, nitrate/nitrite, orthophosphate, total phosphorus, and silicate by the methods of Slawyk and MacIsaac (1972), Valderrama (1981), Armstrong et al. (1967), Bernhardt and Wilhelms (1967), Valderrama (1981), and Armstrong et al. (1967), respectively. Samples will be filtered, preserved, and stored as specified by their respective method.

Nutrients will be added to the incubation bottles (see below for treatment conditions), which will then be placed in on-deck water baths. The water baths will be kept at the mixed layer temperature by circulating surface seawater from *Bold's* inlet system through the baths. Circulating water will be allowed to overflow and exit the ship via the scuppers. The baths will be shaded with neutral density screening to approximate the light level in the middle of the mixed layer. In situ light levels will be measured using the *Bold's* surface and subsurface photosynthetically active radiation sensors.

Dissolved nutrient data in the Draft Cruise Ship Environmental Assessment Technical Development Document suggests the phytoplankton community may be nitrogen-limited, and is unlikely to be limited by phosphorus (the nitrogen-to-phosphorus ratio is about half that considered optimal for phytoplankton). Consequently, the following nutrient additions will be used:

1. Control (no addition)
2. Nitrogen ($35 \mu\text{mol L}^{-1}$ nitrate²)
3. Phosphorus ($2.5 \mu\text{mol L}^{-1}$ orthophosphate¹)
4. Nitrogen + Phosphorus ($35 \mu\text{mol L}^{-1}$ nitrate and $2.5 \mu\text{mol L}^{-1}$ orthophosphate)
5. Nitrogen as ammonia ($35 \mu\text{mol L}^{-1}$ ammonium chloride)
6. Nitrogen as organic nitrogen ($35 \mu\text{mol L}^{-1}$ urea)
7. Treated sewage dilution 1 (50-fold; $\sim 40 \mu\text{mol L}^{-1}$ inorganic nitrogen, $\sim 100 \text{ mg L}^{-1}$ total phosphorus)
8. Treated sewage dilution 2 (500-fold; $\sim 4 \mu\text{mol L}^{-1}$ inorganic nitrogen, $\sim 10 \text{ mg L}^{-1}$ total phosphorus)

Samples of the treated sewage will be collected to verify its nutrient concentrations. The above 8 treatment conditions will be replicated 4 times, for a total of 32 incubation bottles. Each bottle will be subsampled at 24 h for size-fractionated chlorophyll (sampling procedure is described below), placed back in the incubation bath, and re-sampled at 48 h for size-fractionated chlorophyll and dissolved nutrients (see above). Each bottle will be

² These concentrations are 10 times the average TN and TP in Skagway Harbor. They are also 10 times the total concentration in Skagway Harbor resulting from AWT operations as calculated by EPA (AWT operations adds $3.45 \mu\text{mol L}^{-1}$ N and $0.223 \mu\text{mol L}^{-1}$ P, respectively).

sampled again at 72 h for size-fractionated chlorophyll, placed back in the incubation bath and re-sampled at 96 h for size-fractionated chlorophyll and dissolved nutrients.

For the collection of chlorophyll samples, incubation bottles will be gently homogenized by inverting slowly several times. Then, a 300 mL aliquot of the incubated harbor water will be filtered through a 20 μm polycarbonate filter. The filtrate from this first step will be collected and filtered through a 5 μm polycarbonate filter. The filtrate from the second step will be collected and filtered through a 0.2 μm polycarbonate filter. Each filter will be placed in a separate labeled-microcentrifuge tube and 1 mL of 90:10 acetone:deionized water (by volume) will be added to each tube and the tubes will be sealed. The tubes will be stored in the dark at -20 °C overnight. The following morning, the 1 mL of acetone solution will be pipetted from the microcentrifuge tubes into labeled glass test tubes. The relative fluorescence of each acetone sample will be measured and recorded. Following initial measurement, 50 μL of 10% hydrochloric acid will be added to each acetone sample and then its relative fluorescence will be re-measured and recorded.

Samples collected for phytoplankton taxonomy will be fixed with Lugol's reagent. A 125 mL sample of homogenized incubated harbor water will be stored in the dark in a 4 °C fridge for approximately 12 hours after the addition of Lugol's reagent. Measured subsamples will be filtered through 1 μm polycarbonate filters and slide-mounted using immersion oil. Slides will be stored in a -20 °C freezer. The slides will be shipped to the University of Southern California for phytoplankton counting.

Upon survey demobilization, water samples for nutrient analysis are to be packed in ice-filled ice chest and shipped to University of Washington.

C. Nutrient Uptake

Municipal (sewage outfall), riverine (Skagway River), oceanic (Taiya Inlet), and vessel (blackwater and graywater) inputs are the major sources of the nutrient budget for Skagway Harbor. Stable isotope ratios are known to be indicative of nutrient sources, with anthropogenic nutrient sources being enriched in ^{15}N and depleted in ^{13}C . The relative abundance of ^{15}N versus ^{14}N , and ^{13}C versus ^{12}C are typically reported as $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$, respectively.

$$\delta^{15}\text{N} = \left[\left(\frac{^{15}\text{N}/^{14}\text{N}_{\text{sample}}}{^{15}\text{N}/^{14}\text{N}_{\text{standard}}} - 1 \right) \right] \times 1000$$

$$\delta^{13}\text{C} = \left[\left(\frac{^{13}\text{C}/^{12}\text{C}_{\text{sample}}}{^{13}\text{C}/^{12}\text{C}_{\text{standard}}} - 1 \right) \right] \times 1000$$

To obtain an isotopic signature for each of the major nutrient inputs, water samples will be collected from Taiya Inlet (approximately one kilometer southwest of Skagway Harbor, at a depth of approximately 0.5 meter), Skagway River (approximately one kilometer northeast of Skagway, at a depth of 0.5 meter [conditions permitting]), the City of Skagway wastewater treatment plant (one undiluted sample from the treatment plant and a second from the zone of initial dilution of the municipal sewage outfall [i.e., 59° 26' 54.8"N, 135° 19' 36.6W at a depth of 25 meters], and the treated graywater and sewage effluent from each cruise ship that participates in the study (see Table 1).

A water sample will be collected at each site and each vessel using Niskin or acid-cleaned HDPE bottles (2L or larger), and the date, time, and location at which the samples are collected will be recorded. After the bottles are returned to the *Bold*, within 2 hours of collection, each sample will be split for ammonia, nitrate/nitrite, and $\delta^{15}\text{N}$ analysis. Ammonia and nitrate/nitrite analysis will be performed as described in section B. $\delta^{15}\text{N}$ analysis for dissolved ammonia and nitrate will be performed per USGS 2898 and 2899, respectively, at the Reston Stable Isotope Laboratory. Samples will be filtered, preserved, and stored as specified by their respective method.

Naturally abundant macroalgae (e.g., *Fucus*, *Ulva*) are assumed to be representative of primary producers in the Taiya Inlet. Samples will be collected along the eastern coast line from Nahku Bay, through Skagway Harbor, and south to Sturgills Camp (approx. 59° 28' 41.65" N, 135° 20' 11.20" W to 59° 25' 17.10 N, 135° 20' 22.30 W) at approximately 1 km intervals. See the areas marked in red in Figure 1.

Figure 1



Figure 2



Additionally, samples will be collected from the western coastline of the Taiya Inlet from the mouth of the Taiya River to the intersection of the Lutak Inlet (approx. 59° 28' 41.65" N, 135° 20' 11.20" W to 59° 25' 17.10" N, 135° 20' 22.30" W) at approximately 4 km intervals. See the areas marked in red in Figure 2.

At each sample collection site, the date, time, and location are to be recorded. Only macroalgae growing on rocks should be collected. If available, samples of both *Fucus* and *Ulva* macroalgae shall be collected. Six replicate samples (approximately 3-5 gww per sample) shall be collected of each type of macroalgae found at a site. Upon collection, all samples will be immediately placed in individually labeled plastic bags and stored at 4 °C.

Upon returning to the *Bold*, samples shall be washed to remove epiphytic material. If washing does not adequately remove the epiphytic material (to be determined by the EPA Chief Scientist), samples can be gently scraped with a stainless steel blade. After cleaning, samples are to be placed in pre-labeled envelopes and oven dried.

Samples will be collected from both locations (Figures 1 and 2) on two separate occasions. The first set of samples will be conducted on July 6th and 7th. A second set of samples will be conducted on July 27th and 28th.

Upon survey demobilization, the dried macroalgae samples are to be shipped to EPA's Western Ecology Division in Portland, Oregon for $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ isotope analysis. Water samples are to be packed in dry-ice-filled chest and shipped to University of Washington for nutrient analysis and Reston Stable Isotope Laboratory for $\delta^{15}\text{N}$ analysis.

Part 2

A stock of nitrogen starved algae will be developed using facilities at the Pacific Coastal Ecology Branch (PCEB). Green macroalgae (*Ulva* spp.) will be collected from Yaquina Bay, OR brought into the lab, rinsed in flowing seawater to remove epiphytes and invertebrates. Algal material will then be spun in a salad spinner for 1 min. and 100 gww will be added to a clear polycarbonate Nalgene carboy (20 l). Ten liters of artificial seawater (AFSW) media (~450 g red sea salt (RSS) mixed to volume with Milli-Q water) will be added to the carboy. Previous work has shown that this AFSW media has less than 5 μM nitrate and undetectable ammonium. Six replicate Nalgene carboys will be stocked in this manner. Plants will be supplied with saturating irradiance (1000 W metal halide lamps) on a 14:10 light:dark cycle. Temperature will be maintained by running flowing seawater around the carboys. These techniques have been used in several experiments conducted at PCEB. Plants will be cultured under these low nutrient conditions for two to three weeks in order to deplete internal N reserves. Subsequent to culture, plants will be transported to the field site for use in bioassays and incubations. After transport, stock algal material will be held under analogous AFSW media conditions on the *Bold* until deployed as bioassays.

At the field site, immediately prior to field deployment of the bioassay material – five replicate sub-samples of green macroalgae will be collected and dried for subsequent analysis. Bioassay deployment will consist of placing 3-5 gww of stock algae into 400 μ mesh bags, closed with a plastic clip and attached using plastic zip-ties to buoys. Fifteen bioassay bags will be attached to each deployment buoy allowing for five replicate samples to be collected at each three incubation times (48, 96, and 144 h). Five bioassay buoys will be constructed and deployed throughout the study area. At least one bioassay buoy will be deployed directly adjacent to a cruise ship effluent plume “epi-center”, while other buoys will be placed at varying distances from the region thought to be most impacted by treated graywater/sewage effluent. Exact locations for deployments will be determined by the EPA Chief Scientist. Buoys will be anchored in place or tied off to near-by objects (e.g. bulkheads, pilings, screw anchors in intertidal, etc.). After incubation, plants will be rinsed on site in harbor water, and agitated lightly to remove any epiphytes. Samples will be placed in labeled plastic bags and stored on ice during transport to the *Bold*. At the *Bold*, samples will be rinsed with minimal Milli-Q or de-

ionized water and dried. Dried samples will be transported to PCEB where they will be lyophilized, pulverized and analyzed for $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$.

During the field bioassay deployments, short term incubations will be conducted on deck using AFSW media amended with KNO_3 or NH_4Cl of known isotope ratios and treated cruise ship graywater/sewage effluent, which has been amended with RSS to adjust salinity. Replicate sub-samples of stock algal material (3-5 gww) will be incubated at varying nitrogen (as nitrate or ammonium) concentrations for 48h. The treated cruise ship graywater/sewage effluent concentrations will be made using serial dilutions; actual nitrogen concentrations will subsequently be determined by analytical analysis. Isotopic analysis of these samples should indicate the potential isotopic shift expected under field conditions. Short term incubations will also be conducted using a gradient of concentrations of KNO_3 or NH_4Cl of known isotopic composition in order to verify that nitrogen uptake is occurring without fractionation.

Additional water and plant samples may be obtained for analysis of either isotope ratios or nutrient concentrations. Water samples will be filtered through 0.45μ GFF filters and frozen for transport and analysis. Filters will be retained in order to assess the $\delta^{15}\text{N}$ of the particulates.

9.0 SEQUENCE OF SURVEY TASKS/EVENTS

Daily operations are described in Appendix A.

10. Navigation and Positioning Control

Navigation and position determinations will be accomplished through the use of differential GPS.

11.0 Equipment and Supplies

A. Dilution Study

Equipment from OSV *Bold* (Attach *Bold* check list if appropriate):

- Positioning equipment on bridge
- 2 small boats operational and deployed
- Hand held radios
- GPS units for RIBs

Equipment from EPA: None

Equipment from Contractor:

- Rhodamine WT dye
- Five 1 L sample bottles
- Bottle labels
- Bench-top fluorescence spectrometer (two)
- Hand deployable CTD (two)
- Hand deployable flow-through fluorescence meter
- Ice chests
- Current meters (six – three for deployment and three back-ups)
- Ultrasonic flow sensors (two)
- Metering pump (two)

Expendable Supplies from *Bold*:

NONE

B. Nutrient Amendment Study

Plastic incubation bottles (1 or 2 L acid-washed polycarbonate bottles or cubitainers)

Plastic sample bottles (50 mL acid-washed polyethylene bottles)

Plastic bottles for nutrient stocks (100 mL acid-washed polyethylene bottles)

Plastic tubing for transferring water (25 ft ½ inch diameter flexible tubing – acid washed)

Volumetric flask (100 mL) for making up stocks

Graduated cylinder (500 mL)

Shading for water baths (neutral density window screening from hardware store)

Filter towers (25 and 47 mm), including catches for filtrate

Pipette tips

Microcentrifuge tubes

Glass test tubes

Racks to hold microcentrifuge tubes and glass test tubes

microscope slides

Salts to make up nutrient stocks (plant cell culture grade of: sodium nitrate, sodium phosphate dibasic, ammonium chloride, and urea)

Hydrochloric acid (10% high grade) for bottle cleaning and chlorophyll analysis

spinach extract for calibrating fluorometer

Acetone (90%) for chlorophyll analysis

Lugol's reagent for phytoplankton counts

Immersion oil for phytoplankton counts

Safety goggles

Styrofoam shipping cooler

Blue ice packs

Filters: GF/F (25 mm), 0.2 µm polycarbonate (47 mm), 5 µm polycarbonate (47 mm), and 20 µm polycarbonate (47 mm)

Equipment from BOLD:

Surface PAR Sensor (QSR-240 Surface PAP Sensor)

C. Nutrient Uptake Study

Equipment from *Bold*:

Niskin/Ocean Test Bottles – 10 L or larger

2 small boats operational and deployed

Hand held radios

Differential GPS units for small boats

Equipment from Contractor:

Part 1

Fourteen 1 L sample bottles

Twenty Eight 60 mL sample bottles

Glass fiber filters

Filter equipment (funnel, flasks, pump, etc.)

Bottle labels
Ice chests
Dry ice
Shipping material
Plastic bags
Paper towels

Part 2

Cultured macroalgae
Graduated cylinders
Plastic bags
Sharpies
Gloves
Nalgene carboys (20 liter)
Cubitainers (4 liter)
400 μ mesh bags (100)
Plastic clips and zip-ties
Line, floats/buoys, and screw anchors/sand-bags
Filters (47 mm, 0.45 μ GFF), filter holders, filter forceps, vacuum pump, filter flasks, and vacuum tubing
Centrifuge tubes, brown bottles, and Petri dishes,
KNO₃ ($\delta^{15}\text{N-KNO}_3 = 0.5\text{‰}$), NH₄Cl ($\delta^{15}\text{N-NH}_4\text{Cl} = 0.5\text{‰}$), HCL, and Red Sea Salt (RSS)
Balance and weigh boats,
LI-COR 1400 data logger, 20 m cable, spherical quantum sensors (2), and lowering frame,
YSI Sonde or mini-CTD

Expendable Supplies from *Bold*:

Other:

The OSV *Bold* will be used as a sample analysis platform. Expect to perform water collection with Rosette while at dock. Hence docking should allow for deploying CTD/Rosette.

12. QA/QC Procedures

As outlined in the QAPP.

13. Survey Crew

Name	Survey Responsibility	Organization	Berth
Kennard Potts	Chief Scientist	EPA - Headquarters	02-36-2
Elizabeth Kim	Principal Investigator	EPA - Headquarters	02-35-1
Chris Meade	Survey Team	EPA – R10	01-34-2 (May not berth)
Rachel Jakuba	Survey Team	EPA- Headquarters	01-21-2
Jim Kaldy	Survey Team	EPA R10	01-23-1

Debra Falatko	Work Assignment Leader	ERG	01-27-2
Brian Lapointe	Survey Team	ERG	01-43-2 (7/5 -7/9)
Brian Herczeg	Survey Team	EPA R10	01-43-2 (7/11-7/21)
Jim Jendron	Survey Team	Alaska State DEC	1-22-3 (7/5-7/12)
Kenwyn George	Survey Team	Alaska State DEC	1-22-3 (7/13-7/21)

14. Reporting requirements

EPA will prepare a report which will discuss the experimental methods and summarize the data of the near field dilution studies by October 2008.

15. References

None.

Appendix A

29	30	1	2	3	4	5
Instrument set-up, calibration, and training. Location: Seattle, WA. Personnel: Falatko. Bold support: none.	Millennium equip inst. Location: Juneau, AK. Personnel: Falatko, Meade, and Gendron. Bold support: none.	N Star equip inst. Location: Juneau, AK. Personnel: Falatko. Bold support: none.	Open House. Location: Juneau, AK. Personnel: Potts. Bold support: 1200 to 1800 Volendam ship prep. Location: Juneau, AK. Personnel: Falatko. Bold support: none.		Coral equip inst. Location: Juneau, AK. Personnel: Falatko. Bold support: none. Ryndam ship prep. Location: Juneau, AK. Personnel: Falatko. Bold support: none.	Transit to Skagway
			P Star ship prep. Location: Juneau, AK. Personnel: Falatko. Bold support: none.			

6	7	8	9	10	11	12
Macroalgae collection. Location: approx. 59 28'41.65" N, 135 20'11.20" W to 59 25'17.10 N, 135 20'22.30 W Personnel: Kim, Lapointe. Bold support: RIB pilot, RIB ops (0900 to 2100).	Discharging within Skagway Harbor begins		N Star dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Gendron. Bold support: RIB pilot, RIB ops (1000 to 1500).	P Star dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Gendron. Bold support: RIB pilot, RIB ops (1100 to 1600).	Coral dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Gendron. Bold support: RIB pilot, RIB ops (1200 to 1700).	Ryndam dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Gendron. Bold support: RIB pilot, RIB ops (1300 to 1800).
Sample collection - nutrient uptake. Location: Taiya Inlet, Skagway Harbor, and Skagway River. Personnel: Falatko, Herczeg. Bold support: RIB pilot, RIB ops (0900 to 1500), two Niskin 5L bottles.	Millennium dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Briggs, Gendron. Bold support: RIB pilot, RIB ops (0800 to 1400).		P Star equip inst. Location: Juneau, AK. Personnel: Briggs. Bold support: none.	Volendam equip inst. Location: Juneau, AK. Personnel: Briggs. Bold support: none.	Ryndam equip inst. Location: Juneau, AK. Personnel: Briggs. Bold support: none.	
Water collection - nutrient amendment. Location: Skagway Harbor. Personnel: Jacuba, Potts. Bold support: CTD, wet and dry PAR sensors.	Macroalgae collection. Location: Taiya Inlet (Approx. 59 28'51.45" N, 135 21'50.50" W to 59 17'30.00" N, 135 24'00.20" W Personnel: Lapointe. Bold support: RIB pilot, RIB ops (0900 to 1700).	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	
	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	Macroalgae drying. Personnel: Kim. Bold support: none.	Macroalgae drying. Personnel: Kim. Bold support: none.	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: RIB pilot, RIB ops (0900 to 1200).	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: RIB pilot, RIB ops (0900 to 1200).	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: none.

13	14	15	16	17	18	19
Water collection - nutrient amendment. Location: Skagway Harbor. Personnel: Jacuba, Potts. Bold support: CTD, wet and dry PAR sensors.		<i>Millennium back-up dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Meade. Bold support: RIB pilot, RIB ops (1000 to 1500).</i>	<i>N Star back-up dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Meade. Bold support: RIB pilot, RIB ops (1100 to 1600).</i>	Volendam dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Meade. Bold support: RIB pilot, RIB ops (1100 to 1600).		<i>Ryndam back-up dilution study. Location: Skagway Harbor. Personnel: Kim, Falatko, Meade. Bold support: RIB pilot, RIB ops (1200 to 1700).</i>
Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: RIB pilot, RIB ops (0900 to 1200).	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: RIB pilot, RIB ops (0900 to 1200).	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: RIB pilot, RIB ops (0900 to 1200).	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: none.	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: RIB pilot, RIB ops (0900 to 1200).	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: none.	Macroalgae nutrient uptake study. Location: Skagway Harbor. Personnel: Kaldy. Bold support: none.
Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.	Nutrient amendment study. Location: Skagway Harbor. Personnel: Jacuba, Herczeg. Bold support: none.			

20	21	22	23	24	25	26
	Demobilization					
27	28	29	30	31	1	2
Macroalgae collection. Location: Taiya Inlet. Personnel: Lapointe, Meade. Bold support: none. (Boat rental needed)	Discharging within Skagway Harbor ends					
	Macroalgae collection. Location: Taiya Inlet. Personnel: Lapointe, Meade. Bold support: none. (Boat rental needed)	Macroalgae drying. Personnel: Lapointe, Meade. Bold support: none.	Macroalgae drying. Personnel: Lapointe, Meade. Bold support: none.			

Appendix J

**QUALITY ASSURANCE PROJECT PLAN FOR SUPPORT FOR OSV BOLD SURVEY
OF LARGE CRUISE SHIP WASTEWATER IMPACTS IN ALASKAN WATERS**



Quality Assurance Project Plan for Support for OSV *Bold* Survey of Large Cruise Ship Wastewater Impacts in Alaskan Waters

Prepared for:

U.S. Environmental Protection Agency
Oceans and Coastal Protection Division
OW/OWOW/OCPD/MPCB, 4504T
Office of Water
1200 Pennsylvania Avenue
Washington, DC 20004

Prepared by:

Eastern Research Group, Inc.
14555 Avion Parkway
Suite 200
Chantilly, VA 20151-1102

24 June 2008

EPA Contract No. 68-C02-095
Work Assignment 5-24

USE AND DISCLOSURE OF DATA

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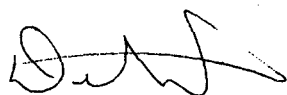
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TITLE

Quality Assurance Project Plan for Support for OSV *Bold* Survey of Large Cruise Ship
Wastewater Impacts in Alaskan Waters

APPROVAL SHEET

Signatures indicate approval of this Addendum to the Quality Assurance Project Plan and commitment to follow the applicable procedures noted:



Debbie Falatko - ERG Work Assignment Manager

June 24, 2008

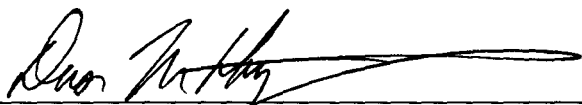
Date



Betsy Bicknell - ERG Project Quality Assurance Coordinator

June 24, 2008

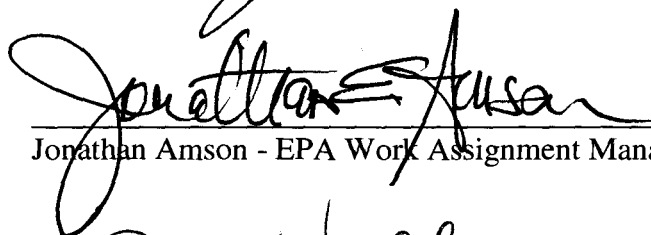
Date



Damon Highsmith - EPA Technical Project Officer (ERG Support Contract)

09/08/08

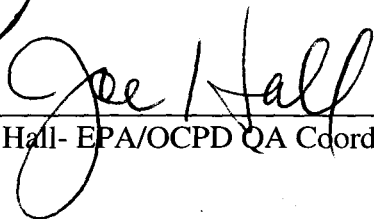
Date



Jonathan Amson - EPA Work Assignment Manager (ERG Support Contract)

10 Sept 08

Date



Joe Hall - EPA/OCPD QA Coordinator

10/21/08

Date

TABLE OF CONTENTS

1.0	Introduction.....	1
2.0	Project Management Elements	2
2.1	Element A.3: Distribution List.....	2
2.2	Element A.4: Project Organization	3
2.3	Element A.5: Problem Definition/Background.....	6
2.3.1	Statement of Key Questions and Project Outcome.....	6
2.3.2	Background	8
2.4	Element A.6: Project/Task Description	9
2.5	Element A.7: Quality Objectives and Acceptance Criteria	9
2.6	Element A.9: Documents and Records	16
3.0	Data Generation and Acquisition.....	17
3.1	Plume Dilution Study.....	17
3.1.1	Element B.1: Sampling Process Design.....	18
3.1.2	Element B.2: Sampling Methods	18
3.1.3	Element B.3: Sample Handling and Custody	19
3.1.4	Element B.4: Analytical Methods.....	19
3.1.5	Element B.5: Quality Control	19
3.1.6	Element B.6: Instrument/Equipment Testing, Inspection, and Maintenance	19
3.1.7	Element B.7: Instrument/Equipment Calibration and Frequency	19
3.1.8	Element B.8 Inspection/Acceptance of Supplies and Consumables.....	20
3.1.9	Element B.9: Non-direct Measurement	20
3.1.10	Element B.10: Data Management	20
3.2	Nutrient Amendment Study	21
3.2.1	Element B.1: Sampling Process Design.....	21
3.2.2	Element B.2: Sampling Methods	22
3.2.3	Element B.3: Sample Handling and Custody	22
3.2.4	Element B.4: Analytical Methods.....	24
3.2.5	Element B.5: Quality Control	25
3.2.6	Element B.6: Instrument/equipment testing, inspection and maintenance	26
3.2.7	Element B.7: Instrument/equipment calibration and frequency	26
3.2.8	Element B.8: Inspection/acceptance of supplies and consumables	26
3.2.9	Element B.9: Non-direct Measurement	26
3.2.10	Element B.10: Data Management	26
3.3	Nutrient Uptake Study	27
3.3.1	Element B.1: Sampling Process Design.....	28
3.3.2	Element B.2: Sampling Methods	29
3.3.3	Element B.3: Sample Handling and Custody	29
3.3.4	Element B.4: Analytical Methods.....	29
3.3.5	Element B.5: Quality Control	30
3.3.6	Element B.6: Instrument/Equipment Testing, Inspection, and Maintenance	31
3.3.7	Element B.7: Instrument/Equipment Calibration and Frequency	31
3.3.8	Element B.8: Inspection/acceptance of supplies and consumables	31
3.3.9	Element B.9: Non-direct Measurement	31
3.3.10	Element B.10: Data Management	31
4.0	Assessment and Oversight Elements	33

4.1	Element C.1: Assessments and Response Actions	33
4.2	Element C.2: Reports to Management	34
5.0	Data Validation and Usability Elements.....	35
5.1	Elements D.1 and D.2: Data Review, Verification, and Validation; and Validation Methods	35
5.2	Element D.3: Reconciliation with User Requirements	35
6.0	References.....	37

LIST OF TABLES

Table 2-1.	QAPP Distribution List	2
Table 2-2.	Key Measurements for EPA's July 2008 Sampling Program	8
Table 3-1.	Analytical Methods for Nutrient Analyses.....	25
Table 3-2.	Analytical Methods for Nitrogen and Carbon Isotope Analyses.....	30

LIST OF FIGURES

Figure 2-1.	Project Roles and Responsibility for EPA's July 2008 Sampling Program	5
Figure 2-2.	Project Level QA Organization for ERG's Support of EPA's July 2008 Sampling Program.....	6

1.0 INTRODUCTION

ERG is providing technical support to the U.S. Environmental Protection Agency (EPA), who is working in partnership with the Alaska Department of Environmental Conservation (ADEC) to evaluate the potential impact of cruise ship wastewater (treated sewage and graywater) discharges in Alaskan waters. EPA plans to conduct the following three related studies in July 2008 using EPA's Ocean Survey Vessel *Bold* (OSV *Bold*):

- Plume Dilution Study- This study is intended to provide information on (a) near-field mixing dynamics of the cruise ship discharge plume in harbor waters, and (b) whether these plumes corroborate previous modeling efforts by ADEC.
- Nutrient Amendment Study- This study is intended to determine whether dissolved nutrients contained in cruise ship effluent are influencing phytoplankton growth in Skagway Harbor.
- Nutrient Uptake Study- This study is intended to determine the extent of anthropogenically-added nutrient uptake in macroalgae in Skagway Harbor, using stable nitrogen and carbon isotope analyses.

As directed by Work Assignment 5-24 of Contract No. 68-C-02-095, ERG has prepared this Quality Assurance Project Plan (QAPP) to ensure the survey adequately addresses the tasks and types of data that will be used in completing the work assignment.

It is responsive to all applicable elements specified in EPA Requirements for Quality Assurance Project Plans (1). This QAPP is a project-specific supplement to ERG's corporate Quality Management Plan, Revision 7, June 2002 (QMP) (2), which was prepared in accordance with EPA Requirements for Quality Management Plans (3). ERG's QMP details the responsibilities of the ERG Quality Assurance (QA) coordinators and Project Management Team, and describes procedures used to plan, implement, and assess project quality. These procedures, tailored to the needs of the tasked activities, will be used on this work assignment.

References are presented in Section 6.0. Throughout this document, each time a reference is cited, a number corresponding to the Section 6.0 listing is shown in parentheses.

2.0 PROJECT MANAGEMENT ELEMENTS

This section addresses project management, including project history and objectives, roles and responsibilities, and project goals. In addition, this section presents the mechanisms ERG uses to ensure that all participants understand the goals and the approach to be used for Work Assignment 5-24. EPA has identified eight elements to be discussed in this section:

- A.1: Title and Approval Sheet;
- A.2: Table of Contents;
- A.3: Distribution List;
- A.4: Project/Task Organization;
- A.5: Problem Definition and Background;
- A.6: Project/Task Description;
- A.7: Quality Objectives and Criteria; and
- A.9: Documentation and Records.

Element A.1, Title and Approval Sheet, and Element A.2, Table of Contents, have been provided earlier in this document. The remaining elements are presented below.

2.1 Element A.3: Distribution List

The distribution list for this QAPP is presented in Table 2-1.

Table 2-1. QAPP Distribution List

Name	Organization	Role
Joe Hall	US EPA/OW/OWOW	EPA QA Coordinator
Jonathan Amson	US EPA/OW/OWOW	EPA Work Assignment Manager
Damon Highsmith	US EPA/OW/OST	EPA Project Officer for ERG's Support Contract
Kennard Potts	US EPA/OW/OWOW	EPA Chief Scientist
Elizabeth Kim	US EPA/OW/OWOW	EPA Principal Investigator
Rachel Jakuba	US EPA/OW/ORD/NCER	EPA Survey Team Member

Name	Organization	Role
Chris Mead	US EPA Region 10	EPA Survey Team Member
Brian Herczog	US EPA Region 10	EPA Survey Team Member
Jim Kaldy	US EPA Region 10	EPA Survey Team Member
Deb Bartram	ERG	ERG Program Manager
Deb Falatko	ERG	ERG Work Plan Manager
Betsy Bicknell	ERG	Project QA Coordinator
Mark Briggs	ERG	ERG Survey Team Member
Brian Lapointe	Reef Research & Design, Inc.	Technical Support, ERG Subcontractor
Burt Jones	University of Southern California	Laboratory Analyst, ERG Subcontractor
Kathy Krogslund	University of Washington School of Oceanography Marine Chemistry Lab	Laboratory Analyst, ERG Subcontractor

2.2 Element A.4: Project Organization

Project organization for the July 2008 sampling program aboard the OSV *Bold* is divided into three distinct studies as described in Section 1.0. Figure 2-1 describes the roles and responsibilities of specific ERG staff, ERG subcontractors, and EPA staff for each of the three studies. Under EPA Contract No. 68-C-02-095, Work Assignment 5-24, ERG is providing technical support to EPA in conducting sampling activities using EPA's OSV *Bold* to evaluate the potential impact of cruise ship wastewater (treated sewage and graywater) discharges on Alaskan waters. ERG is supported by a sampling subcontractor, Reef Research & Design, Inc., and three contract laboratories, University of Washington School of Oceanography Marine Chemistry Lab (UW MCL), University of Southern California (USC), and USGS Reston Stable Isotope Lab (USGS Lab). Figure 2-2 describes ERG's project level quality control organization for the components of EPA's July 2008 sampling program for which ERG is responsible. For those aspects of EPA's July 2008 sampling program which do not fall under ERG's roles and responsibility as defined in this QAPP, EPA will manage the quality of the sampling data and documentation.

Debbie Falatko, a Senior Chemical Engineer, will serve as ERG's Work Plan Manager (WPM). She will be responsible for all management and administrative aspects of the work performed, and for ensuring that the quality of work, schedule, and budget meet the requirements of EPA's July 2008 OSV *Bold* sampling program. She will provide technical direction to ERG staff and will be responsible for the daily activities on the project. She will also provide onsite technical support during EPA's sampling program. Ms. Falatko will be the principal contact to the EPA WAM on project issues, deliverables, and schedule. She will also keep Betsy Bicknell, the Project QA Coordinator, and Deb Bartram, the ERG Program Manager, advised of any quality problems that arise.

Ms. Betsy Bicknell will serve as Project QA Coordinator, responsible for the development and execution of QA activities throughout this project, including work plan development and execution, data analysis, and data reporting. Additional details on ERG's project QA organization can be found in the June 2002 QMP, Section 1.2 Project Organization and Staff Responsibilities (2). The ERG project staff, including Kristi Bubb, Mark Briggs, Kim Wagoner, and others, will be responsible for day-to-day project activities. Mark Briggs will also provide onsite technical support during EPA's July 2008 sampling program.

ERG is supported by four subcontractors, Reef Research & Design, Inc., UW MCL, USC, and USGS Lab. Brian Lapointe with Reef Research & Design, Inc. will provide expertise in seaweed identification and support for sample collection and preparation for the nutrient uptake study. Kathy Krogslund with UW MCL will provide laboratory analysis of water samples collected during the survey. Burt Jones of USC will provide phytoplankton counts and taxonomy information. T.B. Coplen with USGS Lab will provide laboratory isotope analysis of water samples collected during the survey. ERG's subcontractors will function within ERG's quality system, and ERG will be responsible for the quality of their work. Subcontractors are responsible for following the applicable procedures noted in this QAPP and the specifications contained in their subcontract with ERG. The ERG WPM reviews the performance of ERG subcontractors and approves the payment of invoices only when subcontractor performance meets contract requirements.

Brain Lapointe will serve as Reef Research & Design's QA coordinator for the collection of macroalgae samples in the vicinity of Skagway Harbor. Kathy Krogslund and T.B. Coplen will serve as UW MCL's and USGS Lab QA coordinators for the analysis of nutrient water samples and isotope ratio determinations, respectively. Burt Jones will serve as USC's QA coordinator for conducting phytoplankton counts and taxonomy information for the nutrient amendment study. ERG is responsible for scheduling and tracking the samples analyzed by UW MCL and USGS Lab; resolving any analytical problems and implementing any necessary corrective actions; reviewing analytical data quality, and creating and providing to EPA a data package with a short written report discussing any data quality assurance or quality control issues or concerns. US EPA Region 10 is responsible for the isotope analysis for both the macroalgae samples and laboratory-cultured nutrient-depleted algae samples for the nutrient uptake study, and is also responsible for the quality of their work and the laboratory analysis of EPA's Western Ecology Division in Portland, Oregon.

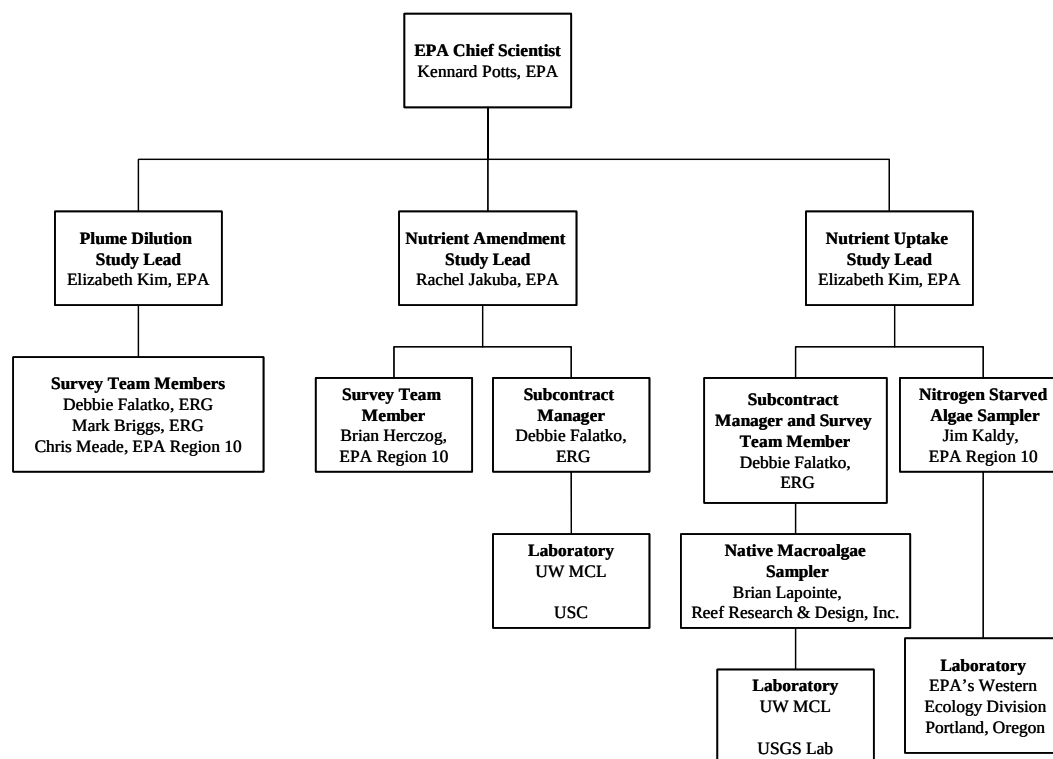


Figure 2-1. Project Roles and Responsibility for EPA's July 2008 Sampling Program

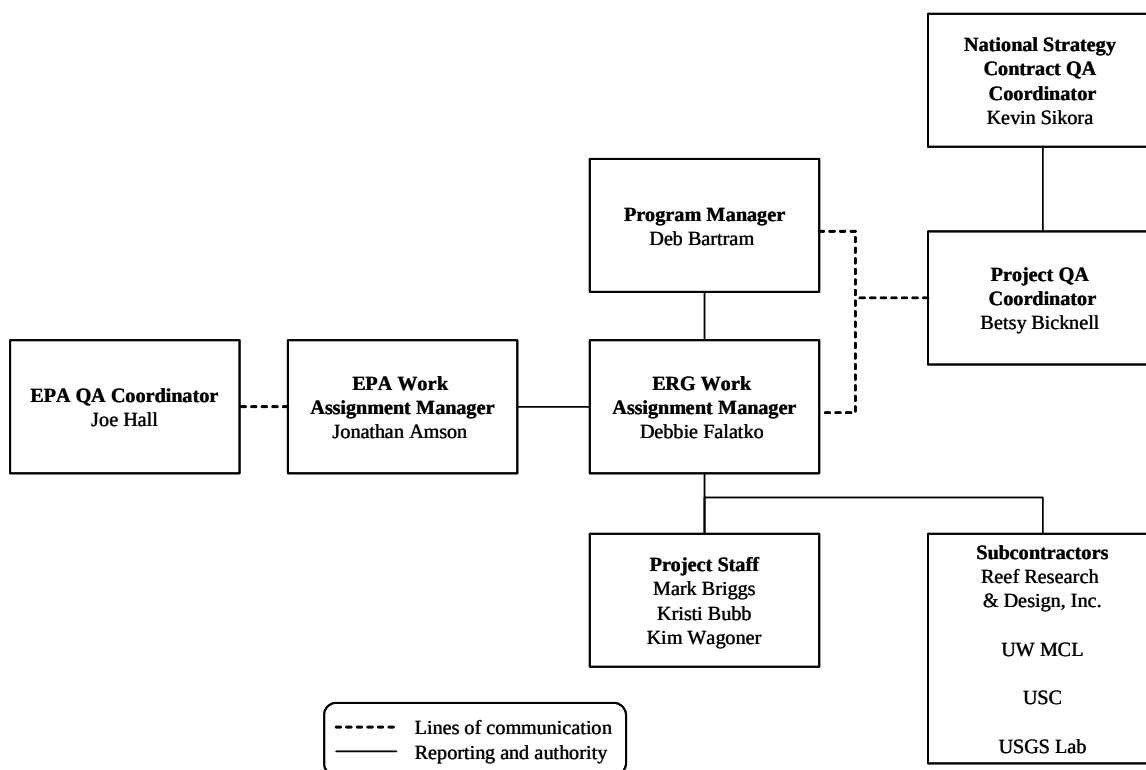


Figure 2-2. Project Level QA Organization for ERG's Support of EPA's July 2008 Sampling Program

2.3 Element A.5: Problem Definition/Background

This section explains the purpose of the July 2008 sampling program. It also presents a review of the background of the planned sampling program.

2.3.1 Statement of Key Questions and Project Outcome

Work Assignment 5-24 directs ERG to provide technical support to EPA to conduct three related studies using the OSV *Bold* to evaluate the potential impact of cruise ship wastewater (treated sewage and graywater) discharges in Alaskan waters. ERG will support EPA in answering the following six key questions:

- 1) Can a dye dispersal study that incorporates advanced monitoring techniques be used to validate hydrodynamic modeling?

- 2) Is phytoplankton growth in Skagway Harbor limited by nitrogen or phosphorus concentrations?
- 3) Does the form of nitrogen added (i.e., ammonium vs. nitrate vs. urea) alter the level of phytoplankton growth?
- 4) Does the form of nitrogen added to harbor water select for different phytoplankton species than those that typically dominate in Skagway Harbor?
- 5) What is the spatial extent and relative magnitude of anthropogenic nutrient uptake by primary producers in the vicinity of Skagway Harbor?
- 6) Can the nutrients being utilized by primary producers be linked to specific anthropogenic sources?

ERG will support EPA in the following two issues:

- Provide near-field environmental monitoring data near cruise ship discharge ports to support possible regulatory option assessments by EPA and ADEC for controlling discharges from cruise ships.
- Provide data on nutrient releases in Skagway Harbor to enhance EPA's understanding of the fate and effects of nutrients released from cruise ships in Alaskan waters.

Table 2-1 lists the key measurements required to address each of the questions listed above and will serve as the focus for the data quality discussions outlined in this QAPP.

Table 2-2. Key Measurements for EPA's July 2008 Sampling Program

Question Number	Study Name	Key Measurement(s)
1	Plume Dilution Study	Concentration of Rhodamine WT dye at end-of-pipe and in near-field plume
2	Nutrient Amendment Study	- Concentration and amount of nutrients added to incubation containers - Level of chlorophyll fluorescence in incubation containers
3	Nutrient Amendment Study	- Level of chlorophyll fluorescence in incubation containers - Nutrient concentrations in incubation containers
4	Nutrient Amendment Study	Identification of phytoplankton species¹
5	Nutrient Uptake Study	- Geographic location of macroalgae sample collection sites - Identification of macroalgae species - Nitrogen and carbon isotope ratios of macroalgae¹
6	Nutrient Uptake Study	- Geographic location of water samples - Nutrient concentrations of water samples - Nitrogen and carbon isotope ratios of water samples - Nitrogen and carbon isotope ratios of laboratory-cultured nutrient-depleted algae samples¹

¹This measurement is outside the scope of this QAPP and will not be discussed in the following sections.

2.3.2 Background

As the cruise ship industry expands, there is increasing concern about the potential environmental impacts of cruise ship waste streams, such as sewage and graywater (waste water from showers, sinks, laundries and kitchens). EPA is engaged in a number of activities to address the potential environmental impacts of cruise ship waste streams. In particular, (1) EPA is evaluating the performance of various advanced sewage and graywater treatment systems to assess whether revised or additional standards are warranted for sewage and graywater discharges from large cruise ships operating in Alaska; (2) EPA is completing its Cruise Ship Discharge Assessment Report, which assesses five waste streams from cruise ships: sewage, graywater, oily bilge water, solid waste, and hazardous waste; and (3) EPA has conducted a survey to study the dilution of sewage and graywater discharges from cruise ships while underway.

To continue assessment of the potential environmental impacts of cruise ships, EPA is working with ADEC to conduct three related studies in July 2008 using EPA's OSV

Bold. First, EPA will track sewage and graywater discharge plumes from cruise ships in Skagway Harbor to measure the dilution of discharges from stationary vessels. Second, EPA will conduct a nutrient amendment study to determine if phytoplankton growth in Skagway Harbor is limited by nutrients. Third, EPA will examine nitrogen uptake by primary producers in the vicinity of Skagway Harbor to assess the relative importance of natural and anthropogenic sources of nutrient inputs.

2.4 **Element A.6: Project/Task Description**

ERG is supporting EPA in planning and executing an environmental sampling program in Skagway Harbor, Alaska. Appendix A includes EPA's survey plan for the Skagway Harbor nutrient study, which provides a detailed description of the three studies included in the sampling program. The survey plan will be the primary source of procedural information and a guide for the ERG field survey team, ERG subcontractors, and EPA staff participating in the field sampling efforts planned for July 1, 2008 through July 21, 2008. Information and data resulting from the survey will be documented in a final report prepared for EPA, and will be used in technical analyses to answer the questions listed in Section 2.3.1.

2.5 **Element A.7: Quality Objectives and Acceptance Criteria**

The objective of this QAPP is to ensure that data collected during EPA's July 2008 sampling program are of sufficient quality to evaluate environmental impacts from nutrients in Alaskan waters, and to support EPA and ADEC in the development of any additional regulatory options for controlling cruise ship discharges. This section provides the data quality objectives (DQOs) for the measurements listed in Table 2-2. These DQOs state the levels of uncertainty that are acceptable; they are established in terms of accuracy and precision, completeness, representativeness, and comparability. Table 2-3 describes the criteria EPA and ERG will use to describe the quality of the key measurements required to address the questions in Section 2.3.1. Several of the DQOs in Table 2-3 define the data quality goal to achieve a low relative percent difference (RPD) between "duplicate" analyses (Equation 2-1).

$$RPD = \frac{|S - D|}{\frac{1}{2}(S + D)} \times 100 \quad (2-1)$$

where:

S = First sample result; and

D = Duplicate sample result.

The RPD is a method for calculating agreement among measured values, to evaluate the quality of repeated measurements for different DQO assessments. In Table 2-3 the RPD goal is a value between 20 and 35 percent. This is not intended to be a required value, but to be a target for assessing data quality. If the DQO target is not met, ERG will assess the sampling, transport, and laboratory conditions that might have caused these limits to be exceeded, and will note any finding for all samples of the affected matrix type. Based on these findings, ERG, in consultation with the EPA WAM, will evaluate the data's fitness to answer the questions listed in 2.3.1.

Table 2-3. Data Quality Objectives for Key Measurements

Study Name and Key Measurement	Data Quality Review Criterion	Sampling Technique to Control Quality	How this quality criterion will be measured	Goal for this measurement
<u>Plume Dilution Study:</u> Concentration of Rhodamine WT dye at end-of-pipe and in near-field plume	Accuracy	Use dilution series of known concentrations to assess fluorometer accuracy	Comparison of measured value to known concentration value	Linear curve between known concentration and measured value.
	Precision (Reproducibility)	Field duplicate of near-field plume using two fluorometers	Comparison of duplicate values	Low RPD (20 to 35% is acceptable for most programs)
	Completeness	Follow sample collection procedures outlined in EPA's survey plan- no malfunctions or missed samples	% of planned samples for which fluorometer provides usable results	100% complete
	Representativeness	- Select appropriate sampling points - Use appropriate sample techniques	Can't measure directly. Poor comparison of duplicates will indicate if samples may not be representative	Low RPD (20 to 35% is acceptable for most programs)
	Comparability (Between ship discharge tests)	Use a standard methodology for sample point selection and sample collection	Compare sample point location distance and depth from discharge point between ship discharge tests	Sample points are equivalent between ship tests
<u>Nutrient Amendment Study:</u> Concentration and amount of nutrients added to incubation containers	Accuracy and Precision	- Use good lab practices - Use calibrated mass balance to measure solid nutrient additions - Use volumetric flask to make nutrient stock solutions for nutrient additions - Use Eppendorf pipette to measure volume added to incubation container	Can't measure directly. Proper use of lab equipment will ensure accuracy.	Added nutrient concentrations meet EPA's survey plan specifications
	Completeness	Incubation container preparation- no breakage or missed additions	% of incubation containers which follow EPA's survey plan methodologies	100% complete

Table 2-3. Data Quality Objectives for Key Measurements (continued)

Study Name and Key Measurement	Data Quality Review Criterion	Sampling Technique to Control Quality	How this quality criterion will be measured	Goal for this measurement
<u>Nutrient Amendment Study:</u> Level of chlorophyll fluorescence in incubation containers	Accuracy	Calibrate fluorometer at the beginning of the nutrient amendment study	Not measured directly. Instrument calibration is set based on a known standard provided by the vendor	Use the same calibration setting on the fluorometer for the entire nutrient amendment study.
	Precision (Reproducibility)	Create four replicate samples of each incubation container	Compare results from replicate samples	Low RPD (20 to 30% is acceptable for most programs.)
	Completeness	Follow sample collection procedures outlined in EPA's survey plan- no malfunctions or missed samples	% of planned samples for which fluorometer provides usable results	100% complete
	Representativeness	Use appropriate sample techniques	Can't measure directly. Poor comparison of replicate samples will indicate if samples may not be representative	Low RPD (20 to 30% is acceptable for most programs.)
	Comparability	Use standard equipment specified in EPA's study plan to collect samples	Not measured directly.	Use the same calibration setting on the fluorometer for the entire nutrient amendment study.
<u>Nutrient Amendment Study:</u> Nutrient concentrations in incubation containers	Accuracy	Use method-specified sample containers, hold times, sample collection procedures, and preservation	Accuracy can't be measured directly.	Follow sampling methods outlined in EPA's survey plan.
	Precision (Reproducibility)	Use methods outlined in EPA's study plan	Collect duplicate samples and calculate RPD values	Low RPD (20 to 35% is acceptable for most programs.)
	Completeness	- Use method-specified procedures - Shipping- meets hold times - Packing/shipping- no breakage - Sample collection- no breakage or missed samples	% of planned samples for which lab provides usable results	100% complete

Table 2-3. Data Quality Objectives for Key Measurements (continued)

Study Name and Key Measurement	Data Quality Review Criterion	Sampling Technique to Control Quality	How this quality criterion will be measured	Goal for this measurement
	Representativeness	Use sample techniques outlined EPA's study plan	Can't measure directly. Poor comparison of duplicates will indicate if samples may not be representative	Low RPD (20 to 35% is acceptable for most programs.)
	Comparability	Use standard analytical methods, conducted using standard procedures	Compare analytical methods and the detection limits they achieve	Analytical methods and detection limits are identical
<u>Nutrient Uptake Study:</u> Geographic location of water and macroalgae sample collection sites	Accuracy	Use factory calibrated global positioning unit (GPS)	Can't measure directly.	Use the same GPS unit throughout the nutrient uptake study
	Precision (Reproducibility)	Use sample techniques outlined EPA's study plan	Compare duplicate sample location latitude and longitude coordinates	Return to the same location
	Completeness	Follow sample collection procedures outlined in EPA's survey plan- no malfunctions	A measurement for every collection point	100% complete
	Comparability (Sampling from the same location)	Use standard equipment specified in EPA's study plan to collect samples	Not measured directly.	Use the same GPS unit throughout the nutrient uptake study.
<u>Nutrient Uptake Study:</u> Identification of macroalgae species	Accuracy	Follow sample collection procedures outlined in EPA's survey plan	Can't measure directly. Accuracy is dependent upon the expertise of sampler.	Collect macroalgae species specified in EPA's survey plan.
	Precision (Reproducibility)	Follow sample collection procedures outlined in EPA's survey plan	Can't measure directly. Precision is dependent upon the expertise of sampler.	Use the same expert to identify all macroalgae
	Completeness	Follow sample collection procedures outlined in EPA's survey plan- no missed samples	% of planned samples for which macroalgae are properly identified	100% complete
	Representativeness	Follow sample collection procedures outlined in EPA's survey plan	Can't measure directly. Representativeness is dependent upon the expertise of sampler.	Collect macroalgae species specified in EPA's survey plan.

Table 2-3. Data Quality Objectives for Key Measurements (continued)

Study Name and Key Measurement	Data Quality Review Criterion	Sampling Technique to Control Quality	How this quality criterion will be measured	Goal for this measurement
	Comparability	Follow sample collection procedures outlined in EPA's survey plan	Can't measure directly. Comparability is dependant upon the expertise of sampler.	Collect macroalgae species specified in EPA's survey plan.
<u>Nutrient Uptake Study:</u> Nutrient concentrations of water samples	Accuracy	Use method-specified sample containers, hold times, sample collection procedures, and preservation	Accuracy can't be measured directly.	Follow sampling methods outlined in EPA's survey plan.
	Precision (Reproducibility)	Use methods outlined in EPA's study plan	Collect duplicate samples and calculate RPD values	Low RPD (20 to 35% is acceptable for most programs.)
	Completeness	- Use method-specified procedures - Shipping- meets hold times - Packing/shipping- no breakage - Sample collection- no breakage or missed samples	% of planned samples for which lab provides usable results	100% complete
	Representativeness	Use sample techniques outlined EPA's study plan	Can't measure directly. Poor comparison of duplicates will indicate if samples may not be representative	Low RPD (20 to 35% is acceptable for most programs.)
	Comparability	Use standard analytical methods, conducted using standard procedures	Compare analytical methods and the detection limits they achieve	Analytical methods and detection limits are identical
<u>Nutrient Uptake Study:</u> Nitrogen and carbon isotope ratios of water samples	Accuracy	Use method-specified sample containers, hold times, sample collection procedures, and preservation	Accuracy can't be measured directly.	Follow sampling methods outlined in EPA's survey plan.
	Precision (Reproducibility)	Use methods outlined in EPA's study plan	Collect duplicate samples and calculate RPD values	Low RPD (20 to 35% is acceptable for most programs.)

Table 2-3. Data Quality Objectives for Key Measurements (continued)

Study Name and Key Measurement	Data Quality Review Criterion	Sampling Technique to Control Quality	How this quality criterion will be measured	Goal for this measurement
	Completeness	• Use method-specified procedures • Shipping- meets hold times • Packing/shipping- no breakage • Sample collection- no breakage or missed samples	% of planned samples for which lab provides usable results	100% complete
	Representativeness	• Use sample techniques outlined EPA's study plan	Can't measure directly. Poor comparison of duplicates will indicate if samples may not be representative	Low RPD (20 to 35% is acceptable for most programs.)
	Comparability	• Use standard analytical methods, conducted using standard procedures	Compare analytical methods and the detection limits they achieve	Analytical methods and detection limits are identical

2.6 Element A.9: Documents and Records

ERG has developed and instituted document control mechanisms for the review, revision, and distribution of QAPPs. Each QAPP has a signed approval form, title page, table of contents, and EPA-approved document control format (shown below) that appears in the upper right-hand corner of each page:

Section No. Revision No. Date:

The distribution list for this QAPP is presented in Table 2-1. During the course of the project, any revision to the QAPP will be circulated to the distribution list.

Standard controls for project-related data, documents, and records are presented in Section 5 of ERG's QMP (2). ERG's WPM, Debbie Falatko, is responsible for maintaining all ERG project files. She is also responsible for ensuring that ERG project team members use ERG Standard Operating Procedures (SOPs), including documenting all data sources used.

3.0 DATA GENERATION AND ACQUISITION

This section addresses EPA's survey plan (Appendix A) for the July 2008 sampling program to ensure that appropriate methods for data collection, generation, and acquisition are employed and documented. The sampling program includes the following three environmental studies: plume dilution study, nutrient amendment study, and nutrient uptake study. EPA has identified ten elements to be discussed in this section; however, not all of the elements are applicable to all of the studies described in the EPA's survey plan. Therefore, to facilitate discussion of data generation and acquisition, this section is divided into the following subsections:

- Section 3.1: Plume Dilution Study;
- Section 3.2: Nutrient Amendment Study; and
- Section 3.3: Nutrient Uptake Study.

3.1 Plume Dilution Study

This section describes data generation and acquisition for the plume dilution study described in the survey plan for the nutrient study (Appendix A). ERG has identified seven elements to be discussed:

- B.1: Sampling process design;
- B.2: Sampling methods;
- B.5: Quality control;
- B.6: Instrument/equipment testing, inspection and maintenance;
- B.7: Instrument/equipment calibration and frequency;
- B.8: Inspection/acceptance of supplies and consumables; and
- B.10: Data management.

3.1.1 Element B.1: Sampling Process Design

EPA is conducting a plume dilution study to provide information on (a) near-field mixing dynamics of the cruise ship discharge plume in harbor waters, and (b) whether these plumes corroborate previous modeling efforts by ADEC. In ADEC's models, the predicted dilution factor for stationary cruise ships in Skagway Harbor ranged from 5 to 60 during a neap tide. However, these modeling efforts used parameters that may not match ambient conditions. The dilution study will employ a tracer dye (Rhodamine WT) that will be added to ship effluent discharge systems for six different cruise ships. A fluorescence sensor will be towed by a rigid inflatable boat (RIB) adjacent to the ship discharge point; sensor measurements should provide spatial information on Rhodamine dye concentrations in the plume. Measurements of dye concentration, as well as hydrographic measurements, are not anticipated beyond a distance of 50 meters from the point of discharge. Measurements will occur within 10 meters of the discharge point; however, depending upon site conditions, distances will be determined by the EPA Chief Scientist. For addition information on the plume dilution study sample design, see Section 8.0 Part A in EPA's survey plan (Appendix A).

3.1.2 Element B.2: Sampling Methods

Section 8.0 Part A of EPA's survey plan describes the sample collection procedures for the plume dilution study. If the cruise ship wastewater treatment system or other components of the graywater and sewage collection, holding, and transfer system go down during the wastewater discharge, the survey team will record the times and dates they occur during the data analysis phase. During the sampling transects, the survey team will record weather conditions (e.g., temperature, wind speed, and wind direction) to document that samples were collected during calm weather conditions. The EPA Chief Scientist will determine if weather conditions are unsuitable for sample collection. In the event that EPA is unable to sample during slack tide due to equipment malfunction, cruise ship schedules, or other reasons, the EPA Chief Scientist will determine if sample collection should continue. The sampling equipment required for the study is outlined in Section 11.0 Part A of EPA's survey plan.

3.1.3 Element B.3: Sample Handling and Custody

This element describes how collected samples retain their original and physical form and chemical composition through collection through final disposal. The plume dilution study is not collecting any samples; therefore, this element does not apply.

3.1.4 Element B.4: Analytical Methods

This element identifies the procedures to analyze samples. The plume dilution study does not include any sample analysis; therefore, this element does not apply.

3.1.5 Element B.5: Quality Control

The plume dilution study will use the following equipment to measure environmental conditions and the concentration of Rhodamine WT dye:

- Sea-Bird SBE-19 CTD meter;
- Turner SCUFA Rhodamine WT fluorometer;
- Flomotion Systems Series BE6000 wall-mount flow transmitter;
- InterOcean S4 current meter with speed, direction, tilt, 128K; and
- RDI 1200 kHz Workhorse Monitor ADCP current meter.

Measurement quality will be controlled by continuing calibration of the equipment. See Section 3.1.5 for additional information.

3.1.6 Element B.6: Instrument/Equipment Testing, Inspection, and Maintenance

See Section 3.1.5 for additional information.

3.1.7 Element B.7: Instrument/Equipment Calibration and Frequency

ERG will rent the flow meters, fluorometers, current meters, and conductivity, depth, and temperature (CDT) meters required for the plume dilution study. EPA is responsible for purchasing the metering pumps required to inject dye into the wastewater discharge. ERG

will calibrate the fluorometers using a solution of Rhodamine WT dye diluted to 0.1 µg/L prior to the beginning of sampling activities, for each of the six discharge plume studies. In addition, ERG will test the fluorometer against a four step dilution series of Rhodamine WT dye with the following concentrations 300 µg/L, 100 µg/L, 10 µg/L, and 0.04 µg/L. The flow, current, and CDT meters are calibrated at the factory and maintained by the vendors; therefore, calibration in the field is not required. In addition to meter calibration, ERG will check that all internal clocks (time and date) on the meters are synchronized, to ensure data comparability at the end of each study. At the end of each vessel plume dilution study, all equipment will be cleaned with Alconox and rinsed to remove any dye or pathogens. ERG is responsible for ensuring that all field equipment is maintained in working condition, and that decontamination procedures are properly followed. Any variation from the guidelines outlined in this QAPP will be fully documented in field logs.

3.1.8 Element B.8 Inspection/Acceptance of Supplies and Consumables

One critical consumable for the study is the Rhodamine WT tracer dye used to track the near-field plume. ERG will purchase the Rhodamine WT dye and will inspect it to ensure that there is no breakage, evidence of tampering, or contamination of the dye.

3.1.9 Element B.9: Non-direct Measurement

This element addresses data obtained from existing data sources, not directly measured or generated during the study. The plume dilution study will not use any existing data sources; therefore, this element does not apply.

3.1.10 Element B.10: Data Management

This section describes the data reporting and documentation procedures for the data collected in the study. Field documentation tools for the study include logs, electronic memory storage on field equipment (e.g., flow meters, fluorometers, CDT, and current meters) and data collection sheets completed by the survey team. ERG will review all field logs and data collection sheets, and will ensure that records are legible and complete. ERG will download the data from the equipment to a laptop while in the field, and then will transfer the data into an

Excel spreadsheet to be stored and maintained electronically. ERG will retain all sample collection records from the plume dilution study. These records will include a copy of EPA's survey plan, sampling log sheets, data sheets, and electronic copies of the equipment data. Copies of these records will be provided to EPA as necessary.

3.2 Nutrient Amendment Study

This section describes the data generation and acquisition for the nutrient amendment study in EPA's survey plan for the Skagway Harbor. This study is intended to determine whether dissolved nutrients contained in cruise ship effluent are influencing phytoplankton growth. ERG has identified nine elements to be discussed:

- B.1: Sampling process design;
- B.2: Sampling methods;
- B.3: Sample handling and custody;
- B.4: Analytical methods;
- B.5: Quality control;
- B.6: Instrument/equipment testing, inspection and maintenance;
- B.7: Instrument/equipment calibration and frequency;
- B.8: Inspection/acceptance of supplies and consumables; and
- B.10: Data management.

3.2.1 Element B.1: Sampling Process Design

As noted above, the purpose of this study is to determine whether dissolved nutrients in cruise ship effluent are influencing phytoplankton growth in Skagway Harbor. Though data are limited, it is likely that dissolved nutrient concentrations are lowest during the summer months, when cruise ship presence is at its peak. The nutrient concentrations are low during the summer due to low levels of run-off, and to nutrient drawdown during the high

productivity spring season. For the nutrient amendment study, water will be collected above the halocline in Skagway Harbor, where cruise ship wastewater is likely to have the greatest impact.

Based on dissolved nutrient data in the Draft Cruise Ship TDD Environmental Assessment, EPA hypothesized that the phytoplankton community in Skagway Harbor may be nitrogen-limited, and is unlikely to be limited by phosphorus. Consequently, the following nutrient additions were selected for the nutrient amendment study:

- Control (no addition);
- Nitrogen ($35 \mu\text{mol L}^{-1}$ nitrate);
- Phosphorus ($2.5 \mu\text{mol L}^{-1}$ orthophosphate);
- Nitrogen + Phosphorus ($35 \mu\text{mol L}^{-1}$ nitrate and $2.5 \mu\text{mol L}^{-1}$ orthophosphate);
- Nitrogen as ammonia ($35 \mu\text{mol L}^{-1}$ ammonium chloride);
- Nitrogen as organic nitrogen ($35 \mu\text{mol L}^{-1}$ urea);
- Treated sewage dilution 1 (50-fold; $\sim 40 \mu\text{mol L}^{-1}$ inorganic nitrogen, $\sim 100 \text{ mg L}^{-1}$ total phosphorus); and
- Treated sewage dilution 2 (500-fold; $\sim 4 \mu\text{mol L}^{-1}$ inorganic nitrogen, $\sim 10 \text{ mg L}^{-1}$ total phosphorus).

For additional information on the nutrient amendment study design, see Section 8.0 Part B in EPA's survey plan (Appendix A).

3.2.2 Element B.2: Sampling Methods

Section 8.0 Part B of EPA's survey plan (Appendix A) describes the sampling procedures for the nutrient amendment study.

3.2.3 Element B.3: Sample Handling and Custody

This section describes sample handling and custody procedures for the nutrient amendment study.

Sample Handling

Section 8.0 Part B of EPA's survey plan (Appendix A) describes sampling handling procedures for the nutrient amendment study.

Sample Custody

The integrity of the samples will be maintained from collection through analysis. The study will use field logs, sample identification numbers, an Excel spreadsheet for detailed sample identification, and traffic reports to provide documentation. EPA will assign an identification number by writing directly on the bottles with a permanent marker, and will track the samples in an Excel spreadsheet to be delivered to the lab that will contain instructions on the required analysis for each sample.

To maintain a record of sample collection, transfer between personnel, shipment, and receipt by the laboratory, the survey team will complete a traffic report for each cooler or box that is shipped to a laboratory. These traffic reports will document custody transfer from the field to the laboratory, and will contain the following information:

- Incubation episode number;
- Sample number for each sample in shipment;
- Collection date and time for each sample in shipment;
- Amendment (yes or no);
- Number of containers of each sample;
- Sample description (environmental matrix);
- Analyses required for each sample;
- Shipment or airbill number;
- Date and method of shipment;
- The name of the person shipping the samples; and
- The name and address of the person receiving the samples.

Rachel Jakuba, the nutrient amendment study lead, is responsible for completing traffic reports, including referencing all applicable duplicate samples, and noting the date and time of shipment. ERG will inspect the traffic reports for accuracy and will initial any changes made to the form. One copy will be retained by ERG; two copies will accompany the sample shipment. A printout or CD of the Excel spreadsheet will also accompany the samples to the laboratory.

When a laboratory receives the samples, the laboratory sample custodian will check all bottles against traffic reports, record the condition of the samples, and sign, date, and mark the time of receipt on the traffic reports. The custodian will immediately report any discrepancies or problems to ERG.

3.2.4 Element B.4: Analytical Methods

Table 3-1 lists the analytical methods that will be used to analyze the ambient harbor water and the 48-hour and 96-hour incubation water samples collected for the nutrient amendment study. The table also lists the volume of sample to be collected, container type, preservation, and maximum holding times. The source of the analytical methods are identified; they are not reproduced in this document.

Table 3-1. Analytical Methods for Nutrient Analyses

Parameter	Method	Volume and Container Type	Preservation ¹	Holding Time
Ammonia	Slawyk and MacIsaac,1972 (4)	One 60 mL, plastic	Filter using a 0.45 µm filter and freeze	2 weeks within receipt at UW MCL
Nitrate/ Nitrite	Armstrong et al.,1967 (5)	One 60 mL, plastic	Filter using a 0.45 µm filter and freeze	2 weeks within receipt at UW MCL
Orthophosphate	Bernhardt and Wilhelms,1967 (6)	One 60 mL, plastic	Filter using a 0.45 µm filter and freeze	2 weeks within receipt at UW MCL
Silicate	Armstrong et al.,1967 (5)	One 60 mL, plastic	Filter using a 0.45 µm filter and freeze	2 weeks within receipt at UW MCL
Total Nitrogen	Valderrama,1981 (7)	One 60 mL, plastic	Filter using a 0.45 µm filter and freeze	2 weeks within receipt at UW MCL
Total Phosphorus	Valderrama,1981 (7)	One 60 mL, plastic	Filter using a 0.45 µm filter and freeze	2 weeks within receipt at UW MCL

¹ All sample preservation will be performed in the field prior to shipment to UW MCL.

3.2.5 Element B.5: Quality Control

Field quality control samples for the nutrient amendment study include duplicate samples. The purpose of the duplicate is to evaluate the precision (reproducibility) of data collected. ERG will verify that the laboratory performance for the nutrient samples sent to UW MCL is acceptable, by comparing the analytical results to method requirements. Based on this comparison, ERG will evaluate the validity of the data in consultation with the EPA WAM, and will submit all laboratory results including a report discussing any quality assurance or quality control issues or concerns regarding the data.

EPA is responsible for verifying that the laboratory performance for the phytoplankton samples sent to the University of Southern California meets the method requirements. For results from either laboratory, EPA may require the laboratories to re-analyze the samples if analytical performance does not meet method requirements.

In addition to duplicate samples, EPA will also use instrument calibration to control the quality of the chlorophyll field measurements. See Section 3.2.7 for additional information on instrument calibration for the nutrient amendment study.

3.2.6 Element B.6: Instrument/equipment testing, inspection and maintenance

See Section 3.2.7 for additional information.

3.2.7 Element B.7: Instrument/equipment calibration and frequency

EPA will calibrate the fluorometer per manufacturer's requirements prior to the nutrient amendment study. Once the meter is calibrated, EPA will use the same fluorometer with same calibration setting for the nutrient amendment study.

3.2.8 Element B.8: Inspection/acceptance of supplies and consumables

Critical supplies and consumables for this project include sample bottles, syringes, filters, nutrient amendment chemicals, preservation chemicals, and sampling equipment. See Section 11.0 Part B of EPA's survey plan for a complete list of supplies required for the study. ERG will purchase the required materials and will inspect materials upon receipt to ensure there is no breakage, evidence of tampering, or contamination.

3.2.9 Element B.9: Non-direct Measurement

This element addresses data obtained from existing data sources, not directly measured or generated during the study. The nutrient amendment study will not use any existing data sources; therefore, this element does not apply.

3.2.10 Element B.10: Data Management

This section describes the data reporting and documentation procedures for the data collected for the study. Documentation tools for the study include field logs and data collection sheets completed by the survey team. EPA will review all documentation (field logs and data collection sheets), and will ensure that all records are legible and complete. EPA will

retain all field sample collection records for the study. These records include a copy of EPA's survey plan, field log sheets, and field data sheets.

ERG is responsible for the laboratory analysis documentation and electronic data packages from UW MCL. Upon receipt of the data packages from the laboratory, ERG will assess the quality of the data as described in Section 3.2.5, and will deliver the electronic files to EPA. ERG will retain all laboratory and sample collection records for the nutrient analysis portion of the nutrient amendment study. These records include a copy of EPA's survey plan, the sample identification Excel spreadsheet, traffic reports, and electronic data packages from UW MCL. Copies of these records will be provided to EPA as necessary.

3.3 Nutrient Uptake Study

This section describes the data generation and acquisition for the nutrient uptake study described in EPA's survey plan (Appendix A). The nutrient uptake study is intended to determine the extent of anthropogenically-added nutrient uptake in macroalgae in Skagway Harbor, using stable nitrogen and carbon isotope analyses. The nutrient uptake study is divided into the following two parts:

- Part 1: Assessment of nutrient isotopes in naturally-abundant macroalgae in Taiya Inlet; and
- Part 2: Assessment of nutrient isotopes using laboratory-cultured nutrient-depleted algae samples.

EPA Region 10 is responsible for the macroalgae isotope analyses performed under Part 1 of the nutrient uptake study, and for all of procedures described in Part 2 of the nutrient uptake study. These methodologies are considered outside the scope of this QAPP, and will not be discussed further. ERG and its subcontractor Brian Lapointe, are responsible for the collection of the water and macroalgae samples for Part 1 of the study and are considered within the scope of this

QAPP. ERG has identified seven elements to be discussed for the water sample and macroalgae collection component of the study:

- B.1: Sampling process design;
- B.2: Sampling methods;
- B.3: Sample handling and custody;
- B.4: Analytical methods;
- B.5: Quality control;
- B.8: Inspection/acceptance of supplies and consumables; and
- B.10: Data management.

3.3.1 Element B.1: Sampling Process Design

Municipal (sewage outfall), riverine (Skagway River), oceanic (Taiya Inlet), and vessel (sewage and graywater) inputs are the major sources of the nutrient budget for Skagway Harbor. Stable isotope ratios are known to be indicative of nutrient sources, with anthropogenic nutrient sources being enriched in ^{15}N , and depleted in ^{13}C . To obtain an isotopic signature for each of the major nutrient inputs, ERG will collect water samples from Taiya Inlet (near the western coast of the inlet, approximately two kilometers south of Skagway Harbor, at a depth of one meter), Skagway River (approximately one kilometer northeast of Skagway, at a depth of one meter [conditions permitting]), the ZID of the municipal sewage outfall (i.e., 59° 26' 54.8"N, 135° 19' 36.6W at a depth of 25 meters), and the treated graywater and sewage effluent from a cruise ship designated by the EPA Chief Scientist. ERG's subcontractor, Brian Lapointe with Reef Research & Design, Inc. will collect naturally-abundant macroalgae (e.g., *Fucus*, *Ulva*) which are assumed to be representative of primary producers in the Taiya Inlet. Mr. Lapointe will collect macroalgae samples along the eastern coast line from Nahku Bay, through Skagway Harbor, and south to Sturgills Camp at approximately 0.5 km intervals. In addition, Mr. Lapointe will collect macroalgae samples from the western coastline of the Taiya Inlet from the mouth of the Taiya River to the intersection of the Lutak Inlet at approximately two km intervals. EPA

selected this geographic area to create a spatial relationship between the potential upstream and downstream nutrient inputs into Skagway Harbor. Jim Kaldy (EPA Region 10) is responsible for the nitrogen-starved algae experiment described in Part 2 of EPA's study plan. For additional information on the nutrient uptake study sample design see Section 8.0 Part C in EPA's survey plan (Appendix A).

3.3.2 Element B.2: Sampling Methods

Section 8.0 Part C of EPA's survey plan describes the sampling procedures for Part 1 (native macroalgae) of the study.

3.3.3 Element B.3: Sample Handling and Custody

This section discusses the sample handling and custody procedures for the study.

Sample Handling

Section 8.0 Part C of EPA's survey plan describes the sampling handling procedures for Part 1 of the study.

Sample Custody

Custody of the water samples sent to UW MCL and USGS Lab and phytoplankton samples sent to USC are the responsibility of ERG, and will follow the same sample custody procedures outlined in Section 3.2.3. Elizabeth Kim, EPA, the nutrient uptake study lead, is responsible for completing traffic reports. Custody for the native macroalgae samples in the vicinity of Skagway Harbor are the responsibility of Brian Lapointe, until the release of samples to EPA's Western Ecology Division in Portland, Oregon. Jim Kaldy (EPA Region 10) is responsible for tracking and maintaining sample custody records for the macroalgae isotope analyses at EPA's Western Ecology Division in Portland, Oregon.

3.3.4 Element B.4: Analytical Methods

Table 3-1 lists the analytical methods for the nutrient analyses used to analyze the ambient water collected in the vicinity of Skagway Harbor. The table also lists the volume of sample to be collected, container type, preservation, and maximum holding times. The source of the analytical methods are identified; they are not reproduced in this document.

Table 3-2 lists the analytical methods for nitrogen and carbon isotope analyses that will be used to analyze the ambient water collected at different sites in the vicinity of Skagway Harbor. The table also lists the volume of sample to be collected, container type, preservation, and maximum holding times. The source of the analytical methods are identified; they are not reproduced in this document.

Table 3-2. Analytical Methods for Nitrogen and Carbon Isotope Analyses

Parameter	Method	Volume and Container Type	Preservation
N15/N14 of ammonium dissolved in water	USGS 2898	1 L Plastic	H ₂ SO ₄ (low nitrogen content) to a pH of <2 and cooled to <6°C
N15/N14 of nitrate dissolved in water	USGS 2899	1 L Plastic	Frozen

¹ All sample preservation will be performed in the field prior to shipment to UW MCL.

3.3.5 Element B.5: Quality Control

Quality control samples for Part 1 of the nutrient uptake study include replicate water and macroalgae samples. The purpose of the field replicate is to evaluate the precision (reproducibility) of the data collected. ERG and ERG's subcontractor Brian Lapointe will collect field replicate samples, as outlined in EPA's survey plan (Appendix A). ERG is responsible for verifying that the laboratory performance for the ambient water samples sent to UW MCL and USGS Lab are acceptable by comparing the analytical results to the method requirements. Based on this comparison, ERG will evaluate the validity of the data in consultation with the EPA WAM, and will submit all laboratory results and will include a report discussing any quality assurance or quality control issues or concerns regarding the data. EPA may require the laboratories to re-analyze the samples if analytical performance does not meet method requirements.

In addition to duplicate samples, ERG and ERG's subcontractor Brian Lapointe will use a GPS to locate and verify sample locations, to ensure that ambient water and macroalgae samples are collected at the same locations throughout the nutrient uptake study. The GPS unit is factory-calibrated; no further calibrations are necessary.

3.3.6 Element B.6: Instrument/Equipment Testing, Inspection, and Maintenance

See Section 3.3.7 for additional information.

3.3.7 Element B.7: Instrument/Equipment Calibration and Frequency

3.3.8 Element B.8: Inspection/acceptance of supplies and consumables

Supplies and consumables for this project include sample bottles, filters, nutrient amendment chemicals, preservation chemicals, and sampling equipment. See Section 11.0 Part C of EPA's survey plan for a complete list of supplies required for the study. ERG will purchase the required materials for Part 1 of the study, and will inspect materials upon receipt to ensure there is no breakage, evidence of tampering, or contamination.

3.3.9 Element B.9: Non-direct Measurement

This element addresses data obtained from existing data sources, not directly measured or generated during the study. The nutrient uptake study will not use any existing data sources; therefore, this element does not apply.

3.3.10 Element B.10: Data Management

This section describes the data reporting and documentation procedures for Part 1 of the study. Documentation tools for the nutrient amendment study include field logs and data collection sheets completed by the survey team. ERG will review all documentation (field logs and data collection sheets) and ensure that all records are legible and complete. ERG will retain all sample collection records for water samples collected for Part 1 of the study. These records include a copy of EPA's survey plan, sampling log sheets, data sheets, and traffic reports for

water samples. Elizabeth Kim, the nutrient uptake study lead, will maintain the documentation records for the macroalgae samples collected.

ERG is responsible for the laboratory analysis documentation and electronic data packages from UW MCL and USGS Lab. Upon receipt of the data packages from the laboratory, ERG will assess the quality of the data as described in Section 3.3.4, and will deliver the electronic files to EPA. ERG will retain all laboratory sample collection records for the water sample nutrient and isotope analyses. These records include a copy of EPA's survey plan, the sample tracking Excel spreadsheet, traffic reports, and electronic data packages from UW MCL and USGS Lab. Copies of these records will be provided to EPA as necessary.

4.0 ASSESSMENT AND OVERSIGHT ELEMENTS

This section describes the methods ERG will use to determine the quality of the work performed. ERG has identified two elements to be discussed:

- C.1: Assessments and Response Actions; and
- C.2: Reports to Management.

4.1 Element C.1: Assessments and Response Actions

At the completion of the study, the ERG WPM will review the field activities for which ERG was responsible, and will evaluate the following elements:

- Compliance of all activities with EPA's survey plan;
- Compliance of all procedures and analyses with procedures outlined in the
- QAPP; and
- Completeness of field documentation (i.e., field logs, traffic reports, and data collection sheets).

Following this review, ERG will document any quality assurance or quality control issues or concerns that occurred during the survey.

ERG will review all laboratory data generated from UW MCL and USGS Lab for completeness, accuracy, and precision, to ensure that quality objectives and criteria discussed in Section 2.5 of this QAPP have been met. ERG will review documentation to determine if all required analyses and documentation were provided, and that all laboratory work met contract requirements. ERG will document the results of this assessment in a report that will discuss any quality assurance or quality control issues or concerns regarding the UW MCL and USGS Lab data.

EPA is responsible for reviewing the laboratory phytoplankton data from the University of Southern California; EPA Region 10 is responsible for reviewing the isotope data for the native macroalgae samples and nitrogen-starved algae samples collected in this study.

4.2 Element C.2: Reports to Management

This QAPP will be updated and appended as necessary. Updates to EPA's survey plan will be appended to this QAPP as necessary. ERG will inform the EPA Technical PO of the progress of all work activities on this work assignment through monthly written reports. Any quality deficiencies detected by ERG will be communicated, in writing, to the EPA WAM, as soon as any deficiencies are identified.

5.0 DATA VALIDATION AND USABILITY ELEMENTS

This section describes review, verification, and validation of data collected in the Skagway Harbor plume dilution study, nutrient amendment study, and nutrient uptake study. It also discusses how data will be evaluated to determine if they adequately answer the questions posed in Section 2.3.1, and whether they met the objectives stated in Table 2-3. ERG has identified three elements to be discussed:

- D.1: Data Review, Verification and Validation;
- D.2: Verification and Validation Methods; and
- D.3: Reconciliation with User Requirements.

5.1 Elements D.1 and D.2: Data Review, Verification, and Validation; and Validation Methods

As discussed in Sections 3.2.5 and 3.3.5, ERG will subject all analytical data generated by UW MCL and USGS Lab to a multi-stage review, verification, and validation process to ensure that the data are complete, contract-compliant, and usable.

ERG will conduct an overall assessment of the sampling and laboratory data for which ERG is responsible, as outlined in Figure 2-1. This review will consider the detected and non-detected pollutants, pollutant concentrations, laboratory quality control issues, and data variability observed during the program. ERG will evaluate if field equipment measurements are reasonable, as described in Section 2.5 of this QAPP. Table 2-3 presents the data quality review criteria that ERG will use.

5.2 Element D.3: Reconciliation with User Requirements

The primary objective of this QAPP is to ensure that data collected are of the quality necessary to address the questions posed in Section 2.3.1. ERG will describe the data

quality and limitations of the sampling episode and laboratory results from UW MCL and USGS Lab, so that any future users may determine if the data are of sufficient quality.

6.0 REFERENCES

- 1) U.S. Environmental Protection Agency, EPA Requirements for Quality Assurance Project Plans QA/R-5, EPA/240/B-01/003, Office of Environmental Information. March 2001.
- 2) Eastern Research Group, 2002 Quality Management Plan, Revision No. 7. June 2002.
- 3) U.S. Environmental Protection Agency, EPA Requirements for Quality Management Plans QA/R-2, EPA/240/B-01/002, Office of Environmental Information. 2001.
- 4) Slawyk G., MacIsacc J.J. 1972. Comparison of two automated ammonium methods in a region of coastal upwelling. *Deep-Sea Research* 19:521-524.
- 5) Armstrong, F.A.J., C.R. Stearns, and J.D.H. Strickland. 1967. The measurements of upwelling and subsequent biological processes by means of the Technicon AutoAnalyzer and associated equipment. *Deep-Sea Research*, 14: 381-389.
- 6) Bernhardt H. and A. Wilhelms. 1967. The continuous determination of low level iron, soluble phosphate and total phosphate with the AutoAnalyzer. *Technicon Symposia*, 1: 385-389.
- 7) Valderrama, J.C. 1981. The simultaneous analysis of total nitrogen and total phosphorus in natural waters. *Mar. Chem.*, 10: 109-122.

Appendix A

**OSV *Bold* Survey Plan
Skagway Harbor Nutrient Study
And Open House**

July 1 – 21, 2008