

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.2E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.7E-09	5.2E-10	mg/kg-day	1.3E-05	mg/kg-day	4.0E-05
				Arsenic	5E+01	ug/L	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.8E-07	5.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	3E+00	ug/L	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
				Chromium VI	6E+01	ug/L	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.5E-05	mg/kg-day	1.8E-02
				Lead												
				Manganese	6E+02	ug/L	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.4E-03
				Mercury	6E-01	ug/L	2.4E-09	mg/kg-day	N/A	N/A	N/A	7.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.4E-04
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									3E-07					2E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.2E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.7E-09	5.2E-10	mg/kg-day	1.3E-05	mg/kg-day	4.0E-05
				Arsenic	5E+01	ug/L	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.8E-07	5.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	3E+00	ug/L	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
				Chromium VI	6E+01	ug/L	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.5E-05	mg/kg-day	1.8E-02
				Lead												
				Manganese	6E+02	ug/L	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.4E-03
				Mercury	6E-01	ug/L	2.4E-09	mg/kg-day	N/A	N/A	N/A	7.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.4E-04
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									3E-07					2E-02
		Station 22/TT-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02

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CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station 13/TT-27 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02
		Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02
		Station NT-1 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station NT-2 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02
		Station NT-3 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station WW (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02
		Station JY (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04	
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03	
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03	
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02	
				Lead													
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
			Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					4E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.0E-09	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	9.4E-09	3.0E-09	mg/kg-day	1.3E-05	mg/kg-day	2.3E-04	
				Arsenic	5E+01	ug/L	3.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.5E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.6E-03	
				Cadmium	3E+00	ug/L	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03	
				Chromium VI	6E+01	ug/L	9.4E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	7.5E-05	mg/kg-day	3.6E-02	
				Lead													
				Manganese	6E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03	
			Mercury	6E-01	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	2.1E-05	mg/kg-day	6.7E-04		
				Exp. Route Total									6E-07				
		Exposure Point Total										6E-07					5E-02

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REASONABLE MAXIMUM EXPOSURE
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Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations						
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient		
							Value	Units	Value	Units		Value	Units	Value	Units			
Surface Water (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04		
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04		
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05		
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03		
				Lead														
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03		
			Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05			
				Exp. Route Total							1E-07					5E-03		
		Exposure Point Total											1E-07					5E-03
		Station TT-31 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03		
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03		
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04		
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03		
				Lead														
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03		
			Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04			
				Exp. Route Total							3E-07					1E-02		
		Exposure Point Total											3E-07					1E-02
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03		
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03		
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04		
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03		
				Lead														
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03		
			Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04			
				Exp. Route Total							4E-07					2E-02		
		Exposure Point Total											4E-07					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03	
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03	
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04	
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03	
				Lead													
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03	
			Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					2E-02
		Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03	
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03	
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04	
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03	
				Lead													
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03	
			Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					2E-02
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03	
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03	
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04	
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03	
				Lead													
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03	
			Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04		
				Exp. Route Total									4E-07				
		Exposure Point Total										4E-07					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03	
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03	
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04	
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03	
				Lead													
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03	
			Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04		
				Exp. Route Total							4E-07					2E-02	
		Exposure Point Total										4E-07					2E-02
		Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04	
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04	
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05	
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03	
				Lead													
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03	
			Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05		
				Exp. Route Total							1E-07					5E-03	
		Exposure Point Total										1E-07					5E-03
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03	
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03	
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04	
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03	
				Lead													
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03	
			Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04		
				Exp. Route Total							3E-07					1E-02	
		Exposure Point Total										3E-07					1E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total						3E-07				1E-02			
		Exposure Point Total						3E-07				1E-02				
		Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total						3E-07				1E-02			
		Exposure Point Total						3E-07				1E-02				
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03
				Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total						1E-07				5E-03			
		Exposure Point Total						1E-07				5E-03				
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	4.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.9E-04
				Chromium VI	2E+00	ug/L	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-08	mg/kg-day	7.5E-05	mg/kg-day	1.0E-03
				Manganese	4E+02	ug/L	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
			Exp. Route Total						6E-08				4E-03			
		Exposure Point Total						6E-08				4E-03				

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	4.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.9E-04	
				Chromium VI	2E+00	ug/L	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-08	mg/kg-day	7.5E-05	mg/kg-day	1.0E-03	
				Manganese	4E+02	ug/L	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03	
				Exp. Route Total						6E-08						4E-03	
		Exposure Point Total						6E-08					4E-03				
		Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03	
				Lead	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04	
				Exp. Route Total						N/A						5E-03	
		Exposure Point Total						N/A					5E-03				
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03	
				Lead	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04	
				Exp. Route Total						N/A						5E-03	
		Exposure Point Total						N/A					5E-03				
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03	
				Lead	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03	
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04	
				Exp. Route Total						N/A						5E-03	
		Exposure Point Total						N/A					5E-03				
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	5.1E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	7.5E-05	mg/kg-day	2.0E-03	
				Lead	5E+02	ug/L	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.8E-03	mg/kg-day	3.1E-03	
				Exp. Route Total						N/A						5E-03	
				Exposure Point Total						N/A					5E-03		

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	7.9E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-02	mg/kg-day	2.3E-05	
				Tetrachloroethene	2E+00	ug/L	1.0E-06	mg/kg-day	5.4E-01	(mg/kg-day) ⁻¹	5.6E-07	3.0E-06	mg/kg-day	1.0E-02	mg/kg-day	3.0E-04	
				Chromium VI	9E-01	ug/L	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04	
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03	
				Exp. Route Total						6E-07						3E-03	
		Exposure Point Total						6E-07					3E-03				
		Station 04 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04	
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03	
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03	
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05	
				Exp. Route Total						5E-08						4E-03	
		Exposure Point Total						5E-08					4E-03				
		Station 03 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04	
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03	
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03	
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05	
				Exp. Route Total						5E-08						4E-03	
		Exposure Point Total						5E-08					4E-03				
		Station 02 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04	
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03	
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03	
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05	
				Exp. Route Total						5E-08						4E-03	
		Exposure Point Total						5E-08					4E-03				

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion	Arsenic	3E+00	ug/L	8.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.2E-07	2.4E-07	mg/kg-day	3.0E-04	mg/kg-day	7.9E-04
				Chromium VI	2E+00	ug/L	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	3.0E-03	mg/kg-day	3.8E-05
				Lead												
				Manganese	7E+01	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.4E-06	mg/kg-day	7.0E-02	mg/kg-day	7.7E-05
				Mercury	4E-02	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	3.0E-04	mg/kg-day	1.0E-05
			Exp. Route Total					1E-07				9E-04				
			Dermal	Arsenic	3E+00	ug/L	2.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.4E-08	8.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Chromium VI	2E+00	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	7.5E-05	mg/kg-day	1.1E-03
				Lead												
				Manganese	7E+01	ug/L	6.7E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	7.0E-04
				Mercury	4E-02	ug/L	3.8E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.2E-05
			Exp. Route Total					4E-08				2E-03				
		Exposure Point Total						2E-07				3E-03				
	Exposure Medium Total						N/A				N/A					
Sediment	Sediment	Station NR	Ingestion	Arsenic	2E+02	mg/kg	7.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	5.8E-06	2.2E-05	mg/kg-day	5.9E-04	mg/kg-day	3.7E-02
				Barium	6E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.7E-06	mg/kg-day	7.0E-02	mg/kg-day	8.2E-05
				Cadmium	2E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium III	3E+02	mg/kg	8.7E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	1.5E+00	mg/kg-day	1.7E-05
				Copper	3E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	3.0E-02	mg/kg-day	1.0E-03
				Lead												
				Manganese	2E+02	mg/kg	8.6E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Mercury	4E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	1.0E-04	mg/kg-day	4.6E-03
				Nickel	1E+01	mg/kg	4.9E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	7.1E-05
				Vanadium	3E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
				Zinc	5E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total					6E-06				5E-02				
			Dermal	Arsenic	2E+02	mg/kg	1.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.7E-06	5.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+00	mg/kg	6.1E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	2.5E-05	mg/kg-day	7.1E-04
			Exp. Route Total					3E-06				2E-02				
	Exposure Point Total						8E-06				6E-02					

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion	Benzo(a)anthracene	1E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	3.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.3E-07	9.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.3E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	9.1E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Antimony	1E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.5E-04
				Arsenic	7E+01	mg/kg	2.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.0E-06	7.5E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	2E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	7.0E-02	mg/kg-day	2.7E-05
				Cadmium	1E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-03	mg/kg-day	1.0E-04
				Chromium III	2E+02	mg/kg	7.5E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	1.5E+00	mg/kg-day	1.5E-05
				Copper	6E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	3.0E-02	mg/kg-day	2.2E-04
				Lead												
				Manganese	2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Mercury	1E+00	mg/kg	4.9E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	1E+01	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.3E-05
				Thallium	8E-01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	8.0E-05	mg/kg-day	1.0E-03
				Vanadium	1E+01	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
				Zinc	3E+02	mg/kg	9.5E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-01	mg/kg-day	9.3E-05
			Exp. Route Total								2E-06					2E-02
			Dermal	Benzo(a)anthracene	1E+00	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	3.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.4E-07	9.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	4.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.9E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.4E-05
				Arsenic	7E+01	mg/kg	6.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	9.2E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.0E-03
				Cadmium	1E+00	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.5E-05	mg/kg-day	3.2E-04
			Exp. Route Total								1E-06					6E-03
		Exposure Point Total									4E-06					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion	Tetrachloroethene	3E+00	mg/kg	1.4E-07	mg/kg-day	5.4E-01	(mg/kg-day) ⁻¹	7.8E-08	4.2E-07	mg/kg-day	1.0E-02	mg/kg-day	4.2E-05
				Trichloroethene	7E-01	mg/kg	3.7E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.5E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.6E-04
				Benzo(a)anthracene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	7.6E-08	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-08	6.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	2.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.1E-09	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.7E-08	6.7E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.4E-09	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	2.0E-02	mg/kg-day	3.7E-06
				Aroclor 1260	3E-02	mg/kg	1.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	3.0E-09	4.4E-09	mg/kg-day	2.0E-05	mg/kg-day	2.2E-04
				Antimony	3E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	4.0E-04	mg/kg-day	1.3E-01
				Arsenic	8E+01	mg/kg	4.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.1E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.0E-02
				Barium	5E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	1E+00	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium III	6E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	1.5E+00	mg/kg-day	6.6E-06
				Copper	3E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	3.0E-02	mg/kg-day	1.5E-04
				Lead												
				Manganese	1E+02	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Mercury	5E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	1.0E-04	mg/kg-day	7.1E-04
				Nickel	1E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.0E-02	mg/kg-day	8.7E-05
				Vanadium	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	1.0E-03	mg/kg-day	6.2E-03
				Zinc	1E+02	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	4.9E-05
			Exp. Route Total								3E-06					2E-01
			Dermal	Benzo(a)anthracene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.2E-08	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	7.9E-08	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-08	7.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.1E-09	8.6E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.7E-08	7.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.7E-09	3.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	2.0E-02	mg/kg-day	3.9E-06
				Aroclor 1260	3E-02	mg/kg	1.7E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	3.4E-09	4.9E-09	mg/kg-day	2.0E-05	mg/kg-day	2.5E-04
				Arsenic	8E+01	mg/kg	9.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-06	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.4E-03
				Cadmium	1E+00	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	7.0E-04
			Exp. Route Total								2E-06					1E-02
		Exposure Point Total									5E-06					2E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion	Trichloroethene	4E-02	mg/kg	1.9E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	7.7E-10	5.6E-09	mg/kg-day	3.0E-04	mg/kg-day	1.9E-05
				Benzo(a)anthracene	1E+00	mg/kg	6.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.9E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	7.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.2E-07	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.8E-08	3.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	8.6E-09	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-07	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	4.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.4E-08	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Aroclor 1254	5E-02	mg/kg	2.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	4.7E-09	6.9E-09	mg/kg-day	2.0E-05	mg/kg-day	3.4E-04
				Aroclor 1260	3E-01	mg/kg	1.6E-08	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	3.2E-08	4.7E-08	mg/kg-day	2.0E-05	mg/kg-day	2.4E-03
				Antimony	6E+01	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	4E+03	mg/kg	1.9E-04	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.5E-04	5.5E-04	mg/kg-day	5.9E-04	mg/kg-day	9.4E-01
				Barium	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.7E-05	mg/kg-day	7.0E-02	mg/kg-day	5.2E-04
				Cadmium	9E+00	mg/kg	4.9E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
				Chromium III	6E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	8.6E-05	mg/kg-day	1.5E+00	mg/kg-day	5.7E-05
				Copper	2E+03	mg/kg	8.6E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	3.0E-02	mg/kg-day	8.3E-03
				Lead												
				Manganese	8E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	2E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	1.0E-04	mg/kg-day	3.0E-02
				Nickel	3E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.5E-04
				Thallium	4E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	8.0E-05	mg/kg-day	7.1E-03
				Vanadium	9E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								1E-04					1E+00
			Dermal	Benzo(a)anthracene	1E+00	mg/kg	7.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.1E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	7.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.3E-07	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.0E-07	4.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	8.9E-09	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-07	5.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	4.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.5E-08	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	9.2E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Aroclor 1254	5E-02	mg/kg	2.6E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A	7.7E-09	mg/kg-day	2.0E-05	mg/kg-day	3.8E-04
				Aroclor 1260	3E-01	mg/kg	1.8E-08	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	3.6E-08	5.3E-08	mg/kg-day	2.0E-05	mg/kg-day	2.6E-03
				Arsenic	4E+03	mg/kg	4.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-05	1.3E-04	mg/kg-day	3.0E-04	mg/kg-day	4.4E-01
				Cadmium	9E+00	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.6E-03
			Exp. Route Total								7E-05					5E-01
			Exposure Point Total								2E-04					1E+00

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion	Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	6E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.1E-08	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.7E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.4E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	3E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	4.0E-04	mg/kg-day	1.3E-02
				Arsenic	2E+03	mg/kg	1.0E-04	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	7.7E-05	2.9E-04	mg/kg-day	5.9E-04	mg/kg-day	4.9E-01
				Barium	9E+01	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.0E-04
				Cadmium	1E+01	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-03	mg/kg-day	1.6E-03
				Chromium III	1E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.2E-04
				Copper	1E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-02	mg/kg-day	6.1E-03
				Lead												
				Manganese	5E+02	mg/kg	2.7E-05	mg/kg-day	N/A	N/A	N/A	7.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	1.0E-04	mg/kg-day	4.2E-02
				Nickel	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
				Thallium	8E-01	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.2E-03
				Chromium VI	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	3.0E-03	mg/kg-day	7.8E-05
			Exp. Route Total								8E-05					6E-01
			Dermal	Benzo(a)anthracene	6E-01	mg/kg	3.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.2E-08	8.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	8.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.9E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.9E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	9.0E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1260	6E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
			Dermal	Arsenic	2E+03	mg/kg	2.4E-05	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.6E-05	7.0E-05	mg/kg-day	3.0E-04	mg/kg-day	2.3E-01
				Cadmium	1E+01	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								4E-05					2E-01
		Exposure Point Total									1E-04					8E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion	Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	5E-01	mg/kg	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.9E-08	7.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.4E-07	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	4.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.5E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.4E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	1E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	4.0E-04	mg/kg-day	5.5E-03
				Arsenic	2E+03	mg/kg	1.3E-04	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.0E-04	3.8E-04	mg/kg-day	5.9E-04	mg/kg-day	6.4E-01
				Barium	1E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.3E-04
				Cadmium	9E+00	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Chromium III	2E+03	mg/kg	8.0E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	8E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-02	mg/kg-day	4.3E-03
				Lead												
				Manganese	1E+03	mg/kg	5.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	7.0E-02	mg/kg-day	2.3E-03
				Mercury	5E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	7.5E-07	mg/kg-day	1.0E-04	mg/kg-day	7.5E-03
				Nickel	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
				Thallium	1E+01	mg/kg	5.8E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	8.0E-05	mg/kg-day	2.1E-02
				Vanadium	7E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Zinc	2E+03	mg/kg	8.7E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	3.0E-01	mg/kg-day	8.4E-04
				Chromium VI	2E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	3.0E-03	mg/kg-day	1.0E-04
			Exp. Route Total								1E-04					7E-01
			Dermal	Benzo(a)anthracene	5E-01	mg/kg	2.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.0E-08	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.5E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.7E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	4.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.6E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	9.0E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1260	6E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Arsenic	2E+03	mg/kg	3.1E-05	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.7E-05	9.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.0E-01
				Cadmium	9E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.2E-03
			Exp. Route Total								5E-05					3E-01
		Exposure Point Total									1E-04					1E+00

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion	Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	4E-01	mg/kg	2.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.6E-08	6.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.4E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.3E-08	mg/kg-day	2.0E-02	mg/kg-day	4.2E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	2E+01	mg/kg	8.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	4.0E-04	mg/kg-day	5.8E-03
				Arsenic	2E+03	mg/kg	9.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	7.1E-05	2.7E-04	mg/kg-day	5.9E-04	mg/kg-day	4.6E-01
				Barium	9E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	6E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	1.0E-03	mg/kg-day	9.6E-04
				Chromium III	9E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.4E-05
				Copper	8E+02	mg/kg	3.9E-05	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-02	mg/kg-day	3.8E-03
				Lead												
				Manganese	9E+02	mg/kg	4.7E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	5E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	1.0E-04	mg/kg-day	8.1E-03
				Nickel	3E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	2.0E-02	mg/kg-day	2.5E-04
				Thallium	6E-01	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.0E-03
				Vanadium	7E+01	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	1.0E-03	mg/kg-day	1.0E-02
				Zinc	1E+03	mg/kg	6.7E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-01	mg/kg-day	6.5E-04
			Exp. Route Total								7E-05					5E-01
			Dermal	Benzo(a)anthracene	4E-01	mg/kg	2.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-08	6.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.6E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.9E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	2.0E-02	mg/kg-day	4.3E-06
				Aroclor 1260	6E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Arsenic	2E+03	mg/kg	2.2E-05	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.3E-05	6.4E-05	mg/kg-day	3.0E-04	mg/kg-day	2.1E-01
				Cadmium	6E+00	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.6E-08	mg/kg-day	2.5E-05	mg/kg-day	3.1E-03
			Exp. Route Total								3E-05					2E-01
		Exposure Point Total									1E-04					7E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion	Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	6E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.1E-08	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.7E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.4E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	2E+01	mg/kg	7.9E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	4.0E-04	mg/kg-day	5.8E-03
				Arsenic	5E+02	mg/kg	2.6E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.0E-05	7.6E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Barium	9E+01	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.0E-04
				Cadmium	7E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Chromium III	1E+03	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	8E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-02	mg/kg-day	4.2E-03
				Lead												
				Manganese	1E+03	mg/kg	5.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Mercury	5E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-07	mg/kg-day	1.0E-04	mg/kg-day	7.7E-03
				Nickel	4E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.0E-02	mg/kg-day	2.8E-04
				Thallium	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	7E+01	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	1.0E-03	mg/kg-day	1.0E-02
				Zinc	1E+03	mg/kg	6.3E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-01	mg/kg-day	6.1E-04
			Exp. Route Total								2E-05					2E-01
			Dermal	Benzo(a)anthracene	6E-01	mg/kg	3.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.2E-08	8.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	8.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.9E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.9E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	9.0E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1260	6E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Arsenic	5E+02	mg/kg	6.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	9.3E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.0E-02
				Cadmium	7E+00	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	2.5E-05	mg/kg-day	3.3E-03
			Exp. Route Total								1E-05					6E-02
		Exposure Point Total									3E-05					2E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion	Trichloroethene	4E-02	mg/kg	2.2E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.8E-10	6.4E-09	mg/kg-day	3.0E-04	mg/kg-day	2.1E-05
				Benzo(a)anthracene	1E-01	mg/kg	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.0E-09	2.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.1E-08	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-08	4.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.6E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.8E-08	7.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	7.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.3E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Aroclor 1260	1E-02	mg/kg	5.8E-10	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.2E-09	1.7E-09	mg/kg-day	2.0E-05	mg/kg-day	8.4E-05
				Antimony	9E+00	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	3.5E-03
				Arsenic	3E+02	mg/kg	1.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.1E-05	4.0E-05	mg/kg-day	5.9E-04	mg/kg-day	6.8E-02
				Barium	9E+01	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Cadmium	6E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium III	9E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.5E-05
				Copper	6E+02	mg/kg	3.3E-05	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	1E+03	mg/kg	5.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Mercury	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	1.0E-04	mg/kg-day	4.5E-03
				Nickel	3E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	2.0E-02	mg/kg-day	2.6E-04
				Thallium	4E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	8.0E-05	mg/kg-day	8.4E-04
				Vanadium	7E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	1.0E-03	mg/kg-day	9.9E-03
				Zinc	1E+03	mg/kg	5.7E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-01	mg/kg-day	5.5E-04
			Exp. Route Total								1E-05					9E-02
			Dermal	Benzo(a)anthracene	1E-01	mg/kg	7.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.2E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.3E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.9E-10	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.8E-08	7.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	7.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.5E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.3E-06
				Aroclor 1260	1E-02	mg/kg	6.4E-10	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.3E-09	1.9E-09	mg/kg-day	2.0E-05	mg/kg-day	9.4E-05
				Arsenic	3E+02	mg/kg	3.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.9E-06	9.6E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	6E+00	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	2.5E-05	mg/kg-day	3.1E-03
			Exp. Route Total								5E-06					4E-02
		Exposure Point Total									2E-05					1E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion	Benzo(b)fluoranthene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.3E-08	5.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.3E-09	9.3E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.7E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Arsenic	5E+01	mg/kg	2.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.2E-06	8.3E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	1E+03	mg/kg	7.6E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	7.0E-02	mg/kg-day	3.2E-03
				Cadmium	1E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	2E+04	mg/kg	8.1E-04	mg/kg-day	N/A	N/A	N/A	2.4E-03	mg/kg-day	1.5E+00	mg/kg-day	1.6E-03
				Copper	4E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.3E-05	mg/kg-day	3.0E-02	mg/kg-day	2.1E-03
				Lead												
				Manganese	4E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.5E-05	mg/kg-day	7.0E-02	mg/kg-day	9.3E-04
				Mercury	1E+00	mg/kg	6.2E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-04	mg/kg-day	1.8E-03
				Nickel	3E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.9E-04
				Thallium	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	8.0E-05	mg/kg-day	2.9E-03
				Vanadium	8E+01	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Zinc	1E+03	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.8E-04
				Chromium VI	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	3.0E-03	mg/kg-day	1.0E-03
			Exp. Route Total								2E-06					6E-02
			Dermal	Benzo(b)fluoranthene	3E-01	mg/kg	1.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.3E-08	5.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.4E-09	9.7E-08	mg/kg-day	N/A	N/A	N/A
				Arsenic	5E+01	mg/kg	6.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.7E-03
				Cadmium	1E+01	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	2.5E-05	mg/kg-day	4.7E-03
			Exp. Route Total								1E-06					1E-02
		Exposure Point Total									3E-06					7E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion	Aroclor 1254	1E+00	mg/kg	7.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.4E-07	2.1E-07	mg/kg-day	2.0E-05	mg/kg-day	1.0E-02
				Aroclor 1260	1E+00	mg/kg	7.7E-08	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.5E-07	2.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.1E-02
				Antimony	2E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	4.0E-04	mg/kg-day	7.4E-03
				Arsenic	3E+02	mg/kg	1.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.1E-05	4.3E-05	mg/kg-day	5.9E-04	mg/kg-day	7.3E-02
				Barium	2E+02	mg/kg	9.5E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	7.0E-02	mg/kg-day	4.0E-04
				Cadmium	1E+01	mg/kg	7.6E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
				Chromium III	1E+03	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.2E-04
				Copper	5E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	3.0E-02	mg/kg-day	2.6E-03
				Lead												
				Manganese	4E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	7.0E-02	mg/kg-day	8.0E-04
				Mercury	2E+00	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Nickel	8E+01	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	2.0E-02	mg/kg-day	5.7E-04
				Thallium	4E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	8.0E-05	mg/kg-day	7.7E-03
				Vanadium	6E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	9.8E-06	mg/kg-day	1.0E-03	mg/kg-day	9.8E-03
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.2E-03
				Chromium VI	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	3.0E-03	mg/kg-day	7.7E-05
			Exp. Route Total								1E-05					1E-01
			Dermal	Aroclor 1254	1E+00	mg/kg	8.0E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A	2.3E-07	mg/kg-day	2.0E-05	mg/kg-day	1.2E-02
				Aroclor 1260	1E+00	mg/kg	8.6E-08	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.7E-07	2.5E-07	mg/kg-day	2.0E-05	mg/kg-day	1.3E-02
				Arsenic	3E+02	mg/kg	3.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.3E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
				Cadmium	1E+01	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	2.5E-05	mg/kg-day	7.1E-03
			Exp. Route Total								5E-06					7E-02
		Exposure Point Total									2E-05					2E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion	Antimony	5E+00	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.5E-03
				Arsenic	2E+02	mg/kg	1.6E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.2E-05	4.6E-05	mg/kg-day	5.9E-04	mg/kg-day	7.8E-02
				Barium	1E+02	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	7.0E-02	mg/kg-day	4.1E-04
				Cadmium	1E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
				Chromium III	7E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.5E+00	mg/kg-day	9.9E-05
				Copper	4E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	3.0E-02	mg/kg-day	2.8E-03
				Lead												
				Manganese	1E+03	mg/kg	8.5E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	7.0E-02	mg/kg-day	3.5E-03
				Mercury	1E+00	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Nickel	4E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	2.0E-02	mg/kg-day	3.7E-04
				Thallium	1E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	8.0E-05	mg/kg-day	2.8E-03
				Vanadium	4E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	1.0E-03	mg/kg-day	9.1E-03
				Zinc	2E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
				Chromium VI	9E-01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	3.0E-03	mg/kg-day	6.4E-05
			Exp. Route Total								1E-05					1E-01
			Dermal	Arsenic	2E+02	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.7E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Cadmium	1E+01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	7.0E-03
			Exp. Route Total								6E-06					4E-02
		Exposure Point Total									2E-05					1E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion	Arsenic	1E+03	mg/kg	1.9E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.5E-05	5.5E-05	mg/kg-day	5.9E-04	mg/kg-day	9.3E-02
				Barium	3E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	7.0E-02	mg/kg-day	2.4E-05
				Cadmium	7E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	1.0E-03	mg/kg-day	3.6E-04
				Chromium III	5E+03	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.8E-04
				Copper	4E+03	mg/kg	6.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.4E-03
				Lead												
				Manganese	2E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	9E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-04	mg/kg-day	4.5E-02
				Nickel	8E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Thallium	2E+00	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.6E-08	mg/kg-day	8.0E-05	mg/kg-day	9.5E-04
				Vanadium	2E+01	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-03	mg/kg-day	1.1E-03
				Zinc	1E+03	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	7E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-05					1E-01
			Dermal	Arsenic	1E+03	mg/kg	4.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	7E+00	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
			Exp. Route Total								7E-06					5E-02
		Exposure Point Total									2E-05					2E-01
		Station TT-31	Ingestion	Arsenic	3E+01	mg/kg	1.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.2E-06	4.6E-06	mg/kg-day	5.9E-04	mg/kg-day	7.8E-03
				Barium	2E+02	mg/kg	8.3E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	7.0E-02	mg/kg-day	3.5E-04
				Cadmium	6E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	1.0E-03	mg/kg-day	8.4E-04
				Chromium III	3E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.5E+00	mg/kg-day	3.0E-05
				Copper	2E+02	mg/kg	9.5E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-02	mg/kg-day	9.2E-04
				Lead												
				Manganese	1E+03	mg/kg	6.3E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.6E-03
				Mercury	2E+00	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-04	mg/kg-day	2.7E-03
				Nickel	4E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.4E-06	mg/kg-day	2.0E-02	mg/kg-day	2.7E-04
				Vanadium	6E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	1.0E-03	mg/kg-day	8.6E-03
				Zinc	7E+02	mg/kg	3.5E-05	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	3.0E-01	mg/kg-day	3.4E-04
			Exp. Route Total								1E-06					2E-02
			Dermal	Arsenic	3E+01	mg/kg	3.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
				Cadmium	6E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
			Exp. Route Total								6E-07					6E-03
		Exposure Point Total									2E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion	Antimony	2E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	4.0E-04	mg/kg-day	1.0E-03
				Arsenic	6E+01	mg/kg	4.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.1E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.0E-02
				Barium	6E+01	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.7E-04
				Cadmium	9E+00	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Chromium III	3E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	6.8E-05	mg/kg-day	1.5E+00	mg/kg-day	4.5E-05
				Copper	7E+02	mg/kg	5.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.1E-03
				Lead												
				Manganese	7E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	3E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	6.0E-07	mg/kg-day	1.0E-04	mg/kg-day	6.0E-03
				Nickel	2E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	3E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	8.0E-05	mg/kg-day	6.5E-03
				Vanadium	8E+01	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	6E+02	mg/kg	4.5E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-01	mg/kg-day	4.3E-04
			Exp. Route Total								3E-06					6E-02
			Dermal	Arsenic	6E+01	mg/kg	9.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-06	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.4E-03
				Cadmium	9E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	6.0E-03
			Exp. Route Total								1E-06					2E-02
		Exposure Point Total									5E-06					7E-02
		Station CB-02	Ingestion	Antimony	2E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	4.0E-04	mg/kg-day	9.1E-04
				Arsenic	4E+01	mg/kg	2.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.2E-06	8.4E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.0E-04
				Cadmium	4E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Chromium III	1E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.5E+00	mg/kg-day	1.9E-05
				Copper	1E+02	mg/kg	6.8E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	3.0E-02	mg/kg-day	6.6E-04
				Lead												
				Manganese	7E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Mercury	3E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	1.0E-04	mg/kg-day	6.7E-04
				Nickel	1E+01	mg/kg	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	1.0E-04
				Vanadium	3E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	1.0E-03	mg/kg-day	6.5E-03
				Zinc	3E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	3.0E-01	mg/kg-day	2.1E-04
			Exp. Route Total								2E-06					2E-02
			Dermal	Arsenic	4E+01	mg/kg	6.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.7E-03
				Cadmium	4E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	6.2E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								1E-06					9E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion	Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	6E+02	mg/kg	4.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.2E-05	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.1E-01
				Barium	7E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	1E+01	mg/kg	9.1E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
				Chromium III	8E+02	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	1.5E+00	mg/kg-day	1.0E-04
				Copper	4E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	3.0E-02	mg/kg-day	2.6E-03
				Lead												
				Manganese	5E+02	mg/kg	3.2E-05	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	1.0E-04	mg/kg-day	5.0E-03
				Nickel	4E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	2.0E-02	mg/kg-day	3.8E-04
				Thallium	1E+00	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	8.0E-05	mg/kg-day	2.5E-03
				Vanadium	6E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	2E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
			Exp. Route Total								3E-05					2E-01
			Dermal	Arsenic	6E+02	mg/kg	9.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-05	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.7E-02
				Cadmium	1E+01	mg/kg	7.3E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.5E-03
			Exp. Route Total								1E-05					1E-01
		Exposure Point Total									5E-05					3E-01
		Station CB-04	Ingestion	Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	2E+02	mg/kg	1.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	9.8E-06	3.7E-05	mg/kg-day	5.9E-04	mg/kg-day	6.3E-02
				Barium	8E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Cadmium	6E+00	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Chromium III	3E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	1.5E+00	mg/kg-day	3.7E-05
				Copper	2E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	3.0E-02	mg/kg-day	1.7E-03
				Lead												
				Manganese	1E+03	mg/kg	9.6E-05	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	7.0E-02	mg/kg-day	4.0E-03
				Mercury	1E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-04	mg/kg-day	2.5E-03
				Nickel	8E+01	mg/kg	5.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	2.0E-02	mg/kg-day	7.8E-04
				Thallium	5E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.3E-02
				Vanadium	7E+01	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Zinc	3E+03	mg/kg	2.1E-04	mg/kg-day	N/A	N/A	N/A	6.2E-04	mg/kg-day	3.0E-01	mg/kg-day	2.1E-03
			Exp. Route Total								1E-05					1E-01
			Dermal	Arsenic	2E+02	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.6E-06	8.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				Cadmium	6E+00	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	9.3E-08	mg/kg-day	2.5E-05	mg/kg-day	3.7E-03
			Exp. Route Total								5E-06					3E-02
		Exposure Point Total									1E-05					1E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion	Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	1E+02	mg/kg	9.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	7.5E-06	2.8E-05	mg/kg-day	5.9E-04	mg/kg-day	4.8E-02
				Barium	5E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Cadmium	2E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Chromium III	5E+02	mg/kg	3.5E-05	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.5E+00	mg/kg-day	6.7E-05
				Copper	2E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Lead												
				Manganese	9E+01	mg/kg	6.5E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	7.0E-02	mg/kg-day	2.7E-04
				Mercury	3E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	6.9E-08	mg/kg-day	1.0E-04	mg/kg-day	6.9E-04
				Nickel	3E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.0E-02	mg/kg-day	2.8E-04
				Thallium	4E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	8.0E-05	mg/kg-day	1.1E-02
				Vanadium	7E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Zinc	2E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
				Chromium VI	6E-01	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	3.0E-03	mg/kg-day	4.4E-05
			Exp. Route Total								8E-06					8E-02
			Dermal	Arsenic	1E+02	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.5E-06	6.8E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	2E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	2.5E-05	mg/kg-day	1.1E-02
			Exp. Route Total								4E-06					3E-02
		Exposure Point Total									1E-05					1E-01
		Station CB-07	Ingestion	Arsenic	2E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.8E-06	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.8E-02
				Barium	6E+01	mg/kg	9.8E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	7.0E-02	mg/kg-day	4.1E-05
				Cadmium	5E+00	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
				Chromium III	7E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	1.5E+00	mg/kg-day	2.4E-05
				Copper	4E+02	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	3.0E-02	mg/kg-day	7.4E-04
				Lead												
				Manganese	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	7.0E-02	mg/kg-day	4.7E-04
				Mercury	1E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	1.0E-04	mg/kg-day	6.6E-04
				Nickel	2E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.6E-05
				Vanadium	9E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-03	mg/kg-day	4.7E-03
				Zinc	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	3.0E-01	mg/kg-day	1.0E-04
			Exp. Route Total								3E-06					3E-02
			Dermal	Arsenic	2E+02	mg/kg	8.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.3E-06	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.6E-03
				Cadmium	5E+00	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.5E-05	mg/kg-day	7.9E-04
			Exp. Route Total								1E-06					9E-03
		Exposure Point Total									4E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion	Benzo(a)anthracene	1E-01	mg/kg	5.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.2E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.3E-08	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.9E-09	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.8E-10	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.3E-09	9.2E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.0E-02	mg/kg-day	9.9E-07
				Antimony	6E+00	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.2E-03
				Arsenic	2E+02	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	9.5E-06	3.6E-05	mg/kg-day	5.9E-04	mg/kg-day	6.1E-02
				Barium	6E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	9.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Cadmium	6E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	1.0E-03	mg/kg-day	8.5E-04
				Chromium III	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.2E-04
				Copper	4E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	6.1E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Lead												
				Manganese	8E+02	mg/kg	4.1E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	3E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-04	mg/kg-day	5.2E-03
				Nickel	2E+01	mg/kg	8.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Vanadium	3E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-03	mg/kg-day	4.7E-03
				Zinc	9E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.7E-04
				Chromium VI	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	3.0E-03	mg/kg-day	1.5E-04
			Exp. Route Total								1E-05					8E-02
			Dermal	Benzo(a)anthracene	1E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.4E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.5E-08	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.0E-08	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.9E-10	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.4E-09	9.5E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.0E-06
				Arsenic	2E+02	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.4E-06	8.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.9E-02
				Cadmium	6E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
			Exp. Route Total								5E-06					3E-02
		Exposure Point Total									1E-05					1E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion	Benzo(a)anthracene	5E-01	mg/kg	2.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.8E-08	7.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.9E-07	7.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.1E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	4.6E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.1E-08	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.6E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.0E-02	mg/kg-day	1.5E-05
				Antimony	1E+00	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	4.0E-04	mg/kg-day	3.9E-04
				Arsenic	3E+01	mg/kg	1.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.4E-06	5.3E-06	mg/kg-day	5.9E-04	mg/kg-day	9.0E-03
				Barium	3E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	7.0E-02	mg/kg-day	7.2E-05
				Cadmium	7E-01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-03	mg/kg-day	1.0E-04
				Chromium III	6E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	1.5E+00	mg/kg-day	6.0E-06
				Copper	6E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	3.0E-02	mg/kg-day	3.2E-04
				Lead												
				Manganese	3E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	5.8E-03
				Mercury	4E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	1.0E-04	mg/kg-day	5.9E-04
				Nickel	1E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.4E-05
				Thallium	1E+00	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	8.0E-05	mg/kg-day	2.5E-03
				Vanadium	1E+01	mg/kg	7.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	1.0E-03	mg/kg-day	2.1E-03
				Zinc	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.2E-04
			Exp. Route Total								2E-06					2E-02
			Dermal	Benzo(a)anthracene	5E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.9E-08	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.0E-07	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.2E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	4.8E-09	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.2E-08	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.0E-08	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	2.0E-02	mg/kg-day	1.5E-05
				Arsenic	3E+01	mg/kg	4.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.6E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.2E-03
				Cadmium	7E-01	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	8.3E-09	mg/kg-day	2.5E-05	mg/kg-day	3.3E-04
			Exp. Route Total								1E-06					5E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion	Antimony	2E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.5E-04
				Arsenic	1E+02	mg/kg	2.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.6E-06	6.2E-06	mg/kg-day	5.9E-04	mg/kg-day	1.0E-02
				Barium	6E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Cadmium	4E+00	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	1.0E-03	mg/kg-day	2.0E-04
				Chromium III	3E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.5E+00	mg/kg-day	1.1E-05
				Copper	2E+02	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.3E-04
				Lead												
				Manganese	1E+03	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	7.0E-02	mg/kg-day	8.3E-04
				Mercury	2E+00	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-08	mg/kg-day	1.0E-04	mg/kg-day	9.7E-04
				Nickel	2E+01	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.6E-05
				Thallium	4E-01	mg/kg	7.7E-09	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	8.0E-05	mg/kg-day	2.8E-04
				Vanadium	3E+01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
				Zinc	9E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.8E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								2E-06					1E-02
			Dermal	Arsenic	1E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.6E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	4E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.3E-04
			Exp. Route Total								8E-07					6E-03
		Exposure Point Total									2E-06					2E-02
		Station KF	Ingestion	Arsenic	5E+01	mg/kg	2.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.1E-06	7.9E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	7.0E-02	mg/kg-day	8.9E-05
				Cadmium	1E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.9E-06
				Copper	1E+02	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.7E-04
				Lead												
				Manganese	4E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.9E-04
				Mercury	9E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	9E+00	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	6.9E-05
				Vanadium	2E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Zinc	3E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.8E-04
			Exp. Route Total								2E-06					2E-02
			Dermal	Arsenic	5E+01	mg/kg	6.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	9.7E-07	1.9E-06	mg/kg-day	3.0E-04	mg/kg-day	6.3E-03
				Cadmium	1E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.0E-04
			Exp. Route Total								1E-06					7E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion	Benzo(a)anthracene	7E-01	mg/kg	3.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.6E-08	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.6E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.3E-08	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.6E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.1E-08	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.6E-08	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	9.3E-08	mg/kg-day	2.0E-02	mg/kg-day	4.7E-06
				Antimony	2E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.1E-04
				Arsenic	3E+01	mg/kg	1.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.2E-06	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	7.0E-02	mg/kg-day	4.6E-05
				Chromium III	1E+02	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	1E+02	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	3.0E-02	mg/kg-day	6.8E-04
				Lead												
				Manganese	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.0E-04
				Mercury	1E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	1.0E-04	mg/kg-day	1.5E-03
				Nickel	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Thallium	2E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	8.0E-05	mg/kg-day	3.2E-03
				Vanadium	2E+01	mg/kg	9.2E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
				Zinc	5E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	8.2E-05	mg/kg-day	3.0E-01	mg/kg-day	2.7E-04
			Exp. Route Total								2E-06					2E-02
			Dermal	Benzo(a)anthracene	7E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.7E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	5.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.7E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.5E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.9E-09	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.3E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.7E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.8E-06
				Arsenic	3E+01	mg/kg	3.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
			Exp. Route Total								1E-06					4E-03
		Exposure Point Total									3E-06					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion	Trichloroethene	2E-02	mg/kg	1.2E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	4.6E-10	3.4E-09	mg/kg-day	3.0E-04	mg/kg-day	1.1E-05
				Benzo(a)anthracene	6E+00	mg/kg	2.9E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.1E-07	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	2.9E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.1E-06	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.6E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	4.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.5E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.1E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.5E-07	5.9E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Aroclor 1260	7E-02	mg/kg	3.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	6.9E-09	1.0E-08	mg/kg-day	2.0E-05	mg/kg-day	5.1E-04
				Antimony	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	8.9E-04
				Arsenic	8E+01	mg/kg	4.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.2E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	8E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.8E-04
				Cadmium	5E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Chromium III	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.5E+00	mg/kg-day	2.5E-05
				Copper	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.2E-03
				Lead												
				Manganese	4E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	7.0E-02	mg/kg-day	9.1E-04
				Mercury	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	1.0E-04	mg/kg-day	4.2E-03
				Nickel	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	8.0E-05	mg/kg-day	4.2E-03
				Vanadium	5E+01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	1.0E-03	mg/kg-day	7.9E-03
				Zinc	1E+03	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.8E-04
			Exp. Route Total								7E-06					4E-02
			Dermal	Benzo(a)anthracene	6E+00	mg/kg	3.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.2E-07	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	3.0E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.2E-06	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.8E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	5.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.6E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.3E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.5E-07	6.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.4E-05
				Aroclor 1260	7E-02	mg/kg	3.9E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	7.8E-09	1.1E-08	mg/kg-day	2.0E-05	mg/kg-day	5.7E-04
				Arsenic	8E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-06	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.7E-03
				Cadmium	5E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	6.2E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								5E-06					1E-02
		Exposure Point Total									1E-05					6E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion	Antimony	2E+00	mg/kg	9.0E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	4.0E-04	mg/kg-day	6.5E-04
				Arsenic	2E+02	mg/kg	7.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	6.1E-06	2.3E-05	mg/kg-day	5.9E-04	mg/kg-day	3.9E-02
				Barium	4E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.7E-06	mg/kg-day	7.0E-02	mg/kg-day	8.1E-05
				Cadmium	3E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	1.0E-03	mg/kg-day	4.0E-04
				Chromium III	8E+01	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.5E+00	mg/kg-day	7.8E-06
				Copper	4E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	2E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	7.0E-02	mg/kg-day	4.5E-04
				Mercury	7E-01	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
				Nickel	1E+01	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	2E+00	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	8.0E-05	mg/kg-day	3.6E-03
				Vanadium	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	1.0E-03	mg/kg-day	3.2E-03
				Zinc	1E+03	mg/kg	6.8E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.6E-04
			Exp. Route Total								6E-06					5E-02
			Dermal	Arsenic	2E+02	mg/kg	1.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.8E-06	5.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
				Cadmium	3E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.2E-08	mg/kg-day	2.5E-05	mg/kg-day	1.3E-03
			Exp. Route Total								3E-06					2E-02
		Exposure Point Total									9E-06					7E-02
		Station AS	Ingestion	Antimony	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	4.0E-04	mg/kg-day	1.1E-03
				Arsenic	1E+02	mg/kg	6.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	4.9E-06	1.8E-05	mg/kg-day	5.9E-04	mg/kg-day	3.1E-02
				Barium	1E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	7.0E-02	mg/kg-day	2.4E-04
				Cadmium	1E+01	mg/kg	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium III	9E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.3E-05
				Copper	6E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	8.8E-05	mg/kg-day	3.0E-02	mg/kg-day	2.9E-03
				Lead												
				Manganese	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	7.0E-02	mg/kg-day	8.4E-04
				Mercury	3E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	1.0E-04	mg/kg-day	4.7E-03
				Nickel	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	2.0E-02	mg/kg-day	3.0E-04
				Thallium	1E+00	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	8.0E-05	mg/kg-day	2.3E-03
				Vanadium	7E+01	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.2E-03
			Exp. Route Total								5E-06					6E-02
			Dermal	Arsenic	1E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.3E-06	4.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
				Cadmium	1E+01	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.5E-05	mg/kg-day	6.5E-03
			Exp. Route Total								2E-06					2E-02
		Exposure Point Total									7E-06					8E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion	Benzo(a)anthracene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.8E-08	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	9.6E-07	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.3E-09	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	6.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.6E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	2.0E-02	mg/kg-day	1.7E-05
				Antimony	2E+00	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	4.0E-04	mg/kg-day	6.9E-04
				Arsenic	2E+01	mg/kg	1.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.0E-06	3.8E-06	mg/kg-day	5.9E-04	mg/kg-day	6.4E-03
				Barium	4E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	7.0E-02	mg/kg-day	9.4E-05
				Cadmium	2E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	1E+02	mg/kg	7.8E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.5E+00	mg/kg-day	1.5E-05
				Copper	8E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-02	mg/kg-day	4.1E-04
				Lead												
				Manganese	1E+03	mg/kg	5.0E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Mercury	1E+00	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-04	mg/kg-day	1.8E-03
				Nickel	1E+01	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.2E-05
				Thallium	1E+00	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	8.0E-05	mg/kg-day	1.9E-03
				Vanadium	2E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	1.0E-03	mg/kg-day	3.0E-03
				Zinc	6E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	3.0E-01	mg/kg-day	2.9E-04
			Exp. Route Total								2E-06					2E-02
			Dermal	Benzo(a)anthracene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.1E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	1.4E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	9.9E-07	4.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.2E-07	4.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.5E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.8E-08	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	2.0E-02	mg/kg-day	1.7E-05
				Arsenic	2E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.7E-07	9.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Cadmium	2E+00	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.5E-05	mg/kg-day	7.8E-04
			Exp. Route Total								2E-06					4E-03
			Exposure Point Total								4E-06					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion	Benzo(a)anthracene	1E+00	mg/kg	6.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.0E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.3E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.4E-09	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	5.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.2E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.4E-08	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.0E-02	mg/kg-day	7.6E-06
				Aroclor 1260	1E-01	mg/kg	5.8E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.2E-08	1.7E-08	mg/kg-day	2.0E-05	mg/kg-day	8.4E-04
				Antimony	2E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	4.0E-04	mg/kg-day	6.5E-04
				Arsenic	9E+01	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.5E-06	1.3E-05	mg/kg-day	5.9E-04	mg/kg-day	2.2E-02
				Barium	8E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.8E-04
				Cadmium	5E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	1.0E-03	mg/kg-day	7.9E-04
				Chromium III	2E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	2E+02	mg/kg	8.9E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-02	mg/kg-day	8.7E-04
				Lead												
				Manganese	5E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	7E-01	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
				Nickel	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	2.0E-02	mg/kg-day	2.0E-04
				Vanadium	5E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-03	mg/kg-day	7.5E-03
				Zinc	1E+03	mg/kg	7.4E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.2E-04
			Exp. Route Total								4E-06					4E-02
			Dermal	Benzo(a)anthracene	1E+00	mg/kg	7.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.2E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.5E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.4E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	3.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.5E-08	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	7.9E-06
				Aroclor 1260	1E-01	mg/kg	6.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.3E-08	1.9E-08	mg/kg-day	2.0E-05	mg/kg-day	9.4E-04
				Arsenic	9E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.6E-06	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	5E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	6.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								2E-06					1E-02
		Exposure Point Total									6E-06					5E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion	Benzo(a)anthracene	3E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.6E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	8.0E-08	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	8.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.5E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	8.0E-10	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.6E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	2.0E-02	mg/kg-day	3.5E-06
				Antimony	9E-01	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	6E+00	mg/kg	3.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.5E-07	9.4E-07	mg/kg-day	5.9E-04	mg/kg-day	1.6E-03
				Barium	1E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	7.0E-02	mg/kg-day	2.7E-05
				Cadmium	2E-01	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	1.0E-03	mg/kg-day	2.5E-05
				Chromium III	1E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.5E+00	mg/kg-day	1.0E-06
				Copper	2E+01	mg/kg	8.7E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	3.0E-02	mg/kg-day	8.4E-05
				Lead												
				Manganese	1E+02	mg/kg	5.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Nickel	7E+00	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.5E-05
				Thallium	5E-01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.9E-08	mg/kg-day	8.0E-05	mg/kg-day	9.9E-04
				Vanadium	1E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	2E+02	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	3.0E-01	mg/kg-day	7.8E-05
			Exp. Route Total								4E-07					5E-03
			Dermal	Benzo(a)anthracene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.9E-09	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	8.3E-08	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	9.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.7E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	8.3E-10	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.8E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.0E-02	mg/kg-day	3.7E-06
				Arsenic	6E+00	mg/kg	7.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.2E-07	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.5E-04
				Cadmium	2E-01	mg/kg	6.9E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.1E-05
			Exp. Route Total								2E-07					8E-04
		Exposure Point Total									6E-07					6E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Station NR	Ingestion	Arsenic	2E+02	mg/kg	7.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.0E-05	2.0E-05	mg/kg-day	3.0E-04	mg/kg-day	6.8E-02
				Cadmium	2E+00	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium VI	2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-03	mg/kg-day	5.8E-03
				Copper	2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.8E-04
				Manganese	8E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	2E+00	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	1.0E-04	mg/kg-day	2.0E-03
				Vanadium	3E+01	mg/kg	8.8E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-03	mg/kg-day	2.6E-03
				Zinc	5E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.8E-04
			Exp. Route Total								1E-05					8E-02
			Dermal	Arsenic	2E+02	mg/kg	1.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.5E-06	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
				Cadmium	2E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.9E-04
			Exp. Route Total								3E-06					2E-02
		Exposure Point Total									1E-05					1E-01
		Station WS/WSS	Ingestion	Arsenic	1E+01	mg/kg	7.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Cadmium	4E-01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	1.0E-03	mg/kg-day	7.5E-05
				Chromium VI	2E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
				Copper	3E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	3.0E-02	mg/kg-day	2.3E-04
				Manganese	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	7.0E-02	mg/kg-day	5.5E-04
				Mercury	1E-01	mg/kg	8.2E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	1.0E-04	mg/kg-day	2.4E-04
				Thallium	1E+00	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	8.0E-05	mg/kg-day	3.0E-03
				Vanadium	2E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	7E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	4.9E-05
			Exp. Route Total								1E-06					2E-02
			Dermal	Arsenic	1E+01	mg/kg	1.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.5E-07	4.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Cadmium	4E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	6.0E-09	mg/kg-day	2.5E-05	mg/kg-day	2.4E-04
			Exp. Route Total								3E-07					2E-03
		Exposure Point Total									1E-06					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion	Arsenic	6E+01	mg/kg	4.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.3E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.1E-02
				Cadmium	7E-01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-03	mg/kg-day	1.4E-04
				Chromium VI	1E+02	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-03	mg/kg-day	9.4E-03
				Copper	5E+01	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.4E-04
				Manganese	2E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.6E-05	mg/kg-day	7.0E-02	mg/kg-day	6.6E-04
				Mercury	3E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	1.0E-04	mg/kg-day	5.9E-04
				Thallium	2E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	8.0E-05	mg/kg-day	4.2E-03
				Vanadium	3E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	1.0E-03	mg/kg-day	5.3E-03
				Zinc	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								6E-06					6E-02
			Dermal	Arsenic	6E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-06	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.7E-03
				Cadmium	7E-01	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.5E-05	mg/kg-day	4.4E-04
			Exp. Route Total								1E-06					1E-02
		Exposure Point Total									8E-06					7E-02
		Station DA	Ingestion	Arsenic	2E+02	mg/kg	1.0E-05	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-05	3.0E-05	mg/kg-day	3.0E-04	mg/kg-day	9.9E-02
				Cadmium	5E+00	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-03	mg/kg-day	7.0E-04
				Chromium VI	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-03	mg/kg-day	2.0E-02
				Copper	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Manganese	3E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	4.4E-04	mg/kg-day	7.0E-02	mg/kg-day	6.2E-03
				Mercury	3E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-04	mg/kg-day	5.2E-03
				Thallium	3E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	8.0E-05	mg/kg-day	6.4E-03
				Vanadium	4E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	1.0E-03	mg/kg-day	5.8E-03
				Zinc	6E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	9.0E-05	mg/kg-day	3.0E-01	mg/kg-day	3.0E-04
			Exp. Route Total								2E-05					1E-01
			Dermal	Arsenic	2E+02	mg/kg	2.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.7E-06	7.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Cadmium	5E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								4E-06					3E-02
		Exposure Point Total									2E-05					2E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion	Arsenic	5E+01	mg/kg	2.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.6E-06	7.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	1E+00	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium VI	1E+02	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	3.0E-03	mg/kg-day	6.1E-03
				Copper	1E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.5E-04
				Manganese	8E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Mercury	7E-01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
				Vanadium	3E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	1.0E-03	mg/kg-day	4.4E-03
				Zinc	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
			Exp. Route Total								4E-06					4E-02
			Dermal	Arsenic	5E+01	mg/kg	5.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	8.6E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.6E-03
				Cadmium	1E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.9E-04
			Exp. Route Total								9E-07					6E-03
		Exposure Point Total									4E-06					4E-02
		Station 07/DP	Ingestion	Arsenic	4E+01	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.5E-06	6.8E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	2E-01	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	1.0E-03	mg/kg-day	2.9E-05
				Chromium VI	1E+02	mg/kg	7.3E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-03	mg/kg-day	7.1E-03
				Copper	1E+02	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	5.1E-04
				Manganese	3E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	7.0E-02	mg/kg-day	7.2E-04
				Mercury	1E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	1.0E-04	mg/kg-day	1.5E-03
				Thallium	2E+00	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	8.0E-05	mg/kg-day	3.6E-03
				Vanadium	3E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	2E+04	mg/kg	9.9E-04	mg/kg-day	N/A	N/A	N/A	2.9E-03	mg/kg-day	3.0E-01	mg/kg-day	9.7E-03
			Exp. Route Total								3E-06					5E-02
			Dermal	Arsenic	4E+01	mg/kg	5.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	8.4E-07	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	5.4E-03
				Cadmium	2E-01	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	2.3E-09	mg/kg-day	2.5E-05	mg/kg-day	9.2E-05
			Exp. Route Total								8E-07					6E-03
		Exposure Point Total									4E-06					6E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Fish Fillet Tissue	Fillet, Reach 3	Ingestion	4,4'-DDD	7E-03	mg/kg	2.1E-07	mg/kg-day	2.4E-01	(mg/kg-day) ⁻¹	5.1E-08	6.2E-07	mg/kg-day	2.0E-03	mg/kg-day	3.1E-04
				4,4'-DDE	2E-02	mg/kg	5.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	1.7E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				4,4'-DDT	3E-03	mg/kg	9.0E-08	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	3.0E-08	2.6E-07	mg/kg-day	5.0E-04	mg/kg-day	5.2E-04
				Aldrin	3E-04	mg/kg	1.0E-08	mg/kg-day	1.7E+01	(mg/kg-day) ⁻¹	1.7E-07	3.0E-08	mg/kg-day	3.0E-05	mg/kg-day	9.9E-04
				alpha-Chlordane	6E-03	mg/kg	1.8E-07	mg/kg-day	3.5E-01	(mg/kg-day) ⁻¹	6.4E-08	5.4E-07	mg/kg-day	5.0E-04	mg/kg-day	1.1E-03
				Aroclor-1254	2E-02	mg/kg	7.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.4E-06	2.0E-06	mg/kg-day	2.0E-05	mg/kg-day	1.0E-01
				Aroclor-1260	6E-02	mg/kg	2.0E-06	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	4.0E-06	5.8E-06	mg/kg-day	2.0E-05	mg/kg-day	2.9E-01
				delta-BHC	6E-04	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
				Dieldrin	2E-03	mg/kg	7.1E-08	mg/kg-day	1.6E+01	(mg/kg-day) ⁻¹	1.1E-06	2.1E-07	mg/kg-day	5.0E-05	mg/kg-day	4.1E-03
				Heptachlor epoxide	8E-04	mg/kg	2.7E-08	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	2.5E-07	7.9E-08	mg/kg-day	1.3E-05	mg/kg-day	6.0E-03
				Antimony	9E-02	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Lead												
				Mercury	4E-01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	1.0E-04	mg/kg-day	3.4E-01
				Selenium	6E-01	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	5.0E-03	mg/kg-day	1.1E-02
			Exp. Route Total								7E-06					8E-01
		Exposure Point Total									7E-06					8E-01
		Fillet, Reaches 4 and 5	Ingestion	4,4'-DDD	2E-02	mg/kg	5.0E-07	mg/kg-day	2.4E-01	(mg/kg-day) ⁻¹	1.2E-07	1.5E-06	mg/kg-day	2.0E-03	mg/kg-day	7.3E-04
				4,4'-DDE	9E-02	mg/kg	2.7E-06	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	9.3E-07	8.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.7E-02
				4,4'-DDT	8E-03	mg/kg	2.6E-07	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	8.7E-08	7.5E-07	mg/kg-day	5.0E-04	mg/kg-day	1.5E-03
				Aldrin	5E-04	mg/kg	1.7E-08	mg/kg-day	1.7E+01	(mg/kg-day) ⁻¹	2.9E-07	4.9E-08	mg/kg-day	3.0E-05	mg/kg-day	1.6E-03
				alpha-Chlordane	3E-03	mg/kg	8.1E-08	mg/kg-day	3.5E-01	(mg/kg-day) ⁻¹	2.8E-08	2.4E-07	mg/kg-day	5.0E-04	mg/kg-day	4.7E-04
				Aroclor-1254	9E-02	mg/kg	2.7E-06	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	5.4E-06	7.9E-06	mg/kg-day	2.0E-05	mg/kg-day	4.0E-01
				Aroclor-1260	2E-01	mg/kg	6.0E-06	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	1.2E-05	1.7E-05	mg/kg-day	2.0E-05	mg/kg-day	8.7E-01
				Dieldrin	2E-03	mg/kg	4.8E-08	mg/kg-day	1.6E+01	(mg/kg-day) ⁻¹	7.6E-07	1.4E-07	mg/kg-day	5.0E-05	mg/kg-day	2.8E-03
				Antimony	8E-02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	4.0E-04	mg/kg-day	1.8E-02
				Lead												
				Mercury	3E-01	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-04	mg/kg-day	2.8E-01
				Selenium	7E-01	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.3E-05	mg/kg-day	5.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								2E-05					2E+00
		Exposure Point Total									2E-05					2E+00

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion	4,4'-DDD	2E-02	mg/kg	6.4E-07	mg/kg-day	2.4E-01	(mg/kg-day) ⁻¹	1.5E-07	1.9E-06	mg/kg-day	2.0E-03	mg/kg-day	9.3E-04
				4,4'-DDE	6E-02	mg/kg	1.9E-06	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	6.3E-07	5.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
				4,4'-DDT	5E-03	mg/kg	1.5E-07	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	5.1E-08	4.4E-07	mg/kg-day	5.0E-04	mg/kg-day	8.7E-04
				Aldrin	5E-04	mg/kg	1.7E-08	mg/kg-day	1.7E+01	(mg/kg-day) ⁻¹	2.9E-07	4.9E-08	mg/kg-day	3.0E-05	mg/kg-day	1.6E-03
				alpha-Chlordane	8E-03	mg/kg	2.7E-07	mg/kg-day	3.5E-01	(mg/kg-day) ⁻¹	9.3E-08	7.8E-07	mg/kg-day	5.0E-04	mg/kg-day	1.6E-03
				Aroclor-1248	8E-03	mg/kg	2.5E-07	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	5.0E-07	7.3E-07	mg/kg-day	2.0E-05	mg/kg-day	3.7E-02
				Aroclor-1254	1E-01	mg/kg	4.1E-06	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	8.1E-06	1.2E-05	mg/kg-day	2.0E-05	mg/kg-day	5.9E-01
				Aroclor-1260	8E-02	mg/kg	2.5E-06	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	5.0E-06	7.3E-06	mg/kg-day	2.0E-05	mg/kg-day	3.6E-01
				Dieldrin	2E-03	mg/kg	7.3E-08	mg/kg-day	1.6E+01	(mg/kg-day) ⁻¹	1.2E-06	2.1E-07	mg/kg-day	5.0E-05	mg/kg-day	4.3E-03
				Heptachlor epoxide	5E-04	mg/kg	1.7E-08	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	1.5E-07	4.9E-08	mg/kg-day	1.3E-05	mg/kg-day	3.8E-03
				Arsenic	2E-01	mg/kg	5.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.5E-06	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	4.9E-02
				Lead												
				Mercury	2E-01	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-04	mg/kg-day	1.9E-01
				Selenium	6E-01	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	5.0E-03	mg/kg-day	1.2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station 22/TT-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station 13/TT-27 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05	
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04	
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05	
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03	
				Lead													
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04	
			Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05		
			Exp. Route Total							2E-08					6E-03		
			Exposure Point Total									2E-08					6E-03
			Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
		Arsenic			5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04	
		Cadmium			4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05	
		Chromium VI			6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03	
		Lead															
		Manganese			6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04	
		Mercury		6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05		
		Exp. Route Total								2E-08					6E-03		
		Exposure Point Total									2E-08					6E-03	
		Station NT-1 (Reach 1)		Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
			Arsenic		5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04	
			Cadmium		4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05	
			Chromium VI		6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03	
			Lead														
			Manganese		6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04	
			Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05		
			Exp. Route Total							2E-08					6E-03		
			Exposure Point Total									2E-08					6E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations						
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient		
							Value	Units	Value	Units		Value	Units	Value	Units			
Surface Water (cont.)	Surface Water (cont.)	Station NT-2 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05		
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04		
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05		
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03		
				Lead														
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04		
			Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05			
				Exp. Route Total							2E-08					6E-03		
		Exposure Point Total											2E-08					6E-03
		Station NT-3 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05		
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04		
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05		
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03		
				Lead														
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04		
			Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05			
				Exp. Route Total							2E-08					6E-03		
		Exposure Point Total											2E-08					6E-03
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05		
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04		
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05		
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03		
				Lead														
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04		
			Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05			
				Exp. Route Total							2E-08					6E-03		
		Exposure Point Total											2E-08					6E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotien
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station WW (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
			Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05	

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations						
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient		
							Value	Units	Value	Units		Value	Units	Value	Units			
Surface Water (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04		
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04		
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05		
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04		
				Lead														
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04		
			Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05			
				Exp. Route Total							2E-08					2E-03		
		Exposure Point Total											2E-08					2E-03
		Station TT-31 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04		
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04		
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05		
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04		
				Lead														
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04		
			Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05			
				Exp. Route Total							2E-08					2E-03		
		Exposure Point Total											2E-08					2E-03
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03		
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04		
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05		
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03		
				Lead														
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03		
			Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05			
				Exp. Route Total							5E-08					7E-03		
		Exposure Point Total											5E-08					7E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03	
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04	
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05	
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03	
				Lead													
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03	
			Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05		
				Exp. Route Total							5E-08					7E-03	
		Exposure Point Total										5E-08					7E-03
		Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04	
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04	
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05	
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04	
				Lead													
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04	
			Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05		
				Exp. Route Total							2E-08					2E-03	
		Exposure Point Total										2E-08					2E-03
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04	
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04	
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05	
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04	
				Lead													
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04	
			Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05		
				Exp. Route Total							2E-08					2E-03	
		Exposure Point Total										2E-08					2E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total									2E-08				
		Exposure Point Total									2E-08					2E-03
		Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total									2E-08				
		Exposure Point Total									2E-08					2E-03
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total									2E-08				
		Exposure Point Total									2E-08					2E-03
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.0E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05
				Chromium VI	2E+00	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	7.5E-05	mg/kg-day	1.7E-04
				Manganese	4E+02	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.8E-03	mg/kg-day	3.7E-04
			Exp. Route Total									3E-09				
		Exposure Point Total									3E-09					6E-04

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station 08 (Lower Reach 2)	Dermal	Arsenic Chromium VI Manganese	7E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.0E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05	
					2E+00	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	7.5E-05	mg/kg-day	1.7E-04	
					4E+02	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.8E-03	mg/kg-day	3.7E-04	
					Exp. Route Total						3E-09					6E-04	
		Exposure Point Total										3E-09					6E-04
		Station 07/DP (Reach 3)	Dermal	Chromium VI Lead Manganese Mercury	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04	
					6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04	
					2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05	
					Exp. Route Total						N/A					9E-04	
		Exposure Point Total										N/A					9E-04
		Station LP (Reach 3)	Dermal	Chromium VI Lead Manganese Mercury	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04	
					6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04	
					2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05	
					Exp. Route Total						N/A					9E-04	
		Exposure Point Total										N/A					9E-04
		Station AS (Reach 3)	Dermal	Chromium VI Lead Manganese Mercury	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04	
					6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04	
					2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05	
					Exp. Route Total						N/A					9E-04	
		Exposure Point Total										N/A					9E-04
		Station 06 (Reach 4)	Dermal	Chromium VI Lead Manganese	4E+00	ug/L	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	7.5E-05	mg/kg-day	3.3E-04	
					5E+02	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.2E-04	
					Exp. Route Total						N/A					9E-04	
					Exposure Point Total										N/A		

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations						
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient		
							Value	Units	Value	Units		Value	Units	Value	Units			
Surface Water (cont.)	Surface Water (cont.)	Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-02	mg/kg-day	5.4E-06		
				Tetrachloroethene	2E+00	ug/L	7.1E-08	mg/kg-day	5.4E-01	(mg/kg-day) ⁻¹	3.8E-08	7.1E-07	mg/kg-day	1.0E-02	mg/kg-day	7.1E-05		
				Chromium VI	9E-01	ug/L	4.9E-10	mg/kg-day	N/A	N/A	N/A	4.9E-09	mg/kg-day	7.5E-05	mg/kg-day	6.6E-05		
				Manganese	3E+02	ug/L	9.3E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	2.8E-03	mg/kg-day	3.3E-04		
				Exp. Route Total						4E-08						5E-04		
		Exposure Point Total										4E-08						5E-04
		Station 04 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05		
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04		
				Lead														
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04		
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06		
		Exp. Route Total						2E-09						4E-04				
		Exposure Point Total										2E-09						4E-04
		Station 03 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05		
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04		
				Lead														
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04		
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06		
		Exp. Route Total						2E-09						4E-04				
		Exposure Point Total										2E-09						4E-04
		Station 02 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05		
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04		
				Lead														
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04		
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06		
		Exp. Route Total						2E-09						4E-04				
		Exposure Point Total										2E-09						4E-04

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Surface Water (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion	Arsenic	3E+00	ug/L	1.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.3E-09	1.5E-08	mg/kg-day	3.0E-04	mg/kg-day	5.1E-05	
				Chromium VI	2E+00	ug/L	7.3E-10	mg/kg-day	N/A	N/A	N/A	7.3E-09	mg/kg-day	3.0E-03	mg/kg-day	2.4E-06	
				Lead													
				Manganese	7E+01	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	7.0E-02	mg/kg-day	5.0E-06	
				Mercury	4E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	3.0E-04	mg/kg-day	6.5E-07	
			Exp. Route Total									2E-09					6E-05
			Dermal	Arsenic	3E+00	ug/L	5.5E-10	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	8.2E-10	5.5E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05	
				Chromium VI	2E+00	ug/L	5.3E-10	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	7.5E-05	mg/kg-day	7.0E-05	
				Lead													
				Manganese	7E+01	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	2.8E-03	mg/kg-day	4.5E-05	
				Mercury	4E-02	ug/L	7.0E-12	mg/kg-day	N/A	N/A	N/A	7.0E-11	mg/kg-day	2.1E-05	mg/kg-day	3.4E-06	
			Exp. Route Total									8E-10					1E-04
		Exposure Point Total										3E-09					2E-04
	Exposure Medium Total										N/A					N/A	
Sediment	Sediment	Station NR	Ingestion	Arsenic	2E+02	mg/kg	5.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	4.2E-07	5.5E-06	mg/kg-day	5.9E-04	mg/kg-day	9.2E-03	
				Barium	6E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.0E-02	mg/kg-day	2.0E-05	
				Cadmium	2E+00	mg/kg	5.6E-09	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	1.0E-03	mg/kg-day	5.6E-05	
				Chromium III	3E+02	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	6.4E-06	mg/kg-day	1.5E+00	mg/kg-day	4.3E-06	
				Copper	3E+02	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	3.0E-02	mg/kg-day	2.6E-04	
				Lead													
				Manganese	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	7.0E-02	mg/kg-day	9.0E-05	
				Mercury	4E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03	
				Nickel	1E+01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05	
				Vanadium	3E+01	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04	
				Zinc	5E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-01	mg/kg-day	4.1E-05	
			Exp. Route Total									4E-07					1E-02
			Dermal	Arsenic	2E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.9E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.7E-03	
				Cadmium	2E+00	mg/kg	8.9E-10	mg/kg-day	N/A	N/A	N/A	8.9E-09	mg/kg-day	2.5E-05	mg/kg-day	3.6E-04	
				Exp. Route Total									4E-07				
	Exposure Point Total										8E-07					2E-02	

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion	Benzo(a)anthracene	1E+00	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.8E-09	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.7E-08	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.7E-09	3.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	2.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.0E-10	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.0E-02	mg/kg-day	1.9E-06
				Antimony	9E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	4.0E-04	mg/kg-day	5.8E-05
				Arsenic	6E+01	mg/kg	1.6E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.2E-07	1.6E-06	mg/kg-day	5.9E-04	mg/kg-day	2.6E-03
				Barium	2E+01	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	7.0E-02	mg/kg-day	5.8E-06
				Cadmium	6E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	1.0E-03	mg/kg-day	1.6E-05
				Chromium III	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.5E+00	mg/kg-day	1.8E-06
				Copper	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	3.0E-02	mg/kg-day	4.8E-05
				Lead												
				Manganese	1E+02	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	7.0E-02	mg/kg-day	4.8E-05
				Mercury	6E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	1.0E-04	mg/kg-day	1.5E-04
				Nickel	7E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.3E-06
				Thallium	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	8.0E-05	mg/kg-day	1.6E-04
				Vanadium	1E+01	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-03	mg/kg-day	2.9E-04
				Zinc	2E+02	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	3.0E-01	mg/kg-day	1.9E-05
			Exp. Route Total								1E-07					3E-03
			Dermal	Benzo(a)anthracene	1E+00	mg/kg	5.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.7E-09	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.4E-08	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.5E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	5.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	4.2E-10	5.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	7.9E-09	mg/kg-day	N/A	N/A	N/A	7.9E-08	mg/kg-day	2.0E-02	mg/kg-day	4.0E-06
				Arsenic	6E+01	mg/kg	7.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.1E-07	7.5E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Cadmium	6E-01	mg/kg	2.6E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.0E-04
			Exp. Route Total								2E-07					3E-03
		Exposure Point Total									3E-07					6E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion	Tetrachloroethene	3E+00	mg/kg	7.0E-09	mg/kg-day	5.4E-01	(mg/kg-day) ⁻¹	3.8E-09	7.0E-08	mg/kg-day	1.0E-02	mg/kg-day	7.0E-06
				Trichloroethene	7E-01	mg/kg	1.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	7.1E-10	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	5.9E-05
				Benzo(a)anthracene	3E-01	mg/kg	7.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.6E-10	7.6E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	5.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.7E-09	5.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.3E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.8E-11	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	1.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	8.2E-10	1.1E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	5.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.1E-10	5.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	2.0E-02	mg/kg-day	5.1E-07
				Aroclor 1260	3E-02	mg/kg	7.4E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	7.4E-11	7.4E-10	mg/kg-day	2.0E-05	mg/kg-day	3.7E-05
				Antimony	7E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	4.0E-04	mg/kg-day	4.4E-03
				Arsenic	8E+01	mg/kg	2.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.5E-07	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.3E-03
				Barium	5E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.8E-05
				Cadmium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-03	mg/kg-day	3.6E-05
				Chromium III	6E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.5E+00	mg/kg-day	1.1E-06
				Copper	3E+01	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	7.5E-07	mg/kg-day	3.0E-02	mg/kg-day	2.5E-05
				Lead												
				Manganese	1E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Mercury	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	1.0E-04	mg/kg-day	1.2E-04
				Nickel	1E+01	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.0E-02	mg/kg-day	1.4E-05
				Vanadium	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Zinc	1E+02	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	3.0E-01	mg/kg-day	8.1E-06
			Exp. Route Total								2E-07					9E-03
			Dermal	Benzo(a)anthracene	3E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.2E-09	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	7.7E-09	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.5E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.6E-10	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	2.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.7E-09	2.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.5E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.1E-06
				Aroclor 1260	3E-02	mg/kg	1.6E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	1.6E-10	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.2E-05
				Arsenic	8E+01	mg/kg	9.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.4E-07	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cadmium	1E+00	mg/kg	5.8E-10	mg/kg-day	N/A	N/A	N/A	5.8E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								2E-07					3E-03
		Exposure Point Total									3E-07					1E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion	Trichloroethene	2E-02	mg/kg	5.6E-11	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	2.2E-11	5.6E-10	mg/kg-day	3.0E-04	mg/kg-day	1.9E-06
				Benzo(a)anthracene	1E+00	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.4E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.5E-08	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	6.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.8E-09	6.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	5.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	4.2E-10	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	8.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.8E-09	8.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	4.3E-08	mg/kg-day	2.0E-02	mg/kg-day	2.1E-06
				Aroclor 1254	2E-02	mg/kg	4.1E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	4.1E-11	4.1E-10	mg/kg-day	2.0E-05	mg/kg-day	2.0E-05
				Aroclor 1260	2E-01	mg/kg	4.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	4.1E-10	4.1E-09	mg/kg-day	2.0E-05	mg/kg-day	2.1E-04
				Antimony	1E+01	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	4.0E-04	mg/kg-day	8.3E-04
				Arsenic	4E+03	mg/kg	9.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	7.1E-06	9.2E-05	mg/kg-day	5.9E-04	mg/kg-day	1.6E-01
				Barium	2E+02	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	7.0E-02	mg/kg-day	8.7E-05
				Cadmium	9E+00	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	6E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.6E-06
				Copper	2E+03	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.4E-03
				Lead												
				Manganese	8E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	7.0E-02	mg/kg-day	2.8E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	3E+01	mg/kg	8.2E-08	mg/kg-day	N/A	N/A	N/A	8.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Thallium	1E+00	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	2.8E-08	mg/kg-day	8.0E-05	mg/kg-day	3.5E-04
				Vanadium	9E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
				Zinc	2E+03	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								7E-06					2E-01
			Dermal	Benzo(a)anthracene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.9E-09	6.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	7.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.2E-08	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.9E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	8.7E-10	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	4.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.4E-09	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	8.9E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1254	2E-02	mg/kg	9.1E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	9.1E-11	9.1E-10	mg/kg-day	2.0E-05	mg/kg-day	4.6E-05
				Aroclor 1260	2E-01	mg/kg	9.2E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	9.2E-10	9.2E-09	mg/kg-day	2.0E-05	mg/kg-day	4.6E-04
				Arsenic	4E+03	mg/kg	4.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.6E-06	4.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	9E+00	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.5E-05	mg/kg-day	1.5E-03
			Exp. Route Total								7E-06					1E-01
			Exposure Point Total								1E-05					3E-01

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion	Trichloroethene	5E-02	mg/kg	1.3E-10	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	5.4E-11	1.3E-09	mg/kg-day	3.0E-04	mg/kg-day	4.5E-06
				Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.0E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.9E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.3E-10	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	7.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.8E-09	7.9E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.7E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.0E-02	mg/kg-day	5.5E-07
				Aroclor 1260	4E-02	mg/kg	1.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	1.0E-10	1.0E-09	mg/kg-day	2.0E-05	mg/kg-day	5.2E-05
				Antimony	3E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	4.0E-04	mg/kg-day	2.2E-03
				Arsenic	2E+03	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.7E-06	4.9E-05	mg/kg-day	5.9E-04	mg/kg-day	8.2E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	1E+01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Chromium III	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-02	mg/kg-day	1.0E-03
				Lead												
				Manganese	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Mercury	3E+01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-04	mg/kg-day	7.0E-03
				Nickel	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Thallium	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	8.0E-05	mg/kg-day	2.5E-04
				Vanadium	1E+02	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	1.0E-03	mg/kg-day	2.5E-03
				Zinc	2E+03	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	2E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.3E-05
			Exp. Route Total								4E-06					1E-01
			Dermal	Benzo(a)anthracene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.9E-08	5.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	4.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.5E-09	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.6E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.7E-10	3.6E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.0E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	2.0E-02	mg/kg-day	1.1E-06
				Aroclor 1260	4E-02	mg/kg	2.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.3E-10	2.3E-09	mg/kg-day	2.0E-05	mg/kg-day	1.2E-04
				Arsenic	2E+03	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.5E-06	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.8E-02
				Cadmium	1E+01	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
			Exp. Route Total								4E-06					8E-02
		Exposure Point Total									7E-06					2E-01

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion	Trichloroethene	5E-02	mg/kg	1.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	4.8E-11	1.2E-09	mg/kg-day	3.0E-04	mg/kg-day	4.0E-06
				Benzo(a)anthracene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.4E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	2.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.6E-08	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.7E-09	3.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.0E-10	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	4.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.5E-09	4.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	8.0E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.9E-10	8.0E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	7.9E-09	mg/kg-day	2.0E-02	mg/kg-day	3.9E-07
				Aroclor 1260	3E-02	mg/kg	7.2E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	7.2E-11	7.2E-10	mg/kg-day	2.0E-05	mg/kg-day	3.6E-05
				Antimony	1E+01	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	4.0E-04	mg/kg-day	9.2E-04
				Arsenic	2E+03	mg/kg	6.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	4.9E-06	6.3E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Barium	1E+02	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	7.0E-02	mg/kg-day	3.9E-05
				Cadmium	9E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium III	2E+03	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	1.5E+00	mg/kg-day	2.6E-05
				Copper	8E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-02	mg/kg-day	7.1E-04
				Lead												
				Manganese	1E+03	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	7.0E-02	mg/kg-day	3.9E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Thallium	1E+01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	8.0E-05	mg/kg-day	3.5E-03
				Vanadium	7E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	2E+03	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	3.0E-01	mg/kg-day	1.4E-04
				Chromium VI	2E+00	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	5.1E-08	mg/kg-day	3.0E-03	mg/kg-day	1.7E-05
			Exp. Route Total								5E-06					1E-01
			Dermal	Benzo(a)anthracene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.0E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.4E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.5E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.1E-10	2.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	7.3E-09	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.2E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.0E-02	mg/kg-day	8.2E-07
				Aroclor 1260	3E-02	mg/kg	1.6E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	1.6E-10	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.0E-05
				Arsenic	2E+03	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.5E-06	3.0E-05	mg/kg-day	3.0E-04	mg/kg-day	1.0E-01
				Cadmium	9E+00	mg/kg	3.5E-09	mg/kg-day	N/A	N/A	N/A	3.5E-08	mg/kg-day	2.5E-05	mg/kg-day	1.4E-03
			Exp. Route Total								5E-06					1E-01
		Exposure Point Total									9E-06					2E-01

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion	Trichloroethene	4E-02	mg/kg	9.0E-11	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	3.6E-11	9.0E-10	mg/kg-day	3.0E-04	mg/kg-day	3.0E-06
				Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.9E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	9.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.6E-09	9.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.1E-09	2.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	1.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.4E-10	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	6.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.5E-09	6.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	7.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.2E-10	7.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	2.0E-02	mg/kg-day	6.9E-07
				Aroclor 1260	4E-02	mg/kg	8.9E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	8.9E-11	8.9E-10	mg/kg-day	2.0E-05	mg/kg-day	4.5E-05
				Antimony	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	4.0E-04	mg/kg-day	9.7E-04
				Arsenic	2E+03	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.5E-06	4.5E-05	mg/kg-day	5.9E-04	mg/kg-day	7.6E-02
				Barium	9E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	7.0E-02	mg/kg-day	3.2E-05
				Cadmium	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	8E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	3.0E-02	mg/kg-day	6.4E-04
				Lead												
				Manganese	9E+02	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	7.0E-02	mg/kg-day	3.3E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	3E+01	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	2.0E-02	mg/kg-day	4.2E-05
				Thallium	6E-01	mg/kg	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.7E-04
				Vanadium	7E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-03	mg/kg-day	1.7E-03
				Zinc	1E+03	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								3E-06					8E-02
			Dermal	Benzo(a)anthracene	4E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.4E-08	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.4E-09	6.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.8E-10	3.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	9.4E-09	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.0E-02	mg/kg-day	1.4E-06
				Aroclor 1260	4E-02	mg/kg	2.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.0E-10	2.0E-09	mg/kg-day	2.0E-05	mg/kg-day	1.0E-04
				Arsenic	2E+03	mg/kg	2.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.2E-06	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	7.2E-02
				Cadmium	6E+00	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.5E-05	mg/kg-day	1.0E-03
			Exp. Route Total								3E-06					7E-02
			Exposure Point Total								7E-06					2E-01

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion	Trichloroethene	5E-02	mg/kg	1.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	4.8E-11	1.2E-09	mg/kg-day	3.0E-04	mg/kg-day	4.0E-06
				Benzo(a)anthracene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.4E-10	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	1.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.1E-08	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	8.5E-11	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	4.7E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.4E-09	4.7E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.2E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	9.3E-10	mg/kg-day	N/A	N/A	N/A	9.3E-09	mg/kg-day	2.0E-02	mg/kg-day	4.6E-07
				Aroclor 1260	3E-02	mg/kg	8.8E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	8.8E-11	8.8E-10	mg/kg-day	2.0E-05	mg/kg-day	4.4E-05
				Antimony	2E+01	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	4.0E-04	mg/kg-day	9.6E-04
				Arsenic	5E+02	mg/kg	1.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	9.7E-07	1.3E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	7E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-03	mg/kg-day	1.7E-04
				Chromium III	1E+03	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	1.5E+00	mg/kg-day	1.8E-05
				Copper	8E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-02	mg/kg-day	7.1E-04
				Lead												
				Manganese	1E+03	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	4E+01	mg/kg	9.2E-08	mg/kg-day	N/A	N/A	N/A	9.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.6E-05
				Thallium	6E-01	mg/kg	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.8E-04
				Vanadium	7E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-03	mg/kg-day	1.7E-03
				Zinc	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-01	mg/kg-day	1.0E-04
			Exp. Route Total								1E-06					3E-02
			Dermal	Benzo(a)anthracene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.3E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	3.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.2E-08	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.4E-09	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	2.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.8E-10	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	9.7E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	7.1E-09	9.7E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.0E-02	mg/kg-day	9.6E-07
				Aroclor 1260	3E-02	mg/kg	2.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.0E-10	2.0E-09	mg/kg-day	2.0E-05	mg/kg-day	9.8E-05
				Arsenic	5E+02	mg/kg	6.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	9.1E-07	6.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				Cadmium	7E+00	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	2.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.1E-03
			Exp. Route Total								9E-07					2E-02
		Exposure Point Total									2E-06					5E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion	Trichloroethene	4E-02	mg/kg	1.1E-10	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	4.3E-11	1.1E-09	mg/kg-day	3.0E-04	mg/kg-day	3.6E-06
				Benzo(a)anthracene	1E-01	mg/kg	3.3E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.4E-10	3.3E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	4.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.0E-09	4.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	7.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.4E-10	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	5.1E-10	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.7E-11	5.1E-09	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	1.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	8.5E-10	1.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.6E-10	3.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	4.1E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.0E-02	mg/kg-day	2.0E-07
				Aroclor 1260	1E-02	mg/kg	2.8E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.8E-11	2.8E-10	mg/kg-day	2.0E-05	mg/kg-day	1.4E-05
				Antimony	9E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	4.0E-04	mg/kg-day	5.8E-04
				Arsenic	3E+02	mg/kg	6.7E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	5.1E-07	6.7E-06	mg/kg-day	5.9E-04	mg/kg-day	1.1E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	6E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-02	mg/kg-day	5.3E-04
				Lead												
				Manganese	1E+03	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	7.0E-02	mg/kg-day	3.7E-04
				Mercury	3E+00	mg/kg	7.5E-09	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	1.0E-04	mg/kg-day	7.5E-04
				Nickel	3E+01	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	8.8E-07	mg/kg-day	2.0E-02	mg/kg-day	4.4E-05
				Thallium	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.4E-04
				Vanadium	7E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-03	mg/kg-day	1.7E-03
				Zinc	1E+03	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-01	mg/kg-day	9.2E-05
			Exp. Route Total								5E-07					2E-02
			Dermal	Benzo(a)anthracene	1E-01	mg/kg	6.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.0E-10	6.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.2E-09	8.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	7.7E-11	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	2.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.8E-09	2.4E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	7.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.4E-10	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.4E-10	mg/kg-day	N/A	N/A	N/A	8.4E-09	mg/kg-day	2.0E-02	mg/kg-day	4.2E-07
				Aroclor 1260	1E-02	mg/kg	6.3E-11	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	6.3E-11	6.3E-10	mg/kg-day	2.0E-05	mg/kg-day	3.1E-05
				Arsenic	3E+02	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.8E-07	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	6E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.0E-03
			Exp. Route Total								5E-07					1E-02
		Exposure Point Total									1E-06					3E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion	Benzo(b)fluoranthene	3E-01	mg/kg	8.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.1E-10	8.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.1E-10	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	3E+01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	4.0E-04	mg/kg-day	1.8E-03
				Arsenic	4E+01	mg/kg	1.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	8.0E-08	1.0E-06	mg/kg-day	5.9E-04	mg/kg-day	1.8E-03
				Barium	1E+03	mg/kg	3.7E-06	mg/kg-day	N/A	N/A	N/A	3.7E-05	mg/kg-day	7.0E-02	mg/kg-day	5.3E-04
				Cadmium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	2E+04	mg/kg	3.9E-05	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	1.5E+00	mg/kg-day	2.6E-04
				Copper	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-02	mg/kg-day	3.5E-04
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	1E+00	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	1.0E-04	mg/kg-day	3.0E-04
				Nickel	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	2.0E-02	mg/kg-day	3.2E-05
				Thallium	2E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	8.0E-05	mg/kg-day	4.9E-04
				Vanadium	8E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Zinc	1E+03	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
				Chromium VI	2E+01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	3.0E-03	mg/kg-day	1.7E-04
			Exp. Route Total								8E-08					8E-03
			Dermal	Benzo(b)fluoranthene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.3E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.4E-10	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Arsenic	4E+01	mg/kg	5.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.5E-08	5.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.7E-03
				Cadmium	1E+01	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.6E-03
			Exp. Route Total								8E-08					3E-03
		Exposure Point Total									2E-07					1E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion	Aroclor 1254	1E+00	mg/kg	3.5E-09	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	3.5E-09	3.5E-08	mg/kg-day	2.0E-05	mg/kg-day	1.7E-03
				Aroclor 1260	1E+00	mg/kg	3.7E-09	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	3.7E-09	3.7E-08	mg/kg-day	2.0E-05	mg/kg-day	1.9E-03
				Antimony	5E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	3E+02	mg/kg	7.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	5.5E-07	7.2E-06	mg/kg-day	5.9E-04	mg/kg-day	1.2E-02
				Barium	2E+02	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	4.6E-06	mg/kg-day	7.0E-02	mg/kg-day	6.6E-05
				Cadmium	1E+01	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	1.0E-03	mg/kg-day	3.7E-04
				Chromium III	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-02	mg/kg-day	4.3E-04
				Lead												
				Manganese	4E+02	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	2E+00	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	4.6E-08	mg/kg-day	1.0E-04	mg/kg-day	4.6E-04
				Nickel	8E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	9.6E-05
				Thallium	4E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-03	mg/kg-day	1.6E-03
				Zinc	2E+03	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	2E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.3E-05
			Exp. Route Total								6E-07					2E-02
			Dermal	Aroclor 1254	1E+00	mg/kg	7.8E-09	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	7.8E-09	7.8E-08	mg/kg-day	2.0E-05	mg/kg-day	3.9E-03
				Aroclor 1260	1E+00	mg/kg	8.4E-09	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	8.4E-09	8.4E-08	mg/kg-day	2.0E-05	mg/kg-day	4.2E-03
				Arsenic	3E+02	mg/kg	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.2E-07	3.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	1E+01	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	2.5E-05	mg/kg-day	2.4E-03
			Exp. Route Total								5E-07					2E-02
		Exposure Point Total									1E-06					4E-02

TABLE 3-7.2.CT
 CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
 CENTRAL TENDENCY
 WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
 Receptor Population: Recreational User
 Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion	Antimony	5E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	4.0E-04	mg/kg-day	9.4E-04
				Arsenic	2E+02	mg/kg	1.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.3E-06	1.7E-05	mg/kg-day	5.9E-04	mg/kg-day	2.9E-02
				Barium	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Cadmium	1E+01	mg/kg	8.2E-08	mg/kg-day	N/A	N/A	N/A	8.2E-07	mg/kg-day	1.0E-03	mg/kg-day	8.2E-04
				Chromium III	7E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	1.5E+00	mg/kg-day	3.7E-05
				Copper	4E+02	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.1E-03
				Lead												
				Manganese	1E+03	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	1E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-04	mg/kg-day	1.0E-03
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	8.4E-09	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	4E+01	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.2E-04
				Chromium VI	9E-01	mg/kg	7.2E-09	mg/kg-day	N/A	N/A	N/A	7.2E-08	mg/kg-day	3.0E-03	mg/kg-day	2.4E-05
			Exp. Route Total								1E-06					4E-02
			Dermal	Arsenic	2E+02	mg/kg	8.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.2E-06	8.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.8E-02
				Cadmium	1E+01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								1E-06					3E-02
		Exposure Point Total									3E-06					7E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion	Arsenic	1E+03	mg/kg	2.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.1E-06	2.7E-05	mg/kg-day	5.9E-04	mg/kg-day	4.7E-02
				Barium	3E+01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	8.3E-07	mg/kg-day	7.0E-02	mg/kg-day	1.2E-05
				Cadmium	7E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-03	mg/kg-day	1.8E-04
				Chromium III	5E+03	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.0E-05
				Copper	4E+03	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	2E+02	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	7.0E-02	mg/kg-day	7.5E-05
				Mercury	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-04	mg/kg-day	2.3E-02
				Nickel	8E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	2.0E-02	mg/kg-day	1.0E-05
				Thallium	2E+00	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	8.0E-05	mg/kg-day	4.8E-04
				Vanadium	2E+01	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	1.0E-03	mg/kg-day	5.3E-04
				Zinc	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-01	mg/kg-day	9.9E-05
				Chromium VI	7E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	3.0E-03	mg/kg-day	5.9E-05
			Exp. Route Total								2E-06					7E-02
			Dermal	Arsenic	1E+03	mg/kg	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	7E+00	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-06					5E-02
		Exposure Point Total									4E-06					1E-01
		Station TT-31	Ingestion	Arsenic	2E+01	mg/kg	4.2E-08	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.3E-08	4.2E-07	mg/kg-day	5.9E-04	mg/kg-day	7.2E-04
				Barium	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	7.0E-02	mg/kg-day	3.3E-05
				Cadmium	4E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-03	mg/kg-day	1.1E-04
				Chromium III	2E+02	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.5E+00	mg/kg-day	3.1E-06
				Copper	1E+02	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	3.0E-02	mg/kg-day	9.6E-05
				Lead												
				Manganese	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Mercury	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-04	mg/kg-day	3.6E-04
				Nickel	3E+01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.3E-05
				Vanadium	5E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Zinc	5E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-01	mg/kg-day	3.9E-05
			Exp. Route Total								3E-08					3E-03
			Dermal	Arsenic	2E+01	mg/kg	2.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.0E-08	2.0E-07	mg/kg-day	3.0E-04	mg/kg-day	6.7E-04
				Cadmium	4E+00	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.8E-04
			Exp. Route Total								3E-08					1E-03
		Exposure Point Total									6E-08					4E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion	Antimony	2E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	4.0E-04	mg/kg-day	3.9E-04
				Arsenic	6E+01	mg/kg	4.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.4E-07	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	6E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	7.0E-02	mg/kg-day	6.4E-05
				Cadmium	9E+00	mg/kg	7.1E-08	mg/kg-day	N/A	N/A	N/A	7.1E-07	mg/kg-day	1.0E-03	mg/kg-day	7.1E-04
				Chromium III	3E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.7E-05
				Copper	7E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	7.0E-02	mg/kg-day	7.5E-04
				Mercury	3E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-04	mg/kg-day	2.2E-03
				Nickel	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	7.8E-05
				Thallium	3E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	8.0E-05	mg/kg-day	2.4E-03
				Vanadium	8E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	1.0E-03	mg/kg-day	6.1E-03
				Zinc	6E+02	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								3E-07					2E-02
			Dermal	Arsenic	6E+01	mg/kg	2.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.2E-07	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	7.1E-03
				Cadmium	9E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.5E-03
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									7E-07					3E-02
		Station CB-02	Ingestion	Antimony	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	4E+01	mg/kg	3.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.4E-07	3.2E-06	mg/kg-day	5.9E-04	mg/kg-day	5.4E-03
				Barium	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	4E+00	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-03	mg/kg-day	2.9E-04
				Chromium III	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.5E+00	mg/kg-day	7.3E-06
				Copper	1E+02	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	3.0E-02	mg/kg-day	2.5E-04
				Lead												
				Manganese	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	7.0E-02	mg/kg-day	7.8E-05
				Mercury	3E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	1.0E-04	mg/kg-day	2.5E-04
				Nickel	1E+01	mg/kg	7.6E-08	mg/kg-day	N/A	N/A	N/A	7.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.8E-05
				Vanadium	3E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	1.0E-03	mg/kg-day	2.4E-03
				Zinc	3E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.0E-05
			Exp. Route Total								2E-07					9E-03
			Dermal	Arsenic	4E+01	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.3E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
				Cadmium	4E+00	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	4.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					7E-03
		Exposure Point Total									5E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion	Antimony	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	4.0E-04	mg/kg-day	2.9E-04
				Arsenic	6E+02	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.5E-06	4.5E-05	mg/kg-day	5.9E-04	mg/kg-day	7.7E-02
				Barium	7E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	7.0E-02	mg/kg-day	7.3E-05
				Cadmium	1E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Chromium III	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	1.5E+00	mg/kg-day	2.3E-05
				Copper	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-02	mg/kg-day	9.6E-04
				Lead												
				Manganese	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.1E-04
				Mercury	2E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	1.0E-04	mg/kg-day	1.9E-03
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	7.4E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	8.0E-05	mg/kg-day	9.2E-04
				Vanadium	6E+01	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.3E-04
			Exp. Route Total								3E-06					9E-02
			Dermal	Arsenic	6E+02	mg/kg	2.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.3E-06	2.2E-05	mg/kg-day	3.0E-04	mg/kg-day	7.2E-02
				Cadmium	1E+01	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.5E-05	mg/kg-day	6.4E-03
			Exp. Route Total								3E-06					8E-02
		Exposure Point Total									7E-06					2E-01
		Station CB-04	Ingestion	Antimony	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	9.1E-04
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.1E-06	1.4E-05	mg/kg-day	5.9E-04	mg/kg-day	2.4E-02
				Barium	8E+01	mg/kg	5.8E-07	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	7.0E-02	mg/kg-day	8.4E-05
				Cadmium	6E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	1.0E-03	mg/kg-day	4.4E-04
				Chromium III	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
				Copper	2E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	3.0E-02	mg/kg-day	6.2E-04
				Lead												
				Manganese	1E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	7.0E-02	mg/kg-day	1.5E-03
				Mercury	1E+00	mg/kg	9.2E-09	mg/kg-day	N/A	N/A	N/A	9.2E-08	mg/kg-day	1.0E-04	mg/kg-day	9.2E-04
				Nickel	8E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.9E-04
				Thallium	1E+00	mg/kg	8.6E-09	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	7E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	1.0E-03	mg/kg-day	5.2E-03
				Zinc	3E+03	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	3.0E-01	mg/kg-day	7.8E-04
			Exp. Route Total								1E-06					4E-02
			Dermal	Arsenic	2E+02	mg/kg	6.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.0E-06	6.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.2E-02
				Cadmium	6E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	7.0E-08	mg/kg-day	2.5E-05	mg/kg-day	2.8E-03
			Exp. Route Total								1E-06					2E-02
		Exposure Point Total									2E-06					6E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion	Antimony	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	9.0E-04
				Arsenic	1E+02	mg/kg	1.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	8.2E-07	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.8E-02
				Barium	5E+01	mg/kg	3.9E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	7.0E-02	mg/kg-day	5.6E-05
				Cadmium	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Chromium III	5E+02	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.5E+00	mg/kg-day	2.5E-05
				Copper	2E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	3.0E-02	mg/kg-day	6.0E-04
				Lead												
				Manganese	9E+01	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	7.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.0E-04
				Mercury	3E-01	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	1.0E-04	mg/kg-day	2.6E-04
				Nickel	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	4E+00	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	8.0E-05	mg/kg-day	3.9E-03
				Vanadium	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	1.0E-03	mg/kg-day	5.5E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.3E-04
				Chromium VI	6E-01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.6E-05
			Exp. Route Total								8E-07					3E-02
			Dermal	Arsenic	1E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.7E-07	5.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+01	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.4E-03
			Exp. Route Total								8E-07					3E-02
		Exposure Point Total									2E-06					6E-02
		Station CB-07	Ingestion	Arsenic	2E+02	mg/kg	5.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	4.1E-07	5.4E-06	mg/kg-day	5.9E-04	mg/kg-day	9.1E-03
				Barium	6E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.0E-02	mg/kg-day	2.0E-05
				Cadmium	5E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-03	mg/kg-day	1.2E-04
				Chromium III	7E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	2E+02	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	3.0E-02	mg/kg-day	1.4E-04
				Lead												
				Manganese	3E+02	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	8.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Mercury	1E+00	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	1.0E-04	mg/kg-day	3.3E-04
				Nickel	2E+01	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.8E-05
				Vanadium	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Zinc	6E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-01	mg/kg-day	5.2E-05
			Exp. Route Total								4E-07					1E-02
			Dermal	Arsenic	2E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.9E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.6E-03
				Cadmium	5E+00	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.5E-05	mg/kg-day	7.9E-04
			Exp. Route Total								4E-07					9E-03
		Exposure Point Total									8E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion	Benzo(a)anthracene	1E-01	mg/kg	2.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.0E-10	2.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	3.6E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.6E-09	3.6E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	5.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.3E-10	5.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	2.5E-10	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.8E-11	2.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	1.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-10	1.5E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	3.3E-10	mg/kg-day	N/A	N/A	N/A	3.3E-09	mg/kg-day	2.0E-02	mg/kg-day	1.7E-07
				Antimony	6E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	4.0E-04	mg/kg-day	3.7E-04
				Arsenic	2E+02	mg/kg	6.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	4.6E-07	6.0E-06	mg/kg-day	5.9E-04	mg/kg-day	1.0E-02
				Barium	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.0E-02	mg/kg-day	2.3E-05
				Cadmium	6E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-03	mg/kg-day	1.4E-04
				Chromium III	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.5E+00	mg/kg-day	9.7E-06
				Copper	4E+02	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.4E-04
				Lead												
				Manganese	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Mercury	3E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	1.0E-04	mg/kg-day	8.7E-04
				Nickel	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Vanadium	3E+01	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Zinc	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	7.9E-05
				Chromium VI	7E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	3.0E-03	mg/kg-day	6.3E-06
			Exp. Route Total								5E-07					1E-02
			Dermal	Benzo(a)anthracene	1E-01	mg/kg	5.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.2E-10	5.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5.4E-09	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.0E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.2E-10	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.8E-11	5.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.2E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.3E-10	3.2E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	6.9E-10	mg/kg-day	N/A	N/A	N/A	6.9E-09	mg/kg-day	2.0E-02	mg/kg-day	3.4E-07
				Arsenic	2E+02	mg/kg	2.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.3E-07	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.6E-03
				Cadmium	6E+00	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	2.5E-05	mg/kg-day	9.1E-04
			Exp. Route Total								4E-07					1E-02
		Exposure Point Total									9E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion	Benzo(a)anthracene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.9E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	9.3E-09	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.5E-09	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.2E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	2.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.5E-09	2.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	6.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.7E-10	6.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	7.8E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.0E-02	mg/kg-day	3.9E-07
				Antimony	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	4.0E-04	mg/kg-day	6.4E-05
				Arsenic	3E+01	mg/kg	8.9E-08	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	6.8E-08	8.9E-07	mg/kg-day	5.9E-04	mg/kg-day	1.5E-03
				Barium	3E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	7.0E-02	mg/kg-day	1.2E-05
				Cadmium	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	1.0E-03	mg/kg-day	1.7E-05
				Chromium III	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.5E+00	mg/kg-day	1.0E-06
				Copper	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-02	mg/kg-day	5.4E-05
				Lead												
				Manganese	4E+02	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	4E-01	mg/kg	9.8E-10	mg/kg-day	N/A	N/A	N/A	9.8E-09	mg/kg-day	1.0E-04	mg/kg-day	9.8E-05
				Nickel	1E+01	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.0E-02	mg/kg-day	1.2E-05
				Thallium	1E+00	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	8.0E-05	mg/kg-day	4.1E-04
				Vanadium	1E+01	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	1.0E-03	mg/kg-day	3.5E-04
				Zinc	2E+02	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-01	mg/kg-day	2.0E-05
			Exp. Route Total								8E-08					3E-03
			Dermal	Benzo(a)anthracene	5E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.8E-09	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.9E-08	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.1E-09	7.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	4.7E-10	6.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.1E-09	4.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.7E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.0E-02	mg/kg-day	8.1E-07
				Arsenic	3E+01	mg/kg	4.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.4E-08	4.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
				Cadmium	7E-01	mg/kg	2.8E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					4E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion	Antimony	2E+00	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	5.1E-08	mg/kg-day	4.0E-04	mg/kg-day	1.3E-04
				Arsenic	1E+02	mg/kg	3.1E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.4E-07	3.1E-06	mg/kg-day	5.9E-04	mg/kg-day	5.2E-03
				Barium	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	7.0E-02	mg/kg-day	2.1E-05
				Cadmium	4E+00	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	9.9E-08	mg/kg-day	1.0E-03	mg/kg-day	9.9E-05
				Chromium III	3E+02	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	1.5E+00	mg/kg-day	5.5E-06
				Copper	2E+02	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	3.0E-02	mg/kg-day	1.7E-04
				Lead												
				Manganese	1E+03	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	7.0E-02	mg/kg-day	4.1E-04
				Mercury	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	1.0E-04	mg/kg-day	4.8E-04
				Nickel	2E+01	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.3E-05
				Thallium	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.4E-04
				Vanadium	3E+01	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	1.0E-03	mg/kg-day	6.8E-04
				Zinc	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.0E-05
			Exp. Route Total								2E-07					7E-03
			Dermal	Arsenic	1E+02	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.2E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	4E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.3E-04
			Exp. Route Total								2E-07					6E-03
		Exposure Point Total									5E-07					1E-02
		Station KF	Ingestion	Arsenic	5E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.0E-07	1.3E-06	mg/kg-day	5.9E-04	mg/kg-day	2.2E-03
				Barium	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.5E-05
				Cadmium	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	1.0E-03	mg/kg-day	2.6E-05
				Chromium III	9E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.5E+00	mg/kg-day	1.5E-06
				Copper	1E+02	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.5E-05
				Lead												
				Manganese	4E+02	mg/kg	9.2E-07	mg/kg-day	N/A	N/A	N/A	9.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	9E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	1.0E-04	mg/kg-day	2.3E-04
				Nickel	9E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	2.0E-02	mg/kg-day	1.1E-05
				Vanadium	2E+01	mg/kg	5.9E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	1.0E-03	mg/kg-day	5.9E-04
				Zinc	3E+02	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.0E-05
			Exp. Route Total								1E-07					3E-03
			Dermal	Arsenic	5E+01	mg/kg	6.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	9.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	1E+00	mg/kg	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	2.5E-05	mg/kg-day	1.7E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					6E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion	Benzo(a)anthracene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.0E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.2E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.4E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2.5E-10	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	2.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.7E-09	2.4E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.4E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	6.1E-07
				Antimony	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	4.0E-04	mg/kg-day	6.6E-05
				Arsenic	2E+01	mg/kg	4.8E-08	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.7E-08	4.8E-07	mg/kg-day	5.9E-04	mg/kg-day	8.1E-04
				Barium	2E+01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	7.0E-02	mg/kg-day	6.9E-06
				Chromium III	5E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.5E+00	mg/kg-day	9.2E-07
				Copper	7E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	3.0E-02	mg/kg-day	6.2E-05
				Lead												
				Manganese	2E+02	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	7.0E-02	mg/kg-day	5.8E-05
				Mercury	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	1.0E-04	mg/kg-day	1.2E-04
				Nickel	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.0E-02	mg/kg-day	1.6E-05
				Thallium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	8.0E-05	mg/kg-day	4.6E-04
				Vanadium	1E+01	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	1.0E-03	mg/kg-day	3.8E-04
				Zinc	4E+02	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.0E-05
			Exp. Route Total								5E-08					2E-03
			Dermal	Benzo(a)anthracene	5E-01	mg/kg	2.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.9E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	3.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.4E-08	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.9E-09	6.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	7.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	5.2E-10	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	4.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.6E-09	4.9E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.5E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.3E-06
				Arsenic	2E+01	mg/kg	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.4E-08	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.6E-04
			Exp. Route Total								7E-08					8E-04
		Exposure Point Total									1E-07					3E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion	Trichloroethene	2E-02	mg/kg	5.6E-11	mg/kg-day	4.0E-01	(mg/kg-day) ⁻¹	2.3E-11	5.6E-10	mg/kg-day	3.0E-04	mg/kg-day	1.9E-06
				Benzo(a)anthracene	6E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.0E-08	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.0E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	2.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.8E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	2.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.7E-09	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	2.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.0E-08	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.2E-09	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.0E-02	mg/kg-day	8.7E-06
				Aroclor 1260	7E-02	mg/kg	1.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	1.7E-10	1.7E-09	mg/kg-day	2.0E-05	mg/kg-day	8.4E-05
				Antimony	2E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	4.0E-04	mg/kg-day	1.5E-04
				Arsenic	8E+01	mg/kg	2.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.6E-07	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.4E-03
				Barium	8E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.0E-02	mg/kg-day	3.1E-05
				Cadmium	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-03	mg/kg-day	1.3E-04
				Chromium III	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	1.5E+00	mg/kg-day	4.2E-06
				Copper	2E+02	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.0E-04
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	3E+00	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	1.0E-04	mg/kg-day	7.1E-04
				Nickel	3E+01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	2.0E-02	mg/kg-day	3.5E-05
				Thallium	2E+00	mg/kg	5.6E-09	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	8.0E-05	mg/kg-day	7.0E-04
				Vanadium	5E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Zinc	1E+03	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								3E-07					7E-03
			Dermal	Benzo(a)anthracene	6E+00	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.2E-08	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	2.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.1E-07	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.7E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	4.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.5E-09	4.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.2E-08	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.5E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Aroclor 1260	7E-02	mg/kg	3.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	3.8E-10	3.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.9E-04
				Arsenic	8E+01	mg/kg	9.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-07	9.7E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
				Cadmium	5E+00	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.5E-05	mg/kg-day	8.3E-04
			Exp. Route Total								5E-07					4E-03
		Exposure Point Total									8E-07					1E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion	Antimony	2E+00	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	4.0E-04	mg/kg-day	1.1E-04
				Arsenic	2E+02	mg/kg	3.8E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	3.0E-07	3.8E-06	mg/kg-day	5.9E-04	mg/kg-day	6.5E-03
				Barium	4E+01	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	3E+00	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	1.0E-03	mg/kg-day	6.7E-05
				Chromium III	8E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.5E+00	mg/kg-day	1.3E-06
				Copper	4E+02	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	3.0E-02	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	mg/kg	5.3E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	7.0E-02	mg/kg-day	7.6E-05
				Mercury	7E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	1.0E-04	mg/kg-day	1.9E-04
				Nickel	1E+01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Thallium	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	8.0E-05	mg/kg-day	6.0E-04
				Vanadium	2E+01	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	1.0E-03	mg/kg-day	5.3E-04
				Zinc	1E+03	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								3E-07					9E-03
			Dermal	Arsenic	2E+02	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.8E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.1E-03
				Cadmium	3E+00	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.5E-05	mg/kg-day	4.3E-04
			Exp. Route Total								3E-07					7E-03
		Exposure Point Total									6E-07					2E-02
		Station AS	Ingestion	Antimony	3E+00	mg/kg	6.4E-09	mg/kg-day	N/A	N/A	N/A	6.4E-08	mg/kg-day	4.0E-04	mg/kg-day	1.6E-04
				Arsenic	1E+02	mg/kg	3.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	2.3E-07	3.0E-06	mg/kg-day	5.9E-04	mg/kg-day	5.0E-03
				Barium	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	7.0E-02	mg/kg-day	3.7E-05
				Cadmium	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	1.0E-03	mg/kg-day	3.0E-04
				Chromium III	7E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.5E+00	mg/kg-day	1.3E-05
				Copper	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-02	mg/kg-day	4.3E-04
				Lead												
				Manganese	4E+02	mg/kg	9.7E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Mercury	3E+00	mg/kg	7.8E-09	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	1.0E-04	mg/kg-day	7.8E-04
				Nickel	4E+01	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	2.0E-02	mg/kg-day	4.7E-05
				Thallium	1E+00	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	2.7E-08	mg/kg-day	8.0E-05	mg/kg-day	3.4E-04
				Vanadium	7E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-03	mg/kg-day	1.7E-03
				Zinc	2E+03	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								2E-07					9E-03
			Dermal	Arsenic	1E+02	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.1E-07	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.7E-03
				Cadmium	1E+01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					7E-03
		Exposure Point Total									4E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion	Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	8.0E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.4E-09	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	9.0E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.6E-10	9.0E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	6.5E-10	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	4.7E-11	6.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	4.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.2E-10	4.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.0E-02	mg/kg-day	8.7E-07
				Antimony	9E-01	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	4.0E-04	mg/kg-day	6.0E-05
				Arsenic	8E+00	mg/kg	2.1E-08	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.6E-08	2.1E-07	mg/kg-day	5.9E-04	mg/kg-day	3.6E-04
				Barium	3E+01	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	8.8E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	2E-01	mg/kg	5.6E-10	mg/kg-day	N/A	N/A	N/A	5.6E-09	mg/kg-day	1.0E-03	mg/kg-day	5.6E-06
				Chromium III	3E+01	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	1.5E+00	mg/kg-day	5.7E-07
				Copper	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	3.0E-02	mg/kg-day	2.1E-05
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	9E-02	mg/kg	2.3E-10	mg/kg-day	N/A	N/A	N/A	2.3E-09	mg/kg-day	1.0E-04	mg/kg-day	2.3E-05
				Nickel	1E+01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Thallium	6E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	8.0E-05	mg/kg-day	2.0E-04
				Vanadium	2E+01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	1.0E-03	mg/kg-day	4.8E-04
				Zinc	1E+02	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	3.0E-01	mg/kg-day	1.0E-05
			Exp. Route Total								2E-08					1E-03
			Dermal	Benzo(a)anthracene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.3E-08	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.4E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	9.8E-11	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	9.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.7E-10	9.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	2.0E-02	mg/kg-day	1.8E-06
				Arsenic	8E+00	mg/kg	1.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-08	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-04
				Cadmium	2E-01	mg/kg	8.9E-11	mg/kg-day	N/A	N/A	N/A	8.9E-10	mg/kg-day	2.5E-05	mg/kg-day	3.6E-05
			Exp. Route Total								3E-08					4E-04
		Exposure Point Total									6E-08					2E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion	Benzo(a)anthracene	6E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.0E-09	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	8.6E-09	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	6.4E-11	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	2.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	2.0E-09	2.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	8.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.3E-10	8.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	5.9E-07
				Aroclor 1260	5E-02	mg/kg	1.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	1.3E-10	1.3E-09	mg/kg-day	2.0E-05	mg/kg-day	6.3E-05
				Antimony	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	4.0E-04	mg/kg-day	5.1E-05
				Arsenic	3E+01	mg/kg	8.4E-08	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	6.5E-08	8.4E-07	mg/kg-day	5.9E-04	mg/kg-day	1.4E-03
				Barium	4E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	2E+00	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	1.0E-03	mg/kg-day	4.4E-05
				Chromium III	7E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.5E+00	mg/kg-day	1.2E-06
				Copper	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-02	mg/kg-day	5.2E-05
				Lead												
				Manganese	2E+02	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	7.0E-02	mg/kg-day	7.8E-05
				Mercury	3E-01	mg/kg	6.7E-10	mg/kg-day	N/A	N/A	N/A	6.7E-09	mg/kg-day	1.0E-04	mg/kg-day	6.7E-05
				Nickel	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.0E-02	mg/kg-day	1.6E-05
				Vanadium	2E+01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	5.7E-07	mg/kg-day	1.0E-03	mg/kg-day	5.7E-04
				Zinc	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.4E-05
			Exp. Route Total								8E-08					2E-03
			Dermal	Benzo(a)anthracene	6E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.2E-09	3.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.8E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.3E-09	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	1.3E-10	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	5.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.2E-09	5.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.3E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Aroclor 1260	5E-02	mg/kg	2.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.8E-10	2.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.4E-04
				Arsenic	3E+01	mg/kg	4.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.0E-08	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
				Cadmium	2E+00	mg/kg	7.1E-10	mg/kg-day	N/A	N/A	N/A	7.1E-09	mg/kg-day	2.5E-05	mg/kg-day	2.8E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					4E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion	Benzo(a)anthracene	2E-01	mg/kg	4.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.6E-10	4.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	4.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.2E-09	4.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	4.2E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.1E-10	4.2E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	4.5E-10	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3.3E-11	4.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.2E-10	3.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	5.9E-07
				Antimony	9E-01	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	4.0E-04	mg/kg-day	5.6E-05
				Arsenic	6E+00	mg/kg	1.6E-08	mg/kg-day	7.7E-01	(mg/kg-day) ⁻¹	1.2E-08	1.6E-07	mg/kg-day	5.9E-04	mg/kg-day	2.7E-04
				Barium	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	7.0E-02	mg/kg-day	4.5E-06
				Cadmium	2E-01	mg/kg	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	1.0E-03	mg/kg-day	4.2E-06
				Chromium III	8E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	1.5E+00	mg/kg-day	1.4E-07
				Copper	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	3.0E-02	mg/kg-day	9.9E-06
				Lead												
				Manganese	8E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.0E-02	mg/kg-day	3.0E-05
				Nickel	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.1E-06
				Thallium	5E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	8.0E-05	mg/kg-day	1.6E-04
				Vanadium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Zinc	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-01	mg/kg-day	8.7E-06
			Exp. Route Total								2E-08					8E-04
			Dermal	Benzo(a)anthracene	2E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.4E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	9.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	6.7E-09	9.2E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	8.7E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	6.4E-10	8.7E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	9.3E-10	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	6.8E-11	9.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.3E-10	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.6E-10	6.3E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Arsenic	6E+00	mg/kg	7.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.1E-08	7.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Cadmium	2E-01	mg/kg	6.8E-11	mg/kg-day	N/A	N/A	N/A	6.8E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
			Exp. Route Total								2E-08					3E-04
		Exposure Point Total									4E-08					1E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Station NR	Ingestion	Arsenic	2E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.7E-07	5.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-03	mg/kg-day	5.4E-05
				Chromium VI	2E+02	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	3.0E-03	mg/kg-day	1.5E-03
				Copper	2E+02	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	3.0E-02	mg/kg-day	1.5E-04
				Manganese	3E+02	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Mercury	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	1.0E-04	mg/kg-day	2.0E-04
				Vanadium	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	1.0E-03	mg/kg-day	6.4E-04
				Zinc	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.5E-05
			Exp. Route Total								8E-07					2E-02
			Dermal	Arsenic	2E+02	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.7E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	8.1E-03
				Cadmium	2E+00	mg/kg	8.7E-10	mg/kg-day	N/A	N/A	N/A	8.7E-09	mg/kg-day	2.5E-05	mg/kg-day	3.5E-04
			Exp. Route Total								4E-07					8E-03
		Exposure Point Total									1E-06					3E-02
		Station WS/WSS	Ingestion	Arsenic	1E+01	mg/kg	7.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.1E-07	7.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Cadmium	2E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	1.0E-03	mg/kg-day	1.5E-05
				Chromium VI	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	3.0E-03	mg/kg-day	4.7E-04
				Copper	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	3.0E-02	mg/kg-day	6.8E-05
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Mercury	1E-01	mg/kg	9.0E-10	mg/kg-day	N/A	N/A	N/A	9.0E-09	mg/kg-day	1.0E-04	mg/kg-day	9.0E-05
				Thallium	1E+00	mg/kg	9.1E-09	mg/kg-day	N/A	N/A	N/A	9.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	2E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	3.0E-01	mg/kg-day	1.8E-05
			Exp. Route Total								1E-07					6E-03
			Dermal	Arsenic	1E+01	mg/kg	3.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	5.5E-08	3.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
				Cadmium	2E-01	mg/kg	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.4E-09	mg/kg-day	2.5E-05	mg/kg-day	9.5E-05
			Exp. Route Total								5E-08					1E-03
		Exposure Point Total									2E-07					8E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion	Arsenic	6E+01	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	6.8E-07	4.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
				Cadmium	7E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	5.2E-08	mg/kg-day	1.0E-03	mg/kg-day	5.2E-05
				Chromium VI	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-03	mg/kg-day	3.5E-03
				Copper	5E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	3.0E-02	mg/kg-day	1.3E-04
				Manganese	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Mercury	3E-01	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	1.0E-04	mg/kg-day	2.2E-04
				Thallium	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	8.0E-05	mg/kg-day	1.6E-03
				Vanadium	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
			Zinc	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.2E-05	
			Exp. Route Total						7E-07					2E-02		
			Dermal	Arsenic	6E+01	mg/kg	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.3E-07	2.2E-06	mg/kg-day	3.0E-04	mg/kg-day	7.3E-03
				Cadmium	7E-01	mg/kg	8.3E-10	mg/kg-day	N/A	N/A	N/A	8.3E-09	mg/kg-day	2.5E-05	mg/kg-day	3.3E-04
				Exp. Route Total						3E-07					8E-03	
		Exposure Point Total									1E-06					3E-02
		Station DA	Ingestion	Arsenic	2E+02	mg/kg	5.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.4E-07	5.0E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	1E+00	mg/kg	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.4E-08	mg/kg-day	1.0E-03	mg/kg-day	3.4E-05
				Chromium VI	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	3.0E-03	mg/kg-day	3.3E-03
				Copper	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	3.0E-02	mg/kg-day	2.1E-04
				Manganese	8E+02	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Mercury	1E+00	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	1.0E-04	mg/kg-day	3.0E-04
				Thallium	3E+00	mg/kg	8.5E-09	mg/kg-day	N/A	N/A	N/A	8.5E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	4E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	1.0E-03	mg/kg-day	9.6E-04
			Zinc	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	5.0E-05	
			Exp. Route Total						7E-07					2E-02		
			Dermal	Arsenic	2E+02	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.6E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	7.9E-03
				Cadmium	1E+00	mg/kg	5.5E-10	mg/kg-day	N/A	N/A	N/A	5.5E-09	mg/kg-day	2.5E-05	mg/kg-day	2.2E-04
				Exp. Route Total						4E-07					8E-03	
			Exposure Point Total									1E-06				

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion	Arsenic	5E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.7E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Cadmium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-03	mg/kg-day	3.6E-05
				Chromium VI	1E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	3.0E-03	mg/kg-day	1.0E-03
				Copper	1E+02	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.2E-05
				Manganese	8E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	3.0E-04
				Mercury	7E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	1.0E-04	mg/kg-day	1.8E-04
				Vanadium	3E+01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	1.0E-03	mg/kg-day	7.4E-04
				Zinc	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.3E-05
			Exp. Route Total								2E-07					6E-03
			Dermal	Arsenic	5E+01	mg/kg	5.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	8.4E-08	5.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Cadmium	1E+00	mg/kg	5.7E-10	mg/kg-day	N/A	N/A	N/A	5.7E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								8E-08					2E-03
		Exposure Point Total									3E-07					8E-03
		Station 07/DP	Ingestion	Arsenic	4E+01	mg/kg	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.8E-03
				Cadmium	2E-01	mg/kg	4.8E-10	mg/kg-day	N/A	N/A	N/A	4.8E-09	mg/kg-day	1.0E-03	mg/kg-day	4.8E-06
				Chromium VI	1E+02	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	3.6E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
				Copper	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-02	mg/kg-day	8.6E-05
				Manganese	3E+02	mg/kg	8.4E-07	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Mercury	1E+00	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	1.0E-04	mg/kg-day	2.4E-04
				Thallium	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	8.0E-05	mg/kg-day	6.0E-04
				Vanadium	3E+01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	8.0E-07	mg/kg-day	1.0E-03	mg/kg-day	8.0E-04
				Zinc	2E+04	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	4.8E-04	mg/kg-day	3.0E-01	mg/kg-day	1.6E-03
			Exp. Route Total								2E-07					8E-03
			Dermal	Arsenic	4E+01	mg/kg	5.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	8.1E-08	5.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	2E-01	mg/kg	7.7E-11	mg/kg-day	N/A	N/A	N/A	7.7E-10	mg/kg-day	2.5E-05	mg/kg-day	3.1E-05
			Exp. Route Total								8E-08					2E-03
		Exposure Point Total									3E-07					1E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Fish Fillet Tissue	Fillet, Reach 3	Ingestion	4,4'-DDD	7E-03	mg/kg	2.4E-08	mg/kg-day	2.4E-01	(mg/kg-day) ⁻¹	5.7E-09	2.4E-07	mg/kg-day	2.0E-03	mg/kg-day	1.2E-04
				4,4'-DDE	2E-02	mg/kg	5.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	1.9E-08	5.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				4,4'-DDT	3E-03	mg/kg	1.0E-08	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	3.4E-09	1.0E-07	mg/kg-day	5.0E-04	mg/kg-day	2.0E-04
				Aldrin	3E-04	mg/kg	1.1E-09	mg/kg-day	1.7E+01	(mg/kg-day) ⁻¹	1.9E-08	1.1E-08	mg/kg-day	3.0E-05	mg/kg-day	3.8E-04
				alpha-Chlordane	6E-03	mg/kg	2.1E-08	mg/kg-day	3.5E-01	(mg/kg-day) ⁻¹	7.2E-09	2.1E-07	mg/kg-day	5.0E-04	mg/kg-day	4.1E-04
				Aroclor-1254	2E-02	mg/kg	7.8E-08	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	7.8E-08	7.8E-07	mg/kg-day	2.0E-05	mg/kg-day	3.9E-02
				Aroclor-1260	6E-02	mg/kg	2.2E-07	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.2E-07	2.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.1E-01
				delta-BHC	5E-04	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	3.0E-04	mg/kg-day	6.4E-05
				Dieldrin	2E-03	mg/kg	7.9E-09	mg/kg-day	1.6E+01	(mg/kg-day) ⁻¹	1.3E-07	7.9E-08	mg/kg-day	5.0E-05	mg/kg-day	1.6E-03
				Heptachlor epoxide	8E-04	mg/kg	3.0E-09	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	2.8E-08	3.0E-08	mg/kg-day	1.3E-05	mg/kg-day	2.3E-03
				Antimony	9E-02	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Lead												
				Mercury	4E-01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-04	mg/kg-day	1.3E-01
				Selenium	6E-01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	5.0E-03	mg/kg-day	4.1E-03
			Exp. Route Total								5E-07					3E-01
		Exposure Point Total									5E-07					3E-01
		Fillet, Reaches 4 and 5	Ingestion	4,4'-DDD	2E-02	mg/kg	5.6E-08	mg/kg-day	2.4E-01	(mg/kg-day) ⁻¹	1.4E-08	5.6E-07	mg/kg-day	2.0E-03	mg/kg-day	2.8E-04
				4,4'-DDE	9E-02	mg/kg	3.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	1.0E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				4,4'-DDT	8E-03	mg/kg	2.9E-08	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	9.8E-09	2.9E-07	mg/kg-day	5.0E-04	mg/kg-day	5.8E-04
				Aldrin	5E-04	mg/kg	1.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) ⁻¹	3.2E-08	1.9E-08	mg/kg-day	3.0E-05	mg/kg-day	6.3E-04
				alpha-Chlordane	3E-03	mg/kg	9.1E-09	mg/kg-day	3.5E-01	(mg/kg-day) ⁻¹	3.2E-09	9.1E-08	mg/kg-day	5.0E-04	mg/kg-day	1.8E-04
				Aroclor-1254	9E-02	mg/kg	3.1E-07	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	3.1E-07	3.1E-06	mg/kg-day	2.0E-05	mg/kg-day	1.5E-01
				Aroclor-1260	2E-01	mg/kg	6.7E-07	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	6.7E-07	6.7E-06	mg/kg-day	2.0E-05	mg/kg-day	3.4E-01
				Dieldrin	1E-03	mg/kg	5.3E-09	mg/kg-day	1.6E+01	(mg/kg-day) ⁻¹	8.4E-08	5.3E-08	mg/kg-day	5.0E-05	mg/kg-day	1.1E-03
				Antimony	8E-02	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	4.0E-04	mg/kg-day	6.8E-03
				Lead												
				Mercury	3E-01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-04	mg/kg-day	1.1E-01
				Selenium	7E-01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	5.0E-03	mg/kg-day	4.8E-03
			Exp. Route Total								1E-06					6E-01
		Exposure Point Total									1E-06					6E-01

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotien
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion	4,4'-DDD	2E-02	mg/kg	7.1E-08	mg/kg-day	2.4E-01	(mg/kg-day) ⁻¹	1.7E-08	7.1E-07	mg/kg-day	2.0E-03	mg/kg-day	3.6E-04
				4,4'-DDE	6E-02	mg/kg	2.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	7.1E-08	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	6.9E-03
				4,4'-DDT	5E-03	mg/kg	1.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) ⁻¹	5.7E-09	1.7E-07	mg/kg-day	5.0E-04	mg/kg-day	3.3E-04
				Aldrin	5E-04	mg/kg	1.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) ⁻¹	3.2E-08	1.9E-08	mg/kg-day	3.0E-05	mg/kg-day	6.3E-04
				alpha-Chlordane	8E-03	mg/kg	3.0E-08	mg/kg-day	3.5E-01	(mg/kg-day) ⁻¹	1.0E-08	3.0E-07	mg/kg-day	5.0E-04	mg/kg-day	6.0E-04
				Aroclor-1248	8E-03	mg/kg	2.8E-08	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.8E-08	2.8E-07	mg/kg-day	2.0E-05	mg/kg-day	1.4E-02
				Aroclor-1254	1E-01	mg/kg	4.6E-07	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	4.6E-07	4.6E-06	mg/kg-day	2.0E-05	mg/kg-day	2.3E-01
				Aroclor-1260	8E-02	mg/kg	2.8E-07	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.8E-07	2.8E-06	mg/kg-day	2.0E-05	mg/kg-day	1.4E-01
				Dieldrin	2E-03	mg/kg	7.6E-09	mg/kg-day	1.6E+01	(mg/kg-day) ⁻¹	1.2E-07	7.6E-08	mg/kg-day	5.0E-05	mg/kg-day	1.5E-03
				Heptachlor epoxide	5E-04	mg/kg	1.9E-09	mg/kg-day	9.1E+00	(mg/kg-day) ⁻¹	1.7E-08	1.9E-08	mg/kg-day	1.3E-05	mg/kg-day	1.5E-03
				Arsenic	2E-01	mg/kg	5.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	8.4E-07	5.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
				Lead												
				Mercury	1E-01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	1.0E-04	mg/kg-day	5.2E-02
				Selenium	6E-01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	5.0E-03	mg/kg-day	4.5E-03