US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

APPENDIX C

AQUATIC AND FLOODPLAIN SEDIMENT RESULTS

SDMS DocID 11079

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2028-0.502-01		APB-FP-2028-000 5-01		APB-FP-2028-023 5-01		APB-FP-2031-01		APB-FP-2032-01	
Sample Location	APB-FP-2028		APB-FP-2028		APB-FP-2028		APB-FP-2031		APB-FP-2032	
Interval	0.5-2 0		0 0-0 5		2 0-3 5		0 0-0.5		0 0-0 5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D00937		D00945		D00938		D00939		D00940	
1,2,4-Trichlorobenzene	2400	U	4700	U	440	U	2400	U	4700	U
1,2-Dichlorobenzene	2400	U	4700	U	440	U	2400	U	4700	U
1,3-Dichlorobenzene	2400	U	4700	U	440	U	2400	U	4700	U
1,4-Dichlorobenzene	2400	U	4700	U	440	U	2400	U	4700	U
2,2'-oxybis(1-Chloropropane)	2400	U	4700	U	440	U	2400	U	4700	U
2,4,5-Trichlorophenol	2400	U	12000	U	1100	U	5900	U	12000	U
2,4,6-Trichlorophenol	2400	U	4700	UJ	440	U	2400	U	4700	U
2,4-Dichlorophenol	2400	U	4700	U	440	U	2400	U	4700	U
2,4-Dimethylphenol	2400	U	4700	U	440	U	2400	UJ	4700	UJ
2,4-Dinitrophenol		R	12000	U	1100	UJ	5900	UJ	12000	UJ
2,4-Dinitrotoluene	2400	U	4700	U	440	U	2400	U	4700	U
2,6-Dinitrotoluene	2400	U	4700	U	440	U	2400	U	4700	U
2-Chloronaphthalene	2400	U	4700	U	440	U	2400	U	4700	U
2-Chlorophenol	2400	U	4700	U	440	U	2400	U	4700	U
2-Methylnaphthalene	2400	U	4700	U	440	U	2400	U	4700	U
2-Methylphenol	2400	U	4700	U	440	U	2400	U	4700	U
2-Nitroaniline	6100	U	12000	U	1100	UJ	5900	UJ	12000	UJ
2-Nitrophenol	2400	U	4700	U	440	U	2400	U	4700	U
3,3'-Dichlorobenzidine	2400	U	4700	UJ	440	UJ	2400	UJ	4700	UJ
3-Nitroaniline	6100	U	12000	U	1100	U	5900	U	12000	U
4,6-Dinitro-2-methylphenol	6100	UJ	12000	U	1100	UJ	5900	UJ	12000	UJ
4-Bromophenyl-phenylether	2400	U	4700	U	440	U	2400	U	4700	U
4-Chloro-3-methylphenol	2400	U	4700	U	440	U	2400	U	4700	U
4-Chloroaniline	2400	U	4700	UJ	440	U	2400	U	4700	U
4-Chlorophenyl-phenylether	2400	U	4700	U	440	U	2400	U	4700	U
4-Methylphenol	2400	U	4700	U	440	U	2400	U	4700	U
4-Nitroaniline	6100	UJ	12000	U	1100	U	5900	U	12000	U
4-Nitrophenol	6100	UJ	12000	U	1100	U	5900	U	12000	U
Acenaphthene	2400	U	4700	U	440	U	2400	U	4700	U
Acenaphthylene	2400	U	4700	U	440	U	2400	U	4700	U
Anthracene	2400	U	4700	U	440	U	2400	U	4700	U
Benzo(a)anthracene	2400	U	510	J	440	U	370	J	800	J
Benzo(a)pyrene	2400	U	640	J	440	U	380	J	900	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2028-0.5-2.0-01		APB-FP-2028-000.5-01		APB-FP-2028-023.5-01		APB-FP-2031-01		APB-FP-2032-01	
Sample Location	APB-FP-2028		APB-FP-2028		APB-FP-2028		APB-FP-2031		APB-FP-2032	
Interval	0.5-2.0		0.0-0.5		2.0-3.5		0.0-0.5		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		None	
Benzo(b)fluoranthene	2400	U	750	J	440	U	520	J	950	J
Benzo(g,h,i)perylene	2400	U	4700	U	440	U	2400	U	4700	U
Benzo(k)fluoranthene	2400	U	1100	J	440	U	450	J	860	J
Bis(2-Chloroethoxy)methane	2400	U	4700	U	440	U	2400	U	4700	U
Bis(2-Chloroethyl)ether	2400	U	4700	U	440	U	2400	U	4700	U
bis(2-Ethylhexyl)phthalate	2400	U	4700	U	440	UJ	2400	U	4700	U
Butylbenzylphthalate	2400	U	4700	UJ	440	U	2400	U	4700	U
Carbazole	2400	U	4700	U	440	U	2400	U	4700	U
Chrysene	2400	U	950	J	440	U	540	J	1100	J
Di-n-Butylphthalate	2400	U	4700	U	440	UJ	2400	UJ	4700	UJ
Di-n-octylphthalate	2400	U	4700	UJ	440	UJ	2400	UJ	4700	UJ
Dibenzo(a,h)anthracene	2400	U	4700	U	440	U	2400	U	4700	U
Dibenzofuran	2400	U	4700	U	440	U	2400	U	4700	U
Diethylphthalate	2400	U	4700	U	440	U	2400	U	4700	U
Dimethylphthalate	2400	U	4700	U	440	U	2400	U	4700	U
Fluoranthene	2400	U	1400	J	440	U	900	J	1600	J
Fluorene	2400	U	4700	U	440	U	2400	U	4700	U
Hexachlorobenzene	2400	U	4700	U	440	U	2400	U	4700	U
Hexachlorobutadiene	2400	U	4700	U	440	U	2400	U	4700	U
Hexachlorocyclopentadiene	2400	UJ	4700	UJ	440	U	2400	U	4700	U
Hexachloroethane	2400	U	4700	U	440	U	2400	U	4700	U
Indeno(1,2,3-cd)pyrene	2400	U	600	J	440	U	320	J	600	J
Isophorone	2400	U	4700	U	440	U	2400	U	4700	U
N-Nitroso-di-n-propylamine	2400	U	4700	U	440	UJ	2400	UJ	4700	UJ
N-Nitroso-diphenylamine	2400	U	4700	U	440	U	2400	U	4700	U
Naphthalene	2400	U	4700	U	440	U	2400	U	4700	U
Nitrobenzene	2400	U	4700	U	440	U	2400	U	4700	U
Pentachlorophenol	6100	UJ	12000	UJ	1100	UJ	5900	UJ	12000	UJ
Phenanthrene	2400	U	580	J	440	U	350	J	820	J
Phenol	2400	U	4700	U	440	U	2400	U	4700	U
Pyrene	2400	U	1200	J	440	U	710	J	1500	J
Total PAH	2400	U	840		440	U	510		1100	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2028-0.502-01		APB-FP-2028-000.5-01		APB-FP-2028-023.5-01		APB-FP-2031-01		APB-FP-2032-01	
Sample Location	APB-FP-2028		APB-FP-2028		APB-FP-2028		APB-FP-2031		APB-FP-2032	
Interval	0.5-2.0		0.0-0.5		2.0-3.5		0.0-0.5		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D00937		D00945		D00938		D00939		D00940	
4,4'-DDD	5.0	U	4.8	U	4.4	U	4.7	U	5.6	J
4,4'-DDE	5.0	U	5.2		4.4	U	4.7	U	4.8	U
4,4'-DDT	5.0	U	4.8	U	4.4	U	4.7	U	4.8	U
Aldrin	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
alpha-BHC	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
alpha-Chlordane	2.6	U	2.5	U	2.3	U	2.4	U	18	
Aroclor, Total	100	U	250		90	U	130		480	
Aroclor-1016	50	U	48	U	44	U	47	U	48	U
Aroclor-1221	100	U	98	U	90	U	96	U	97	U
Aroclor-1232	50	U	48	U	44	U	47	U	48	U
Aroclor-1242	50	U	48	U	44	U	47	U	48	U
Aroclor-1248	50	U	48	U	44	U	47	U	48	U
Aroclor-1254	50	U	250		44	U	130		480	
Aroclor-1260	50	U	48	U	44	U	47	U	48	U
beta-BHC	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
delta-BHC	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
Dieldrin	5.0	U	22		4.4	U	13		47	
Endosulfan I	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
Endosulfan II	5.0	U	4.8	U	4.4	U	4.7	U	10	
Endosulfan Sulfate	5.0	U	4.8	U	4.4	U	4.7	U	4.8	U
Endrin	5.0	U	9.1		4.4	U	4.7	U	28	
Endrin Aldehyde	5.0	U	4.8	U	4.4	U	4.7	U	4.8	U
Endrin Ketone	5.0	U	4.8	U	4.4	U	4.7	U	4.8	U
gamma-BHC	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
gamma-Chlordane	2.6	U	3.6		2.3	U	7.9		18	
Heptachlor	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
Heptachlor Epoxide	2.6	U	2.5	U	2.3	U	2.4	U	2.5	U
Methoxychlor	26	U	25	U	23	U	24	U	25	U
Toxaphene	260	U	250	U	230	U	240	U	250	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2028-0.502-01		APB-FP-2028-000.5-01		APB-FP-2028-023.5-01		APB-FP-2031-01		APB-FP-2032-01	
Sample Location	APB-FP-2028		APB-FP-2028		APB-FP-2028		APB-FP-2031		APB-FP-2032	
Interval	0 5-2.0		0 0-0 5		2.0-3 5		0 0-0 5		0 0-0 5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		None	
Dioxin Analysis (NG/KG)	D00937				D00938					
1,2,3,4,6,7,8-HpCDD	33 5			NA	8 1			NA		NA
1,2,3,4,6,7,8-HpCDF	54 5			NA	7 0			NA		NA
1,2,3,4,7,8,9-HpCDF	1 9	J		NA	1 9	U		NA		NA
1,2,3,4,7,8-HxCDD	1 2	J		NA	1 3	U		NA		NA
1,2,3,4,7,8-HxCDF	7 0			NA	2 1	J		NA		NA
1,2,3,6,7,8-HxCDD	3 0	J		NA	1 2	U		NA		NA
1,2,3,6,7,8-HxCDF	5 9			NA	1 2	J		NA		NA
1,2,3,7,8,9-HxCDD	3 3	J		NA	1 3	U		NA		NA
1,2,3,7,8,9-HxCDF	3 9	J		NA	0 84	J		NA		NA
1,2,3,7,8-PeCDD	1 5	J		NA	1 0	U		NA		NA
1,2,3,7,8-PeCDF	4 7	J		NA	0 50	U		NA		NA
1,2,4,5,7,8-hexachloro(9H)xanthene	3 72	J		NA	0 00	U		NA		NA
2,3,4,6,7,8-HxCDF	0 50	U		NA	0 90	U		NA		NA
2,3,4,7,8-PeCDF	3 0	J		NA	1 2	J		NA		NA
2,3,7,8-TCDD	153			NA	27 7			NA		NA
2,3,7,8-TCDF	7 0			NA	2 5			NA		NA
OCDD	210	JEB		NA	47 0	EB		NA		NA
OCDF	42 4	JEB		NA	7 2	EB		NA		NA
Total HpCDD	69 2	J		NA	8 1	J		NA		NA
Total HpCDF	85 0	J		NA	10 8	J		NA		NA
Total HxCDD	27 4	JEB		NA	5 1	JEB		NA		NA
Total HxCDF	72 4	J		NA	8 3	J		NA		NA
Total PeCDD	13 0	J		NA	7 7	J		NA		NA
Total PeCDF	49 4	J		NA	5 3	J		NA		NA
Total TCDD	163	J		NA	29 0	J		NA		NA
Total TCDF	44 9	J		NA	11 9	J		NA		NA
Toxicity Equivalency	160			NA	29 9			NA		NA

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2028-0.502-01		APB-FP-2028-000.5-01		APB-FP-2028-023.5-01		APB-FP-2031-01		APB-FP-2032-01	
Sample Location	APB-FP-2028		APB-FP-2028		APB-FP-2028		APB-FP-2031		APB-FP-2032	
Interval	0.5-2.0		0.0-0.5		2.0-3.5		0.0-0.5		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		None	
TAL Metal Analysis (MG/KG)	D00937		D00945		D00938		D00939		D00940	
Aluminum	10000		14500		5850		13300		13500	
Antimony	1.1	J	6.3	J	0.73	J	2.9	J	2.9	J
Arsenic	3.4		8.7		1.1	J	6.5		6.9	
Barium	77.6		236		35.9		244		210	
Beryllium	1.8		2.7		0.94		3.3		3.2	
Cadmium	0.28	U	2.2		0.08	U	1.3		0.91	
Calcium	1940	J	2020	J	1010	J	2570	J	1400	J
Chromium	51.7		329		11.2		204		215	
Cobalt	3.7		8.6		2.3	J	9.4		9.0	
Copper	26.8		231		6.1		191		201	
Iron	9040		21600		8590		23100		19200	
Lead	54.9		511		11.9		587		595	
Magnesium	1060	J	2770	J	1080	J	2520	J	2420	J
Manganese	367		408		209		516		367	
Mercury	0.32		1.4		0.05		0.64		0.66	
Nickel	9.4		33.8		3.7		66.4		50.9	
Potassium	290	J	757	J	551	J	806	J	1010	J
Selenium	1.3	J	1.4	U	1.1	U	1.6	U	1.3	U
Silver	2.4		7.1		2.3		7.2		5.5	
Sodium	127	UJ	212	J	81.0	UJ	299	J	175	UJ
Thallium	0.46	U	0.65	U	0.50	U	0.71	U	0.60	U
Vanadium	14.2		40.7		9.1		44.9		52.0	
Zinc	182	J	429	J	62.6	J	553	J	520	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2028-0 502-01		APB-FP-2028-000 5-01		APB-FP-2028-023 5-01		APB-FP-2031-01		APB-FP-2032-01	
Sample Location	APB-FP-2028		APB-FP-2028		APB-FP-2028		APB-FP-2031		APB-FP-2032	
Interval	0 5-2 0		0 0-0 5		2.0-3.5		0 0-0.5		0 0-0 5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D00945				D00939		D00940	
Acid Volatile Sulfide		NA	4.85681			NA	1.03		1.58127	
Cadmium		NA	0.04149	J		NA	0.012	J	0.004	J
Copper		NA	4.02506			NA	2.54272		1.16534	
Lead		NA	2.46723			NA	2.305		0.86469	
Mercury		NA	0.00009	U		NA	0.00009	U	0.00008	U
Nickel		NA	0.6944	J		NA	0.96404	J	0.75933	J
SEM/AVS			2.92566				3.23247		3.27612	
Simultaneously Extracted Metal		NA	14.2094			NA	13.30448		5.18042	
Zinc		NA	6.98117			NA	7.48019		2.38704	
Total Organic Carbon Analysis (MG/KG)			D00945				D00939		D00940	
Total Organic Carbon		NA	84300			NA	85200		71900	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2033-0 502-01		APB-FP-2033-000 5-01		APB-SD-2030-01		CMW-FP-2026-0 502-01		CMW-FP-2026-000 5-01	
Sample Location	APB-FP-2033		APB-FP-2033		APB-FP-2030		CMW-FP-2026		CMW-FP-2026	
Interval	0 5-2 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/28/99		10/28/99		10/22/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		Field Dup CMW-FP-2026-000 5-01	
Semivolatile Organic Analysis (UG/KG)	D00942		D00941		D00881		D00930		D00929	
1,2,4-Trichlorobenzene	4900	U	4800	U	3800	U	4800	U	4800	UJ
1,2-Dichlorobenzene	4900	U	4800	U	3800	U	4800	U	4800	U
1,3-Dichlorobenzene	4900	U	4800	U	3800	U	4800	U	4800	U
1,4-Dichlorobenzene	4900	U	4800	U	3800	U	4800	U	4800	U
2,2'-oxybis(1-Chloropropane)	4900	U	4800	U	3800	U	4800	U	4800	U
2,4,5-Trichlorophenol	12000	U	12000	U	9600	U	12000	U	12000	U
2,4,6-Trichlorophenol	4900	U	4800	U	3800	U	4800	UJ	4800	UJ
2,4-Dichlorophenol	4900	U	4800	U	3800	U	4800	U	4800	U
2,4-Dimethylphenol	4900	U	4800	UJ	3800	U	4800	U	4800	U
2,4-Dinitrophenol		R	12000	UJ	9600	U	12000	U	12000	U
2,4-Dinitrotoluene	4900	UJ	4800	U	3800	U	4800	U	4800	U
2,6-Dinitrotoluene	4900	UJ	4800	U	3800	U	4800	U	4800	U
2-Chloronaphthalene	4900	U	4800	U	3800	U	4800	U	4800	U
2-Chlorophenol	4900	U	4800	U	3800	U	4800	U	4800	U
2-Methylnaphthalene	4900	U	4800	U	3800	U	4800	U	4800	U
2-Methylphenol	4900	U	4800	U	3800	U	4800	U	4800	U
2-Nitroaniline	12000	U	12000	UJ	9600	U	12000	U	12000	U
2-Nitrophenol	4900	U	4800	U	3800	U	4800	U	4800	UJ
3,3'-Dichlorobenzidine	4900	U	4800	UJ	3800	U	4800	UJ	4800	UJ
3-Nitroaniline	12000	UJ	12000	U	9600	U	12000	U	12000	U
4,6-Dinitro-2-methylphenol	12000	UJ	12000	UJ	9600	U	12000	U	12000	U
4-Bromophenyl-phenylether	4900	U	4800	U	3800	U	4800	U	4800	U
4-Chloro-3-methylphenol	4900	U	4800	U	3800	U	4800	U	4800	U
4-Chloroaniline	4900	U	4800	U	3800	U	4800	UJ	4800	UJ
4-Chlorophenyl-phenylether	4900	U	4800	U	3800	U	4800	U	4800	U
4-Methylphenol	4900	U	4800	U	3800	U	4800	U	4800	U
4-Nitroaniline	12000	U	12000	U	9600	U	12000	U	12000	U
4-Nitrophenol	12000	UJ	12000	U	9600	U	12000	U	12000	U
Acenaphthene	4900	U	4800	U	3800	U	4800	U	4800	U
Acenaphthylene	4900	U	4800	U	3800	U	4800	U	4800	U
Anthracene	4900	U	4800	U	3800	U	4800	U	4800	U
Benzo(a)anthracene	1000	J	4800	U	2400	J	700	J	720	J
Benzo(a)pyrene	1200	J	4800	U	2600	J	810	J	770	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2033-0.502-01		APB-FP-2033-000.5-01		APB-SD-2030-01		CMW-FP-2026-0.502-01		CMW-FP-2026-000 5-01	
Sample Location	APB-FP-2033		APB-FP-2033		APB-FP-2030		CMW-FP-2026		CMW-FP-2026	
Interval	0 5-2 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/28/99		10/28/99		10/22/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		Field Dup CMW-FP-2026-000 5-01	
Benzo(b)fluoranthene	1500	J	580	J	3200	J	690	J	930	J
Benzo(g,h,i)perylene	4900	U	4800	U	1500	J	4800	U	4800	U
Benzo(k)fluoranthene	1500	J	670	J	2300	J	900	J	930	J
Bis(2-Chloroethoxy)methane	4900	U	4800	U	3800	U	4800	U	4800	U
Bis(2-Chloroethyl)ether	4900	U	4800	U	3800	U	4800	U	4800	U
bis(2-Ethylhexyl)phthalate	4900	U	4800	U	770	J	4800	UJ	4800	UJ
Butylbenzylphthalate	4900	U	4800	U	460	J	4800	UJ	660	J
Carbazole	4900	U	4800	U	3800	U	4800	U	4800	U
Chrysene	1700	J	690	J	3600	J	890	J	1000	J
Di-n-Butylphthalate	4900	U	4800	U	3800	U	4800	U	4800	U
Di-n-octylphthalate	4900	U	4800	UJ	3800	U	4800	UJ	4800	U
Dibenzo(a,h)anthracene	4900	U	4800	U	570	J	4800	U	4800	U
Dibenzofuran	4900	U	4800	U	3800	U	4800	U	4800	U
Diethylphthalate	4900	U	4800	U	3800	U	4800	U	4800	U
Dimethylphthalate	4900	U	4800	U	3800	U	4800	U	4800	U
Fluoranthene	2500	J	840	J	5800		1200	J	1800	J
Fluorene	4900	U	4800	U	3800	U	4800	U	4800	U
Hexachlorobenzene	4900	U	4800	U	3800	U	4800	U	4800	U
Hexachlorobutadiene	4900	U	4800	U	3800	U	4800	U	4800	U
Hexachlorocyclopentadiene	4900	UJ	4800	U	3800	U	4800	UJ	4800	UJ
Hexachloroethane	4900	U	4800	U	3800	U	4800	U	4800	U
Indeno(1,2,3-cd)pyrene	950	J	4800	U	1700	J	660	J	630	J
Isophorone	4900	U	4800	U	3800	U	4800	U	4800	U
N-Nitroso-di-n-propylamine	4900	U	4800	UJ	3800	U	4800	U	4800	U
N-Nitroso-diphenylamine	4900	U	4800	U	3800	U	4800	U	4800	U
Naphthalene	4900	U	4800	U	3800	U	4800	U	4800	U
Nitrobenzene	4900	U	4800	U	3800	U	4800	U	4800	U
Pentachlorophenol	12000	UJ	12000	UJ	9600	U	12000	UJ	12000	UJ
Phenanthrene	810	J	4800	U	2900	J	510	J	820	J
Phenol	4900	U	4800	U	3800	U	4800	U	4800	U
Pyrene	2300	J	630	J	4400		1400	J	1400	J
Total PAH	1600		65		3900		1000		1000	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2033-0.502-01		APB-FP-2033-000.5-01		APB-SD-2030-01		CMW-FP-2026-0.502-01		CMW-FP-2026-000.5-01	
Sample Location	APB-FP-2033		APB-FP-2033		APB-FP-2030		CMW-FP-2026		CMW-FP-2026	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/22/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		Field Dup. CMW-FP-2026-000.5-01	
Pesticide/PCB Analysis (UG/KG)	D00942		D00941		D00881		D00930		D00929	
4,4'-DDD	40	J	4.8	U	3.8	U	4.8	U	5.2	U
4,4'-DDE	43		4.8	U	3.8	U	4.8	U	5.2	U
4,4'-DDT	6.2	J	4.8	U	3.8	U	4.8	U	5.8	J
Aldrin	2.5	U	2.5	U	1.9	U	2.5	U	2.7	UJ
alpha-BHC	2.5	U	2.5	U	1.9	U	2.5	U	2.7	U
alpha-Chlordane	8.7		7.0		14		2.5	U	5.5	J
Aroclor, Total	1500		150		160		22		337	
Aroclor-1016	49	U	48	U	38	U	48	U	52	U
Aroclor-1221	99	U	98	U	76	U	98	U	110	U
Aroclor-1232	49	U	48	U	38	U	48	U	52	U
Aroclor-1242	49	U	48	U	38	U	48	U	52	U
Aroclor-1248	49	U	48	U	38	U	48	U	67	J
Aroclor-1254	1500		150		160		22	J	270	
Aroclor-1260	49	U	48	U	38	U	48	U	52	U
beta-BHC	2.5	U	2.5	U	1.9	U	2.5	U	2.7	U
delta-BHC	2.5	U	2.5	U	1.9	U	2.5	U	2.7	U
Dieldrin	100		23		3.8	U	4.8	U	5.2	UJ
Endosulfan I	2.5	U	2.5	U	1.9	U	2.5	U	2.7	U
Endosulfan II	18		4.8	U	3.8	U	4.8	U	30	J
Endosulfan Sulfate	4.9	U	4.8	U	3.8	U	4.8	U	5.3	
Endrin	4.9	U	13		3.8	U	4.8	U	5.2	UJ
Endrin Aldehyde	4.9	U	4.8	U	3.8	U	4.8	U	5.2	U
Endrin Ketone	4.9	U	4.8	U	3.8	U	4.8	U	5.2	U
gamma-BHC	2.5	U	2.5	U	1.9	UJ	2.5	U	2.7	UJ
gamma-Chlordane	25		7.7		14		2.5	U	7.1	J
Heptachlor	2.5	U	2.5	U	1.9	U	2.5	U	2.7	U
Heptachlor Epoxide	5.4		2.5	U	1.9	U	2.5	U	2.7	U
Methoxychlor	25	U	25	U	19	U	25	U	27	U
Toxaphene	250	U	250	U	190	U	250	U	270	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2033-0.502-01		APB-FP-2033-000.5-01		APB-SD-2030-01		CMW-FP-2026-0.502-01		CMW-FP-2026-000.5-01	
Sample Location	APB-FP-2033		APB-FP-2033		APB-FP-2030		CMW-FP-2026		CMW-FP-2026	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/22/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		Field Dup. CMW-FP-2026-000.5-01	
Dioxin Analysis (NG/KG)	D00942		D00941				D00930		D00929	
1,2,3,4,6,7,8-HpCDD	665	J	1150	J		NA	305		734	J
1,2,3,4,6,7,8-HpCDF	460	J	347	J		NA	2470	$	397	J
1,2,3,4,7,8,9-HpCDF	18.5	J	18.1	J		NA	30.1		19.9	J
1,2,3,4,7,8-HxCDD	14.5	J	22.1	J		NA	8.1		15.3	J
1,2,3,4,7,8-HxCDF	75.4	J	50.5	J		NA	95.3		56.0	J
1,2,3,6,7,8-HxCDD	46.5	J	62.1	J		NA	35.2		46.7	J
1,2,3,6,7,8-HxCDF	58.5	J	31.9	J		NA	92.5		37.5	J
1,2,3,7,8,9-HxCDD	49.0	J	59.7	J		NA	29.9		42.0	J
1,2,3,7,8,9-HxCDF	99.2	J	46.3	J		NA	83.7		45.2	J
1,2,3,7,8-PeCDD	25.2	J	22.2	J		NA	7.9		22.8	J
1,2,3,7,8-PeCDF	128	EMPC	23.1	EMPC		NA	133	EMPC	49.4	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	585.93	J	323.12	J		NA	65.75	J	1046.07	J
2,3,4,6,7,8-HxCDF	4.5	UJ	0.90	UJ		NA	1.4	U	1.7	UJ
2,3,4,7,8-PeCDF	44.8	J	26.8	J		NA	25.4		25.0	J
2,3,7,8-TCDD	3950	$J	4060	$J		NA	352		16380	J
2,3,7,8-TCDF	79.3	J	60.5	J		NA	29.9		53.5	J
OCDD	3190	$JEB	7780	$JEB		NA	1410	JEB	5260	JEB
OCDF	428	JEB	606	JEB		NA	1310	JEB	479	JEB
Total HpCDD	1400	J	2240	J		NA	624	J	1470	J
Total HpCDF	838	J	788	J		NA	3750	$J	851	J
Total HxCDD	480	JEB	490	JEB		NA	357	JEB	415	JEB
Total HxCDF	1570	J	765	J		NA	2210	J	850	J
Total PeCDD	178	J	151	J		NA	88.7	J	170	J
Total PeCDF	1680	J	697	J		NA	841	J	692	J
Total TCDD	3950	$J	4230	J$		NA	387	J	16890	J
Total TCDF	1660	J	912	J		NA	404	J	732	J
Toxicity Equivalency	4060		4150			NA	445		16500	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2033-0.502-01		APB-FP-2033-000.5-01		APB-SD-2030-01		CMW-FP-2026-0.502-01		CMW-FP-2026-000.5-01	
Sample Location	APB-FP-2033		APB-FP-2033		APB-FP-2030		CMW-FP-2026		CMW-FP-2026	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/22/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		Field Dup. CMW-FP-2026-000.5-01	
TAL Metal Analysis (MG/KG)	D00942		D00941		D00881		D00930		D00929	
Aluminum	15100		15400		6440		12600		11500	
Antimony	3.3	J	2.5	J	0.80	U	10.7	J	2.6	UJ
Arsenic	9.4		5.3		4.0		13.3		11.6	J
Barium	186		207		120		139		154	
Beryllium	1.6		2.2		1.5		2.0		1.7	
Cadmium	3.5		4.9		0.09	U	0.47	U	0.06	U
Calcium	2370	J	1550	J	778		766	J	689	J
Chromium	176		157		93.9		331		209	
Cobalt	13.4		10.1		6.6		4.8		4.7	
Copper	179		218		81.5		193		229	
Iron	21400		21500		13400		13900		24000	
Lead	854		1090		174		674		421	
Magnesium	4820	J	4820	J	1270		1520	J	1770	J
Manganese	373		235		677		107		152	
Mercury	0.75		0.40		0.18		1.1		0.46	
Nickel	83.2		53.8		19.9		23.5		22.4	
Potassium	2010	J	1340	J	636		716	J	800	J
Selenium	1.1	U	1.3	U	1.2	U	1.8	J	0.93	U
Silver	5.8		6.1		4.9		4.3		8.4	
Sodium	280	J	342	J	34.4	J	87.3	UJ		R
Thallium	0.50	U	0.60	U	0.60	J	0.67	U	0.43	UJ
Vanadium	57.0		49.2		32.5		37.6		111	J
Zinc	1270	J	517	J	154		304	J	164	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-FP-2033-0.502-01		APB-FP-2033-000.5-01		APB-SD-2030-01		CMW-FP-2026-0.502-01		CMW-FP-2026-000.5-01	
Sample Location	APB-FP-2033		APB-FP-2033		APB-FP-2030		CMW-FP-2026		CMW-FP-2026	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/22/99		10/28/99		10/28/99	
QC Identifier	None		None		None		None		Field Dup. CMW-FP-2026-000.5-01	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D00941		D00881				D00929	
Acid Volatile Sulfide		NA	5.88385		0.0575	U		NA	0.11962	U
Cadmium		NA	0.01399	J		R		NA	0.00273	U
Copper		NA	2.46601		1.33754	J		NA	2.92955	
Lead		NA	3.23622		0.69459			NA	1.64239	
Mercury		NA	0.00008	U	0.00043			NA	0.00023	
Nickel		NA	0.47085	J	1.23749	J		NA	0.31295	J
SEM/AVS			1.71958		81.12411				55.54547	
Simultaneously Extracted Metal		NA	10.11778		4.66502			NA	6.64434	
Zinc		NA	3.93068		1.3934			NA	1.76047	
Total Organic Carbon Analysis (MG/KG)			D00941		D00881				D00929	
Total Organic Carbon		NA	81200		54500			NA	90400	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-DU-102899A		CMW-FP-2026-000.5-01-MAX		CMW-FP-2026-0204-01		CMW-FP-2027-01	
Sample Location	CMW-FP-2026		CMW-FP-2026		CMW-FP-2026		CMW-FP-2027	
Interval	0 0-0 5		0 0-0.5		2 0-4 0		0 0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	Field Dup. CMW-FP-2026-000.5-01		Field Dup. CMW-FP-2026-000.5-01		None		None	
Semivolatile Organic Analysis (UG/KG)	D00933		D00933		D00931		D00932	
1,2,4-Trichlorobenzene	5000	U	5000	U	410	U	4500	U
1,2-Dichlorobenzene	5000	U	5000	U	410	U	4500	U
1,3-Dichlorobenzene	5000	U	5000	U	410	U	4500	U
1,4-Dichlorobenzene	5000	U	5000	U	410	U	4500	U
2,2'-oxybis(1-Chloropropane)	5000	U	5000	U	410	U	4500	U
2,4,5-Trichlorophenol	12000	U	12000	U	1000	U	11000	U
2,4,6-Trichlorophenol	5000	U	5000	U	410	UJ	4500	UJ
2,4-Dichlorophenol	5000	U	5000	U	410	U	4500	U
2,4-Dimethylphenol	5000	UJ	4800	U	410	U	4500	U
2,4-Dinitrophenol	12000	UJ	12000	U	1000	U	11000	U
2,4-Dinitrotoluene	5000	U	5000	U	410	U	4500	U
2,6-Dinitrotoluene	5000	U	5000	U	410	U	4500	U
2-Chloronaphthalene	5000	U	5000	U	410	U	4500	U
2-Chlorophenol	5000	U	5000	U	410	U	4500	U
2-Methylnaphthalene	5000	U	5000	U	410	U	4500	U
2-Methylphenol	5000	U	5000	U	410	U	4500	U
2-Nitroaniline	12000	UJ	12000	U	1000	U	11000	U
2-Nitrophenol	5000		5000		410	U	4500	U
3,3'-Dichlorobenzidine	5000	UJ	5000	U	410	UJ	4500	UJ
3-Nitroaniline	12000	U	12000	U	1000	U	11000	U
4,6-Dinitro-2-methylphenol	12000	UJ	12000	U	1000	U	11000	U
4-Bromophenyl-phenylether	5000	U	5000	U	410	U	4500	U
4-Chloro-3-methylphenol	5000	U	5000	U	410	U	4500	U
4-Chloroaniline	5000	U	5000	U	410	UJ	4500	UJ
4-Chlorophenyl-phenylether	5000	U	5000	U	410	U	4500	U
4-Methylphenol	5000	U	5000	U	410	U	4500	U
4-Nitroaniline	12000	U	12000	U	1000	U	11000	U
4-Nitrophenol	12000	U	12000	U	1000	U	11000	U
Acenaphthene	5000	U	5000	U	410	U	4500	U
Acenaphthylene	5000	U	5000	U	410	U	4500	U
Anthracene	5000	U	5000	U	410	U	4500	U
Benzo(a)anthracene	830	J	830		410	U	950	J
Benzo(a)pyrene	780	J	780		410	U	1000	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-DU-102899A		CMW-FP-2026-000.5-01-MAX		CMW-FP-2026-0204-01		CMW-FP-2027-01	
Sample Location	CMW-FP-2026		CMW-FP-2026		CMW-FP-2026		CMW-FP-2027	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	Field Dup. CMW-FP-2026-000.5-01		Field Dup. CMW-FP-2026-000.5-01		None		None	
Benzo(b)fluoranthene	1500	J	1500		410	U	1000	J
Benzo(g,h,i)perylene	5000	U	5000	U	410	U	4500	U
Benzo(k)fluoranthene	790	J	930		410	U	1400	J
Bis(2-Chloroethoxy)methane	5000	U	5000	U	410	U	4500	U
Bis(2-Chloroethyl)ether	5000	U	5000	U	410	U	4500	U
bis(2-Ethylhexyl)phthalate	5000	U	5000	U	410	U	4500	U
Butylbenzylphthalate	5000	U	5000	U	410	UJ	4500	UJ
Carbazole	5000	U	5000	U	410	U	4500	U
Chrysene	1200	J	1200		410	U	1300	J
Di-n-Butylphthalate	5000	UJ	4800	U	410	U	4500	U
Di-n-octylphthalate	5000	UJ	4800	U	410	UJ	4500	UJ
Dibenzo(a,h)anthracene	5000	U	5000	U	410	U	4500	U
Dibenzofuran	5000	U	5000	U	410	U	4500	U
Diethylphthalate	5000	U	5000	U	410	U	4500	U
Dimethylphthalate	5000	U	5000	U	410	U	4500	U
Fluoranthene	2000	J	2000		410	U	2300	J
Fluorene	5000	U	5000	U	410	U	4500	U
Hexachlorobenzene	5000	U	5000	U	410	U	4500	U
Hexachlorobutadiene	5000	U	5000	U	410	U	4500	U
Hexachlorocyclopentadiene	5000	U	5000	U	410	UJ	4500	UJ
Hexachloroethane	5000	U	5000	U	410	U	4500	U
Indeno(1,2,3-cd)pyrene	740	J	740		410	U	820	J
Isophorone	5000	U	5000	U	410	U	4500	U
N-Nitroso-di-n-propylamine	5000	UJ	4800	U	410	U	4500	U
N-Nitroso-diphenylamine	5000	U	5000	U	410	U	4500	U
Naphthalene	5000	U	5000	U	410	U	4500	U
Nitrobenzene	5000	U	5000	U	410	U	4500	U
Pentachlorophenol	12000	UJ	12000	U	1000	UJ	11000	UJ
Phenanthrene	1000	J	1000		410	U	1100	J
Phenol	5000	U	5000	U	410	U	4500	U
Pyrene	1700	J	1700		410	U	2100	J
Total PAH	1100		1100		410	U	1300	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-DU-102899A		CMW-FP-2026-000.5-01-MAX		CMW-FP-2026-0204-01		CMW-FP-2027-01	
Sample Location	CMW-FP-2026		CMW-FP-2026		CMW-FP-2026		CMW-FP-2027	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	Field Dup. CMW-FP-2026-000.5-01		Field Dup. CMW-FP-2026-000.5-01		None		None	
Pesticide/PCB Analysis (UG/KG)	D00933		D00933		D00931		D00932	
4,4'-DDD	4.9	U	5.2	U	R		5.6	J
4,4'-DDE	4.9	U	5.2	U	R		4.6	UJ
4,4'-DDT	4.9	U	4.9	U	R		4.6	UJ
Aldrin	2.5	U	2.5	U	R		2.4	UJ
alpha-BHC	2.5	U	2.7	U	R		2.4	UJ
alpha-Chlordane	2.5	U	2.5	U	R		15	J
Aroclor, Total	180		49		U		400	
Aroclor-1016	49	U	52	U	R		46	UJ
Aroclor-1221	99	U	110	U	R		93	UJ
Aroclor-1232	49	U	52	U	R		46	UJ
Aroclor-1242	49	U	52	U	R		46	UJ
Aroclor-1248	49	U	49	U	R		46	UJ
Aroclor-1254	180		270		R		400	J
Aroclor-1260	49	U	52	U	R		46	UJ
beta-BHC	2.5	U	2.7	U	R		2.4	UJ
delta-BHC	2.5	U	2.7	U	R		2.4	UJ
Dieldrin	23		23		R		41	J
Endosulfan I	2.5	U	2.7	U	R		2.4	UJ
Endosulfan II	4.9	U	4.9	U	R		4.6	UJ
Endosulfan Sulfate	4.9	U	5.3		R		4.6	UJ
Endrin	13		13		R		4.6	UJ
Endrin Aldehyde	4.9	U	5.2	U	R		4.6	UJ
Endrin Ketone	4.9	U	5.2	U	R		4.6	UJ
gamma-BHC	2.5	U	2.5	U	R		2.4	UJ
gamma-Chlordane	2.5	U	2.5	U	R		19	J
Heptachlor	2.5	U	2.7	U	R		2.4	UJ
Heptachlor Epoxide	2.5	U	2.7	U	R		3.8	J
Methoxychlor	25	U	27	U	R		24	UJ
Toxaphene	250	U	270	U	R		240	UJ

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-DU-102899A		CMW-FP-2026-000.5-01-MAX		CMW-FP-2026-0204-01		CMW-FP-2027-01	
Sample Location	CMW-FP-2026		CMW-FP-2026		CMW-FP-2026		CMW-FP-2027	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	Field Dup. CMW-FP-2026-000.5-01		Field Dup. CMW-FP-2026-000.5-01		None		None	
Dioxin Analysis (NG/KG)	D00933		D00929		D00931		D00932	
1,2,3,4,6,7,8-HpCDD	721	J	734		6.5		1150	J
1,2,3,4,6,7,8-HpCDF	295	J	397		28.2		272	J
1,2,3,4,7,8,9-HpCDF	14.3	J	19.9		1.0	U	15.3	J
1,2,3,4,7,8-HxCDD	12.4	J	15.3		0.80	U	14.0	EMPC
1,2,3,4,7,8-HxCDF	41.5	J	56.0		2.6	J	40.5	J
1,2,3,6,7,8-HxCDD	34.0	J	46.7		1.0	EMPC	57.1	J
1,2,3,6,7,8-HxCDF	29.1	J	37.5		1.7	J	25.3	J
1,2,3,7,8,9-HxCDD	38.4	J	42.0		1.4	J	51.9	J
1,2,3,7,8,9-HxCDF	32.1	J	45.2		1.4	J	28.5	J
1,2,3,7,8-PeCDD	16.6	J	22.8		0.60	U	15.4	J
1,2,3,7,8-PeCDF	42.9	EMPC	49.4		2.6	J	50.5	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	2132.78	J	2132.78		0.93	J	432	J
2,3,4,6,7,8-HxCDF	3.0	UJ	3.0	U	0.50	U	1.7	UJ
2,3,4,7,8-PeCDF	21.0	J	25.0		1.3	J	17.7	J
2,3,7,8-TCDD	16110	J	16380		24.7		4960	$J
2,3,7,8-TCDF	45.3	J	53.5		2.3		35.5	J
OCDD	6660	JEB	6660		32.8	EB	7860	$JEB
OCDF	469	JEB	479		12.7	EB	567	JEB
Total HpCDD	1610	J	1610		15.5	J	2320	J
Total HpCDF	674	J	851		43.7	J	619	J
Total HxCDD	354	JEB	415		8.7	JEB	426	JEB
Total HxCDF	670	J	850		24.4	J	575	J
Total PeCDD	117	J	170		7.0	J	97.1	J
Total PeCDF	602	J	692		16.8	J	397	J
Total TCDD	16560	J	16890		27.8	J	5060	$J
Total TCDF	604	J	732		13.0	J	388	J
Toxicity Equivalency	16200		16500		27.2		5030	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-DU-102899A		CMW-FP-2026-000.5-01-MAX		CMW-FP-2026-0204-01		CMW-FP-2027-01	
Sample Location	CMW-FP-2026		CMW-FP-2026		CMW-FP-2026		CMW-FP-2027	
Interval	0.0-0.5		0 0-0 5		2 0-4 0		0 0-0 5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	Field Dup. CMW-FP-2026-000 5-01		Field Dup. CMW-FP-2026-000.5-01		None		None	
TAL Metal Analysis (MG/KG)	D00933		D00933		D00931		D00932	
Aluminum	11500		11500		3370		8030	
Antimony	3 6	J	3 6		0.76	UJ	1 5	J
Arsenic	10 9		10 9		0.71	U	3.3	
Barium	155		155		15 5		156	
Beryllium	1.7		1.7		0 57		1 5	
Cadmium	0 10	U	0 10	U	0 08	U		R
Calcium	825	J	825		496	J	1110	J
Chromium	211		211		10 3		120	
Cobalt	4.3		4 7		1 9	J	4 7	
Copper	230		230		5 4		111	
Iron	23200		24000		3850		24300	
Lead	434		434		24 4		712	
Magnesium	1740	J	1770		358	J	1890	J
Manganese	156		156		41 9		197	
Mercury	0 45		0 46		0 03		0 48	
Nickel	23 6		23 6		4 6		26 0	
Potassium	823	J	823		193	J	610	J
Selenium	1 4	U	1 4	U	1 2	U	0 77	U
Silver	7 2		8 4		0 84		6 6	
Sodium	75 7	UJ	75 7	U	55 7	UJ	154	UJ
Thallium	0 63	U	0 63	U	0 53		0 35	U
Vanadium	93 8		93 8		6 8		38 3	J
Zinc	148	J	164		186	J	199	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-DU-102899A		CMW-FP-2026-000.5-01-MAX		CMW-FP-2026-0204-01		CMW-FP-2027-01	
Sample Location	CMW-FP-2026		CMW-FP-2026		CMW-FP-2026		CMW-FP-2027	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		10/28/99		10/28/99	
QC Identifier	Field Dup. CMW-FP-2026-000.5-01		Field Dup. CMW-FP-2026-000.5-01		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D00929				D00932	
Acid Volatile Sulfide		NA	0.11962	U		NA	1.03038	
Cadmium		NA	0.00273	U		NA	0.00763	J
Copper		NA	2.92955			NA	1.76912	
Lead		NA	1.64239			NA	2.54239	
Mercury		NA	0.00023			NA	0.00005	
Nickel		NA	0.31295			NA	0.65436	J
SEM/AVS			55.54547				7.69248	
Simultaneously Extracted Metal		NA	6.64434			NA	7.92618	
Zinc		NA	1.76047			NA	2.95263	
Total Organic Carbon Analysis (MG/KG)			D00929				D00932	
Total Organic Carbon		NA	90400			NA	69200	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2017-01		CMW-DU-102799A		CMW-SD-2017-01-MAX		CMW-SD-2021-01		CMW-SD-2022-0.502-01	
Sample Location	CMW-SD-2017		CMW-SD-2017		CMW-SD-2017		CMW-SD-2021		CMW-SD-2022	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.5-2.0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/26/99		10/27/99	
QC Identifier	Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		None		None	
Semivolatile Organic Analysis (UG/KG)	D00912				D00912		D00902		D00921	
1,2,4-Trichlorobenzene	870	U		NA	870	U	2100	U	4200	U
1,2-Dichlorobenzene	870	U		NA	870	U	2100	U	4200	U
1,3-Dichlorobenzene	870	U		NA	870	U	2100	U	4200	U
1,4-Dichlorobenzene	870	U		NA	870	U	2100	U	4200	U
2,2'-oxybis(1-Chloropropane)	870	U		NA	870	U	2100	U	4200	U
2,4,5-Trichlorophenol	2200	U		NA	2200	U	5200	U	11000	U
2,4,6-Trichlorophenol	870	U		NA	870	U	2100	U	4200	U
2,4-Dichlorophenol	870	U		NA	870	U	2100	U	4200	U
2,4-Dimethylphenol	870	U		NA	870	U	2100	U	4200	UJ
2,4-Dinitrbphenol	2200	UJ		NA	2200	U	5200	UJ	11000	UJ
2,4-Dinitrotoluene	870	U		NA	870	U	2100	U	4200	U
2,6-Dinitrotoluene	870	U		NA	870	U	2100	U	4200	U
2-Chloronaphthalene	870	U		NA	870	U	2100	U	4200	U
2-Chlorophenol	870	U		NA	870	U	2100	U	4200	U
2-Methylnaphthalene	870	U		NA	870	U	2100	U	4200	U
2-Methylphenol	870	U		NA	870	U	2100	U	4200	U
2-Nitroaniline	2200	U		NA	2200	U	5200	U	11000	UJ
2-Nitrophenol	870	U		NA	870	U	2100	U	4200	U
3,3'-Dichlorobenzidine	870	UJ		NA	870	U	2100	UJ	4200	UJ
3-Nitroaniline	2200	U		NA	2200	U	5200	U	11000	U
4,6-Dinitro-2-methylphenol	2200	U		NA	2200	U	5200	U	11000	UJ
4-Bromophenyl-phenylether	870	U		NA	870	U	2100	U	4200	U
4-Chloro-3-methylphenol	870	U		NA	870	U	2100	U	4200	U
4-Chloroaniline	870	U		NA	870	U	2100	U	4200	U
4-Chlorophenyl-phenylether	870	U		NA	870	U	2100	U	4200	U
4-Methylphenol	870	U		NA	870	U	2100	U	4200	U
4-Nitroaniline	2200	U		NA	2200	U	5200	U	11000	U
4-Nitrophenol	2200	UJ		NA	2200	U	5200	UJ	11000	U
Acenaphthene	870	U		NA	870	U	2100	U	4200	U
Acenaphthylene	870	U		NA	870	U	2100	U	4200	U
Anthracene	180	J		NA	180		280	J	4200	U
Benzo(a)anthracene	1400			NA	1400		2000	J	2200	J
Benzo(a)pyrene	1600			NA	1600		2200		1900	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2017-01		CMW-DU-102799A		CMW-SD-2017-01-MAX		CMW-SD-2021-01		CMW-SD-2022-0 502-01	
Sample Location	CMW-SD-2017		CMW-SD-2017		CMW-SD-2017		CMW-SD-2021		CMW-SD-2022	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 5-2 0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/26/99		10/27/99	
QC Identifier	Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		None		None	
Benzo(b)fluoranthene	1700				NA	1700	2700		1800	J
Benzo(g,h,i)perylene	990				NA	990	1700	J	1200	J
Benzo(k)fluoranthene	1600				NA	1600	2400		2000	J
Bis(2-Chloroethoxy)methane	870	U			NA	870 U	2100	U	4200	U
Bis(2-Chloroethyl)ether	870	U			NA	870 U	2100	U	4200	U
bis(2-Ethylhexyl)phthalate	870	U			NA	870 U	2100	UJ	4200	U
Butylbenzylphthalate	240	J			NA	240	660	J	470	J
Carbazole	320	J			NA	320	270	J	4200	U
Chrysene	2200				NA	2200	3400		2900	J
Di-n-Butylphthalate	120	J			NA	120	2100	U	4200	UJ
Di-n-octylphthalate	870	UJ			NA	870 U	2100	UJ	4200	UJ
Dibenzo(a,h)anthracene	540	J			NA	540	640	J	590	J
Dibenzofuran	870	U			NA	870 U	2100	U	4200	U
Diethylphthalate	870	U			NA	870 U	2100	U	4200	U
Dimethylphthalate	870	U			NA	870 U	2100	U	4200	U
Fluoranthene	4200				NA	4200	5500		4300	
Fluorene	870	U			NA	870 U	230	J	4200	U
Hexachlorobenzene	870	U			NA	870 U	2100	U	4200	U
Hexachlorobutadiene	870	UJ			NA	870 U	2100	UJ	4200	U
Hexachlorocyclopentadiene	870	U			NA	870 U	2100	U	4200	U
Hexachloroethane	870	U			NA	870 U	2100	U	4200	U
Indeno(1,2,3-cd)pyrene	1400				NA	1400	1600	J	1300	J
Isophorone	870	U			NA	870 U	2100	U	4200	U
N-Nitroso-di-n-propylamine	870	U			NA	870 U	2100	U	4200	UJ
N-Nitroso-diphenylamine	870	U			NA	870 U	2100	U	4200	U
Naphthalene	870	U			NA	870 U	2100	U	4200	U
Nitrobenzene	870	U			NA	870 U	2100	U	4200	U
Pentachlorophenol	2200	UJ			NA	2200 U	5200	UJ	11000	UJ
Phenanthrene	1800				NA	1800	1800	J	1400	J
Phenol	870	U			NA	870 U	2100	U	4200	U
Pyrene	3200				NA	3200	4800		5000	
Total PAH	2600				NA	2600	3500		3000	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2017-01		CMW-DU-102799A		CMW-SD-2017-01-MAX		CMW-SD-2021-01		CMW-SD-2022-0.502-01	
Sample Location	CMW-SD-2017		CMW-SD-2017		CMW-SD-2017		CMW-SD-2021		CMW-SD-2022	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.5-2.0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/26/99		10/27/99	
QC Identifier	Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		None		None	
Pesticide/PCB Analysis (UG/KG)	D00912				D00912		D00902		D00921	
4,4'-DDD	4.4	U		NA	4.4	U	4.4	U	4.6	U
4,4'-DDE	4.4	U		NA	4.4	U	4.4	U	4.6	U
4,4'-DDT	4.4	U		NA	4.4	U	4.7		4.6	U
Aldrin	2.2	U		NA	2.2	U	2.3	U	2.4	U
alpha-BHC	2.2	U		NA	2.2	U	2.3	U	2.4	U
alpha-Chlordane	6.5			NA	6.5		10		3.4	
Aroclor, Total	88	U		NA	88	U	870		2070	
Aroclor-1016	44	U		NA	44	U	44	U	46	U
Aroclor-1221	88	U		NA	88	U	89	U	94	U
Aroclor-1232	44	U		NA	44	U	44	U	46	U
Aroclor-1242	44	U		NA	44	U	44	U	46	U
Aroclor-1248	44	U		NA	44	U	330		570	
Aroclor-1254	44	U		NA	44	U	540		1500	
Aroclor-1260	44	U		NA	44	U	44	U	46	U
beta-BHC	2.2	U		NA	2.2	U	32		2.4	U
delta-BHC	2.2	U		NA	2.2	U	2.3	U	2.4	U
Dieldrin	4.4	U		NA	4.4	U	4.4	U	4.6	U
Endosulfan I	2.2	U		NA	2.2	U	2.3	U	2.4	U
Endosulfan II	4.4	U		NA	4.4	U	51		170	
Endosulfan Sulfate	4.4	U		NA	4.4	U	5.4		5.7	
Endrin	4.4	U		NA	4.4	U	4.4	U	7.7	
Endrin Aldehyde	4.4	U		NA	4.4	U	4.4	U	4.6	U
Endrin Ketone	4.4	U		NA	4.4	U	4.4	U	4.6	U
gamma-BHC	2.2	U		NA	2.2	U	2.3	U	2.4	U
gamma-Chlordane	6.4			NA	6.4		22		13	
Heptachlor	2.2	U		NA	2.2	U	2.3	U	2.4	U
Heptachlor Epoxide	2.2	U		NA	2.2	U	2.3	U	2.4	U
Methoxychlor	22	U		NA	22	U	23	U	24	U
Toxaphene	220	U		NA	220	U	230	U	240	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2017-01		CMW-DU-102799A		CMW-SD-2017-01-MAX		CMW-SD-2021-01		CMW-SD-2022-0 502-01	
Sample Location	CMW-SD-2017		CMW-SD-2017		CMW-SD-2017		CMW-SD-2021		CMW-SD-2022	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 5-2 0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/26/99		10/27/99	
QC Identifier	Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		None		None	
Dioxin Analysis (NG/KG)	D00912				D00912		D00902		D00921	
1,2,3,4,6,7,8-HpCDD	541			NA	541		2140	$	380	
1,2,3,4,6,7,8-HpCDF	106			NA	106		377		150	
1,2,3,4,7,8,9-HpCDF	6 0			NA	6.0		21 7		8 8	
1,2,3,4,7,8-HxCDD	9 1			NA	9.1		30 8		7 4	
1,2,3,4,7,8-HxCDF	6 7			NA	6.7		34 2		24 9	
1,2,3,6,7,8-HxCDD	26 1			NA	26 1		104		21 1	
1,2,3,6,7,8-HxCDF	5 7			NA	5 7		27 1	J	18 3	
1,2,3,7,8,9-HxCDD	23 1			NA	23 1		91 3		25 6	
1,2,3,7,8,9-HxCDF	8 0			NA	8 0		0 70	U	20 4	
1,2,3,7,8-PeCDD	5 3			NA	5 3		14 8		6 3	
1,2,3,7,8-PeCDF	6.7			NA	6.7		13 6	EMPC	8 2	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	0.00	U		NA		NA	6341 4	J$	17 46	J
2,3,4,6,7,8-HxCDF	0 60	U		NA	0 60	U	37 5		1 0	U
2,3,4,7,8-PeCDF	2 4	J		NA	2 4		16 2		11 1	
2,3,7,8-TCDD	2 3			NA	2 3		2000	$	186	
2,3,7,8-TCDF	3.7			NA	3.7		36 0		17 6	
OCDD	3350	EB		NA	3350		11350	EB$	2560	EB
OCDF	191	EB		NA	191		645	EB	163	EB
Total HpCDD	956	J		NA	956		3570	J$	768	J
Total HpCDF	244	J		NA	244		913	J	291	J
Total HxCDD	158	JEB		NA	158		644	J	211	JEB
Total HxCDF	129	J		NA	129		620	J	350	J
Total PeCDD	20 2	J		NA	20 2		52 0	J	39 3	J
Total PeCDF	51 6	J		NA	51 6		354	J	290	J
Total TCDD	5.0	J		NA	5.0		2000	J$	213	J
Total TCDF	23 4	J		NA	23 4		379	J	209	J
Toxicity Equivalency	24 3			NA	24 3		2090		218	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2017-01		CMW-DU-102799A		CMW-SD-2017-01-MAX		CMW-SD-2021-01		CMW-SD-2022-0.502-01	
Sample Location	CMW-SD-2017		CMW-SD-2017		CMW-SD-2017		CMW-SD-2021		CMW-SD-2022	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.5-2.0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/26/99		10/27/99	
QC Identifier	Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		None		None	
TAL Metal Analysis (MG/KG)	D00912				D00912		D00902		D00921	
Aluminum	3260			NA	3260		10200		3210	
Antimony	0.72	UJ		NA	0.72	U	1.0	UJ	1.1	UJ
Arsenic	1.8			NA	1.8		5.6	J	2.2	
Barium	38.6			NA	38.6		99.7	J	69.3	
Beryllium	0.44	U		NA	0.44	U	0.87		0.53	U
Cadmium	0.08	U		NA	0.08	U	2.6	J	0.51	
Calcium	895	J		NA	895		4530	J	666	J
Chromium	16.4			NA	16.4		48.1		57.1	
Cobalt	3.0			NA	3.0		7.3		2.4	J
Copper	21.7			NA	21.7		126	J	31.2	
Iron	10700			NA	10700		28800		4960	
Lead	146			NA	146		558		138	
Magnesium	1130	J		NA	1130		3060	J	701	J
Manganese	376			NA	376		269		52.1	
Mercury	0.23			NA	0.23		0.27		0.93	
Nickel	6.3			NA	6.3		32.9		3.7	
Potassium	456	J		NA	456		1290	J	369	J
Selenium	1.1	U		NA	1.1	U	0.95	U	1.3	U
Silver	2.6			NA	2.6		7.5		2.0	U
Sodium	71.8	UJ		NA	71.8	U	274	J	105	UJ
Thallium	0.50	U		NA	0.50	U	0.43	UJ	0.61	U
Vanadium	11.3			NA	11.3		49.7	J	10.3	
Zinc	160	J		NA	160		587	J	227	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2017-01		CMW-DU-102799A		CMW-SD-2017-01-MAX		CMW-SD-2021-01		CMW-SD-2022-0.502-01	
Sample Location	CMW-SD-2017		CMW-SD-2017		CMW-SD-2017		CMW-SD-2021		CMW-SD-2022	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.5-2.0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/26/99		10/27/99	
QC Identifier	Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		Field Dup. CMW-SD-2017-01		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D00912		D00913		D00912		D00902			
Acid Volatile Sulfide	0.0489	U	0.06011	U	0.06011	U	314.55588			NA
Cadmium	0.00112	U		R	0.00112	U	0.0288	J		NA
Copper	0.2961		0.4069		0.4069		1.52811			NA
Lead	0.46342		0.65408		0.65408		2.47161			NA
Mercury	0.00003	U	0.00004	U	0.00004	U	0.00008	U		NA
Nickel	0.09766	J	0.14879	J	0.14879		6.85786	J		NA
SEM/AVS	55.49112		62.17703		62.17703		0.06548			
Simultaneously Extracted Metal	2.71352		3.73775		3.73775		20.59823			NA
Zinc	1.85527		2.52639		2.52639		9.71184			NA
Total Organic Carbon Analysis (MG/KG)	D00912		D00913		D00912		D00902			
Total Organic Carbon	19300		19100		19300		105000			NA

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2022-022.5-01		RAB-FP-3004-01		RCC-FP-3001-01		RCC-FP-3002-01	
Sample Location	CMW-SD-2022		RAB-FP-3004		RCC-FP-3001		RCC-FP-3002	
Interval	2.0-2.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/27/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D00922		D01050		D01045		D01040	
1,2,4-Trichlorobenzene	860	U	480	UJ	2500	U	9900	U
1,2-Dichlorobenzene	860	U	480	U	2500	U	9900	U
1,3-Dichlorobenzene	860	U	480	U	2500	U	9900	U
1,4-Dichlorobenzene	860	U	480	UJ	2500	U	9900	U
2,2'-oxybis(1-Chloropropane)	860	U	480	U	2500	U	9900	U
2,4,5-Trichlorophenol	2200	U	1200	U	6200	U	25000	U
2,4,6-Trichlorophenol	860	UJ	480	U	2500	U	9900	U
2,4-Dichlorophenol	860	U	480	U	2500	U	9900	U
2,4-Dimethylphenol	860	U	480	U	2500	U	9900	U
2,4-Dinitrophenol	2200	U	1200	U	6200	UJ	25000	UJ
2,4-Dinitrotoluene	860	U	480	U	2500	U	9900	U
2,6-Dinitrotoluene	860	U	480	U	2500	U	9900	U
2-Chloronaphthalene	860	U	480	U	2500	U	9900	U
2-Chlorophenol	860	U	480	U	2500	U	9900	U
2-Methylnaphthalene	860	U	480	U	2500	U	9900	U
2-Methylphenol	860	U	480	U	2500	U	9900	U
2-Nitroaniline	2200	U	1200	U	6200	U	25000	U
2-Nitrophenol	860	UJ	480	U	2500	U	9900	U
3,3'-Dichlorobenzidine	860	UJ	480	U	2500	U	9900	U
3-Nitroaniline	2200	U	1200	U	6200	U	25000	U
4,6-Dinitro-2-methylphenol	2200	U	1200	U	6200	U	25000	U
4-Bromophenyl-phenylether	860	U	480	U	2500	U	9900	U
4-Chloro-3-methylphenol	860	U	480	U	2500	U	9900	U
4-Chloroaniline	860	UJ	480	U	2500	U	9900	U
4-Chlorophenyl-phenylether	860	U	480	U	2500	U	9900	U
4-Methylphenol	860	U	480	U	2500	U	9900	U
4-Nitroaniline	2200	U	1200	U	6200	U	25000	U
4-Nitrophenol	2200	U	1200	UJ	6200	U	25000	U
Acenaphthene	860	U	480	UJ	260	J	9900	U
Acenaphthylene	860	U	480	U	2500	U	9900	U
Anthracene	100	J	480	U	750	J	9900	U
Benzo(a)anthracene	1000		270	J	3500		1200	J
Benzo(a)pyrene	1200		320	J	3100		1500	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2022-022.5-01		RAB-FP-3004-01		RCC-FP-3001-01		RCC-FP-3002-01	
Sample Location	CMW-SD-2022		RAB-FP-3004		RCC-FP-3001		RCC-FP-3002	
Interval	2.0-2.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/27/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None	
Benzo(b)fluoranthene	620	J	390	J	3100		1700	J
Benzo(g,h,i)perylene	590	J	260	J	1600	J	1200	J
Benzo(k)fluoranthene	930		310	J	3600		1400	J
Bis(2-Chloroethoxy)methane	860	U	480	U	2500	U	9900	U
Bis(2-Chloroethyl)ether	860	U	480	U	2500	U	9900	U
bis(2-Ethylhexyl)phthalate	860	UJ	480	U	2500	U	9900	U
Butylbenzylphthalate	860	UJ	480	UJ	540	J	9900	U
Carbazole	860	U	480	U	520	J	9900	U
Chrysene	1100		430	J	4100		1800	J
Di-n-Butylphthalate	860	U	63	JEB	470	JEB	9900	U
Di-n-octylphthalate	860	U	480	UJ	2500	U	9900	U
Dibenzo(a,h)anthracene	220	J	100	J	2500	U	9900	U
Dibenzofuran	860	U	480	U	2500	U	9900	U
Diethylphthalate	860	U	480	U	2500	U	9900	U
Dimethylphthalate	860	U	480	U	2500	U	9900	U
Fluoranthene	1500		840		7000		2300	J
Fluorene	860	U	480	U	400	J	9900	U
Hexachlorobenzene	860	U	480	U	2500	U	9900	U
Hexachlorobutadiene	860	U	480	U	2500	U	9900	U
Hexachlorocyclopentadiene	860	UJ	480	U	2500	U	9900	U
Hexachloroethane	860	U	480	U	2500	U	9900	U
Indeno(1,2,3-cd)pyrene	550	J	270	J	1700	J	1200	J
Isophorone	860	U	480	U	2500	U	9900	U
N-Nitroso-di-n-propylamine	860	U	480	U	2500	U	9900	U
N-Nitroso-diphenylamine	860	U	480	U	2500	U	9900	U
Naphthalene	860	U	480	U	2500	U	9900	U
Nitrobenzene	860	U	480	U	2500	U	9900	U
Pentachlorophenol	2200	UJ	1200	UJ	6200	U	25000	U
Phenanthrene	310	J	300	J	4500		1200	J
Phenol	860	U	480	U	2500	U	9900	U
Pyrene	2500		590	J	6500		2400	J
Total PAH	1600		520		4000		1900	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2022-022.5-01		RAB-FP-3004-01		RCC-FP-3001-01		RCC-FP-3002-01	
Sample Location	CMW-SD-2022		RAB-FP-3004		RCC-FP-3001		RCC-FP-3002	
Interval	2.0-2.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/27/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D00922		D01050		D01045		D01040	
4,4'-DDD	4.3	U	4.8	U	4.9	U	5.0	U
4,4'-DDE	4.3	U	4.8	U	4.9	U	5.0	U
4,4'-DDT	4.3	U	4.8	U	4.9	U	5.6	
Aldrin	2.2	U	2.4	UJ	2.5	U	2.6	U
alpha-BHC	2.2	U	2.4	U	2.5	U	2.6	U
alpha-Chlordane	2.2	U	2.4	U	3.2		4.9	
Aroclor, Total	237		27		120		480	
Aroclor-1016	43	U	48	U	49	U	50	U
Aroclor-1221	87	U	96	U	99	U	100	U
Aroclor-1232	43	U	48	U	49	U	50	U
Aroclor-1242	43	U	48	U	49	U	50	U
Aroclor-1248	57		48	U	49	U	50	U
Aroclor-1254	180		27	J	120		380	
Aroclor-1260	43	U	48	U	49	U	100	
beta-BHC	2.2	U	2.4	U	2.5	U	2.6	U
delta-BHC	2.2	U	2.4	U	2.5	U	2.6	U
Dieldrin	4.3	U	4.8	UJ	4.9	U	5.0	U
Endosulfan I	2.2	U	2.4	U	2.5	U	2.6	U
Endosulfan II	4.3	U	4.8	U	4.9	U	5.0	U
Endosulfan Sulfate	4.3	U	4.8	U	4.9	U	5.0	U
Endrin	4.3	U	4.8	UJ	4.9	U	5.0	U
Endrin Aldehyde	19		4.8	U	4.9	U	5.0	U
Endrin Ketone	4.3	U	4.8	U	4.9	U	5.0	U
gamma-BHC	2.2	U	2.4	UJ	2.5	U	2.6	U
gamma-Chlordane	2.2	U	2.4	U	2.9		7.8	
Heptachlor	2.2	U	2.4	UJ	2.5	U	2.6	U
Heptachlor Epoxide	2.2	U	2.4	U	2.5	U	2.6	U
Methoxychlor	22	U	24	U	25	U	26	U
Toxaphene	220	U	240	U	250	U	260	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2022-022.5-01		RAB-FP-3004-01		RCC-FP-3001-01		RCC-FP-3002-01	
Sample Location	CMW-SD-2022		RAB-FP-3004		RCC-FP-3001		RCC-FP-3002	
Interval	2.0-2.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/27/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None	
Dioxin Analysis (NG/KG)	**D00922**		**D01050**		**D01045**		**D01040**	
1,2,3,4,6,7,8-HpCDD	19.3	J	78.6		444		1470	
1,2,3,4,6,7,8-HpCDF	12.4	J	17.1		192		533	
1,2,3,4,7,8,9-HpCDF	3.3	UJ	1.2	EMPC	10.8		26.7	
1,2,3,4,7,8-HxCDD	2.6	UJ	1.7	U	7.1		25.3	
1,2,3,4,7,8-HxCDF	3.1	J	3.1	U	25.7		73.9	
1,2,3,6,7,8-HxCDD	2.4	UJ	4.1	J	23.4		85.3	
1,2,3,6,7,8-HxCDF	1.8	J	1.6	U	17.0		50.3	
1,2,3,7,8,9-HxCDD	2.5	UJ	4.3	U	24.9		68.7	
1,2,3,7,8,9-HxCDF	2.5	J	0.30	U	1.4	EMPC	3.2	U
1,2,3,7,8-PeCDD	1.6	UJ	1.0	U	3.5	EMPC	13.1	
1,2,3,7,8-PeCDF	1.8	EMPC	0.88	U	5.1	U	15.4	
1,2,4,5,7,8-hexachloro(9H)xanthene	0.00	U	0.00	U	4.77	J	14.5	J
2,3,4,6,7,8-HxCDF	1.6	UJ	2.0	U	19.0		61.9	
2,3,4,7,8-PeCDF	1.6	J	1.1	U	9.5		26.9	
2,3,7,8-TCDD	6.9	J	0.76	J	2.9		86.6	
2,3,7,8-TCDF	3.4	J	2.3		17.5		69.3	
OCDD	137	JEB	637	JEB	3460	JEB	10920	J$EB
OCDF	12.9	JEB	35.5		344		611	
Total HpCDD	39.0	J	157	J	883	J	2940	J
Total HpCDF	20.6	J	35.9	J	413	J	1300	J
Total HxCDD	5.6	JEB	32.5	EMPC	195	J	655	J
Total HxCDF	16.7	J	28.0	EMPC	282	J	1020	J
Total PeCDD	1.6	UJ	8.1	EMPC	10.2	UJ	99.1	J
Total PeCDF	13.4	J	16.3	EMPC	198	J	557	J
Total TCDD	6.9	J	1.4	J	27.2	J	147	J
Total TCDF	14.2	J	7.3	J	168	J	636	J
Toxicity Equivalency	12.5		3.9		31.7		179	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2022-022.5-01		RAB-FP-3004-01		RCC-FP-3001-01		RCC-FP-3002-01	
Sample Location	CMW-SD-2022		RAB-FP-3004		RCC-FP-3001		RCC-FP-3002	
Interval	2.0-2.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/27/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None	
TAL Metal Analysis (MG/KG)	D00922		D01050		D01045		D01040	
Aluminum	2160		11100		8990		16100	
Antimony	0.63	UJ	0.88	UJ	2.3	J	4.3	J
Arsenic	1.3		3.4		6.3		13.5	
Barium	17.5		102		199		245	
Beryllium	0.38	U	1.8		2.3		4.1	
Cadmium	0.07	U	0.14	UJ	0.21	J	1.1	J
Calcium	417	UJ	2660	J	1710	J	1870	J
Chromium	11.3		14.1		143		271	
Cobalt	1.4	J	7.9	J	10.4	J	8.9	J
Copper	10.9		13.5		112		436	
Iron	3590		20700		22700		23800	
Lead	32.6		37.4		228		570	
Magnesium	490	J	2000	J	1420	J	2360	J
Manganese	35.7		1590		1990		503	
Mercury	0.55		0.05	UJ	0.30	J	0.53	J
Nickel	1.3	U	9.9		26.2		261	
Potassium	255	UJ	1580		836		1250	
Selenium	0.96	U	2.2	J	2.6	J	3.6	J
Silver	0.96	U	6.5		7.4		9.2	
Sodium	45.1	UJ	143	U	87.3	U	254	
Thallium	0.44	U	0.97	U	1.0	U	1.4	U
Vanadium	6.3		20.9		47.3		129	
Zinc	39.4	J	85.9	J	302	J	376	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2022-022.5-01		RAB-FP-3004-01		RCC-FP-3001-01		RCC-FP-3002-01	
Sample Location	CMW-SD-2022		RAB-FP-3004		RCC-FP-3001		RCC-FP-3002	
Interval	2.0-2.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/27/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D01050		D01045		D01040	
Acid Volatile Sulfide		NA	0.15		0.14		0.12	U
Cadmium		NA	0.002	U		R	0.017	J
Copper		NA	0.21	J	1.55	J	5.92	J
Lead		NA	0.145		0.967		2.52	
Mercury		NA	0.00009		0.00031		0.00032	
Nickel		NA	0.51	J	0.45	J	4.41	J
SEM/AVS			12.58		43.74		149.5	
Simultaneously Extracted Metal		NA	1.93		6.28		18.37	
Zinc		NA	1.07	J	3.32	J	5.5	J
Total Organic Carbon Analysis (MG/KG)			D01050		D01045		D01040	
Total Organic Carbon		NA	37000		74000		109000	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0 502-01		APB-SD-2029-000 5-01		APB-SD-DU-102999A		APB-SD-2029-000 5-01-MAX	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2029		APB-SD-2029	
Interval	0.5-2.0		0 0-0 5		0.0-0.5		0.0-0 5	
Date Sampled	10/29/99		10/29/99		10/29/99		10/29/99	
QC Identifier	None		Field Dup. APB-SD-2029-000 5-01		Field Dup APB-SD-2029-000 5 01		Field Dup APB SD 2029 000 5 01	
Semivolatile Organic Analysis (UG/KG)	D00948		D00947		D00949		D00949	
1,1'-Biphenyl		NA		NA		NA		NA
1,2,4-Trichlorobenzene	480	U	450	U	480	U	480	U
1,2-Dichlorobenzene	480	U	450	U	480	U	480	U
1,3-Dichlorobenzene	480	U	450	U	480	U	480	U
1,4-Dichlorobenzene	480	U	450	U	480	U	480	U
2,2'-oxybis(1-Chloropropane)	480	U	450	U	480	U	480	U
2,4,5-Trichlorophenol	1200	U	1100	U	1200	U	1200	U
2,4,6-Trichlorophenol	480	UJ	450	U	480	UJ	450	U
2,4-Dichlorophenol	480	U	450	U	480	U	480	U
2,4-Dimethylphenol	480	U	450	U	480	U	480	U
2,4-Dinitrophenol	1200	U		R	1200	U	1200	U
2,4-Dinitrotoluene	480	U	450	U	480	U	480	U
2,6-Dinitrotoluene	480	U	450	U	480	U	480	U
2-Chloronaphthalene	480	U	450	U	480	U	480	U
2-Chlorophenol	480	U	450	U	480	U	480	U
2-Methylnaphthalene	480	U	450	U	480	U	480	U
2-Methylphenol	480	U	450	U	480	U	480	U
2-Nitroaniline	1200	U	1100	U	1200	U	1200	U
2-Nitrophenol	480	U	450	U	480	U	480	U
3,3'-Dichlorobenzidine	480	UJ	450	U	480	UJ	450	U
3-Nitroaniline	1200	U	1100	U	1200	U	1200	U
4,6-Dinitro-2-methylphenol	1200	U	1100	UJ	1200	U	1200	U
4-Bromophenyl-phenylether	480	U	450	U	480	U	480	U
4-Chloro-3-methylphenol	480	U	450	U	480	U	480	U
4-Chloroaniline	480	UJ	450	U	480	UJ	450	U
4-Chlorophenyl-phenylether	480	U	450	U	480	U	480	U
4-Methylphenol	480	U	450	U	480	U	480	U
4-Nitroaniline	1200	U	1100	UJ	1200	U	1200	U
4-Nitrophenol	1200	U	1100	UJ	1200	U	1200	U
Acenaphthene	480	U	450	U	480	U	480	U
Acenaphthylene	480	U	450	U	480	U	480	U
Acetophenone		NA		NA		NA		NA
Anthracene	49	J	47	J	480	U	480	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0 502-01		APB-SD-2029-000 5-01		APB-SD-DU-102999A		APB-SD-2029-000 5-01-MAX	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2029		APB-SD-2029	
Interval	0 5-2 0		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	10/29/99		10/29/99		10/29/99		10/29/99	
QC Identifier	None		Field Dup APB-SD-2029-000 5-01		Field Dup APB SD 2029 000 5-01		Field Dup APB SD 2029 000 5 01	
Atrazine		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA
Benzo(a)anthracene	130	J	160	J	220	J	220	
Benzo(a)pyrene	83	J	140	J	120	J	140	
Benzo(b)fluoranthene	78	J	140	J	180	J	180	
Benzo(g,h,i)perylene	480	U	100	J	480	U	480	U
Benzo(k)fluoranthene	140	J	140	J	240	J	240	
Bis(2-Chloroethoxy)methane	480	U	450	U	480	U	480	U
Bis(2-Chloroethyl)ether	480	U	450	U	480	U	480	U
bis(2-Ethylhexyl)phthalate	480	UJ	450	U	480	U	480	U
Butylbenzylphthalate	480	UJ	450	U	480	UJ	450	U
Caprolactam		NA		NA		NA		NA
Carbazole	480	U	450	U	480	U	480	U
Chrysene	140	J	190	J	270	J	270	
Di-n-Butylphthalate	480	U	450	U	480	U	480	U
Di-n-octylphthalate	480	UJ	450	U	480	UJ	450	U
Dibenzo(a,h)anthracene	480	U	46	J	71	J	71	
Dibenzofuran	480	U	450	U	480	U	480	U
Diethylphthalate	480	U	450	U	480	U	480	U
Dimethylphthalate	480	U	450	U	480	U	480	U
Fluoranthene	320	J	350	J	500		500	
Fluorene	480	U	450	U	480	U	480	U
Hexachlorobenzene	480	U	450	U	480	U	480	U
Hexachlorobutadiene	480	U	450	U	480	U	480	U
Hexachlorocyclopentadiene	480	UJ	450	UJ	480	UJ	480	U
Hexachloroethane	480	U	450	U	480	U	480	U
Indeno(1,2,3-cd)pyrene	480	U	92	J	91	J	92	
Isophorone	480	U	450	U	480	U	480	U
N-Nitroso-di-n-propylamine	480	U	450	U	480	U	480	U
N-Nitroso-diphenylamine	480	U	450	U	480	U	480	U
Naphthalene	480	U	450	U	480	U	480	U
Nitrobenzene	480	U	450	U	480	U	480	U
Pentachlorophenol	1200	UJ	1100	UJ	1200	UJ	1200	U
Phenanthrene	170	J	190	J	220	J	220	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0.502-01		APB-SD-2029-000.5-01		APB-SD-DU-102999A		APB-SD-2029-000.5-01-MAX	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2029		APB-SD-2029	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/29/99		10/29/99		10/29/99		10/29/99	
QC Identifier	None		Field Dup. APB-SD-2029-000.5-01		Field Dup. APB-SD-2029-000.5-01		Field Dup. APB-SD-2029-000.5.01	
Phenol	480	U	450	U	480	U	480	U
Pyrene	230	J	300	J	390	J	390	
Total PAH	110		230		240		260	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0 502-01		APB-SD-2029-000 5-01		APB-SD-DU-102999A		APB-SD-2029-000 5-01-MAX	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2029		APB-SD-2029	
Interval	0 5-2 0		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	10/29/99		10/29/99		10/29/99		10/29/99	
QC Identifier	None		Field Dup. APB-SD-2029-000 5-01		Field Dup APB-SD-2029-000 5-01		Field Dup APB-SD-2029-000 5-01	
Pesticide/PCB Analysis (UG/KG)	D00946		D00947		D00949		D00947	
4,4'-DDD	4 9	U	4 6	U	4 9	U	4 9	U
4,4'-DDE	4 9	U	4 6	U	4 9	U	4 9	U
4,4'-DDT	4 9	U	4 6	U	4 9	U	4 9	U
Aldrin	2 5	U	2 4	U	2 5	U	2 5	U
alpha-BHC	2 5	U	2 4	U	2 5	U	2 5	U
alpha-Chlordane	2 5	U	2 4	U	2 5	U	2 5	U
Aroclor, Total	100	U	24		21		24	
Aroclor-1016	49	U	46	U	49	U	49	U
Aroclor-1221	100	U	93	U	99	U	99	U
Aroclor-1232	49	U	46	U	49	U	49	U
Aroclor-1242	49	U	46	U	49	U	49	U
Aroclor-1248	49	U	46	U	49	U	49	U
Aroclor-1254	49	U	24	J	21	J	24	
Aroclor-1260	49	U	46	U	49	U	49	U
beta-BHC	2 5	U	2 4	U	2 5	U	2 5	U
delta-BHC	2 5	U	2 4	U	2 5	U	2 5	U
Dieldrin	4 9	U	5 4		4 9		5 4	
Endosulfan I	2 5	U	2 4	U	2 5	U	2 5	U
Endosulfan II	4 9	U	4 6	U	4 9	U	4 9	U
Endosulfan Sulfate	4 9	U	4 6	U	4 9	U	4 9	U
Endrin	4 9	U	4 6	U	4 9	U	4 9	U
Endrin Aldehyde	4 9	U	4 6	U	4 9	U	4 9	U
Endrin Ketone	4 9	U	4 6	U	4 9	U	4 9	U
gamma-BHC	2 5	U	2 4	U	2 5	U	2 5	U
gamma-Chlordane	2 5	U	2 4	U	2 5	U	2 5	U
Heptachlor	2 5	U	2 4	U	2 5	U	2 5	U
Heptachlor Epoxide	2 5	U	2 4	U	2 5	U	2 5	U
Methoxychlor	25	U	24	U	25	U	25	U
Toxaphene	250	U	240	U	250	U	250	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0.502-01		APB-SD-2029-000.5-01		APB-SD-DU-102999A		APB-SD-2029-000.5-01-MAX	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2029		APB-SD-2029	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/29/99		10/29/99		10/29/99		10/29/99	
QC Identifier	None		Field Dup. APB-SD-2029-000.5-01		Field Dup. APB SD 2029-000.5-01		Field Dup. APB SD 2029-000.5-01	
Dioxin Analysis (NG/KG)	D00946		D00947		D00949		D00949	
1,2,3,4,6,7,8-HpCDD	5.3		23.6	J	42.2	J	42.2	
1,2,3,4,6,7,8-HpCDF	1.3	J	8.5		14.1		14.1	
1,2,3,4,7,8,9-HpCDF	1.1	U	1.3	U	1.5	U	1.5	U
1,2,3,4,7,8-HxCDD	0.90	U	1.0	U	1.2	U	1.2	U
1,2,3,4,7,8-HxCDF	0.60	U	1.3	J	1.8	J	1.8	
1,2,3,6,7,8-HxCDD	0.80	U	1.4	J	2.1	J	2.1	
1,2,3,6,7,8-HxCDF	0.60	U	1.2	J	1.3	J	1.3	
1,2,3,7,8,9-HxCDD	0.90	U	1.7	J	2.3	J	2.3	
1,2,3,7,8,9-HxCDF	0.70	U	0.80	U	0.90	U	0.90	U
1,2,3,7,8-PeCDD	0.70	U	0.90	U	1.1	U	1.1	U
1,2,3,7,8-PeCDF	0.40	U	1.6	J	1.5	EMPC	1.6	
1,2,4,5,7,8-hexachloro(9H)xanthene	4.0	J	2340.81	J	171.15	J	2340.81	
2,3,4,6,7,8-HxCDF	0.60	U	1.3	J	1.8	J	1.8	
2,3,4,7,8-PeCDF	0.40	U	1.1	J	0.80	U	0.80	U
2,3,7,8-TCDD	56.7		326		252	$	326	
2,3,7,8-TCDF	0.40	U	1.4		1.9		1.9	
OCDD	31.0		149	J	259	J	259	
OCDF	3.1	J	12.5	J	22.4	J	22.4	
Total HpCDD	9.5	J	45.7	J	76.7	J	76.7	
Total HpCDF	3.2	J	17.7	J	36.2	J	36.2	
Total HxCDD	0.90	UJ	11.5	J	10.9	J	11.5	
Total HxCDF	2.2	J	23.4	J	38.0	J	38.0	
Total PeCDD	0.70	UJ	0.90	UJ	2.2	J	2.2	
Total PeCDF	0.96	EMPC	14.0	J	9.7	J	14.0	
Total TCDD	58.8	J	336	J	252	J$	336	
Total TCDF	1.8	J	12.3	J	16.5	J	16.5	
Toxicity Equivalency	57.5		328		255		328	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0.502-01		APB-SD-2029-000 5-01		APB-SD-DU-102999A		APB-SD-2029-000.5-01-MAX	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2029		APB-SD-2029	
Interval	0 5-2 0		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	10/29/99		10/29/99		10/29/99		10/29/99	
QC Identifier	None		Field Dup. APB-SD-2029-000.5-01		Field Dup APB-SD-2029-000 5-01		Field Dup APB SD 2029 000 5 01	
TAL Metal Analysis (MG/KG)	D00946		D00947		D00949		D00947	
Aluminum	2810		3770		3200		3770	
Antimony	0.84	UJ	0.98	UJ	0 70	UJ	0 98	U
Arsenic	0 78	U	0.92	U	0 65	U	0 92	U
Barium	18 4		27.6		22.9		27 6	
Beryllium	0 82		0.79		0 65		0 79	
Cadmium	0 09	U	0.10	U	0 07	U	0 10	U
Calcium	698	J	759	J	637	J	759	
Chromium	4 7		12.3		8 2		12 3	
Cobalt	1 4	U	2 7	J	2 3	J	2 7	
Copper	1 8	J	9.8		6 7		9 8	
Iron	3680		5650		4770		5650	
Lead	7.7		28.8		18 3		28 8	
Magnesium	396	J	615	J	534	J	615	
Manganese	127		144		125		144	
Mercury	0 02	J	0.04		0 04		0 04	
Nickel	1 7	U	3.7	J	2.5	J	3 7	
Potassium	169	J	261	J	261	J	261	
Selenium	1.3	U	1.5	U	1.1	U	1.5	U
Silver	0 45	U	0 52	U	0.50	J	0 52	U
Sodium	75.3	UJ	74.5	UJ	66.7	UJ	74 5	U
Thallium	0.59	U	0.69	U	0.49	U	0.69	U
Vanadium	6 5		8 5		7 4		8 5	
Zinc	20 7	UJ	57.6	J	50.7	J	57 6	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0.502-01		APB-SD-2029-000.5-01		APB-SD-DU-102999A		APB-SD-2029-000.5-01-MAX	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2029		APB-SD-2029	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.0.0.5	
Date Sampled	10/29/99		10/29/99		10/29/99		10/29/99	
QC Identifier	None		Field Dup. APB-SD-2029-000.5-01		Field Dup. APB-SD-2029-000.5-01		Field Dup. APB-SD-2029-000.5-01	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D00947				D00947	
Acid Volatile Sulfide		NA	0.84681			NA	0.84681	
Cadmium		NA	0.00462	J		NA	0.00462	
Copper		NA	1.15334			NA	1.15334	
Lead		NA	0.96747			NA	0.96747	
Mercury		NA	0.00004	U		NA	0.00004	U
Nickel		NA	0.36738	J		NA	0.36738	
SEM/AVS			6.22787				6.22787	
Simultaneously Extracted Metal		NA	5.2738			NA	5.2738	
Zinc		NA	2.78099			NA	2.78099	
Total Organic Carbon Analysis (MG/KG)			D00947				D00947	
Total Organic Carbon		NA	21000			NA	21000	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0203-01		APB-SD-2034-01		APB-SD-2037-01		APC-SD-2035-0 502-01		APC-SD-2035-000 5-01	
Sample Location	APB-SD-2029		APB-SD-2034		APB-SD-2037		APC-SD-2035		APC-SD-2035	
Interval	2 0-3 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/29/99		11/3/99		10/22/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D00948		D00981		D00882		D00984		D00983	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	400	U	4800	U	4100	U	9700	U	4800	U
1,2-Dichlorobenzene	400	U	4800	U	4100	U	9700	U	4800	U
1,3-Dichlorobenzene	400	U	4800	U	4100	U	9700	U	4800	U
1,4-Dichlorobenzene	400	U	4800	U	4100	U	9700	U	4800	U
2,2'-oxybis(1-Chloropropane)	400	U	4800	U	4100	U	9700	U	4800	U
2,4,5-Trichlorophenol	990	U	12000	U	10000	U	24000	U	12000	U
2,4,6-Trichlorophenol	400	UJ	4800	U	4100	U	9700	U	4800	U
2,4-Dichlorophenol	400	U	4800	U	4100	U	9700	U	4800	U
2,4-Dimethylphenol	400	U	4800	U	4100	U	9700	U	4800	U
2,4-Dinitrophenol	990	U		R		R	24000	UJ		R
2,4-Dinitrotoluene	400	U	4800	U	4100	U	9700	U	4800	U
2,6-Dinitrotoluene	400	U	4800	U	4100	U	9700	U	4800	U
2-Chloronaphthalene	400	U	4800	U	4100	U	9700	U	4800	U
2-Chlorophenol	400	U	4800	U	4100	U	9700	U	4800	U
2-Methylnaphthalene	400	U	4800	U	4100	U	9700	U	4800	U
2-Methylphenol	400	U	4800	U	4100	U	9700	U	4800	U
2-Nitroaniline	990	U	12000	UJ	10000	U	24000	UJ	12000	UJ
2-Nitrophenol	400	U	4800	U	4100	U	9700	U	4800	U
3,3'-Dichlorobenzidine	400	UJ	4800	U	4100	U	9700	U	4800	U
3-Nitroaniline	990	U	12000	U	10000	U	24000	U	12000	U
4,6-Dinitro-2-methylphenol	990	U	12000	UJ	10000	UJ	24000	UJ	12000	UJ
4-Bromophenyl-phenylether	400	U	4800	U	4100	U	9700	U	4800	U
4-Chloro-3-methylphenol	400	U	4800	U	4100	U	9700	U	4800	U
4-Chloroaniline	400	UJ	4800	U	4100	U	9700	U	4800	U
4-Chlorophenyl-phenylether	400	U	4800	U	4100	U	9700	U	4800	U
4-Methylphenol	400	U	4800	U	4100	U	9700	U	4800	U
4-Nitroaniline	990	U	12000	UJ	10000	U	24000	U	12000	UJ
4-Nitrophenol	990	U		R	10000	UJ	24000	UJ		R
Acenaphthene	400	U	4800	U	4100	U	9700	U	4800	U
Acenaphthylene	400	U	4800	U	4100	U	9700	U	4800	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	400	U	4800	U	4100	U	9700	U	4800	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0203-01		APB-SD-2034-01		APB-SD-2037-01		APC-SD-2035-0 502-01		APC-SD-2035-000 5-01	
Sample Location	APB-SD-2029		APB-SD-2034		APB-SD-2037		APC-SD-2035		APC-SD-2035	
Interval	2 0-3 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/29/99		11/3/99		10/22/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	400	U	1100	J	4100	U	9700	U	2300	J
Benzo(a)pyrene	400	U	1200	J	430	J	1100	J	1300	J
Benzo(b)fluoranthene	400	U	1500	J	550	J	1100	J	3200	J
Benzo(g,h,i)perylene	400	U	4800	U	4100	U	9700	U	4800	U
Benzo(k)fluoranthene	400	U	1500	J	470	J	1200	J	2400	J
Bis(2-Chloroethoxy)methane	400	U	4800	U	4100	U	9700	U	4800	U
Bis(2-Chloroethyl)ether	400	U	4800	U	4100	U	9700	U	4800	U
bis(2-Ethylhexyl)phthalate	400	UJ	800	J	4100	U	1000	J	1600	J
Butylbenzylphthalate	400	UJ	4800	U	4100	U	9700	U	4800	U
Caprolactam		NA		NA		NA		NA		NA
Carbazole	400	U	4800	U	4100	U	9700	U	4800	U
Chrysene	400	U	1700	J	580	J	1300	J	3100	J
Di-n-Butylphthalate	400	U	4800	U	4100	UJ	9700	U	4800	U
Di-n-octylphthalate	400	UJ	4800	U	4100	UJ	9700	U	4800	U
Dibenzo(a,h)anthracene	400	U	4800	U	4100	U	9700	U	820	J
Dibenzofuran	400	U	4800	U	4100	U	9700	U	4800	U
Diethylphthalate	400	U	4800	U	4100	U	9700	U	4800	U
Dimethylphthalate	400	U	4800	U	4100	U	9700	U	4800	U
Fluoranthene	46	J	3100	J	740	J	1900	J	4800	
Fluorene	400	U	4800	U	4100	U	9700	U	4800	U
Hexachlorobenzene	400	U	4800	U	4100	U	9700	U	4800	U
Hexachlorobutadiene	400	U	4800	U	4100	U	9700	U	4800	U
Hexachlorocyclopentadiene	400	UJ	4800	UJ	4100	UJ	9700	UJ	4800	UJ
Hexachloroethane	400	U	4800	U	4100	U	9700	U	4800	U
Indeno(1,2,3-cd)pyrene	400	U	830	J	4100	U	9700	U	1300	J
Isophorone	400	U	4800	U	4100	U	9700	U	4800	U
N-Nitroso-di-n-propylamine	400	U	4800	U	4100	U	9700	U	4800	U
N-Nitroso-diphenylamine	400	U	4800	U	4100	U	9700	U	4800	U
Naphthalene	400	U	4800	U	4100	U	9700	U	4800	U
Nitrobenzene	400	U	4800	U	4100	U	9700	U	4800	U
Pentachlorophenol	990	UJ	12000	UJ	10000	U	24000	U	12000	UJ
Phenanthrene	400	U	1200	J	4100	U	9700	U	2200	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0203-01		APB-SD-2034-01		APB-SD-2037-01		APC-SD-2035-0.502-01		APC-SD-2035-000.5-01	
Sample Location	APB-SD-2029		APB-SD-2034		APB-SD-2037		APC-SD-2035		APC-SD-2035	
Interval	2.0-3.0		0 0-0 5		0 0-0.5		0 5-2.0		0 0-0 5	
Date Sampled	10/29/99		11/3/99		10/22/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None	
Phenol	400	U	4800	U	4100	U	9700	U	4800	U
Pyrene	400	U	2100	J	4100	U	1600	J	3500	J
Total PAH	400	U	1600		490		1200		2800	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0203-01		APB-SD-2034-01		APB-SD-2037-01		APC-SD-2035-0.502-01		APC-SD-2035-000.5-01	
Sample Location	APB-SD-2029		APB-SD-2034		APB-SD-2037		APC-SD-2035		APC-SD-2035	
Interval	2.0-3.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/29/99		11/3/99		10/22/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D00948		D00981		D00882		D00984		D00983	
4,4'-DDD	3.9	U	4.8	U	4.0	U	4.7	U	4.7	U
4,4'-DDE	3.9	U	4.8	U	31		4.7	U	4.7	U
4,4'-DDT	3.9	U	4.8	U	4.0	U	4.7	U	4.7	U
Aldrin	2.0	U	2.5	U	2.1	U	2.4	U	2.4	U
alpha-BHC	2.0	U	2.5	U	2.1	U	2.4	U	2.4	U
alpha-Chlordane	2.0	U	2.7		5.3		2.8		4.1	
Aroclor, Total	79	U	136		1200		344		216	
Aroclor-1016	39	U	48	U	40	U	47	U	47	U
Aroclor-1221	79	U	97	U	82	U	96	U	96	U
Aroclor-1232	39	U	48	U	40	U	47	U	47	U
Aroclor-1242	39	U	48	U	40	U	47	U	47	U
Aroclor-1248	39	U	16	J	40	U	44	J	36	J
Aroclor-1254	39	U	120		1200		300		180	
Aroclor-1260	39	U	48	U	40	U	47	U	47	U
beta-BHC	2.0	U	2.5	U	2.1	U	2.4	U	2.4	U
delta-BHC	2.0	U	2.5	U	2.1	U	2.4	U	2.4	U
Dieldrin	3.9	U	4.8	U	4.0	U	4.7	U	4.7	U
Endosulfan I	2.0	U	2.5	U	2.1	U	2.4	U	2.4	U
Endosulfan II	3.9	U	8.2		88		22		13	
Endosulfan Sulfate	3.9	U	4.8	U	4.0	U	4.7	U	4.7	U
Endrin	3.9	U	4.8	U	4.0	U	4.7	U	4.7	U
Endrin Aldehyde	3.9	U	4.8	U	4.0	U	4.7	U	4.7	U
Endrin Ketone	3.9	U	4.8	U	4.0	U	4.7	U	4.7	U
gamma-BHC	2.0	U	2.5	U	2.1	UJ	2.4	U	2.4	U
gamma-Chlordane	2.0	U	4.1		9.1		5.5		6.3	
Heptachlor	2.0	U	2.5	U	2.1	U	2.4	U	2.4	U
Heptachlor Epoxide	2.0	U	2.5	U	2.1	U	2.4	U	2.4	U
Methoxychlor	20	U	25	U	21	U	24	U	24	U
Toxaphene	200	U	250	U	210	U	240	U	240	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0203-01		APB-SD-2034-01		APB-SD-2037-01		APC-SD-2035-0 502-01		APC-SD-2035-000 5-01	
Sample Location	APB-SD-2029		APB-SD-2034		APB-SD-2037		APC-SD-2035		APC-SD-2035	
Interval	2 0-3 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/29/99		11/3/99		10/22/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None	
Dioxin Analysis (NG/KG)	D00948		D00981				D00984		D00983	
1,2,3,4,6,7,8-HpCDD	5 2		1120	J		NA	260		973	
1,2,3,4,6,7,8-HpCDF	1 5	J	377	J		NA	593		302	
1,2,3,4,7,8,9-HpCDF	1 6	UJ	20 9	J		NA	15 3		18 2	J
1,2,3,4,7,8-HxCDD	1 1	UJ	17 0	J		NA	5 7		12 8	
1,2,3,4,7,8-HxCDF	0 80	UJ	39 5	J		NA	36 9		39 7	
1,2,3,6,7,8-HxCDD	1 1	UJ	51 9	J		NA	20 1		41 4	
1,2,3,6,7,8-HxCDF	0 70	UJ	29 4	J		NA	32 5	J	26 5	J
1,2,3,7,8,9-HxCDD	1 1	UJ	52 5	J		NA	19 4		47 9	
1,2,3,7,8,9-HxCDF	0 80	UJ	2 8	J		NA	3 1	J	2 7	EMPC
1,2,3,7,8-PeCDD	1 0	UJ	11 8	J		NA	5 8		9 7	
1,2,3,7,8-PeCDF	0 60	UJ	11 5	J		NA	12 2		10 7	
1,2,4,5,7,8-hexachloro(9H)xanthene	0 00	UJ	3036 21	J		NA	717 71	J	3031 84	J
2,3,4,6,7,8-HxCDF	0 70	UJ	33 1	J		NA	33 2		35 7	
2,3,4,7,8-PeCDF	0 70	UJ	12 4	J		NA	12 1		14 3	
2,3,7,8-TCDD	36 4		2010	J$		NA	690	$	3110	$
2,3,7,8-TCDF	0.50	UJ	29 1	J		NA	23 4		27 5	
OCDD	28 1		3840	J$		NA	1620		6180	$
OCDF	2 5	UJ	618	J		NA	353		454	J
Total HpCDD	9 9	J	2190	J		NA	536	J	1850	J
Total HpCDF	3 8	J	824	J		NA	1040	J	702	J
Total HxCDD	1.1	UJ	402	J		NA	192	J	331	J
Total HxCDF	0 77	J	663	J		NA	699	J	616	J
Total PeCDD	1.0	UJ	84.2	J		NA	48.5	J	76.6	J
Total PeCDF	0.70	UJ	378	J		NA	373	J	371	J
Total TCDD	36.4	J	2010	J$		NA	690	J$	3110	J$
Total TCDF	0.50	UJ	322	J		NA	298	J	267	J
Toxicity Equivalency	37 5		2070			NA	729		3160	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0203-01		APB-SD-2034-01		APB-SD-2037-01		APC-SD-2035-0 502-01		APC-SD-2035-000 5-01	
Sample Location	APB-SD-2029		APB-SD-2034		APB-SD-2037		APC-SD-2035		APC-SD-2035	
Interval	2 0-3.0		0 0-0.5		0.0-0.5		0.5-2 0		0 0-0.5	
Date Sampled	10/29/99		11/3/99		10/22/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None	
TAL Metal Analysis (MG/KG)	D00948		D00981		D00882		D00984		D00983	
Aluminum	2150		15100		14000		10800		11700	
Antimony	0 65	UJ	2 4	J	3 5		3 0	J	2 5	J
Arsenic	0.61	U	8 9		5.0		5 6		5 7	
Barium	10.5		266		145		117		204	
Beryllium	0.22		4 2		2.6		1 4		2.7	
Cadmium	0.07	U	1 5		0.17		0 99		0 57	
Calcium	765	J	2190		4120		1160		1970	
Chromium	4.1		176		248		147		178	
Cobalt	1.1	U	13 8		7.1		6 0		8.3	
Copper	2.4		195		388		86.6		156	
Iron	3550		24400		16200		12800		16300	
Lead	4 6		350		719		199		411	
Magnesium	408	J	2540		2580		1240		2010	
Manganese	49 9		773		572		283		435	
Mercury	0 01	J	0 38	J	1 3		0 47	J	0 45	J
Nickel	1.4	J	70 8		29.8		15 3		30 6	
Potassium	254	J	1050	J	862		657	J	810	J
Selenium	1.0	U	2 1	J	1.6	J	0 94	J	1 1	J
Silver	0.35	U	8 8	J	5 9		4 4	UJ	7 2	J
Sodium	68 7	UJ	311	UJ	234		127	UJ	247	UJ
Thallium	0.46	U	0.84	U	0.47	J	0.46	U	0.61	U
Vanadium	5 2		55.5		39 4		27.7		43.3	
Zinc	11.6	UJ	711		237		316		364	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SD-2029-0203-01		APB-SD-2034-01		APB-SD-2037-01		APC-SD-2035-0 502-01		APC-SD-2035-000 5-01	
Sample Location	APB-SD-2029		APB-SD-2034		APB-SD-2037		APC-SD-2035		APC-SD-2035	
Interval	2 0-3 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/29/99		11/3/99		10/22/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D00981		D00882				D00983	
Acid Volatile Sulfide		NA	5 38297		0.12164	U		NA	1 23183	
Cadmium		NA	0 02999	J	0.0065	J		NA	0 00858	J
Copper		NA	2 59186		5.61336	J		NA	2 16008	
Lead		NA	1 70106		2.6596			NA	1 97198	
Mercury		NA	0 00012	UJ	0.0022			NA	0 00008	UJ
Nickel		NA	1.25858	J	2.61531	J		NA	0 41283	J
SEM/AVS			3.25928		126.7502				7.69236	
Simultaneously Extracted Metal		NA	17 54462		15 41746			NA	9 47571	
Zinc		NA	11 96308		4 32049			NA	4 92221	
Total Organic Carbon Analysis (MG/KG)			D00981		D00882				D00983	
Total Organic Carbon		NA	121000		99400			NA	80900	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2035-0204-01		APC-SD-2035-0405-01		APC-SD-2036-01		APC-DU-110399B	
Sample Location	APC-SD-2035		APC-SD-2035		APC-SD-2036		APC-SD-2036	
Interval	2.0-4.0		4.0-5.0		0.0-0.5		0.0-0.5	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		Field Dup. APC-SD-2036-01		Field Dup. APC-SD-2036-01	
Semivolatile Organic Analysis (UG/KG)	D00985		D00986		D00982		D00987	
1,1'-Biphenyl		NA		NA		NA		NA
1,2,4-Trichlorobenzene	960	U	420	UJ	9700	U	4900	U
1,2-Dichlorobenzene	960	U	420	U	9700	U	4900	U
1,3-Dichlorobenzene	960	U	420	U	9700	U	4900	U
1,4-Dichlorobenzene	960	U	420	U	9700	U	4900	U
2,2'-oxybis(1-Chloropropane)	960	U	420	U	9700	U	4900	U
2,4,5-Trichlorophenol	2400	U	1000	U	24000	U	12000	U
2,4,6-Trichlorophenol	960	U	420	U	9700	U	4900	U
2,4-Dichlorophenol	960	U	420	U	9700	U	4900	U
2,4-Dimethylphenol	960	U	420	U	9700	U	4900	U
2,4-Dinitrophenol	2400	UJ		R		R		R
2,4-Dinitrotoluene	960	U	420	U	9700	U	4900	U
2,6-Dinitrotoluene	960	U	420	U	9700	U	4900	U
2-Chloronaphthalene	960	U	420	U	9700	U	4900	U
2-Chlorophenol	960	U	420	U	9700	U	4900	U
2-Methylnaphthalene	960	U	420	U	9700	U	4900	U
2-Methylphenol	960	U	420	U	9700	U	4900	U
2-Nitroaniline	2400	UJ	1000	UJ	24000	UJ	12000	UJ
2-Nitrophenol	960	U	420	U	9700	U	4900	U
3,3'-Dichlorobenzidine	960	U	420	U	9700	U	4900	U
3-Nitroaniline	2400	U	1000	U	24000	U	12000	U
4,6-Dinitro-2-methylphenol	2400	UJ	1000	UJ	24000	UJ	12000	UJ
4-Bromophenyl-phenylether	960	U	420	U	9700	U	4900	U
4-Chloro-3-methylphenol	960	U	420	U	9700	U	4900	U
4-Chloroaniline	960	U	420	U	9700	U	4900	U
4-Chlorophenyl-phenylether	960	U	420	U	9700	U	4900	U
4-Methylphenol	960	U	420	U	9700	U	4900	U
4-Nitroaniline	2400	U	1000	UJ	24000	UJ	12000	UJ
4-Nitrophenol	2400	UJ		R		R		R
Acenaphthene	960	U	420	U	9700	U	4900	U
Acenaphthylene	960	U	420	U	9700	U	4900	U
Acetophenone		NA		NA		NA		NA
Anthracene	960	U	420	U	9700	U	4900	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2035-0204-01		APC-SD-2035-0405-01		APC-SD-2036-01		APC-DU-110399B	
Sample Location	APC-SD-2035		APC-SD-2035		APC-SD-2036		APC-SD-2036	
Interval	2.0-4.0		4.0-5.0		0.0-0.5		0.0-0.5	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		Field Dup. APC-SD-2036-01		Field Dup. APC-SD-2036-01	
Atrazine		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA
Benzo(a)anthracene	960	U	47	J	2100	J	960	J
Benzo(a)pyrene	960	U	420	UJ	2200	J	840	J
Benzo(b)fluoranthene	960	U	55	J	3400	J	1600	J
Benzo(g,h,i)perylene	960	U	420	UJ	9700	UJ	4900	UJ
Benzo(k)fluoranthene	960	U	68	J	2100	J	1100	J
Bis(2-Chloroethoxy)methane	960	U	420	UJ	9700	UJ	4900	UJ
Bis(2-Chloroethyl)ether	960	U	420	UJ	9700	UJ	4900	UJ
bis(2-Ethylhexyl)phthalate	960	U	93	J	5800	J	1800	J
Butylbenzylphthalate	960	U	420	UJ	1100	J	4900	UJ
Caprolactam		NA		NA		NA		NA
Carbazole	960	U	420	UJ	9700	UJ	4900	UJ
Chrysene	960	U	66	J	2900	J	1500	J
Di-n-Butylphthalate	960	U	420	UJ	9700	UJ	4900	UJ
Di-n-octylphthalate	960	U	420	UJ	9700	UJ	4900	UJ
Dibenzo(a,h)anthracene	960	U	420	UJ	9700	UJ	4900	UJ
Dibenzofuran	960	U	420	UJ	9700	UJ	4900	UJ
Diethylphthalate	960	U	420	UJ	9700	UJ	4900	UJ
Dimethylphthalate	960	U	420	UJ	9700	UJ	4900	UJ
Fluoranthene	960	U	110	J	5300	J	2500	J
Fluorene	960	U	420	UJ	9700	UJ	4900	UJ
Hexachlorobenzene	960	U	420	UJ	9700	UJ	4900	UJ
Hexachlorobutadiene	960	U	420	UJ	9700	UJ	4900	UJ
Hexachlorocyclopentadiene	960	UJ	420	UJ	9700	UJ	4900	UJ
Hexachloroethane	960	U	420	UJ	9700	UJ	4900	UJ
Indeno(1,2,3-cd)pyrene	960	U	420	UJ	1600	J	710	J
Isophorone	960	U	420	UJ	9700	UJ	4900	UJ
N-Nitroso-di-n-propylamine	960	U	420	UJ	9700	UJ	4900	UJ
N-Nitroso-diphenylamine	960	U	420	UJ	9700	UJ	4900	UJ
Naphthalene	960	U	420	UJ	9700	UJ	4900	UJ
Nitrobenzene	960	UJ	420	UJ	9700	UJ	4900	UJ
Pentachlorophenol	2400	U	1000	UJ	24000	UJ	12000	UJ
Phenanthrene	960	UJ	46	J	1700	J	910	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2035-0204-01		APC-SD-2035-0405-01		APC-SD-2036-01		APC-DU-110399B	
Sample Location	APC-SD-2035		APC-SD-2035		APC-SD-2036		APC-SD-2036	
Interval	2.0-4.0		4.0-5.0		0.0-0.5		0.0-0.5	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		Field Dup. APC-SD-2036-01		Field Dup. APC-SD-2036-01	
Phenol	960	U	420	U	9700	U	4900	U
Pyrene	960	U	67	J	3800	J	1800	J
Total PAH	960	U	11		2900		1200	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2035-0204-01		APC-SD-2035-0405-01		APC-SD-2036-01		APC-DU-110399B	
Sample Location	APC-SD-2035		APC-SD-2035		APC-SD-2036		APC-SD-2036	
Interval	2.0-4.0		4.0-5.0		0.0-0.5		0.0-0.5	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		Field Dup. APC-SD-2036-01		Field Dup. APC-SD-2036-01	
Pesticide/PCB Analysis (UG/KG)	D00985		D00986		D00982		D00987	
4,4'-DDD	4.8	U	4.2	U	4.8	U	4.9	U
4,4'-DDE	4.8	U	4.2	U	4.9		4.9	U
4,4'-DDT	4.8	U	4.2	U	4.8	U	4.9	U
Aldrin	2.5	U	2.2	UJ	2.5	U	2.5	U
alpha-BHC	2.5	U	2.2	U	2.5	U	2.5	U
alpha-Chlordane	2.5	U	2.2	U	3.3		2.5	U
Aroclor, Total	22		25		183		77	
Aroclor-1016	48	U	42	U	48	U	49	U
Aroclor-1221	97	U	86	U	97	U	99	U
Aroclor-1232	48	U	42	U	48	U	49	U
Aroclor-1242	48	U	42	U	48	U	49	U
Aroclor-1248	48	U	42	U	23	J	49	U
Aroclor-1254	22	J	25	J	160	J	77	J
Aroclor-1260	48	U	42	U	48	U	49	U
beta-BHC	2.5	U	2.2	U	2.5	U	2.5	U
delta-BHC	2.5	U	2.2	U	2.5	U	2.5	U
Dieldrin	4.8	U	4.2	U	4.8	U	4.9	U
Endosulfan I	2.5	U	2.2	U	2.5	U	2.5	U
Endosulfan II	4.8	U	4.2	U	8.8	J	4.9	J
Endosulfan Sulfate	4.8	U	4.2	U	4.8	U	4.9	U
Endrin	4.8	U	4.2	UJ	4.8	U	4.9	U
Endrin Aldehyde	4.8	U	4.2	U	4.8	U	4.9	U
Endrin Ketone	4.8	U	4.2	U	4.8	U	4.9	U
gamma-BHC	2.5	U	2.2	UJ	2.5	U	2.5	U
gamma-Chlordane	2.5	U	2.2	U	4.7		2.5	U
Heptachlor	2.5	U	2.2	UJ	2.5	U	2.5	U
Heptachlor Epoxide	2.5	U	2.2	U	2.5	U	2.5	U
Methoxychlor	25	U	22	U	25	U	25	U
Toxaphene	250	U	220	U	250	U	250	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2035-0204-01		APC-SD-2035-0405-01		APC-SD-2036-01		APC-DU-110399B	
Sample Location	APC-SD-2035		APC-SD-2035		APC-SD-2036		APC-SD-2036	
Interval	2.0-4.0		4.0-5.0		0.0-0.5		0.0-0.5	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		Field Dup. APC-SD-2036-01		Field Dup. APC-SD-2036-01	
Dioxin Analysis (NG/KG)	D00985		D00986		D00982		D00987	
1,2,3,4,6,7,8-HpCDD	14.3		14.7		1410		1320	J
1,2,3,4,6,7,8-HpCDF	54.5		15.0		389		400	J
1,2,3,4,7,8,9-HpCDF	1.3	J	1.2	U	25.6		26.5	EMPC
1,2,3,4,7,8-HxCDD	0.76	J	0.93	J	20.1		18.5	J
1,2,3,4,7,8-HxCDF	3.4	U	2.3	U	44.0		40.7	J
1,2,3,6,7,8-HxCDD	2.2	U	1.9	U	53.8		61.4	J
1,2,3,6,7,8-HxCDF	2.6	J	1.1	EMPC	31.4	J	33.4	J
1,2,3,7,8,9-HxCDD	2.2	J	1.7	J	62.8		60.8	J
1,2,3,7,8,9-HxCDF	0.70	U	0.70	U	3.6	J	3.3	UJ
1,2,3,7,8-PeCDD	0.90	U	0.70	U	12.4		11.7	J
1,2,3,7,8-PeCDF	0.96	J	1.3	J	12.1		11.2	J
1,2,4,5,7,8-hexachloro(9H)xanthene	11.02	J	6.73	J	2865.39	J	2351.38	J
2,3,4,6,7,8-HxCDF	2.5	J	1.4	J	42.7		35.2	J
2,3,4,7,8-PeCDF	1.6	J	1.1	J	15.1		13.4	EMPC
2,3,7,8-TCDD	41.8		46.8		3270	$	2070	J$
2,3,7,8-TCDF	2.8		2.4		29.3		33.7	J
OCDD	71.4		97.2		8300	$	5930	J$
OCDF	26.1		9.8	J	672		683	J
Total HpCDD	29.1	J	28.3	J	2660	J	2630	J
Total HpCDF	93.5	J	26.0	J	958	J	902	J
Total HxCDD	20.0	UJ	14.1	UJ	430	J	489	J
Total HxCDF	50.6	J	19.6	J	715	J	647	J
Total PeCDD	9.8	EMPC	8.1	UJ	52.0	J	44.6	J
Total PeCDF	15.9	J	12.7	J	351	J	340	J
Total TCDD	48.3	J	50.5	J	3270	J$	2070	J$
Total TCDF	12.5	J	10.9	J	331	J	392	J
Toxicity Equivalency	45.2		49.1		3340		2140	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2035-0204-01		APC-SD-2035-0405-01		APC-SD-2036-01		APC-DU-110399B	
Sample Location	APC-SD-2035		APC-SD-2035		APC-SD-2036		APC-SD-2036	
Interval	2 0-4 0		4 0-5 0		0 0-0 5		0 0-0 5	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		Field Dup. APC-SD-2036-01		Field Dup. APC-SD-2036-01	
TAL Metal Analysis (MG/KG)	D00985		D00986		D00982		D00987	
Aluminum	9250		4720		14700		16200	
Antimony	0.72	UJ	0.48	UJ	2.7	J	3.3	J
Arsenic	2.3		0.81	J	8.8		9.7	
Barium	24.2	U	14.1	U	290		326	
Beryllium	1.0		0.50		4.0		4.6	
Cadmium	0.11	U	0.07	U	3.6		3.7	
Calcium	556		313		2940		3280	
Chromium	15.8		6.4		183		212	
Cobalt	3.8	J	1.7	J	14.9		16.2	
Copper	4.2		1.8	J	212		227	
Iron	14300		10000		23900		26300	
Lead	15.0		7.3		389		449	
Magnesium	509		694		2450		2720	
Manganese	177		116		763		861	
Mercury	0.04	J	0.02	J	0.66	J	0.54	J
Nickel	3.2	J	1.7	J	86.4		90.6	
Potassium	259	J	497	J	1080	J	1150	J
Selenium	0.98	U	0.65	U	1.9	J	1.5	J
Silver	4.1	UJ	3.5	UJ	9.9	J	9.8	J
Sodium	90.7	UJ	50.2	UJ	310	UJ	340	UJ
Thallium	0.79	U	0.52	U	0.88	U	0.81	U
Vanadium	20.6		10.9		49.6		55.4	
Zinc	67.0		27.3	U	930		943	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2035-0204-01		APC-SD-2035-0405-01		APC-SD-2036-01		APC-DU-110399B	
Sample Location	APC-SD-2035		APC-SD-2035		APC-SD-2036		APC-SD-2036	
Interval	2 0-4 0		4 0-5 0		0 0-0 5		0 0-0 5	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		Field Dup APC-SD-2036-01		Field Dup APC-SD-2036-01	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)					D00982		D00987	
Acid Volatile Sulfide		NA		NA	24 88106		28 81892	
Cadmium		NA		NA	0 02949	J	0 03878	J
Copper		NA		NA	2 74851		3 23498	
Lead		NA		NA	1 99785		2 43011	
Mercury		NA		NA	0 00012	UJ	0 00014	UJ
Nickel		NA		NA	1 339	J	1 89075	J
SEM/AVS					0 69374		0 74943	
Simultaneously Extracted Metal		NA		NA	17 26087		21 59769	
Zinc		NA		NA	11 146		14 00306	
Total Organic Carbon Analysis (MG/KG)					D00982		D00987	
Total Organic Carbon		NA		NA	118000		133000	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2036-01-MAX		CMW-SD-2016-01		CMW-SD-2018-01		CMW-SD-2023-01		CMW-SD-2024-01	
Sample Location	APC-SD-2036		CMW-SD-2016		CMW-SD-2018		CMW-SD-2023		CMW-SD-2024	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/3/99		10/26/99		10/26/99		10/27/99		10/27/99	
QC Identifier	Field Dup. APC-SD-2036-01		None		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D00987		D00911		D00907		D00914		D00918	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	9700	U	800	U	2100	U	2300	U	2300	UJ
1,2-Dichlorobenzene	9700	U	800	U	2100	U	2300	U	2300	U
1,3-Dichlorobenzene	9700	U	800	U	2100	U	2300	U	2300	U
1,4-Dichlorobenzene	9700	U	800	U	2100	U	2300	U	2300	UJ
2,2'-oxybis(1-Chloropropane)	9700	U	800	U	2100	U	2300	U	2300	U
2,4,5-Trichlorophenol	24000	U	2000	U	5300	U	5800	U	5700	U
2,4,6-Trichlorophenol	9700	U	800	U	2100	U	2300	U	2300	U
2,4-Dichlorophenol	9700	U	800	U	2100	U	2300	U	2300	U
2,4-Dimethylphenol	9700	U	800	U	2100	U	2300	U	2300	U
2,4-Dinitrophenol		NA	2000	UJ	5300	UJ	5800	UJ		R
2,4-Dinitrotoluene	9700	U	800	U	2100	U	2300	U	2300	U
2,6-Dinitrotoluene	9700	U	800	U	2100	U	2300	U	2300	U
2-Chloronaphthalene	9700	U	800	U	2100	U	2300	U	2300	U
2-Chlorophenol	9700	U	800	U	2100	U	2300	U	2300	U
2-Methylnaphthalene	9700	U	800	U	2100	U	2300	U	2300	U
2-Methylphenol	9700	U	800	U	2100	U	2300	U	2300	U
2-Nitroaniline	24000	U	2000	U	5300	U	5800	U	5700	UJ
2-Nitrophenol	9700	U	800	U	2100	U	2300	U	2300	U
3,3'-Dichlorobenzidine	9700	U	800	UJ	2100	UJ	2300	UJ	2300	U
3-Nitroaniline	24000	U	2000	U	5300	U	5800	U	5700	UJ
4,6-Dinitro-2-methylphenol	24000	U	2000	U	5300	U	5800	U	5700	UJ
4-Bromophenyl-phenylether	9700	U	800	U	2100	U	2300	U	2300	U
4-Chloro-3-methylphenol	9700	U	800	U	2100	U	2300	U	2300	U
4-Chloroaniline	9700	U	800	U	2100	U	2300	U	2300	U
4-Chlorophenyl-phenylether	9700	U	800	U	2100	U	2300	U	2300	U
4-Methylphenol	9700	U	800	U	2100	U	2300	U	2300	U
4-Nitroaniline	24000	U	2000	U	5300	U	5800	U	5700	UJ
4-Nitrophenol		NA	2000	UJ	5300	UJ	5800	UJ		R
Acenaphthene	9700	U	170	J	940	J	310	J	2300	U
Acenaphthylene	9700	U	800	U	2100	U	2300	U	2300	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	9700	U	350	J	2400		640	J	2300	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2036-01-MAX		CMW-SD-2016-01		CMW-SD-2018-01		CMW-SD-2023-01		CMW-SD-2024-01	
Sample Location	APC-SD-2036		CMW-SD-2016		CMW-SD-2018		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/3/99		10/26/99		10/26/99		10/27/99		10/27/99	
QC Identifier	Field Dup. APC-SD-2036-01		None		None		None		None	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	2100		1800		8500		3000		1400	J
Benzo(a)pyrene	2200		1700		8900		2900		1300	J
Benzo(b)fluoranthene	3400		1900		7800		2400		1600	J
Benzo(g,h,i)perylene	9700	U	1000		5300		1300	J	710	J
Benzo(k)fluoranthene	2100		1400		8800		3000		1400	J
Bis(2-Chloroethoxy)methane	9700	U	800	U	2100	U	2300	U	2300	U
Bis(2-Chloroethyl)ether	9700	U	800	U	2100	U	2300	U	2300	U
bis(2-Ethylhexyl)phthalate	5800		800	U	2100	UJ	2300	UJ	2300	U
Butylbenzylphthalate	4900	U	94	J	2100	UJ	2300	UJ	2300	U
Caprolactam		NA		NA		NA		NA		NA
Carbazole	9700	U	440	J	2000	J	630	J	280	J
Chrysene	2900		2200		11000		3700		1800	J
Di-n-Butylphthalate	9700	U	800	U	2100	U	2300	U	2300	U
Di-n-octylphthalate	9700	U	800	UJ	2100	UJ	2300	UJ	2300	U
Dibenzo(a,h)anthracene	9700	U	390	J	2200		740	J	400	J
Dibenzofuran	9700	U	120	J	530	J	2300	U	2300	U
Diethylphthalate	9700	U	800	U	2100	U	2300	U	2300	U
Dimethylphthalate	9700	U	800	U	2100	U	2300	U	2300	U
Fluoranthene	5300		4500		24000		7400		3900	
Fluorene	9700	U	200	J	1300	J	350	J	2300	U
Hexachlorobenzene	9700	U	800	U	2100	U	2300	U	2300	U
Hexachlorobutadiene	9700	U	800	UJ	2100	UJ	2300	UJ	2300	U
Hexachlorocyclopentadiene	9700	U	800	U	2100	U	2300	U	2300	UJ
Hexachloroethane	9700	U	800	U	2100	U	2300	U	2300	U
Indeno(1,2,3-cd)pyrene	1600		1000		5300		1900	J	940	J
Isophorone	9700	U	800	U	2100	U	2300	U	2300	U
N-Nitroso-di-n-propylamine	9700	U	800	U	2100	U	2300	U	2300	U
N-Nitroso-diphenylamine	9700	U	800	U	2100	U	2300	U	2300	U
Naphthalene	9700	U	800	U	2100	U	2300	U	2300	U
Nitrobenzene	9700	U	800	U	2100	U	2300	U	2300	U
Pentachlorophenol	24000	U	2000	UJ	5300	UJ	5800	UJ	5700	UJ
Phenanthrene	1700		2700		14000		3900		1800	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2036-01-MAX		CMW-SD-2016-01		CMW-SD-2018-01		CMW-SD-2023-01		CMW-SD-2024-01	
Sample Location	APC-SD-2036		CMW-SD-2016		CMW-SD-2018		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/3/99		10/26/99		10/26/99		10/27/99		10/27/99	
QC Identifier	Field Dup. APC-SD-2036-01		None		None		None		None	
Phenol	9700	U	800	U	2100	U	2300	U	2300	U
Pyrene	3800		4000		23000		6300		2700	
Total PAH	2900		2600		13000		4400		2100	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2036-01-MAX		CMW-SD-2016-01		CMW-SD-2018-01		CMW-SD-2023-01		CMW-SD-2024-01	
Sample Location	APC-SD-2036		CMW-SD-2016		CMW-SD-2018		CMW-SD-2023		CMW-SD-2024	
Interval	0.0-0.5		0 0-0 5		0.0-0.5		0 0-0.5		0 0-0 5	
Date Sampled	11/3/99		10/26/99		10/26/99		10/27/99		10/27/99	
QC Identifier	Field Dup APC-SD-2036-01		None		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D00987		D00911		D00907		D00914		D00918	
4,4'-DDD	4 9	U	4.0	U	4.2	U	4.6	U	4 6	U
4,4'-DDE	4 9		4.0	U	4 2	U	4 6	U	4 6	U
4,4'-DDT	4 9	U	4.0	U	4 2	U	4 6	U	4 6	UJ
Aldrin	2 5	U	2.1	U	2 2	U	2 4	U	2 3	UJ
alpha-BHC	2.5	U	2.1	U	2 2	U	2.4	U	2 3	U
alpha-Chlordane	3.3		2.1	U	2 2	U	10		4.2	
Aroclor, Total	49		81	U	26		94	U	315	
Aroclor-1016	49	U	40	U	42	U	46	U	46	U
Aroclor-1221	99	U	81	U	85	U	94	U	93	U
Aroclor-1232	49	U	40	U	42	U	46	U	46	U
Aroclor-1242	49	U	40	U	42	U	46	U	46	U
Aroclor-1248	49	U	40	U	26	J	46	U	85	
Aroclor-1254	160		40	U	42	U	46	U	230	
Aroclor-1260	49	U	40	U	42	U	46	U	46	U
beta-BHC	2.5	U	2.1	U	2 2	U	2.4	U	2 3	U
delta-BHC	2 5	U	2.1	U	2 2	U	2 4	U	2 3	U
Dieldrin	4 9	U	4 0	U	4 2	U	4 6	U	4 6	UJ
Endosulfan I	2 5	U	2 1	U	2 2	U	2 4	U	2 3	U
Endosulfan II	8 6		4 0	U	4 2	U	4 6	U	16	
Endosulfan Sulfate	4 9	U	4.0	U	4 2	U	4 6	U	4 6	U
Endrin	4 9	U	4.0	U	4.2	U	4 6	U	4 6	U
Endrin Aldehyde	4 9	U	4.0	U	4.2	U	4 6	U	4 6	U
Endrin Ketone	4 9	U	4.0	U	6.5		4 6	U	4 6	U
gamma-BHC	2.5	U	2.1	U	2.2	U	2 4	U	2 3	U
gamma-Chlordane	4.7		2 5		4 5		13		11	
Heptachlor	2 5	U	2.1	U	2 2	U	2 4	U	2 3	UJ
Heptachlor Epoxide	2 5	U	2.1	U	2 2	U	2 4	U	2 3	U
Methoxychlor	25	U	21	U	22	U	24	U	23	U
Toxaphene	250	U	210	U	220	U	240	U	230	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2036-01-MAX		CMW-SD-2016-01		CMW-SD-2018-01		CMW-SD-2023-01		CMW-SD-2024-01	
Sample Location	APC-SD-2036		CMW-SD-2016		CMW-SD-2018		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/3/99		10/26/99		10/26/99		10/27/99		10/27/99	
QC Identifier	Field Dup. APC-SD-2036-01		None		None		None		None	
Dioxin Analysis (NG/KG)	D00982		D00911		D00907		D00914		D00918	
1,2,3,4,6,7,8-HpCDD	1410		56 8		99 1		206	J	269	
1,2,3,4,6,7,8-HpCDF	389		14 7		17 8		41 2	J	99 0	
1,2,3,4,7,8,9-HpCDF	25 6		0 91	EMPC	1 4	U	3 3	J	6 4	
1,2,3,4,7,8-HxCDD	20 1		1 4	J	2 0	J	3 2	EMPC	5 1	
1,2,3,4,7,8-HxCDF	44 0		1 8	J	3 1	J	4 6	J	10 3	
1,2,3,6,7,8-HxCDD	53 8		3 6	J	5 7		9 4	J	13 0	
1,2,3,6,7,8-HxCDF	33 4		1 2	J	2 1	J	3 3	J	7 7	
1,2,3,7,8,9-HxCDD	62 8		4 2	J	8 2		10 9	J	14 2	
1,2,3,7,8,9-HxCDF	3 6		1 2	J	2 6	J	4 2	J	8 0	
1,2,3,7,8-PeCDD	12 4		1 2	EMPC	2 6	J	3 2	J	4 6	J
1,2,3,7,8-PeCDF	12 1		1 1	J	0 80	U	5 1	EMPC	12 3	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	2865 39		0 00	U	2 52	J	2 48	J	232 88	J
2,3,4,6,7,8-HxCDF	42 7		0 40	U	0 90	U	0 80	UJ	0 60	U
2,3,4,7,8-PeCDF	15 1		0 93	J	1 1	EMPC	2 5	EMPC	4 4	J
2,3,7,8-TCDD	3270		1 2	U	21 5		20 9	J	747	$
2,3,7,8-TCDF	29 3		1 5		3 5		7 1	J	7 3	
OCDD	8300		378	EB	742	EB	1440	JEB	1790	EB
OCDF	672		27 5	EB	40 1	EB	96 4	JEB	167	EB
Total HpCDD	2660		103	J	185	J	382	J	514	J
Total HpCDF	958		31 9	J	43 8	J	101	J	216	J
Total HxCDD	489		27 1	JEB	46 9	JEB	68 4	JEB	106	JEB
Total HxCDF	715		19 0	J	33 0	J	60 1	J	149	J
Total PeCDD	52 0		8 8	J	12 4	J	14 4	J	15 1	J
Total PeCDF	351		8 8	J	6 3	J	30 9	J	88 5	J
Total TCDD	3270		3 4	J	21 5	J	23 5	J	747	J$
Total TCDF	392		6 1	J	11 2	J	42 9	J	65 2	J
Toxicity Equivalency	3340		4 6		28 7		32 6		765	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2036-01-MAX		CMW-SD-2016-01		CMW-SD-2018-01		CMW-SD-2023-01		CMW-SD-2024-01	
Sample Location	APC-SD-2036		CMW-SD-2016		CMW-SD-2018		CMW-SD-2023		CMW-SD-2024	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/3/99		10/26/99		10/26/99		10/27/99		10/27/99	
QC Identifier	Field Dup. APC-SD-2036-01		None		None		None		None	
TAL Metal Analysis (MG/KG)	D00982		D00911		D00907		D00914		D00916	
Aluminum	16200		1640		1260		4340		3970	
Antimony	3.3		0.52	UJ	0.58	UJ	0.90	UJ	1.0	UJ
Arsenic	9.7		2.4		0.54	U	3.3		2.4	
Barium	326		12.4		9.8		45.6		48.9	
Beryllium	4.6		0.13	UJ	0.21	U	0.55	U	1.0	
Cadmium	3.7		0.06	U	0.06	UJ	0.10	U	0.70	
Calcium	3280		447	UJ	533	UJ	1800	J	1400	J
Chromium	212		10.7		2.5	J	33.8		43.0	
Cobalt	16.2		1.5	J	1.0	J	2.4	J	4.0	
Copper	227		9.4		5.5		29.1		41.5	
Iron	26300		9880		3200		6750		6280	
Lead	449		91.9		41.9		69.3		94.8	
Magnesium	2720		562	J	585	J	1460	J	731	J
Manganese	861		128		39.1		104		115	
Mercury	0.66		0.02	U	0.03		3.6		0.24	
Nickel	90.6		5.1		2.0	J	6.3		11.1	
Potassium	1150		390	J	277	UJ	991	J	433	J
Selenium	1.9		0.79	U	0.88	U	1.4	U	1.5	U
Silver	9.9		2.7		0.91	U	1.9	U	2.3	U
Sodium	340	U	19.9	UJ	55.1	UJ	127	UJ	150	UJ
Thallium	0.88	U	0.36	U	0.43	UJ	0.63	U	0.70	U
Vanadium	55.4		5.1		2.5	U	11.3		16.8	
Zinc	943		77.7	J	93.8	J	118	J	261	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SD-2036-01-MAX		CMW-SD-2016-01		CMW-SD-2018-01		CMW-SD-2023-01		CMW-SD-2024-01	
Sample Location	APC-SD-2036		CMW-SD-2016		CMW-SD-2018		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/3/99		10/26/99		10/26/99		10/27/99		10/27/99	
QC Identifier	Field Dup. APC-SD-2036-01		None		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D00982		D00911		D00907		D00914		D00918	
Acid Volatile Sulfide	28 81892		0 04436	U	0 14665		7 24483		7 56	
Cadmium	0 03878		0 00101	U	0 00192	J	0 00578	J	0 00376	
Copper	3 23498		0 30684		0 35808		1 05659		0 45867	
Lead	2 43011		0 1757		0.213		0.38603		0 28007	
Mercury	0 00014	U	0 00003	U	0 00003	U	0 00005	U	0 00004	U
Nickel	1 89075		0 08334	J	0 60318	J	1.5665	J	0 24696	J
SEM/AVS	0.74943		37.41196		14.91677		0 6362		0.35052	
Simultaneously Extracted Metal	21 59769		1 65951		2 18757		4 60918		2 65124	
Zinc	14.00306		1.09279		1.01138		1.59423		1.66378	
Total Organic Carbon Analysis (MG/KG)	D00982		D00911		D00907		D00914		D00918	
Total Organic Carbon	133000		8350		4800		37500		28200	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2019-01		CMW-SD-2020-01	
Sample Location	CMW-SD-2019		CMW-SD-2020	
Interval	0 0-0 5		0 0-0 5	
Date Sampled	10/26/99		10/26/99	
QC Identifier	None		None	
Semivolatile Organic Analysis (UG/KG)	D00906		D00904	
1,2,4-Trichlorobenzene	950	U	460	U
1,2-Dichlorobenzene	950	U	460	U
1,3-Dichlorobenzene	950	U	460	U
1,4-Dichlorobenzene	950	U	460	U
2,2'-oxybis(1-Chloropropane)	950	U	460	U
2,4,5-Trichlorophenol	2400	U	1200	U
2,4,6-Trichlorophenol	950	U	460	U
2,4-Dichlorophenol	950	U	460	U
2,4-Dimethylphenol	950	U	460	U
2,4-Dinitrophenol	2400	UJ	1200	UJ
2,4-Dinitrotoluene	950	U	460	U
2,6-Dinitrotoluene	950	U	460	U
2-Chloronaphthalene	950	U	460	U
2-Chlorophenol	950	U	460	U
2-Methylnaphthalene	950	U	460	U
2-Methylphenol	950	U	460	U
2-Nitroaniline	2400	U	1200	U
2-Nitrophenol	950	U	460	U
3,3'-Dichlorobenzidine	950	UJ	460	UJ
3-Nitroaniline	2400	U	1200	U
4,6-Dinitro-2-methylphenol	2400	U	1200	U
4-Bromophenyl-phenylether	950	U	460	U
4-Chloro-3-methylphenol	950	U	460	U
4-Chloroaniline	950	U	460	U
4-Chlorophenyl-phenylether	950	U	460	U
4-Methylphenol	950	U	460	U
4-Nitroaniline	2400	U	1200	U
4-Nitrophenol	2400	UJ	1200	UJ
Acenaphthene	950	U	460	U
Acenaphthylene	950	U	460	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2019-01		CMW-SD-2020-01	
Sample Location	CMW-SD-2019		CMW-SD-2020	
Interval	0.0-0.5		0.0-0.5	
Date Sampled	10/26/99		10/26/99	
QC Identifier	None		None	
Anthracene	950	U	460	U
Benzo(a)anthracene	520	J	240	J
Benzo(a)pyrene	600	J	250	J
Benzo(b)fluoranthene	820	J	230	J
Benzo(g,h,i)perylene	490	J	190	J
Benzo(k)fluoranthene	540	J	300	J
Bis(2-Chloroethoxy)methane	950	U	460	U
Bis(2-Chloroethyl)ether	950	U	460	U
bis(2-Ethylhexyl)phthalate	950	U	460	U
Butylbenzylphthalate	950	UJ	460	UJ
Carbazole	950	U	51	J
Chrysene	850	J	380	J
Di-n-Butylphthalate	950	U	49	J
Di-n-octylphthalate	950	UJ	460	UJ
Dibenzo(a,h)anthracene	180	J	70	J
Dibenzofuran	950	U	460	U
Diethylphthalate	950	U	460	U
Dimethylphthalate	950	U	460	U
Fluoranthene	1600		710	
Fluorene	950	U	460	U
Hexachlorobenzene	950	U	460	U
Hexachlorobutadiene	950	UJ	460	UJ
Hexachlorocyclopentadiene	950	U	460	U
Hexachloroethane	950	U	460	U
Indeno(1,2,3-cd)pyrene	460	J	160	J
Isophorone	950	U	460	U
N-Nitroso-di-n-propylamine	950	U	460	U
N-Nitroso-diphenylamine	950	U	460	U
Naphthalene	950	U	460	U
Nitrobenzene	950	U	460	U
Pentachlorophenol	2400	UJ	1200	UJ

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2019-01		CMW-SD-2020-01	
Sample Location	CMW-SD-2019		CMW-SD-2020	
Interval	0.0-0.5		0.0-0.5	
Date Sampled	10/26/99		10/26/99	
QC Identifier	None		None	
Phenanthrene	570	J	370	J
Phenol	950	U	460	U
Pyrene	1400		570	
Total PAH	970		390	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2019-01		CMW-SD-2020-01	
Sample Location	CMW-SD-2019		CMW-SD-2020	
Interval	0.0-0.5		0.0-0.5	
Date Sampled	10/26/99		10/26/99	
QC Identifier	None		None	
Pesticide/PCB Analysis (UG/KG)	D00906		D00904	
4,4'-DDD	4.8	U	4.6	U
4,4'-DDE	4.8	U	9.0	
4,4'-DDT	4.8	U	4.6	U
Aldrin	2.5	U	2.4	U
alpha-BHC	2.5	U	2.4	U
alpha-Chlordane	3.2		2.4	U
Aroclor, Total	5200		2490	
Aroclor-1016	48	U	46	U
Aroclor-1221	97	U	93	U
Aroclor-1232	48	U	46	U
Aroclor-1242	48	U	46	U
Aroclor-1248	1600		290	
Aroclor-1254	3600		2200	
Aroclor-1260	48	U	46	U
beta-BHC	2.5	U	2.4	U
delta-BHC	2.5	U	2.4	U
Dieldrin	16		7.2	
Endosulfan I	2.5	U	2.4	U
Endosulfan II	340		190	
Endosulfan Sulfate	4.8	U	4.6	U
Endrin	21		9.9	
Endrin Aldehyde	4.8	U	4.6	U
Endrin Ketone	4.8	U	4.6	U
gamma-BHC	2.5	U	2.4	U
gamma-Chlordane	26		10	
Heptachlor	2.5	U	2.4	U
Heptachlor Epoxide	2.5	U	2.4	U
Methoxychlor	34		24	U
Toxaphene	250	U	240	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2019-01		CMW-SD-2020-01	
Sample Location	CMW-SD-2019		CMW-SD-2020	
Interval	0.0-0.5		0.0-0.5	
Date Sampled	10/26/99		10/26/99	
QC Identifier	None		None	
Dioxin Analysis (NG/KG)	**D00906**		**D00904**	
1,2,3,4,6,7,8-HpCDD	4120	J$	1230	J
1,2,3,4,6,7,8-HpCDF	534	J	127	J
1,2,3,4,7,8,9-HpCDF	39.7	J	10.2	J
1,2,3,4,7,8-HxCDD	58.1	J	20.0	J
1,2,3,4,7,8-HxCDF	113	J	43.0	J
1,2,3,6,7,8-HxCDD	187	J	46.2	J
1,2,3,6,7,8-HxCDF	57.6	J	21.2	J
1,2,3,7,8,9-HxCDD	187	J	63.3	J
1,2,3,7,8,9-HxCDF	3.4	UJ	1.6	UJ
1,2,3,7,8-PeCDD	36.7	J	15.5	J
1,2,3,7,8-ReCDF	58.3	EMPC	22.2	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	8090.7	J$	2218.6	J$
2,3,4,6,7,8-HxCDF	64.3	J	25.2	J
2,3,4,7,8-PeCDF	66.4	J	33.7	J
2,3,7,8-TCDD	8200	J@	4660	J$
2,3,7,8-TCDF	163	J	101	J
OCDD	26570	EBJ$	6090	EBJ$
OCDF	971	EBJ	149	EBJ
Total HpCDD	7190	J$	2220	J
Total HpCDF	1270	J	249	J
Total HxCDD	1410	J	479	J
Total HxCDF	2010	J	582	J
Total PeCDD	207	J	90.2	J
Total PeCDF	1020	J	451	J
Total TCDD	8200	J@	4760	J$
Total TCDF	1220	J	638	J
Toxicity Equivalency	8410		4740	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2019-01		CMW-SD-2020-01	
Sample Location	CMW-SD-2019		CMW-SD-2020	
Interval	0 0-0.5		0 0-0 5	
Date Sampled	10/26/99		10/26/99	
QC Identifier	None		None	
TAL Metal Analysis (MG/KG)	D00906		D00904	
Aluminum	10900		4600	
Antimony	2 8	UJ	1 6	UJ
Arsenic	10 4	J	3 3	
Barium	90 6	J	61 2	
Beryllium	1 0		0 66	U
Cadmium	5 2	J	1 2	
Calcium	5950	J	4650	J
Chromium	98 4		51 0	
Cobalt	9 8		4 5	
Copper	167		35 8	
Iron	23900		9710	
Lead	561		287	
Magnesium	2710	J	829	J
Manganese	381		214	
Mercury	0 59		0 57	
Nickel	33 8		10 6	
Potassium	1310	J	515	J
Selenium	1 4	J	1 5	J
Silver	7 2		2 6	
Sodium	273	J	154	J
Thallium	0 46	UJ	0 47	U
Vanadium	83 8	J	30 9	
Zinc	635	J	268	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2019-01		CMW-SD-2020-01	
Sample Location	CMW-SD-2019		CMW-SD-2020	
Interval	0.0-0.5		0 0-0 5	
Date Sampled	10/26/99		10/26/99	
QC Identifier	None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D00906		D00904	
Acid Volatile Sulfide	49 95394		26 71883	
Cadmium	0 04497	J	0 01006	J
Copper	1 62943		0 77232	
Lead	2 59495		1 29148	
Mercury	0 00011	U	0 00009	U
Nickel	1 11076	J	5 31127	J
SEM/AVS	0 29974		0 40304	
Simultaneously Extracted Metal	14 97301		10 76875	
Zinc	9 59289		3 38361	
Total Organic Carbon Analysis (MG/KG)	D00906		D00904	
Total Organic Carbon	116000		99100	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2025-0.502-01		CMW-SD-2025-000.5-01		LPX-SD-2045-01		LPX-SD-2046-0.502-01		LPX-SD-2046-000.5-01	
Sample Location	CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		11/8/99		11/8/99		11/8/99	
QC Identifier	None		None		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D00928		D00924		D01016		D01018		D01017	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	4800	U	4600	U	2500	U	9800	U	2500	U
1,2-Dichlorobenzene	4800	U	4600	U	2500	U	9800	U	2500	U
1,3-Dichlorobenzene	4800	U	4600	U	2500	U	9800	U	2500	U
1,4-Dichlorobenzene	4800	U	4600	U	2500	U	9800	U	2500	U
2,2'-oxybis(1-Chloropropane)	4800	U	4600	U	2500	U	9800	U	2500	U
2,4,5-Trichlorophenol	12000	U	11000	U	6200	U	25000	U	6200	U
2,4,6-Trichlorophenol	4800	UJ	4600	UJ	2500	U	9800	U	2500	U
2,4-Dichlorophenol	4800	U	4600	U	2500	U	9800	U	2500	U
2,4-Dimethylphenol	4800	U	4600	U	2500	U	9800	U	2500	U
2,4-Dinitrophenol	12000	U	11000	U	6200	U	25000	U	6200	U
2,4-Dinitrotpluene	4800	U	4600	U	2500	U	9800	U	2500	U
2,6-Dinitrotoluene	4800	U	4600	U	2500	U	9800	U	2500	U
2-Chloronaphthalene	4800	U	4600	U	2500	U	9800	U	2500	U
2-Chlorophenol	4800	U	4600	U	2500	U	9800	U	2500	U
2-Methylnaphthalene	4800	U	4600	U	2500	U	9800	U	2500	U
2-Methylphenol	4800	U	4600	U	2500	U	9800	U	2500	U
2-Nitroaniline	12000	U	11000	U	6200	U	25000	U	6200	U
2-Nitrophenol	4800	UJ	4600	UJ	2500	U	9800	U	2500	U
3,3'-Dichlorobenzidine	4800	UJ	4600	UJ	2500	U	9800	U	2500	U
3-Nitroaniline	12000	U	11000	U	6200	U	25000	U	6200	U
4,6-Dinitro-2-methylphenol	12000	U	11000	U	6200	U	25000	U	6200	U
4-Bromophenyl-phenylether	4800	U	4600	U	2500	U	9800	U	2500	U
4-Chloro-3-methylphenol	4800	U	4600	U	2500	U	9800	U	2500	U
4-Chloroaniline	4800	UJ	4600	UJ	2500	U	9800	U	2500	U
4-Chlorophenyl-phenylether	4800	U	4600	U	2500	U	9800	U	2500	U
4-Methylphenol	4800	U	4600	U	2500	U	9800	U	2500	U
4-Nitroaniline	12000	U	11000	U	6200	U	25000	U	6200	U
4-Nitrophenol	12000	U	11000	U	6200	U	25000	U	6200	U
Acenaphthene	4800	U	4600	U	2500	U	9800	U	2500	U
Acenaphthylene	4800	U	4600	U	2500	U	9800	U	2500	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	4800	U	520	J	2500	U	9800	U	2500	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2025-0.502-01		CMW-SD-2025-000.5-01		LPX-SD-2045-01		LPX-SD-2046-0.502-01		LPX-SD-2046-000.5-01	
Sample Location	CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		11/8/99		11/8/99		11/8/99	
QC Identifier	None		None		None		None		None	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	1900	J	3500	J	380	J	1200	J	530	J
Benzo(a)pyrene	2000	J	2900	J	450	J	1100	J	580	J
Benzo(b)fluoranthene	1600	J	3700	J	470	J	1200	J	580	J
Benzo(g,h,i)perylene	4800	U	4600	U	280	J	9800	U	330	J
Benzo(k)fluoranthene	1500	J	5000		390	J	1200	J	540	J
Bis(2-Chloroethoxy)methane	4800	U	4600	U	2500	U	9800	U	2500	U
Bis(2-Chloroethyl)ether	4800	U	4600	U	2500	U	9800	U	2500	U
bis(2-Ethylhexyl)phthalate	4800	UJ	12000	UJ	710	J	5600	J	820	J
Butylbenzylphthalate	4800	UJ	4600	UJ	2500	UJ	9800	UJ	2500	UJ
Caprolactam		NA		NA		NA		NA		NA
Carbazole	4800	U	610	J	2500	U	9800	U	2500	U
Chrysene	2300	J	5100		560	J	1600	J	670	J
Di-n-Butylphthalate	4800	U	4600	U	2500	U	9800	U	2500	U
Di-n-octylphthalate	4800	U	4600	U	2500	UJ	9800	UJ	2500	UJ
Dibenzo(a,h)anthracene	4800	U	970	J	2500	U	9800	U	2500	U
Dibenzofuran	4800	U	4600	U	2500	U	9800	U	2500	U
Diethylphthalate	4800	U	4600	U	2500	U	9800	U	2500	U
Dimethylphthalate	4800	U	4600	U	2500	U	9800	U	2500	U
Fluoranthene	2800	J	9800		890	J	2700	J	1100	J
Fluorene	4800	U	4600	U	2500	U	9800	U	2500	U
Hexachlorobenzene	4800	U	4600	U	2500	U	9800	U	2500	U
Hexachlorobutadiene	4800	U	4600	U	2500	U	9800	U	2500	U
Hexachlorocyclopentadiene	4800	UJ	4600	UJ	2500	U	9800	U	2500	U
Hexachloroethane	4800	U	4600	U	2500	U	9800	U	2500	U
Indeno(1,2,3-cd)pyrene	950	J	2200	J	270	J	9800	U	370	J
Isophorone	4800	U	4600	U	2500	U	9800	U	2500	U
N-Nitroso-di-n-propylamine	4800	U	4600	U	2500	U	9800	U	2500	U
N-Nitroso-diphenylamine	4800	U	4600	U	2500	U	9800	U	2500	U
Naphthalene	4800	U	4600	U	2500	U	9800	U	2500	U
Nitrobenzene	4800	U	4600	U	2500	U	9800	U	2500	U
Pentachlorophenol	12000	UJ	11000	UJ	6200	U	25000	U	6200	U
Phenanthrene	860	J	4000	J	370	J	1500	J	450	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2025-0.502-01		CMW-SD-2025-000.5-01		LPX-SD-2045-01		LPX-SD-2046-0.502-01		LPX-SD-2046-000.5-01	
Sample Location	CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046	
Interval	0.5-2 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/28/99		10/28/99		11/8/99		11/8/99		11/8/99	
QC Identifier	None		None		None		None		None	
Phenol	4800	U	4600	U	2500	U	9800	U	2500	U
Pyrene	3800	J	7800		860	J	2600	J	980	J
Total PAH	2500		4900		570		1400		730	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2025-0.502-01		CMW-SD-2025-000.5-01		LPX-SD-2045-01		LPX-SD-2046-0.502-01		LPX-SD-2046-000.5-01	
Sample Location	CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		11/8/99		11/8/99		11/8/99	
QC Identifier	None		None		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D00928		D00924		D01016		D01018		D01017	
4,4'-DDD	4.8	U	4.7	U	4.9	U	4.9	U	5.0	U
4,4'-DDE	4.8	U	4.7	U	4.9	U	4.9	U	5.0	U
4,4'-DDT	4.8	U	4.9		4.9	U	5.9		5.0	U
Aldrin	2.5	U	2.4	U	2.5	U	2.5	U	2.6	U
alpha-BHC	2.5	U	2.4	U	2.5	U	2.5	U	2.6	U
alpha-Chlordane	4.8		9.4		2.7		4.9		2.6	U
Aroclor, Total	254		400		211		2920		178	
Aroclor-1016	48	U	47	U	49	U	49	U	50	U
Aroclor-1221	98	U	95	U	100	U	99	U	100	U
Aroclor-1232	48	U	47	U	49	U	49	U	50	U
Aroclor-1242	48	U	47	U	49	U	49	U	50	U
Aroclor-1248	54		100		52		49	U	29	J
Aroclor-1254	200		300		130		2600		120	
Aroclor-1260	48	U	47	U	29	J	320		29	J
beta-BHC	2.5	U	2.6		2.5	U	2.5	U	2.6	U
delta-BHC	2.5	U	2.4	U	2.5	U	2.5	U	2.6	U
Dieldrin	4.8	U	4.7	U	4.9	U	6.8		5.0	U
Endosulfan I	2.5	U	2.4	U	2.5	U	2.5	U	2.6	U
Endosulfan II	4.8	U	22		10	EB	290	EB*	10	EB
Endosulfan Sulfate	4.8	U	4.7	U	4.9	U	5.2		5.0	U
Endrin	4.8	U	4.7	U	4.9	U	9.5		5.0	U
Endrin Aldehyde	38		4.7	U	4.9	U	4.9	U	5.0	U
Endrin Ketone	4.8	U	4.7	U	4.9	U	4.9	U	5.0	U
gamma-BHC	2.5	U	2.4	U	2.5	U	2.5	U	2.6	U
gamma-Chlordane	5.3		12		4.0		24		2.8	
Heptachlor	2.5	U	2.4	U	2.5	U	2.5	U	2.6	U
Heptachlor Epoxide	2.5	U	2.4	U	2.5	U	2.5	U	2.6	U
Methoxychlor	25	U	24	U	25	U	39		26	U
Toxaphene	250	U	240	U	250	U	250	U	260	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2025-0 502-01		CMW-SD-2025-000 5-01		LPX-SD-2045-01		LPX-SD-2046-0 502-01		LPX-SD-2046-000 5-01	
Sample Location	CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046	
Interval	0 5-2 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/28/99		10/28/99		11/8/99		11/8/99		11/8/99	
QC Identifier	None		None		None		None		None	
Dioxin Analysis (NG/KG)	D00928		D00924		D01016		D01018		D01017	
1,2,3,4,6,7,8-HpCDD	250		1810	$	991	J	277	J	984	J
1,2,3,4,6,7,8-HpCDF	45 2		392		341	J	116	J	422	J
1,2,3,4,7,8,9-HpCDF	3 8	J	22 5		21 1	J	8 0	J	17 6	EMPC
1,2,3,4,7,8-HxCDD	4 3	J	32 2		18 3	J	6 5	J	17 2	J
1,2,3,4,7,8-HxCDF	5 8		31 8		39 1	J	21 2	J	42 2	J
1,2,3,6,7,8-HxCDD	11 0		82 1		47 4	J	15 3	J	45 4	J
1,2,3,6,7,8-HxCDF	4 0	J	24 2		27 5	J	15 5	J	34 2	J
1,2,3,7,8,9-HxCDD	10 8		89 2		58 7	J	17 9	J	46 4	J
1,2,3,7,8,9-HxCDF	4 3	J	26 7		2 3	EMPC	1 7	UJ	1 3	UJ
1,2,3,7,8-PeCDD	2 8	J	18 9		14 0	J	9 8	J	11 3	J
1,2,3,7,8-PeCDF	3 1	J	29 4	EMPC	11 6	J	22 7	EMPC	14 2	J
1,2,4,5,7,8-hexachloro(9H)xanthene	13 06	J	90 79	J	2692 394	J	315	J&	733 324	J&
2,3,4,6,7,8-HxCDF	0 50	U	2 3	U	33 2	J	16 6	J	34 9	J
2,3,4,7,8-PeCDF	2 7	J	10 7		17 4	J	13 2	J	16 3	J
2,3,7,8-TCDD	135		939	$	7610	J&	2060	J&	7110	J&
2,3,7,8-TCDF	4 8		19 2		40 6	J	36 7	J	37 0	J
OCDD	1890	EB	13240	$JEB	6300	J&	1470	J	5890	J&
OCDF	116	EB	874	JEB	524	J	124	J	531	J
Total HpCDD	449	J	3370	$J	1950	J	525	J	1930	J
Total HpCDF	117	J	944	J	778	J	216	J	811	J
Total HxCDD	75 6	JEB	649	JEB	412	J	153	J	400	J
Total HxCDF	68 4	J	574	J	589	J	273	J	674	J
Total PeCDD	9 0	J	69 2	J	93 6	J	74 6	J	54 5	J
Total PeCDF	41 5	J	256	J	438	J	326	J	470	J
Total TCDD	143	J	939	$J	7840	J&	2060	J&	7290	J&
Total TCDF	32 9	J	187	J	518	J	509	J	540	J
Toxicity Equivalency	147		1020		7670		2090		7170	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2025-0.502-01		CMW-SD-2025-000.5-01		LPX-SD-2045-01		LPX-SD-2046-0.502-01		LPX-SD-2046-000.5-01	
Sample Location	CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046	
Interval	0.5-2.0		0.0-0.5		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	10/28/99		10/28/99		11/8/99		11/8/99		11/8/99	
QC Identifier	None		None		None		None		None	
TAL Metal Analysis (MG/KG)	D00928		D00924		D01016		D01018		D01017	
Aluminum	4180		8410		13400		14200		12200	
Antimony	0.85	UJ	1.4	UJ	3.9	J	3.5	J	3.5	J
Arsenic	2.0		4.4		8.3		7.3		5.4	
Barium	33.0		91.3		220		139		235	
Beryllium	0.52	U	1.1		2.9		2.0		2.8	
Cadmium	0.43	U	1.7		2.7		4.9		2.3	
Calcium	1370	J	3170	J	4600		2570		2960	
Chromium	30.8		67.4		177		181		187	
Cobalt	5.3		7.5		13.7		10.1		12.7	
Copper	29.9		93.0		191		319		172	
Iron	6840		16000		19500		19200		20100	
Lead	88.9		264		413		447		357	
Magnesium	1070	J	2840	J	2880		3610		2520	
Manganese	110		268		430		264		472	
Mercury	1.0		0.36		0.42		0.55		0.53	
Nickel	6.6		17.8		72.9		61.7		53.4	
Potassium	571	J	1340	J	1490		1680		1300	
Selenium	1.3	U	0.89	U	1.5	J	0.98	UJ	1.0	UJ
Silver	2.2	U	4.6		9.4	J	8.2	J	8.6	J
Sodium	95.0	UJ	213	J	194	U	198	U	236	U
Thallium	0.59	U	0.41	U	0.87	U	0.78	U	0.83	U
Vanadium	11.6		31.0		46.1		55.5		37.7	
Zinc	116	J	446	J	745		1250		662	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SD-2025-0 502-01		CMW-SD-2025-000 5-01		LPX-SD-2045-01		LPX-SD-2046-0.502-01		LPX-SD-2046-000 5-01	
Sample Location	CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046	
Interval	0 5-2 0		0 0-0 5		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	10/28/99		10/28/99		11/8/99		11/8/99		11/8/99	
QC Identifier	None		None		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D00924		D01016				D01017	
Acid Volatile Sulfide		NA	28 28051		22 03724			NA	22 60794	
Cadmium		NA	0 0203	J	0 02847	J		NA	0 02659	J
Copper		NA	1 1516		2 28876			NA	2 26537	
Lead		NA	1 3347		1 81226			NA	1 68049	
Mercury		NA	0 00007	U	0 00012	UJ		NA	0 0001	UJ
Nickel		NA	0 2207	J	0 99028	J		NA	1 14098	J
SEM/AVS			0 34816		0 70727				0 7183	
Simultaneously Extracted Metal		NA	9 84609		15 58637			NA	16 23937	
Zinc		NA	7 11878		10 46661			NA	11 12593	
Total Organic Carbon Analysis (MG/KG)			D00924		D01016				D01017	
Total Orgahic Carbon		NA	78200		88300			NA	71800	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2046-0204-01		LPX-SD-2047-01		LPX-SD-2048-0.502-01		LPX-SD-2048-000.5-01	
Sample Location	LPX-SD-2046		LPX-SD-2047		LPX-SD-2048		LPX-SD-2048	
Interval	2.0-4.0		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	11/8/99		11/8/99		11/9/99		11/9/99	
QC Identifier	None		None		None		Field Dup. LPX-SD-2048-000.5-01	
Semivolatile Organic Analysis (UG/KG)	D01019		D01010		D01025		D01024	
1,1'-Biphenyl		NA		NA		NA		NA
1,2,4-Trichlorobenzene	2500	U	2500	UJ	2500	U	2400	U
1,2-Dichlorobenzene	2500	U	2500	U	2500	U	2400	U
1,3-Dichlorobenzene	2500	U	2500	U	2500	U	2400	U
1,4-Dichlorobenzene	2500	U	2500	UJ	2500	U	2400	U
2,2'-oxybis(1-Chloropropane)	2500	U	2500	U	2500	U	2400	U
2,4,5-Trichlorophenol	6200	U	6200	U	6300	U	6200	U
2,4,6-Trichlorophenol	2500	U	2500	U	2500	U	2400	U
2,4-Dichlorophenol	2500	U	2500	U	2500	U	2400	U
2,4-Dimethylphenol	2500	U	2500	U	2500	U	2400	U
2,4-Dinitrophenol	6200	U	6200	U	6300	UJ	6200	UJ
2,4-Dinitrotpluene	2500	U	2500	U	2500	U	2400	U
2,6-Dinitrotoluene	2500	U	2500	U	2500	U	2400	U
2-Chloronaphthalene	2500	U	2500	U	2500	U	2400	U
2-Chlorophenol	2500	U	2500	UJ	2500	U	2400	U
2-Methylnaphthalene	2500	U	2500	U	2500	U	2400	U
2-Methylphenol	2500	U	2500	U	2500	U	2400	U
2-Nitroaniline	6200	U	6200	U	6300	U	6200	U
2-Nitrophenol	2500	U	2500	U	2500	U	2400	U
3,3'-Dichlorobenzidine	2500	U	2500	U	2500	U	2400	U
3-Nitroaniline	6200	U	6200	U	6300	U	6200	U
4,6-Dinitro-2-methylphenol	6200	U	6200	U	6300	U	6200	U
4-Bromophenyl-phenylether	2500	U	2500	U	2500	U	2400	U
4-Chloro-3-methylphenol	2500	U	2500	UJ	2500	U	2400	U
4-Chloroaniline	2500	U	2500	U	2500	U	2400	U
4-Chlorophenyl-phenylether	2500	U	2500	U	2500	U	2400	U
4-Methylphenol	2500	U	2500	U	2500	U	2400	U
4-Nitroaniline	6200	U	6200	U	6300	U	6200	U
4-Nitrophenol	6200	U		R	6300	U	6200	U
Acenaphthene	2500	U	2500	UJ	2500	U	2400	U
Acenaphthylene	2500	U	2500	U	2500	U	2400	U
Acetophenone		NA		NA		NA		NA
Anthracene	2500	U	2500	U	360	J	2400	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2046-0204-01		LPX-SD-2047-01		LPX-SD-2048-0 502-01		LPX-SD-2048-000 5-01	
Sample Location	LPX-SD-2046		LPX-SD-2047		LPX-SD-2048		LPX-SD-2048	
Interval	2 0-4 0		0 0-0 5		0 5-2.0		0 0-0 5	
Date Sampled	11/8/99		11/8/99		11/9/99		11/9/99	
QC Identifier	None		None		None		Field Dup. LPX-SD-2048-000 5-01	
Atrazine		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA
Benzo(a)anthracene	250	J	350	J	1700	J	940	J
Benzo(a)pyrene	270	J	390	J	1800	J	980	J
Benzo(b)fluoranthene	280	J	370	J	2200	J	1100	J
Benzo(g,h,i)perylene	2500	U	260	J	890	J	690	J
Benzo(k)fluoranthene	2500	U	380	J	1900	J	960	J
Bis(2-Chloroethoxy)methane	2500	U	2500	U	2500	U	2400	U
Bis(2-Chloroethyl)ether	2500	U	2500	U	2500	U	2400	U
bis(2-Ethylhexyl)phthalate	2500	UJ	630	J	4400		2400	U
Butylbenzylphthalate	2500	UJ	2500	UJ	1000	J	250	J
Caprolactam		NA		NA		NA		NA
Carbazole	2500	U	2500	U	2500	U	2400	U
Chrysene	330	J	460	J	2400	J	1300	J
Di-n-Butylphthalate	2500	U	2500	U	2500	U	2400	U
Di-n-octylphthalate	2500	UJ	2500	UJ	2500	U	2400	U
Dibenzo(a,h)anthracene	2500	U	2500	U	2500	U	2400	U
Dibenzofuran	2500	U	2500	U	2500	U	2400	U
Diethylphthalate	2500	U	2500	U	2500	U	2400	U
Dimethylphthalate	2500	U	2500	U	2500	U	2400	U
Fluoranthene	370	J	750	J	4600		3000	
Fluorene	2500	U	2500	U	320	J	2400	U
Hexachlorobenzene	2500	U	2500	U	2500	U	2400	U
Hexachlorobutadiene	2500	U	2500	U	2500	U	2400	U
Hexachlorocyclopentadiene	2500	U	2500	U	2500	U	2400	U
Hexachloroethane	2500	U	2500	U	2500	U	2400	U
Indeno(1,2,3-cd)pyrene	2500	U	280	J	970	J	640	J
Isophorone	2500	U	2500	U	2500	U	2400	U
N-Nitroso-di-n-propylamine	2500	U	2500	UJ	2500	U	2400	U
N-Nitroso-diphenylamine	2500	U	2500	U	2500	U	2400	U
Naphthalene	2500	U	2500	U	2500	U	2400	U
Nitrobenzene	2500	U	2500	U	2500	U	2400	U
Pentachlorophenol	6200	U	6200	UJ	6300	U	6200	U
Phenanthrene	2500	U	320	J	3000		1400	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2046-0204-01		LPX-SD-2047-01		LPX-SD-2048-0 502-01		LPX-SD-2048-000 5-01	
Sample Location	LPX-SD-2046		LPX-SD-2047		LPX-SD-2048		LPX-SD-2048	
Interval	2 0-4 0		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	11/8/99		11/8/99		11/9/99		11/9/99	
QC Identifier	None		None		None		Field Dup. LPX-SD-2048-000 5-01	
Phenol	2500	U	2500	UJ	2500	U	2400	U
Pyrene	440	J	710	J	3800		2400	J
Total PAH	320		490		2300		1300	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2046-0204-01		LPX-SD-2047-01		LPX-SD-2048-0.502-01		LPX-SD-2048-000.5-01	
Sample Location	LPX-SD-2046		LPX-SD-2047		LPX-SD-2048		LPX-SD-2048	
Interval	2.0-4.0		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	11/8/99		11/8/99		11/9/99		11/9/99	
QC Identifier	None		None		None		Field Dup. LPX-SD-2048-000.5-01	
Pesticide/PCB Analysis (UG/KG)	D01019		D01010		D01025		D01024	
4,4'-DDD	4.9	U	4.9	U	15		6.2	J
4,4'-DDE	4.9	U	4.9	U	5.0	U	4.9	U
4,4'-DDT	4.9	U	4.9	U	5.0	U	4.9	U
Aldrin	2.5	U	2.5	UJ	2.6	U	2.5	U
alpha-BHC	2.5	U	2.5	U	2.6	U	2.5	U
alpha-Chlordane	2.5	U	2.5	U	24		28	
Aroclor, Total	100	U	118		244		231	
Aroclor-1016	49	U	49	U	50	U	49	U
Aroclor-1221	100	U	100	U	100	U	99	U
Aroclor-1232	49	U	49	U	50	U	49	U
Aroclor-1242	49	U	49	U	50	U	49	U
Aroclor-1248	49	U	30	J	94		81	
Aroclor-1254	49	U	56		150		150	
Aroclor-1260	49	U	32	J	50	U	49	U
beta-BHC	2.5	U	2.5	U	2.6	U	2.5	U
delta-BHC	2.5	U	2.5	U	2.6	U	2.5	U
Dieldrin	4.9	U	4.9	UJ	5.0	U	4.9	U
Endosulfan I	2.5	U	2.5	U	2.6	U	2.5	U
Endosulfan II	4.9	U	7.0	EB	5.0	U	4.9	U
Endosulfan Sulfate	4.9	U	4.9	U	5.0	U	4.9	U
Endrin	4.9	U	4.9	U	5.0	U	4.9	U
Endrin Aldehyde	4.9	U	4.9	U	5.0	U	4.9	U
Endrin Ketone	4.9	U	4.9	U	5.0	U	4.9	U
gamma-BHC	2.5	U	2.5	UJ	2.6	U	2.5	U
gamma-Chlordane	2.5	U	2.5	U	32		29	
Heptachlor	2.5	U	2.5	U	2.6	U	2.5	U
Heptachlor Epoxide	2.5	U	2.5	U	2.6	U	2.5	U
Methoxychlor	25	U	25	U	26	U	25	U
Toxaphene	250	U	250	U	260	U	250	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2046-0204-01		LPX-SD-2047-01		LPX-SD-2048-0 502-01		LPX-SD-2048-000 5-01	
Sample Location	LPX-SD-2046		LPX-SD-2047		LPX-SD-2048		LPX-SD-2048	
Interval	2 0-4 0		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	11/8/99		11/8/99		11/9/99		11/9/99	
QC Identifier	None		None		None		Field Dup. LPX-SD-2048-000 5-01	
Dioxin Analysis (NG/KG)	D01019		D01010		D01025		D01024	
1,2,3,4,6,7,8-HpCDD	9 6	U	794	J	702		494	J
1,2,3,4,6,7,8-HpCDF	4 9	U	296	J	131		97 0	J
1,2,3,4,7,8,9-HpCDF	0 60	U	24 9	J	9 6		5 7	EMPC
1,2,3,4,7,8-HxCDD	0 81	EMPC	15 0	J	8 1		7 7	J
1,2,3,4,7,8-HxCDF	2 9	U	52 2	J	15 0		10 7	J
1,2,3,6,7,8-HxCDD	1 8	EMPC	40 4	J	32 9		26 1	J
1,2,3,6,7,8-HxCDF	1 1	EMPC	28 1	J	10 3		7 9	J
1,2,3,7,8,9-HxCDD	2 6	J	42 4	J	25 6		20 0	J
1,2,3,7,8,9-HxCDF	0 30	U	2 5	J	0 70	U	0 70	UJ
1,2,3,7,8-PeCDD	1 3	J	10 7	J	6 7	J	5 1	J
1,2,3,7,8-PeCDF	1 2	J	8 6	EMPC	4 5	J	4 2	J
1,2,4,5,7,8,-hexachloro(9H)xanthene	1 42	J	1068 201	J	127 886	J	31 439	J
2,3,4,6,7,8-HxCDF	1 0	J	31 7	J	13 9		9 0	J
2,3,4,7,8-PeCDF	1 7	J	16 9	J	7 0		4 6	J
2,3,7,8-TCDD	14 6		4130	J&	440	&	179	J
2,3,7,8-TCDF	4 1		38 4	J	16 1		6 4	J
OCDD	38 3	J	5820	J&	4460	&	3620	J
OCDF	5 3	J	504	J	286	J	207	J
Total HpCDD	16 2	EMPC	1440	J	1630	J	1060	J
Total HpCDF	7 3	UJ	667	J	387	J	230	J
Total HxCDD	19 9	EMPC	354	J	234	J	177	J
Total HxCDF	8 0	J	468	J	219	J	136	J
Total PeCDD	12 1	J	87 7	J	52 8	J	41 2	J
Total PeCDF	10 9	J	295	J	140	J	68 7	J
Total TCDD	30 7	J	4230	J&	440	J&	202	J
Total TCDF	23 6	J	360	J	181	J	33 4	J
Toxicity Equivalency	18 2		4190		472		202	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2046-0204-01		LPX-SD-2047-01		LPX-SD-2048-0 502-01		LPX-SD-2048-000 5-01	
Sample Location	LPX-SD-2046		LPX-SD-2047		LPX-SD-2048		LPX-SD-2048	
Interval	2 0-4 0		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	11/8/99		11/8/99		11/9/99		11/9/99	
QC Identifier	None		None		None		Field Dup. LPX-SD-2048-000 5-01	
TAL Metal Analysis (MG/KG)	D01019		D01010		D01025		D01024	
Aluminum	8580		11100		4400		7280	
Antimony	0 69	UJ	2 6	J	1 6	J	1 9	J
Arsenic	3 6		4 4		2 2		2 0	J
Barium	31 7		201		40 6		94 0	
Beryllium	3 4		2 1		0 27	J	0 79	
Cadmium	0 11	U	1 5		0 12	J	0 82	J
Calcium	3350		3350		1080	J	2250	J
Chromium	9 5		98 1		60 1		64 8	
Cobalt	2 0	J	12 0		3 3	J	5 8	J
Copper	3 4		135		42 4		94 8	
Iron	7560		21300		9560		15100	
Lead	12 0		250		179		213	
Magnesium	654		2540		1570	J	2280	J
Manganese	138		718		167		417	
Mercury	0 12		0 36		0 10	J	0 13	J
Nickel	4 1		51 3		16 0		23 0	
Potassium	218		1370		656		1350	
Selenium	0 94	UJ	1 1	UJ	0 89	UJ	1 1	UJ
Silver	3 2	UJ	8 4	J	3 1		4 7	
Sodium	132	U	243	U	34 5	U	123	U
Thallium	0 75	U	0 89	U	0 71	U	0 90	U
Vanadium	14 5		30 2		12 6		23 3	
Zinc	17 9		479		138	J	297	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2046-0204-01		LPX-SD-2047-01		LPX-SD-2048-0 502-01		LPX-SD-2048-000 5-01	
Sample Location	LPX-SD-2046		LPX-SD-2047		LPX-SD-2048		LPX-SD-2048	
Interval	2 0-4 0		0 0-0 5		0 5-2 0		0 0-0.5	
Date Sampled	11/8/99		11/8/99		11/9/99		11/9/99	
QC Identifier	None		None		None		Field Dup. LPX-SD-2048-000 5-01	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D01010				D01024	
Acid Volatile Sulfide		NA	24 87057			NA	15 72	
Cadmium		NA	0 016	J		NA	0 01	J
Copper		NA	1 60108			NA	1 39	J
Lead		NA	0 973			NA	0 983	
Mercury		NA	0 0001	U		NA	0 00005	U
Nickel		NA	0 69441	J		NA	0 73	J
SEM/AVS			0 41				0 50	
Simultaneously Extracted Metal		NA	10 20587			NA	7 81	
Zinc		NA	6 92			NA	4 7	J
Total Organic Carbon Analysis (MG/KG)			D01010				D01024	
Total Organic Carbon		NA	71100			NA	63100	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-DU-110999A		LPX-SD-2048-000 5-01-MAX		LPX-SD-2048-0204-01		LPX-SD-2049-01		LPX-SD-2050-01	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2050	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5		0 0-0 5	
Date Sampled	11/9/99		11/9/99		11/9/99		11/5/99		11/5/99	
QC Identifier	Field Dup. LPX-SD-2048-000 5-01		Field Dup. LPX-SD-2048-000 5-01		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D01026		D01024		D01027		D01004		D01003	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	3700	U	3700	U	2500	U	2500	U	2500	UJ
1,2-Dichlorobenzene	3700	U	3700	U	2500	U	2500	U	2500	UJ
1,3-Dichlorobenzene	3700	U	3700	U	2500	U	2500	U	2500	UJ
1,4-Dichlorobenzene	3700	U	3700	U	2500	U	2500	U	2500	UJ
2,2'-oxybis(1-Chloropropane)	3700	U	3700	U	2500	U	2500	U	2500	UJ
2,4,5-Trichlorophenol	9400	U	9400	U	6300	U	6200	U	6300	U
2,4,6-Trichlorophenol	3700	U	3700	U	2500	U	2500	U	2500	U
2,4-Dichlorophenol	3700	U	3700	U	2500	U	2500	U	2500	U
2,4-Dimethylphenol	3700	U	3700	U	2500	U	2500	U	2500	U
2,4-Dinitrophenol	9400	UJ	9400	U	6300	UJ	6200	U	6300	UJ
2,4-Dinitrotoluene	3700	U	3700	U	2500	U	2500	U	2500	UJ
2,6-Dinitrotoluene	3700	U	3700	U	2500	U	2500	U	2500	UJ
2-Chloronaphthalene	3700	U	3700	U	2500	U	2500	U	2500	UJ
2-Chlorophenol	3700	U	3700	U	2500	U	2500	U	2500	U
2-Methylnaphthalene	3700	U	3700	U	2500	U	2500	U	2500	UJ
2-Methylphenol	3700	U	3700	U	2500	U	2500	U	2500	U
2-Nitroaniline	9400	U	9400	U	6300	U	6200	U	6300	UJ
2-Nitrophenol	3700	U	3700	U	2500	U	2500	U	2500	U
3,3'-Dichlorobenzidine	3700	U	3700	U	2500	U	2500	U	2500	UJ
3-Nitroaniline	9400	U	9400	U	6300	U	6200	U	6300	UJ
4,6-Dinitro-2-methylphenol	9400	U	9400	U	6300	U	6200	U	6300	UJ
4-Bromophenyl-phenylether	3700	U	3700	U	2500	U	2500	U	2500	UJ
4-Chloro-3-methylphenol	3700	U	3700	U	2500	U	2500	U	2500	U
4-Chloroaniline	3700	U	3700	U	2500	U	2500	U	2500	UJ
4-Chlorophenyl-phenylether	3700	U	3700	U	2500	U	2500	U	2500	UJ
4-Methylphenol	3700	U	3700	U	2500	U	2500	U	2500	U
4-Nitroaniline	9400	U	9400	U	6300	U	6200	U	6300	UJ
4-Nitrophenol	9400	U	9400	U	6300	U	6200	U	6300	UJ
Acenaphthene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Acenaphthylene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Acetophenone		NA		NA		NA		NA		NA
Anthracene	3700	U	3700	U	2500	U	2500	U	2500	UJ

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-DU-110999A		LPX-SD-2048-000.5-01-MAX		LPX-SD-2048-0204-01		LPX-SD-2049-01		LPX-SD-2050-01	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2050	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5		0 0-0 5	
Date Sampled	11/9/99		11/9/99		11/9/99		11/5/99		11/5/99	
QC Identifier	Field Dup. LPX-SD-2048-000 5-01		Field Dup. LPX-SD-2048-000.5-01		None		None		None	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	1800	J	1800		570	J	2500	U	2500	UJ
Benzo(a)pyrene	1900	J	1900		820	J	2500	U	330	J
Benzo(b)fluoranthene	2000	J	2000		780	J	2500	U	360	J
Benzo(g,h,i)perylene	1200	J	1200		650	J	2500	U	290	J
Benzo(k)fluoranthene	1900	J	1900		820	J	2500	U	340	J
Bis(2-Chloroethoxy)methane	3700	U	3700	U	2500	U	2500	U	2500	UJ
Bis(2-Chloroethyl)ether	3700	U	3700	U	2500	U	2500	U	2500	UJ
bis(2-Ethylhexyl)phthalate	3800	U	3800	U	2500	U	2500	UJ	600	J
Butylbenzylphthalate	660	J	660		2500	U	2500	UJ	2500	UJ
Caprolactam		NA		NA		NA		NA		NA
Carbazole	3700	U	3700	U	2500	U	2500	U	2500	UJ
Chrysene	2700	J	2700		860	J	2500	U	380	J
Di-n-Butylphthalate	3700	U	3700	U	2500	U	2500	U	2500	UJ
Di-n-octylphthalate	3700	U	3700	U	2500	U	2500	UJ	2500	UJ
Dibenzo(a,h)anthracene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Dibenzofuran	3700	U	3700	U	2500	U	2500	U	2500	UJ
Diethylphthalate	3700	U	3700	U	2500	U	2500	U	2500	UJ
Dimethylphthalate	3700	U	3700	U	2500	U	2500	U	2500	UJ
Fluoranthene	4800		4800		1100	J	2500	U	640	J
Fluorene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Hexachlorobenzene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Hexachlorobutadiene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Hexachlorocyclopentadiene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Hexachloroethane	3700	U	3700	U	2500	U	2500	U	2500	UJ
Indeno(1,2,3-cd)pyrene	1200	J	1200		620	J	2500	U	2500	UJ
Isophorone	3700	U	3700	U	2500	U	2500	U	2500	UJ
N-Nitroso-di-n-propylamine	3700	U	3700	U	2500	U	2500	U	2500	UJ
N-Nitroso-diphenylamine	3700	U	3700	U	2500	U	2500	U	2500	UJ
Naphthalene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Nitrobenzene	3700	U	3700	U	2500	U	2500	U	2500	UJ
Pentachlorophenol	9400	U	9400	U	6300	U	6200	U	6300	U
Phenanthrene	2700	J	2700		420	J	2500	U	2500	UJ

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-DU-110999A		LPX-SD-2048-000 5-01-MAX		LPX-SD-2048-0204-01		LPX-SD-2049-01		LPX-SD-2050-01	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2050	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5		0 0-0 5	
Date Sampled	11/9/99		11/9/99		11/9/99		11/5/99		11/5/99	
QC Identifier	Field Dup LPX-SD-2048-000 5-01		Field Dup. LPX-SD-2048-000 5-01		None		None		None	
Phenol	3700	U	3700	U	2500	U	2500	U	2500	U
Pyrene	4400	J	4400		1100	J	2500	U	500	J
Total PAH	2400		2400		1000		2500	U	370	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-DU-110999A		LPX-SD-2048-000.5-01-MAX		LPX-SD-2048-0204-01		LPX-SD-2049-01		LPX-SD-2050-01	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2050	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		11/5/99		11/5/99	
QC Identifier	Field Dup. LPX-SD-2048-000.5-01		Field Dup. LPX-SD-2048-000.5-01		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D01026		D01024		D01027		D01004		D01003	
4,4'-DDD	7.4	UJ	6.2		5.0	UJ	4.9	U	5.8	U
4,4'-DDE	7.4	U	7.4	U	5.0	UJ	4.9	U	5.8	U
4,4'-DDT	7.4	U	7.4	U	5.0	UJ	4.9	U	5.8	U
Aldrin	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
alpha-BHC	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
alpha-Chlordane	26		28		5.3	J	2.5	U	3.0	U
Aroclor, Total	267		267		244		43		147	
Aroclor-1016	74	U	74	U	50	UJ	49	U	58	U
Aroclor-1221	150	U	150	U	100	UJ	100	U	120	U
Aroclor-1232	74	U	74	U	50	UJ	49	U	58	U
Aroclor-1242	74	U	74	U	50	UJ	49	U	58	U
Aroclor-1248	87		87		74	J	49	U	38	J
Aroclor-1254	180		180		170	J	49	U	73	
Aroclor-1260	74	U	74	U	50	UJ	43	J	36	J
beta-BHC	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
delta-BHC	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
Dieldrin	7.4	U	7.4	U	5.0	UJ	4.9	U	5.8	U
Endosulfan I	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
Endosulfan II	7.4	U	7.4	U	16	J	4.9	U	5.8	U
Endosulfan Sulfate	7.4	U	7.4	U	5.0	UJ	4.9	U	5.8	U
Endrin	7.4	U	7.4	U	5.0	UJ	4.9	U	5.8	U
Endrin Aldehyde	7.4	U	7.4	U	5.0	UJ	4.9	U	5.8	U
Endrin Ketone	7.4	U	7.4	U	5.0	UJ	4.9	U	5.8	U
gamma-BHC	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
gamma-Chlordane	31		31		11	J	2.5	U	3.0	U
Heptachlor	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
Heptachlor Epoxide	3.8	U	3.8	U	2.6	UJ	2.5	U	3.0	U
Methoxychlor	38	U	38	U	26	UJ	25	U	30	U
Toxaphene	380	U	380	U	260	UJ	250	U	300	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-DU-110999A		LPX-SD-2048-000.5-01-MAX		LPX-SD-2048-0204-01		LPX-SD-2049-01		LPX-SD-2050-01	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2050	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		11/5/99		11/5/99	
QC Identifier	Field Dup. LPX-SD-2048-000.5-01		Field Dup. LPX-SD-2048-000.5-01		None		None		None	
Dioxin Analysis (NG/KG)	D01026		D01024		D01027		D01004		D01003	
1,2,3,4,6,7,8-HpCDD	1200	J	1200		121		9.3	J	1830	J
1,2,3,4,6,7,8-HpCDF	209	J	209		89.0		3.2	EMPC	529	J
1,2,3,4,7,8,9-HpCDF	29.9	J	29.9		4.2	J	3.4	UJ	23.7	J
1,2,3,4,7,8-HxCDD	17.5	J	17.5		3.4	J	2.6	UJ	31.0	J
1,2,3,4,7,8-HxCDF	20.2	J	20.2		12.6		1.6	UJ	49.3	J
1,2,3,6,7,8-HxCDD	60.9	J	60.9		9.4		2.4	UJ	83.6	J
1,2,3,6,7,8-HxCDF	14.7	J	14.7		9.1			R	34.1	J
1,2,3,7,8,9-HxCDD	21.2	J	21.2		9.7		2.5	UJ	95.9	J
1,2,3,7,8,9-HxCDF	1.1	J	1.1		1.5	U	1.8	UJ	2.3	UJ
1,2,3,7,8-PeCDD	9.4	J	9.4		5.1	J	1.8	UJ	39.2	J
1,2,3,7,8-PeCDF	6.2	J	6.2		3.6	J	1.0	UJ	14.7	J
1,2,4,5,7,8-hexachloro(9H)xanthene	103.615	J	103.615		101.685	J	0.00	U	548.91	J
2,3,4,6,7,8-HxCDF	18.0	J	18.0		11.4		1.6	UJ	35.5	J
2,3,4,7,8-PeCDF	6.7	J	6.7		6.7		1.1	UJ	24.1	J
2,3,7,8-TCDD	374	J	374		382	&	28.7	J	6190	J$
2,3,7,8-TCDF	13.6	J	13.6		21.3		1.9	J	71.3	J
OCDD	5740	J&	5740		824	J	56.4	J	8780	J$
OCDF	542	J	542		83.8	J	7.2	UJ	864	J
Total HpCDD	2840	J	2840		307	J	16.7	J	3710	J
Total HpCDF	841	J	841		159	J	3.2	EMPC	1110	J
Total HxCDD	384	J	384		97.2	J	2.5	UJ	739	J
Total HxCDF	266	J	266		175	J	1.6	UJ	729	J
Total PeCDD	66.6	J	66.6		35.9	J	1.8	UJ	209	J
Total PeCDF	112	J	112		176	J	1.4	EMPC	783	J
Total TCDD	407	J	407		382	J&	28.7	J	6380	J$
Total TCDF	103	J	103		262	J	3.6	J	1300	J
Toxicity Equivalency	419		419		401		30.9		6310	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-DU-110999A		LPX-SD-2048-000.5-01-MAX		LPX-SD-2048-0204-01		LPX-SD-2049-01		LPX-SD-2050-01	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2050	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5		0 0-0 5	
Date Sampled	11/9/99		11/9/99		11/9/99		11/5/99		11/5/99	
QC Identifier	Field Dup. LPX-SD-2048-000.5-01		Field Dup. LPX-SD-2048-000.5-01		None		None		None	
TAL Metal Analysis (MG/KG)	D01026		D01024		D01027		D01004		D01003	
Aluminum	5860		7280		11800		10800		14500	
Antimony	1 8	J	1 9		4 0	J	0.87	J	3 5	J
Arsenic	2 0	J	2 0		7 0		3 4		10 0	
Barium	77 4		94 0		103		71 5		262	
Beryllium	0 51		0 79		0 99		0 96		3 4	
Cadmium	0 66	J	0 82		0 97	J	0 79		3 8	
Calcium	1710	J	2250		2090	J	1450		5860	
Chromium	55 6		64 8		133		30 9		157	
Cobalt	3 6	J	5 8		7 8	J	5 5		16 7	
Copper	71 3		94 8		105		20 1		209	
Iron	12200		15100		14600		7050		26100	
Lead	177		213		318		40 0		399	
Magnesium	1820	J	2280		3040	J	1190		2870	
Manganese	350		417		292		503		1970	
Mercury	1 2	J	1 2		0 25	J	0 19		0 50	
Nickel	18 2		23 0		31 6		6 5		113	
Potassium	1030		1350		1300		406		1710	
Selenium	1 0	UJ	1 1	U	1 7	J	1 4	J	2 7	J
Silver	3 9		4 7		4 0		2 7	J	10 6	J
Sodium	73 9	U	123	U	171	U	206	U	480	U
Thallium	0 81	U	0 90	U	0 79	U	0 52	U	0 92	U
Vanadium	17 8		23 3		30 3		17 2		50 4	
Zinc	236	J	297		665	J	44 9		976	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-DU-110999A		LPX-SD-2048-000.5-01-MAX		LPX-SD-2048-0204-01		LPX-SD-2049-01		LPX-SD-2050-01	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2050	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5		0 0-0 5	
Date Sampled	11/9/99		11/9/99		11/9/99		11/5/99		11/5/99	
QC Identifier	Field Dup. LPX-SD-2048-000 5-01		Field Dup. LPX-SD-2048-000.5-01		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D01026		D01024				D01004		D01003	
Acid Volatile Sulfide	16 72		16.72			NA	0 07518	U	16.62605	
Cadmium	0 008	J	0.01			NA	0 01167		0 0301	J
Copper	0 78	J	1.39			NA	0 20346		2 04076	
Lead	0 804		0.983			NA	0 16263		1 44103	
Mercury	0 00005	U	0 00005	U		NA	0 00005	UJ	0 00011	UJ
Nickel	0 82	J	0 82			NA	0 7837	J	2 22081	J
SEM/AVS	0 37		0 50				22 45173		1.01664	
Simultaneously Extracted Metal	6 19		7 81			NA	1 68791		16 9027	
Zinc	3 78	J	4 7			NA	0 52646		11 17	
Total Organic Carbon Analysis (MG/KG)	D01026		D01024				D01004		D01003	
Total Organic Carbon	62600		63100			NA	25200		116000	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2051-01		LPX-SD-2052-0.504-01		LPX-SD-2052-000.5-01		LPX-SD-2053-0.502-01		LPX-SD-2053-000.5-01	
Sample Location	LPX-SD-2051		LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053	
Interval	0.0-0.5		0.5-4.0		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		Field Dup LPX-SD-2053-000.5-01	
Semivolatile Organic Analysis (UG/KG)	D00997		D00996		D00991		D00994		D00992	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	2500	U	2400	U	4900	U	4900	U	4700	U
1,2-Dichlorobenzene	2500	U	2400	U	4900	U	4900	U	4700	U
1,3-Dichlorobenzene	2500	U	2400	U	4900	U	4900	U	4700	U
1,4-Dichlorobenzene	2500	U	2400	U	4900	U	4900	U	4700	U
2,2'-oxybis(1-Chloropropane)	2500	U	2400	U	4900	U	4900	U	4700	U
2,4,5-Trichlorophenol	6200	U	6100	U	12000	U	12000	U	12000	U
2,4,6-Trichlorophenol	2500	U	2400	U	4900	U	4900	U	4700	U
2,4-Dichlorophenol	2500	U	2400	U	4900	U	4900	U	4700	U
2,4-Dimethylphenol	2500	U	2400	U	4900	U	4900	U	4700	U
2,4-Dinitrophenol	6200	UJ	6100	UJ	12000	UJ	12000	UJ	12000	UJ
2,4-Dinitrotoluene	2500	U	2400	U	4900	U	4900	U	4700	U
2,6-Dinitrotoluene	2500	U	2400	U	4900	U	4900	U	4700	U
2-Chloronaphthalene	2500	U	2400	U	4900	U	4900	U	4700	U
2-Chlorophenol	2500	U	2400	U	4900	U	4900	U	4700	U
2-Methylnaphthalene	2500	U	2400	U	4900	U	4900	U	4700	U
2-Methylphenol	2500	U	2400	U	4900	U	4900	U	4700	U
2-Nitroaniline	6200	UJ	6100	UJ	12000	UJ	12000	UJ	12000	UJ
2-Nitrophenol	2500	U	2400	U	4900	U	4900	U	4700	U
3,3'-Dichlorobenzidine	2500	U	2400	U	4900	U	4900	U	4700	U
3-Nitroaniline	6200	U	6100	U	12000	U	12000	U	12000	U
4,6-Dinitro-2-methylphenol	6200	UJ	6100	UJ	12000	UJ	12000	UJ	12000	UJ
4-Bromophenyl-phenylether	2500	U	2400	U	4900	U	4900	U	4700	U
4-Chloro-3-methylphenol	2500	U	2400	U	4900	U	4900	U	4700	U
4-Chloroaniline	2500	U	2400	U	4900	U	4900	U	4700	U
4-Chlorophenyl-phenylether	2500	U	2400	U	4900	U	4900	U	4700	U
4-Methylphenol	2500	U	2400	U	4900	U	4900	U	4700	U
4-Nitroaniline	6200	U	6100	U	12000	U	12000	U	12000	U
4-Nitrophenol	6200	UJ	6100	UJ	12000	UJ	12000	UJ	12000	UJ
Acenaphthene	2500	U	2400	U	4900	U	4900	U	4700	U
Acenaphthylene	2500	U	2400	U	4900	U	4900	U	4700	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	2500	U	2400	U	4900	U	4900	U	4700	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2051-01		LPX-SD-2052-0 504-01		LPX-SD-2052-000 5-01		LPX-SD-2053-0 502-01		LPX-SD-2053-000.5-01	
Sample Location	LPX-SD-2051		LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053	
Interval	0 0-0 5		0 5-4 0		0 0-0 5		0 5-2.0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		Field Dup LPX-SD-2053-000 5-01	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	2500	U	270	J	1000	J	890	J	4700	U
Benzo(a)pyrene	2500	U	250	J	1100	J	720	J	4700	U
Benzo(b)fluoranthene	2500	U	310	J	1500	J	760	J	4700	U
Benzo(g,h,i)perylene	2500	U	2400	U	4900	U	530	J	4700	U
Benzo(k)fluoranthene	2500	U	260	J	1600	J	820	J	4700	U
Bis(2-Chloroethoxy)methane	2500	U	2400	U	4900	U	4900	U	4700	U
Bis(2-Chloroethyl)ether	2500	U	2400	U	4900	U	4900	U	4700	U
bis(2-Ethylhexyl)phthalate	260	J	2400	U	2500	J	870	J	4700	U
Butylbenzylphthalate	2500	U	2400	U	4900	U	4900	U	4700	U
Caprolactam		NA		NA		NA		NA		NA
Carbazole	2500	U	2400	U	4900	U	4900	U	4700	U
Chrysene	2500	U	370	J	1700	J	900	J	4700	U
Di-n-Butylphthalate	2500	U	2400	U	4900	U	4900	U	4700	U
Di-n-octylphthalate	2500	U	2400	U	4900	U	4900	U	4700	U
Dibenzo(a,h)anthracene	2500	U	2400	U	4900	U	4900	U	4700	U
Dibenzofuran	2500	U	2400	U	4900	U	4900	U	4700	U
Diethylphthalate	2500	U	2400	U	4900	U	4900	U	4700	U
Dimethylphthalate	2500	U	2400	U	4900	U	4900	U	4700	U
Fluoranthene	360	J	760	J	2800	J	1900	J	630	J
Fluorene	2500	U	2400	U	4900	U	4900	U	4700	U
Hexachlorobenzene	2500	U	2400	U	4900	U	4900	U	4700	U
Hexachlorobutadiene	2500	U	2400	U	4900	U	4900	U	4700	U
Hexachlorocyclopentadiene	2500	UJ	2400	UJ	4900	UJ	4900	UJ	4700	UJ
Hexachloroethane	2500	U	2400	U	4900	U	4900	U	4700	U
Indeno(1,2,3-cd)pyrene	2500	U	2400	U	960	J	530	J	4700	U
Isophorone	2500	U	2400	U	4900	U	4900	U	4700	U
N-Nitroso-di-n-propylamine	2500	U	2400	U	4900	U	4900	U	4700	U
N-Nitroso-diphenylamine	2500	U	2400	U	4900	U	4900	U	4700	U
Naphthalene	2500	U	2400	U	4900	U	4900	U	4700	U
Nitrobenzene	2500	U	2400	U	4900	U	4900	U	4700	U
Pentachlorophenol	6200	U	6100	U	12000	U	12000	U	12000	U
Phenanthrene	2500	U	420	J	1000	J	900	J	4700	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2051-01		LPX-SD-2052-0 504-01		LPX-SD-2052-000 5-01		LPX-SD-2053-0 502-01		LPX-SD-2053-000 5-01	
Sample Location	LPX-SD-2051		LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053	
Interval	0 0-0.5		0 5-4 0		0 0-0.5		0 5-2 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		Field Dup. LPX-SD-2053-000 5-01	
Phenol	2500	U	2400	U	4900	U	4900	U	4700	U
Pyrene	290	J	580	J	2200	J	1500	J	4700	U
Total PAH	2500	U	310		1500		930		4700	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2051-01		LPX-SD-2052-0 504-01		LPX-SD-2052-000 5-01		LPX-SD-2053-0 502-01		LPX-SD-2053-000 5-01	
Sample Location	LPX-SD-2051		LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053	
Interval	0 0-0 5		0 5-4 0		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		Field Dup. LPX-SD-2053-000 5-01	
Pesticide/PCB Analysis (UG/KG)	D00997		D00996		D00991		D00994		D00992	
4,4'-DDD	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
4,4'-DDE	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
4,4'-DDT	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
Aldrin	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
alpha-BHC	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
alpha-Chlordane	2 6	U	2 5	U	2 5	U	4 1		3 3	
Aroclor, Total	50		42		97		26		173	
Aroclor-1016	50	U	49	U	48	U	49	U	48	U
Aroclor-1221	100	U	99	U	97	U	100	U	97	U
Aroclor-1232	50	U	49	U	48	U	49	U	48	U
Aroclor-1242	50	U	49	U	48	U	49	U	48	U
Aroclor-1248	50	U	49	U	16	J	26	J	23	J
Aroclor-1254	50		42	J	81		49	U	130	
Aroclor-1260	50	U	49	U	48	U	49	U	20	J
beta-BHC	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
delta-BHC	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
Dieldrin	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
Endosulfan I	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
Endosulfan II	7 4	EB	6 9	EB	6 1		4 9	U	6 9	
Endosulfan Sulfate	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
Endrin	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
Endrin Aldehyde	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
Endrin Ketone	5 0	U	4 9	U	4 8	U	4 9	U	4 8	U
gamma-BHC	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
gamma-Chlordane	2 6	U	2 5	U	2 5	U	5 2		4 1	
Heptachlor	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
Heptachlor Epoxide	2 6	U	2 5	U	2 5	U	2 5	U	2 5	U
Methoxychlor	26	U	25	U	25	U	25	U	25	U
Toxaphene	260	U	250	U	250	U	250	U	250	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2051-01		LPX-SD-2052-0.504-01		LPX-SD-2052-000.5-01		LPX-SD-2053-0.502-01		LPX-SD-2053-000.5-01	
Sample Location	LPX-SD-2051		LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053	
Interval	0.0-0.5		0.5-4.0		0.0-0.5		0.5-2.0		0.0-0.5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		Field Dup. LPX-SD-2053-000.5-01	
Dioxin Analysis (NG/KG)	D00997		D00996		D00991		D00994		D00992	
1,2,3,4,6,7,8-HpCDD	935	J	95.0		1710	J	69.3		600	
1,2,3,4,6,7,8-HpCDF	232	J	22.7		575	J	17.9		162	
1,2,3,4,7,8,9-HpCDF	14.1	J	1.2	J	32.2	J	1.4	J	11.6	
1,2,3,4,7,8-HxCDD	16.4	J	2.8	J	26.5	J	0.98	J	11.0	
1,2,3,4,7,8-HxCDF	34.8	J	4.4	J	56.5	J	2.6	J	22.3	
1,2,3,6,7,8-HxCDD	42.8	J	5.2		82.5	J	3.2	J	29.1	
1,2,3,6,7,8-HxCDF	22.5	J	3.2	J	45.4	J	1.7	J	15.1	J
1,2,3,7,8,9-HxCDD	49.7	J	6.8		88.3	J	2.7	J	30.0	
1,2,3,7,8,9-HxCDF	1.3	UJ	0.90	U	3.5	J	0.80	U	1.8	U
1,2,3,7,8-PeCDD	27.3	J	5.4		20.3	J	1.1	J	9.0	
1,2,3,7,8-PeCDF	24.2	J	2.1	J	19.2	J	1.7	EMPC	5.8	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	542.04	J$	25.46	J	5220.15	J	10.13	J	624.18	J
2,3,4,6,7,8-HxCDF	25.1	J	2.4	J	49.6	J	2.5	J	17.2	
2,3,4,7,8-PeCDF	20.4	J	3.2	J	22.2	J	1.9	J	10.3	
2,3,7,8-TCDD	4030	J$	365		4350	J$	89.3		492	$
2,3,7,8-TCDF	59.2	J	10.0		52.3	J	3.8		28.5	
OCDD	4260	J$	428		6550	J$	500		2140	$
OCDF	330	J	21.0		904	J	41.1		300	J
Total HpCDD	1720	J	169	J	3410	J	151	J	1200	J
Total HpCDF	494	J	40.4	J	1280	J	46.0	J	374	J
Total HxCDD	369	J	44.9	J	648	J	23.0	J	235	J
Total HxCDF	403	J	40.5	J	875	J	29.6	J	279	J
Total PeCDD	166	J	33.1	J	78.4	J	2.0	J	65.9	J
Total PeCDF	513	J	68.4	J	526	J	30.9	J	201	J
Total TCDD	4300	J$	404	J	4350	J$	95.0	J	492	J$
Total TCDF	1060	J	155	J	700	J	39.7	J	346	J
Toxicity Equivalency	4110		377		4450		94.2		530	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2051-01		LPX-SD-2052-0 504-01		LPX-SD-2052-000 5-01		LPX-SD-2053-0.502-01		LPX-SD-2053-000 5-01	
Sample Location	LPX-SD-2051		LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053	
Interval	0 0-0.5		0 5-4 0		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		Field Dup. LPX-SD-2053-000 5-01	
TAL Metal Analysis (MG/KG)	D00997		D00996		D00991		D00994		D00992	
Aluminum	8820		7110		18000		3660		10000	
Antimony	2 2	J	5 0	J	2 7	J	0.37	J	0 93	J
Arsenic	4 8		6 0		7 7		6 4		6 1	
Barium	137		75 5		342		25 3		133	
Beryllium	2 0		0 66		4 3		0 33		1 4	
Cadmium	1 7		0 10	U	3 6		0 05	U	0 67	
Calcium	3420		1660		4440		599		2500	
Chromium	86 6		84 5		194		8 3		52 7	
Cobalt	10 3		5 7		16 5		2 3		8 8	
Copper	116		60 3		224		19 5		79 0	
Iron	17200		9870		31300		5070		14900	
Lead	194		105		434		109		238	
Magnesium	1710		1110		3400		795		2220	
Manganese	1240		340		1540		87 7		580	
Mercury	0 31		0 24		0 66	J	0 02	J	0 16	J
Nickel	53 2		14 8		66 8		7 2		35 5	
Potassium	979		485		1980	J	382		1130	J
Selenium	1 2	J	0 90	UJ	1 1	U	0 48	UJ	1 1	U
Silver	6 9	J	4 0	UJ	12 7		1 7	UJ	6 8	J
Sodium	261	U	114	U	424	UJ	54 1	U	223	UJ
Thallium	0 83	U	0 72	U	0 85	U	0 38	U	0 84	U
Vanadium	29 1		16 7		48 3		9 3		26 2	
Zinc	481		219		937		74 5		349	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SD-2051-01		LPX-SD-2052-0 504-01		LPX-SD-2052-000 5-01		LPX-SD-2053-0 502-01		LPX-SD-2053-000 5-01	
Sample Location	LPX-SD-2051		LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053	
Interval	0 0-0 5		0 5-4 0		0 0-0 5		0 5-2 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		Field Dup. LPX-SD-2053-000 5-01	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D00997				D00991				D00992	
Acid Volatile Sulfide	23.76348			NA	73.03			NA	25.07784	
Cadmium	0.02237	J		NA	0 058	J		NA	0 00965	J
Copper	1.70016			NA	3.26869			NA	1 14105	
Lead	1 075			NA	3 597			NA	1 19327	
Mercury	0.00009	UJ		NA	0.00018	UJ		NA	0.00008	UJ
Nickel	4.52961	J		NA	0.55212	J		NA	0.68823	J
SEM/AVS	0.75853				0.3406				0.30974	
Simultaneously Extracted Metal	18.02543			NA	24.87			NA	7.76765	
Zinc	10.69829			NA	17.4			NA	4.73543	
Total Organic Carbon Analysis (MG/KG)	D00997				D00991				D00992	
Total Organic Carbon	98100			NA	229000			NA	66600	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-DU-110499A		LPX-SD-2053-000 5-01-MAX		LPX-SD-2053-0204-01		RAB-SD-3004-01	
Sample Location	LPX-SD-2053		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/10/99	
QC Identifier	Field Dup LPX-SD-2053-000 5-01		Field Dup LPX-SD-2053-000 5-01		None		None	
Semivolatile Organic Analysis (UG/KG)	D00993		D00993		D00995		D01049	
1,1'-Biphenyl		NA		NA		NA		NA
1,2,4-Trichlorobenzene	4800	U	4800	U	4800	U	730	U
1,2-Dichlorobenzene	4800	U	4800	U	4800	U	730	U
1,3-Dichlorobenzene	4800	U	4800	U	4800	U	730	U
1,4-Dichlorobenzene	4800	U	4800	U	4800	U	730	U
2,2'-oxybis(1-Chloropropane)	4800	U	4800	U	4800	U	730	U
2,4,5-Trichlorophenol	12000	U	12000	U	12000	U	1800	U
2,4,6-Trichlorophenol	4800	U	4800	U	4800	U	730	U
2,4-Dichlorophenol	4800	U	4800	U	4800	U	730	U
2,4-Dimethylphenol	4800	U	4800	U	4800	U	730	U
2,4-Dinitrophenol	12000	U	12000	U	12000	UJ	1800	U
2,4-Dinitrotpluene	4800	U	4800	U	4800	U	730	U
2,6-Dinitrotoluene	4800	U	4800	U	4800	U	730	U
2-Chloronaphthalene	4800	U	4800	U	4800	U	730	U
2-Chlorophenol	4800	U	4800	U	4800	U	730	U
2-Methylnaphthalene	4800	U	4800	U	4800	UJ	730	U
2-Methylphenol	4800	U	4800	U	4800	U	730	U
2-Nitroaniline	12000	U	12000	U	12000	UJ	1800	U
2-Nitrophenol	4800	U	4800	U	4800	U	730	U
3,3'-Dichlorobenzidine	4800	U	4800	U	4800	U	730	U
3-Nitroaniline	12000	U	12000	U	12000	U	1800	U
4,6-Dinitro-2-methylphenol	12000	U	12000	U	12000	UJ	1800	U
4-Bromophenyl-phenylether	4800	U	4800	U	4800	U	730	U
4-Chloro-3-methylphenol	4800	U	4800	U	4800	U	730	U
4-Chloroaniline	4800	U	4800	U	4800	U	730	U
4-Chlorophenyl-phenylether	4800	U	4800	U	4800	U	730	U
4-Methylphenol	4800	U	4800	U	4800	U	730	U
4-Nitroaniline	12000	U	12000	U	12000	U	1800	U
4-Nitrophenol	12000	U	12000	U	12000	UJ	1800	U
Acenaphthene	4800	U	4800	U	4800	U	730	U
Acenaphthylene	4800	U	4800	U	4800	U	730	U
Acetophenone		NA		NA		NA		NA
Anthracene	4800	U	4800	U	4800	U	730	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-DU-110499A		LPX-SD-2053-000.5-01-MAX		LPX-SD-2053-0204-01		RAB-SD-3004-01	
Sample Location	LPX-SD-2053		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/10/99	
QC Identifier	Field Dup. LPX-SD-2053-000.5-01		Field Dup. LPX-SD-2053-000.5-01		None		None	
Atrazine		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA
Benzo(a)anthracene	1400	J	4700	U	820	J	410	J
Benzo(a)pyrene	1100	J	4700	U	800	J	500	J
Benzo(b)fluoranthene	1400	J	4700	U	1100	J	500	J
Benzo(g,h,i)perylene	4800	U	4800	U	610	J	390	J
Benzo(k)fluoranthene	1400	J	4700	U	860	J	560	J
Bis(2-Chloroethoxy)methane	4800	U	4800	U	4800	U	730	U
Bis(2-Chloroethyl)ether	4800	U	4800	U	4800	U	730	U
bis(2-Ethylhexyl)phthalate	1800	J	4700	U	1000	J	730	U
Butylbenzylphthalate	4800	UJ	4700	U	4800	U	730	UJ
Caprolactam		NA		NA		NA		NA
Carbazole	4800	U	4800	U	4800	U	89	J
Chrysene	1700	J	4700	U	1200	J	650	J
Di-n-Butylphthalate	4800	U	4800	U	4800	U	80	JEB
Di-n-octylphthalate	4800	UJ	4700	U	4800	U	730	UJ
Dibenzo(a,h)anthracene	4800	U	4800	U	4800	U	120	J
Dibenzofuran	4800	U	4800	U	4800	U	730	U
Diethylphthalate	4800	U	4800	U	4800	U	730	U
Dimethylphthalate	4800	U	4800	U	4800	U	730	U
Fluoranthene	3300	J	3300		2400	J	1300	
Fluorene	4800	U	4800	U	4800	U	730	U
Hexachlorobenzene	4800	U	4800	U	4800	U	730	U
Hexachlorobutadiene	4800	U	4800	U	4800	U	730	U
Hexachlorocyclopentadiene	4800	U	4800	U	4800	U	730	U
Hexachloroethane	4800	U	4800	U	4800	U	730	U
Indeno(1,2,3-cd)pyrene	740	J	4700	U	630	J	360	J
Isophorone	4800	U	4800	U	4800	U	730	U
N-Nitroso-di-n-propylamine	4800	U	4800	U	4800	U	730	U
N-Nitroso-diphenylamine	4800	U	4800	U	4800	U	730	U
Naphthalene	4800	U	4800	U	4800	U	730	U
Nitrobenzene	4800	U	4800	U	4800	U	730	U
Pentachlorophenol	12000	U	12000	U	12000	U	1800	U
Phenanthrene	2000	J	4700	U	860	J	600	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-DU-110499A		LPX-SD-2053-000.5-01-MAX		LPX-SD-2053-0204-01		RAB-SD-3004-01	
Sample Location	LPX-SD-2053		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004	
Interval	0.0-0.5		0.0-0.5		2.0-4.0		0.0-0.5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/10/99	
QC Identifier	Field Dup. LPX-SD-2053-000.5-01		Field Dup. LPX-SD-2053-000.5-01		None		None	
Phenol	4800	U	4800	U	4800	U	730	U
Pyrene	2700	J	4700	U	1900	J	980	J
Total PAH	1500		4700	U	1100		750	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-DU-110499A		LPX-SD-2053-000.5-01-MAX		LPX-SD-2053-0204-01		RAB-SD-3004-01	
Sample Location	LPX-SD-2053		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004	
Interval	0 0-0.5		0 0-0.5		2 0-4 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/10/99	
QC Identifier	Field Dup. LPX-SD-2053-000 5-01		Field Dup. LPX-SD-2053-000 5-01		None		None	
Pesticide/PCB Analysis (UG/KG)	D00993		D00993		D00995		D01049	
4,4'-DDD	4 8	U	4 8	U	4 9	U	7 3	U
4,4'-DDE	4 8	U	4 8	U	4 9	U	7 3	U
4,4'-DDT	4 8	U	4 8	U	4 9	U	7 3	U
Aldrin	2 5	U	2 5	U	2 5	U	3 8	U
alpha-BHC	2 5	U	2 5	U	2 5	U	3 8	U
alpha-Chlordane	2 5	U	3 3		2 5	U	3 8	U
Aroclor, Total	109		48	U	120		150	U
Aroclor-1016	48	U	48	U	49	U	73	U
Aroclor-1221	97	U	97	U	99	U	150	U
Aroclor-1232	48	U	48	U	49	U	73	U
Aroclor-1242	48	U	48	U	49	U	73	U
Aroclor-1248	16	J	23		49	U	73	U
Aroclor-1254	93		130		120		73	U
Aroclor-1260	48	U	48	U	49	U	73	U
beta-BHC	2 5	U	2 5	U	2 5	U	3 8	U
delta-BHC	2 5	U	2 5	U	2 5	U	3 8	U
Dieldrin	4 8	U	4 8	U	4 9	U	7 3	U
Endosulfan I	2 5	U	2 5	U	2 5	U	3 8	U
Endosulfan II	4 8	U	6 9		18	EB	7 3	U
Endosulfan Sulfate	4 8	U	4 8	U	4 9	U	7 3	U
Endrin	4 8	U	4 8	U	4 9	U	7 3	U
Endrin Aldehyde	4 8	U	4 8	U	4 9	U	7 3	U
Endrin Ketone	4 8	U	4 8	U	4 9	U	7 3	U
gamma-BHC	2 5	U	2 5	U	2 5	U	3 8	U
gamma-Chlordane	2 8		4 1		3 5		3 8	U
Heptachlor	2 5	U	2 5	U	2 5	U	3 8	U
Heptachlor Epoxide	2 5	U	2 5	U	2 5	U	3 8	U
Methoxychlor	25	U	25	U	25	U	38	U
Toxaphene	250	U	250	U	250	U	380	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-DU-110499A		LPX-SD-2053-000 5-01-MAX		LPX-SD-2053-0204-01		RAB-SD-3004-01	
Sample Location	LPX-SD-2053		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/10/99	
QC Identifier	Field Dup. LPX-SD-2053-000 5-01		Field Dup. LPX-SD-2053-000 5-01		None		None	
Dioxin Analysis (NG/KG)	D00993		D00992		D00995		D01049	
1,2,3,4,6,7,8-HpCDD	580		600		243		7 7	
1,2,3,4,6,7,8-HpCDF	154		162		306		1 9	U
1,2,3,4,7,8,9-HpCDF	12 2		12 2		11 9		0 60	U
1,2,3,4,7,8-HxCDD	9 8		11 0		5 5		0 40	U
1,2,3,4,7,8-HxCDF	20 5		22 3		28 8		0 40	U
1,2,3,6,7,8-HxCDD	27 2		29 1		12 7		0 40	U
1,2,3,6,7,8-HxCDF	14 2	J	15 1		38 5		0 30	U
1,2,3,7,8,9-HxCDD	28 9		30 0		16 5		0 40	U
1,2,3,7,8,9-HxCDF	1 3	U	1 8	U	2 0	EMPC	0 40	U
1,2,3,7,8-PeCDD	8 1		9 0		13 5		0 40	U
1,2,3,7,8-PeCDF	6 5	EMPC	6 5		20 5		0 30	U
1,2,4,5,7,8-hexachloro(9H)xanthene	608 9	J	624 18		34 16	J$	0 00	U
2,3,4,6,7,8-HxCDF	15 3		17 2		20 9		0 30	U
2,3,4,7,8-PeCDF	10 6		10 6		12 4		0 30	U
2,3,7,8-TCDD	756	$	756		489	$	4 5	EMPC
2,3,7,8-TCDF	26 7		28 5		25 6		0.30	U
OCDD	2750	$	2750		1200	J	55 6	JEB
OCDF	299	J	300		209	J	4 9	U
Total HpCDD	1180	J	1200		457	J	15 6	UJ
Total HpCDF	367	J	374		497	J	4 3	UJ
Total HxCDD	228	J	235		130	J	2 8	EMPC
Total HxCDF	267	J	279		368	J	2.1	EMPC
Total PeCDD	61 5	J	65 9		78 3	J	0 40	UJ
Total PeCDF	206	J	206		298	J	1 3	EMPC
Total TCDD	756	J$	756		528	J$	4 5	EMPC
Total TCDF	350	J	350		435	J	0 30	UJ
Toxicity Equivalency	792		792		531		5.0	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-DU-110499A		LPX-SD-2053-000.5-01-MAX		LPX-SD-2053-0204-01		RAB-SD-3004-01	
Sample Location	LPX-SD-2053		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004	
Interval	0 0-0.5		0 0-0 5		2 0-4 0		0 0-0.5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/10/99	
QC Identifier	Field Dup. LPX-SD-2053-000.5-01		Field Dup. LPX-SD-2053-000.5-01		None		None	
TAL Metal Analysis (MG/KG)	D00993		D00992		D00995		D01049	
Aluminum	12400		12400		7120		6110	
Antimony	0 95	J	0 95		5 2	J	0 82	UJ
Arsenic	7 8		7 8		14 8		1 8	J
Barium	163		163		61 9		59 7	
Beryllium	1 5		1 5		0 83	J	1 1	
Cadmium	0 95		0 95		0 93		0 13	UJ
Calcium	2960		2960		1060		1480	J
Chromium	65 7		65 7		124		7 1	
Cobalt	11 1		11 1		5 3		4 9	J
Copper	96 8		96 8		102		9 7	
Iron	18400		18400		11200		12200	
Lead	307		307		203		24 3	
Magnesium	2790		2790		1340		1150	J
Manganese	691		691		143		676	
Mercury	0 20	J	0 20		0 17		0 05	UJ
Nickel	43 7		43 7		26 2		4 4	J
Potassium	1440	J	1440		716		859	
Selenium	1 2	U	1 2	U	1 0	UJ	1 1	UJ
Silver	6 8	J	6 8		4 0	UJ	1 9	J
Sodium	258	UJ	258	U	103	U	56 3	U
Thallium	0 95	U	0 95	U	0 84	U	0 90	U
Vanadium	32 6		32 6		21 3		12 4	
Zinc	421		421		401		65 7	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-DU-110499A		LPX-SD-2053-000.5-01-MAX		LPX-SD-2053-0204-01		RAB-SD-3004-01	
Sample Location	LPX-SD-2053		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004	
Interval	0 0-0 5		0 0-0 5		2 0-4 0		0 0-0 5	
Date Sampled	11/4/99		11/4/99		11/4/99		11/10/99	
QC Identifier	Field Dup. LPX-SD-2053-000.5-01		Field Dup. LPX-SD-2053-000.5-01		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D00992				D01049	
Acid Volatile Sulfide		NA	25.07784			NA	1.01	
Cadmium		NA	0.00965			NA	0.002	U
Copper		NA	1.14105			NA	0.14	J
Lead		NA	1.19327			NA	0.104	
Mercury		NA	0.00008	U		NA	0.00005	U
Nickel		NA	0.68823			NA	0.24	J
SEM/AVS			0.30974				1.47	
Simultaneously Extracted Metal		NA	7.76765			NA	1.48	
Zinc		NA	4.73543			NA	1.0	J
Total Organic Carbon Analysis (MG/KG)	D00993		D00992				D01049	
Total Organic Carbon	235000		235000			NA	28800	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SD-3001-01		RCC-SD-3002-01		RCC-SD-DU-1110998		RCC-SD-3002-01-MAX		RCC-SD-3003-01	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3003	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		None	
Semivolatile Organic Analysis (UG/KG)	D01044		D01038		D01039		D01038		D01042	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	490	U	4900	U	2500	UJ	4900	U	4900	U
1,2-Dichlorobenzene	490	U	4900	U	2500	UJ	4900	U	4900	U
1,3-Dichlorobenzene	490	U	4900	U	2500	UJ	4900	U	4900	U
1,4-Dichlorobenzene	490	U	4900	U	2500	UJ	4900	U	4900	U
2,2'-oxybis(1-Chloropropane)	490	U	4900	U	2500	UJ	4900	U	4900	U
2,4,5-Trichlorophenol	1200	U	12000	U	6200	UJ	12000	U	12000	U
2,4,6-Trichlorophenol	490	U	4900	U	2500	UJ	4900	U	4900	U
2,4-Dichlorophenol	490	U	4900	U	2500	UJ	4900	U	4900	U
2,4-Dimethylphenol	490	U	4900	U	2500	UJ	4900	U	4900	U
2,4-Dinitrophenol	1200	UJ	12000	UJ	6200	UJ	12000	U	12000	UJ
2,4-Dinitrotoluene	490	UJ	4900	U	2500	UJ	4900	U	4900	U
2,6-Dinitrotoluene	490	U	4900	U	2500	UJ	4900	U	4900	U
2-Chloronaphthalene	490	U	4900	U	2500	UJ	4900	U	4900	U
2-Chlorophenol	490	U	4900	U	2500	UJ	4900	U	4900	U
2-Methylnaphthalene	490	U	4900	U	2500	UJ	4900	U	4900	U
2-Methylphenol	490	U	4900	U	2500	UJ	4900	U	4900	U
2-Nitroaniline	1200	UJ	12000	U	6200	UJ	12000	U	12000	U
2-Nitrophenol	490	U	4900	U	2500	UJ	4900	U	4900	U
3,3'-Dichlorobenzidine	490	U	4900	U	2500	UJ	4900	U	4900	U
3-Nitroaniline	1200	U	12000	U	6200	UJ	12000	U	12000	U
4,6-Dinitro-2-methylphenol	1200	U	12000	U	6200	UJ	12000	U	12000	U
4-Bromophenyl-phenylether	490	U	4900	U	2500	UJ	4900	U	4900	U
4-Chloro-3-methylphenol	490	U	4900	U	2500	UJ	4900	U	4900	U
4-Chloroaniline	490	U	4900	U	2500	UJ	4900	U	4900	U
4-Chlorophenyl-phenylether	490	U	4900	U	2500	UJ	4900	U	4900	U
4-Methylphenol	490	U	4900	U	380	J	4900	U	4900	U
4-Nitroaniline	1200	UJ	12000	U	6200	UJ	12000	U	12000	U
4-Nitrophenol	1200	UJ	12000	U	6200	UJ	12000	U	12000	U
Acenaphthene	490	U	4900	U	2500	UJ	4900	U	4900	U
Acenaphthylene	490	U	4900	U	2500	UJ	4900	U	4900	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	490	U	4900	U	250	UJ	4900	U	820	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SD-3001-01		RCC-SD-3002-01		RCC-SD-DU-111099B		RCC-SD-3002-01-MAX		RCC-SD-3003-01	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3003	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup RCC-SD-3002-01		Field Dup RCC-SD-3002-01		Field Dup RCC-SD-3002-01		None	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	150	J	990	J	1300	J	1300		3200	J
Benzo(a)pyrene	140	J	1200	J	1300	J	1300		3300	J
Benzo(b)fluoranthene	160	J	1100	J	1100	J	1100		3400	J
Benzo(g,h,i)perylene	56	J	710	J	930	J	930		1400	J
Benzo(k)fluoranthene	150	J	1200	J	1600	J	1600		3400	J
Bis(2-Chloroethoxy)methane	490	U	4900	U	2500	UJ	4900	U	4900	U
Bis(2-Chloroethyl)ether	490	U	4900	U	2500	UJ	4900	U	4900	U
bis(2-Ethylhexyl)phthalate	550		4900	U	2500	UJ	4900	U	4900	U
Butylbenzylphthalate	490	U	4900	U	2500	UJ	4900	U	4900	U
Caprolactam		NA		NA		NA		NA		NA
Carbazole	490	U	4900	U	2500	UJ	4900	U	880	J
Chrysene	170	J	1400	J	1600	J	1600		4200	J
Di-n-Butylphthalate	88	JEB	4900	U	260	JEB	4900	U	4900	U
Di-n-octylphthalate	490	U	4900	U	2500	UJ	4900	U	4900	U
Dibenzo(a,h)anthracene	490	U	4900	U	400	J	4900	U	4900	U
Dibenzofuran	490	U	4900	U	2500	UJ	4900	U	4900	U
Diethylphthalate	490	UJ	4900	U	2500	UJ	4900	U	4900	U
Dimethylphthalate	490	U	4900	U	2500	UJ	4900	U	4900	U
Fluoranthene	320	J	2100	J	2700	J	2700		8600	
Fluorene	490	U	4900	U	2500	UJ	4900	U	4900	U
Hexachlorobenzene	490	U	4900	U	2500	UJ	4900	U	4900	U
Hexachlorobutadiene	490	U	4900	U	2500	UJ	4900	U	4900	U
Hexachlorocyclopentadiene	490	U	4900	UJ	2500	UJ	4900	U	4900	U
Hexachloroethane	490	U	4900	U	2500	UJ	4900	U	4900	U
Indeno(1,2,3-cd)pyrene	63	J	700	J	920	J	920		1500	J
Isophorone	490	U	4900	U	2500	UJ	4900	U	4900	U
N-Nitroso-di-n-propylamine	490	U	4900	U	2500	UJ	4900	U	4900	U
N-Nitroso-diphenylamine	490	U	4900	U	2500	UJ	4900	U	4900	U
Naphthalene	490	U	4900	U	2500	UJ	4900	U	4900	U
Nitrobenzene	490	U	4900	U	2500	UJ	4900	U	4900	U
Pentachlorophenol	1200	U	12000	U	6200	UJ	12000	U	12000	U
Phenanthrene	190	J	1000	J	1400	J	1400		5400	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SD-3001-01		RCC-SD-3002-01		RCC-SD-DU-111099B		RCC-SD-3002-01-MAX		RCC-SD-3003-01	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3003	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		None	
Phenol	490	U	4900	U	2500	UJ	4900	U	4900	U
Pyrene	250	J	2100	J	2200	J	2200		5800	
Total PAH	180		1500		2000		1600		4100	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SD-3001-01		RCC-SD-3002-01		RCC-SD-DU-111099B		RCC-SD-3002-01-MAX		RCC-SD-3003-01	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3003	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0.5		0 0-0 5	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup RCC-SD-3002-01		Field Dup RCC-SD-3002-01		Field Dup RCC-SD-3002-01		None	
Pesticide/PCB Analysis (UG/KG)	D01044		D01038		D01039		D01038		D01042	
4,4'-DDD	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
4,4'-DDE	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
4,4'-DDT	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
Aldrin	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
alpha-BHC	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
alpha-Chlordane	2 5	UJ	2 5	U	2 5	U	2 5	U	12	
Aroclor, Total	23		86		252		210		99	U
Aroclor-1016	49	UJ	49	U	49	U	49	U	49	U
Aroclor-1221	99	UJ	100	U	100	U	100	U	99	U
Aroclor-1232	49	UJ	49	U	49	U	49	U	49	U
Aroclor-1242	49	UJ	49	U	49	U	49	U	49	U
Aroclor-1248	49	UJ	49	U	49	U	49	U	49	U
Aroclor-1254	23	J	86	J	210	J	210		49	U
Aroclor-1260	49	UJ	49	U	42	J	49	U	49	U
beta-BHC	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
delta-BHC	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
Dieldrin	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
Endosulfan I	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
Endosulfan II	4 9	UJ	5 3	J	13	J	13		4 9	U
Endosulfan Sulfate	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
Endrin	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
Endrin Aldehyde	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
Endrin Ketone	4 9	UJ	4 9	U	4 9	U	4 9	U	4 9	U
gamma-BHC	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
gamma-Chlordane	2 5	UJ	2 5	U	2 5	U	2 5	U	12	
Heptachlor	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
Heptachlor Epoxide	2 5	UJ	2 5	U	2 5	U	2 5	U	2 5	U
Methoxychlor	25	UJ	25	U	25	U	25	U	25	U
Toxaphene	250	UJ	250	U	250	U	250	U	250	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SD-3001-01		RCC-SD-3002-01		RCC-SD-DU-111099B		RCC-SD-3002-01-MAX		RCC-SD-3003-01	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3003	
Interval	0 0-0.5		0 0-0 5		0 0-0.5		0 0-0.5		0 0-0 5	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		None	
Dioxin Analysis (NG/KG)	D01044		D01038				D01038		D01042	
1,2,3,4,6,7,8-HpCDD	44 1		992			NA	992		241	
1,2,3,4,6,7,8-HpCDF	40 6		383			NA	383		46 0	
1,2,3,4,7,8,9-HpCDF	1 4	EMPC	22 1			NA	22 1		3 9	J
1,2,3,4,7,8-HxCDD	0 98	U	18 9			NA	18 9		4 2	J
1,2,3,4,7,8-HxCDF	3 4	U	60 5			NA	60 5		3 0	U
1,2,3,6,7,8-HxCDD	2 8	U	62 8			NA	62 8		10 9	
1,2,3,6,7,8-HxCDF	2 5	U	39 4			NA	39 4		2 4	U
1,2,3,7,8,9-HxCDD	3 3	U	55 5			NA	55 5		10 7	
1,2,3,7,8,9-HxCDF	0 30	U	2 2	U		NA	2 2	U	0 37	EMPC
1,2,3,7,8-PeCDD	0 62	EMPC	10 3			NA	10 3		1 8	U
1,2,3,7,8-PeCDF	0 79	U	11 6			NA	11 6		0 55	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	0 00	U	7 46	J		NA	7 46		0 00	U
2,3,4,6,7,8-HxCDF	2 9	U	49 0			NA	49 0		3 6	U
2,3,4,7,8-PeCDF	1 3	EMPC	24 5			NA	24 5		0 83	U
2,3,7,8-TCDD	0 43	J	6 5			NA	6 5		0 75	J
2,3,7,8-TCDF	3 5		58 9			NA	58 9		1 2	
OCDD	277	JEB	4890	J$EB		NA	4890		1670	JEB
OCDF	38 7		441			NA	441		126	
Total HpCDD	90 5	J	1950	J		NA	1950		434	J
Total HpCDF	76 3	J	877	J		NA	877		128	J
Total HxCDD	27 6	UJ	510	J		NA	510		70 8	J
Total HxCDF	47 9	J	724	J		NA	724		54 6	J
Total PeCDD	4 0	UJ	81 9	J		NA	81 9		9 2	UJ
Total PeCDF	19 9	UJ	457	J		NA	457		20 0	EMPC
Total TCDD	4 5	J	54 6	J		NA	54 6		1 9	J
Total TCDF	24 5	J	551	J		NA	551		4 2	J
Toxicity Equivalency	3 8		78 7			NA	78 7		8 2	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SD-3001-01		RCC-SD-3002-01		RCC-SD-DU-111099B		RCC-SD-3002-01-MAX		RCC-SD-3003-01	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3003	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		None	
TAL Metal Analysis (MG/KG)	D01044		D01038		D01039		D01038		D01042	
Aluminum	5620		10300		14100		14100		2800	
Antimony	0 73	UJ	3 3	J	4 6	J	4 6		0 92	J
Arsenic	2 9		8 3		9 6		9 6		0 93	J
Barium	67 7		163		202		202		29 0	
Beryllium	2 0		2 9		3 5		3 5		0 30	J
Cadmium	0 11	UJ	2 1	J	2 5	J	2 5		0 09	UJ
Calcium	1500	J	3290	J	4290	J	4290		2620	J
Chromium	24 3		216		360		360		26 6	
Cobalt	3 7	J	13 4	J	19 6	J	19 6		2 4	J
Copper	13 5		239		296		296		30 1	
Iron	6100		16700		21800		21800		9480	
Lead	34 8		290		380		380		43 1	
Magnesium	579	J	1760	J	2370	J	2370		1250	J
Manganese	81 8		580		707		707		257	
Mercury	0 05	J	0 29	J	0 29	J	0 29		0 04	UJ
Nickel	3 9	J	114		141		141		6 2	
Potassium	370		944		1440		1440		724	
Selenium	1 2	J	2 6	J	3 2	J	3 2		0 76	UJ
Silver	1 8	J	6 8		7 1		7 1		2 1	
Sodium	107	U	232		349		349		64 4	U
Thallium	0 80	U	1 6	U	1 5	U	1 6	U	0 60	U
Vanadium	10 6		69 3		93 3		93 3		9 5	
Zinc	49 2	J	640	J	856	J	856		100	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SD-3001-01		RCC-SD-3002-01		RCC-SD-DU-111099B		RCC-SD-3002-01-MAX		RCC-SD-3003-01	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3003	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		Field Dup. RCC-SD-3002-01		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D01044		D01038				D01038		D01042	
Acid Volatile Sulfide	0.11		27.28			NA	27.28		0.39	
Cadmium	0.002	U	0.02	J		NA	0.02			R
Copper	0.42	J	2.67	J		NA	2.67		0.42	J
Lead	0.143		1.07			NA	1.07		0.188	
Mercury	0.00005	U	0.0001	U		NA	0.0001	U	0.00004	U
Nickel	0.49	J	1.33	J		NA	1.33		0.11	J
SEM/AVS	14.14		0.53				0.53		5.61	
Simultaneously Extracted Metal	1.58		14.34			NA	14.34		2.19	
Zinc	0.53	J	9.25	J		NA	9.25		1.47	J
Total Organic Carbon Analysis (MG/KG)	D01044		D01038				D01038		D01042	
Total Orgahic Carbon	23600		81600			NA	81600		21600	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2009-01		WRC-SD-2010-01		01		WRC-SD-2011-000.5-01		WRC-SD-2012-01	
Sample Location	WRC-SD-2009		WRC-SD-2010		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0.0-0.5		0 0-0 5		0.5-1.5		0 0-0 5		0 0-0 5	
Date Sampled	11/1/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D00959		D00966		D00968		D00967		D00969	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	2400	U	4600	U	4200	U	4800	U	490	U
1,2-Dichlorobenzene	2400	U	4600	U	4200	U	4800	U	490	U
1,3-Dichlorobenzene	2400	U	4600	U	4200	U	4800	U	490	U
1,4-Dichlorobenzene	2400	U	4600	U	4200	U	4800	U	490	U
2,2'-oxybis(1-Chloropropane)	2400	U	4600	U	4200	U	4800	U	490	U
2,4,5-Trichlorophenol	6000	U	12000	U	10000	U	12000	U	1200	U
2,4,6-Trichlorophenol	2400	U	4600	U	4200	U	4800	U	490	U
2,4-Dichlorophenol	2400	U	4600	U	4200	U	4800	U	490	U
2,4-Dimethylphenol	2400	U	4600	U	4200	U	4800	U	490	U
2,4-Dinitrophenol		R		R		R		R		R
2,4-Dinitrotoluene	2400	U	4600	U	4200	U	4800	U	490	U
2,6-Dinitrotoluene	2400	U	4600	U	4200	U	4800	U	490	U
2-Chloronaphthalene	2400	U	4600	U	4200	U	4800	U	490	U
2-Chlorophenol	2400	U	4600	U	4200	U	4800	U	490	U
2-Methylnaphthalene	2400	U	4600	U	4200	U	4800	U	490	U
2-Methylphenol	2400	U	4600	U	4200	U	4800	U	490	U
2-Nitroaniline	6000	UJ	12000	UJ	10000	UJ	12000	UJ	1200	U
2-Nitrophenol	2400	U	4600	U	4200	U	4800	U	490	U
3,3'-Dichlorobenzidine	2400	U	4600	U	4200	U	4800	U	490	U
3-Nitroaniline	6000	U	12000	U	10000	U	12000	U	1200	U
4,6-Dinitro-2-methylphenol	6000	UJ	12000	UJ	10000	UJ	12000	UJ	1200	U
4-Bromophenyl-phenylether	2400	U	4600	U	4200	U	4800	U	490	U
4-Chloro-3-methylphenol	2400	U	4600	U	4200	U	4800	U	490	U
4-Chloroaniline	2400	U	4600	U	4200	U	4800	U	490	U
4-Chlorophenyl-phenylether	2400	U	4600	U	4200	U	4800	U	490	U
4-Methylphenol	2400	U	4600	U	4200	U	4800	U	490	U
4-Nitroaniline	6000	UJ	12000	UJ	10000	UJ	12000	UJ	1200	U
4-Nitrophenol		R		R		R		R		R
Acenaphthene	2400	U	4600	U	4200	U	1100	J	490	U
Acenaphthylene	2400	U	4600	U	4200	U	4800	U	490	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	370	J	490	J	640	J	3500	J	120	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2009-01		WRC-SD-2010-01		01		WRC-SD-2011-000.5-01		WRC-SD-2012-01	
Sample Location	WRC-SD-2009		WRC-SD-2010		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0.0-0.5		0.0-0.5		0.5-1.5		0.0-0.5		0.0-0.5	
Date Sampled	11/1/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	2700		1800	J	1700	J	6800		610	
Benzo(a)pyrene	1600	J	1400	J	1200	J	4800		600	
Benzo(b)fluoranthene	3400		1900	J	1400	J	5100		630	
Benzo(g,h,i)perylene	2400	U	4600	U	4200	U	4800	U	270	J
Benzo(k)fluoranthene	2500		1500	J	1500	J	5500		510	
Bis(2-Chloroethoxy)methane	2400	U	4600	U	4200	U	4800	U	490	U
Bis(2-Chloroethyl)ether	2400	U	4600	U	4200	U	4800	U	490	U
bis(2-Ethylhexyl)phthalate	700	J	530	J	4200	U	490	J	180	J
Butylbenzylphthalate	2400	U	4600	U	4200	U	4800	U	83	J
Caprolactam		NA		NA		NA		NA		NA
Carbazole	510	J	4600	U	4200	U	1700	J	110	J
Chrysene	3600		2000	J	1800	J	6300		760	
Di-n-Butylphthalate	2400	U	4600	U	4200	U	4800	U	490	U
Di-n-octylphthalate	2400	U	4600	U	4200	U	4800	U	490	UJ
Dibenzo(a,h)anthracene	600	J	4600	U	4200	U	1700	J	130	J
Dibenzofuran	2400	U	4600	U	4200	U	920	J	490	U
Diethylphthalate	2400	U	4600	U	4200	U	4800	U	490	U
Dimethylphthalate	2400	U	4600	U	4200	U	4800	U	490	U
Fluoranthene	8100		4900		4800		17000		1500	
Fluorene	240	J	4600	U	4200	U	1600	J	58	J
Hexachlorobenzene	2400	U	4600	U	4200	U	4800	U	490	U
Hexachlorobutadiene	2400	U	4600	U	4200	U	4800	U	490	U
Hexachlorocyclopentadiene	2400	UJ	4600	UJ	4200	UJ	4800	UJ	490	U
Hexachloroethane	2400	U	4600	U	4200	U	4800	U	490	U
Indeno(1,2,3-cd)pyrene	1400	J	910	J	770	J	3000	J	290	J
Isophorone	2400	U	4600	U	4200	U	4800	U	490	U
N-Nitroso-di-n-propylamine	2400	U	4600	U	4200	U	4800	U	490	U
N-Nitroso-diphenylamine	2400	U	4600	U	4200	U	4800	U	490	U
Naphthalene	2400	U	4600	U	4200	U	4800	U	490	U
Nitrobenzene	2400	U	4600	U	4200	U	4800	U	490	U
Pentachlorophenol	6000	UJ	12000	UJ	10000	UJ	12000	UJ	1200	U
Phenanthrene	3800		2300	J	3300	J	14000		860	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2009-01		WRC-SD-2010-01		01		WRC-SD-2011-000.5-01		WRC-SD-2012-01	
Sample Location	WRC-SD-2009		WRC-SD-2010		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0.0-0.5		0 0-0 5		0.5-1.5		0 0-0.5		0 0-0.5	
Date Sampled	11/1/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None	
Phenol	2400	U	4600	U	4200	U	4800	U	490	U
Pyrene	4800		3100	J	3200	J	12000		1300	
Total PAH	3200		1900		1600		8100		890	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2009-01		WRC-SD-2010-01		01		WRC-SD-2011-000.5-01		WRC-SD-2012-01	
Sample Location	WRC-SD-2009		WRC-SD-2010		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0.0-0.5		0.0-0.5		0.5-1.5		0.0-0.5		0.0-0.5	
Date Sampled	11/1/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D00959		D00966		D00968		D00967		D00969	
4,4'-DDD	4.7	U	4.6	J	4.1	U	4.7	U		R
4,4'-DDE	4.7	U	4.6	J	4.1	U	4.7	U		R
4,4'-DDT	4.7	U	4.6	J	4.1	U	4.7	U		R
Aldrin	2.4	U	2.4	J	2.1	U	2.4	U		R
alpha-BHC	2.4	U	2.4	J	2.1	U	2.4	U		R
alpha-Chlordane	3.9		2.4	J	2.1	U	2.4	U		R
Aroclor, Total	190		444		236		400		196	
Aroclor-1016	47	U	46	J	41	U	47	U		R
Aroclor-1221	96	U	93	J	84	U	96	U		R
Aroclor-1232	47	U	46	J	41	U	47	U		R
Aroclor-1242	47	U	46	J	41	U	47	U		R
Aroclor-1248	47	U	57	J	26	J	120		16	J
Aroclor-1254	190		110	J	210		280		180	J
Aroclor-1260	47	U	46	J	41	U	47	U		R
beta-BHC	2.4	U	2.4	J	2.1	U	2.4	U		R
delta-BHC	2.4	U	2.4	J	2.1	U	2.4	U		R
Dieldrin	4.7	U	4.6	J	4.1	U	4.7	U		R
Endosulfan I	2.4	U	2.4	J	2.1	U	2.4	U		R
Endosulfan II	4.7	U	7.0	J	9.8		15		7.2	J
Endosulfan Sulfate	4.7	U	4.6	J	4.1	U	4.7	U		R
Endrin	4.7	U	4.6	J	4.1	U	4.7	U		R
Endrin Aldehyde	4.7	U	4.6	J	4.1	U	4.7	U		R
Endrin Ketone	4.7	U	4.6	J	4.1	U	4.7	U		R
gamma-BHC	2.4	U	2.4	J	2.1	U	2.4	U		R
gamma-Chlordane	4.8		2.4	J	2.7		3.5			R
Heptachlor	2.4	U	2.4	J	2.1	U	2.4	U		R
Heptachlor Epoxide	2.4	U	2.4	J	2.1	U	2.4	U		R
Methoxychlor	24	U	24	J	21	U	24	U		R
Toxaphene	240	U	240	J	210	U	240	U		R

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2009-01		WRC-SD-2010-01		01		WRC-SD-2011-000.5-01		WRC-SD-2012-01	
Sample Location	WRC-SD-2009		WRC-SD-2010		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0 0-0 5		0 0-0 5		0 5-1 5		0 0-0 5		0 0-0 5	
Date Sampled	11/1/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None	
Dioxin Analysis (NG/KG)	D00959		D00966		D00968		D00967		D00969	
1,2,3,4,6,7,8-HpCDD	183		72 2		31 1		68 3		92 3	
1,2,3,4,6,7,8-HpCDF	47 8		26 6		11 7		25 8		150	
1,2,3,4,7,8,9-HpCDF	3 2	J	2 0	J	2 0	U	2 2	J	12 1	
1,2,3,4,7,8-HxCDD	3 1	J	1 4	J	1 5	U	1 5	J	1 9	J
1,2,3,4,7,8-HxCDF	3 7	J	2 9	J	1 7	J	3 5	J	23 9	
1,2,3,6,7,8-HxCDD	8 7		4 1	J	2 2	J	5 4		6 1	
1,2,3,6,7,8-HxCDF	3 5	J	1 8	J	1 2	J	2 3	J	24 2	
1,2,3,7,8,9-HxCDD	9 2		3 8	J	1 8	J	4 5	J	5 3	
1,2,3,7,8,9-HxCDF	0 40	U	0 60	U	1 1	U	0 70	U	2 0	J
1,2,3,7,8-PeCDD	2 4	J	1 8	J	1 1	U	1 7	J	2 3	J
1,2,3,7,8-PeCDF	4 3	EMPC	3 6	J	2 1	J	4 4	EMPC	10 5	
1,2,4,5,7,8-hexachloro(9H)xanthene	0 00	U	122 08	J	111 33	J	117 75	J	49 67	J$
2,3,4,6,7,8-HxCDF	5 0		2 8	J	1 3	J	2 8	J	15 9	
2,3,4,7,8-PeCDF	1 7	EMPC	1 5	J	0 80	U	1 9	J	7 5	
2,3,7,8-TCDD	6 3		194		313		210		407	$
2,3,7,8-TCDF	1 9		2 7		1 4		2 6		9 9	
OCDD	1270		536		210	J	526		584	J
OCDF	115		65 6		26 2	J	52 9		204	J
Total HpCDD	331	J	137	J	56 8	J	147	J	177	J
Total HpCDF	123	J	75 5	J	29 0	J	71 9	J	269	J
Total HxCDD	66 6	J	30 5	J	15 8	J	39 2	J	60 2	J
Total HxCDF	72 2	J	47 6	J	20 5	J	50 5	J	252	J
Total PeCDD	14 4	J	8 8	J	3 0	J	6 6	J	11 0	J
Total PeCDF	40 4	J	31 7	J	12 2	J	33 3	J	138	J
Total TCDD	11 1	J	201	J	327	J	218	J	419	J$
Total TCDF	23 2	J	17 2	J	11 1	J	16 1	J	96 8	J
Toxicity Equivalency	15 8		200		315		216		425	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2009-01		WRC-SD-2010-01		01		WRC-SD-2011-000.5-01		WRC-SD-2012-01	
Sample Location	WRC-SD-2009		WRC-SD-2010		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0 0-0.5		0 0-0.5		0.5-1.5		0 0-0 5		0 0-0 5	
Date Sampled	11/1/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None	
TAL Metal Analysis (MG/KG)	D00959		D00966		D00968		D00967		D00969	
Aluminum	2260		2680		1790		1860		4310	
Antimony	0.51	UJ	0 63	UJ	0.43	UJ	0 52	UJ	0 82	UJ
Arsenic	1.1	J	2 5		1 4		1.1	J	1 7	J
Barium	26.6	U	44.2	U	18 0	U	19.9	U	61 6	U
Beryllium	0.36		0 44		0.30		0.32	J	0.72	
Cadmium	0 08	U	0 10	U	0 07	U	0 08	U	0 13	U
Calcium	654		1030		434		539		3450	
Chromium	28 8		18 8		18 0		33 8		89 9	
Cobalt	2 9		3 9		1 7	J	3 6		8 6	
Copper	16 8		20 8		8 3		14 7		40 3	
Iron	5560		6480		4490		5680		65000	
Lead	46 2		84 2		22 3		71 0		107	
Magnesium	673		538		451		520		771	
Manganese	111		149		82 1		110		2050	
Mercury	0 02	J	0 04	J	0 03	J	0 03	J	0 19	J
Nickel	27 6		5 9		2 1	J	5 8		13 7	
Potassium	507	J	280	J	392	J	296	J	523	J
Selenium	0 70	U	0 86	U	0 59	U	0 70	U	1 1	U
Silver	2 4	UJ	2 0	UJ	1 5	UJ	2 1	UJ	16 0	
Sodium	81 1	UJ	94 6	UJ	56 4	UJ	73 3	UJ	143	UJ
Thallium	0 56	U	0 69	U	0 47	U	0 56	U		R
Vanadium	10 2		9 8		7 9		9 7		19 1	
Zinc	100		86 5		36 0	U	43 1	U	533	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2009-01		WRC-SD-2010-01		01		WRC-SD-2011-000.5-01		WRC-SD-2012-01	
Sample Location	WRC-SD-2009		WRC-SD-2010		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0.0-0.5		0 0-0 5		0 5-1 5		0 0-0 5		0.0-0 5	
Date Sampled	11/1/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D00959		D00966				D00967		D00969	
Acid Volatile Sulfide	0 15919		0.53			NA	0 52166		7 87186	
Cadmium	0 0013	U	0.001	U		NA	0 00121	U	0 00586	J
Copper	0 95824		0 22			NA	0 16621		0 4606	
Lead	0 14638		0 498			NA	0 1302		0 51078	
Mercury	0 00004	UJ	0 00003	UJ		NA	0 00004	UJ	0 00005	UJ
Nickel	2 92605	J	0 06	UJ		NA	0 09207	UJ	0 11409	UJ
SEM/AVS	31 86426		3 17				1 84296		0 65766	
Simultaneously Extracted Metal	5 07247		1 7			NA	0 96139		5 17698	
Zinc	1 04236	J	0 91	J		NA	0 57308	J	4 08564	J
Total Organic Carbon Analysis (MG/KG)	D00959		D00966				D00967		D00969	
Total Organic Carbon	10200		26700			NA	7920		32600	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2013-000.5-01		WRC-SD-2014-01		WRC-SD-2015-01		WRL-SD-2039-01		WRL-SD-2040-01	
Sample Location	WRC-SD-2013		WRC-SD-2014		WRC-SD-2015		WRL-SD-2039		WRL-SD-2040	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/1/99		11/1/99		11/1/99		10/25/99		10/25/99	
QC Identifier	None		None		None		None		Field Dup WRL-SD-2040-01	
Semivolatile Organic Analysis (UG/KG)	D00960		D00961		D00962		D00888		D00885	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	480	U	2100	U	9600	U	490	U	750	U
1,2-Dichlorobenzene	480	U	2100	U	9600	U	490	U	750	U
1,3-Dichlorobenzene	480	U	2100	U	9600	U	490	U	750	U
1,4-Dichlorobenzene	480	U	2100	U	9600	U	490	U	750	U
2,2'-oxybis(1-Chloropropane)	480	U	2100	U	9600	U	490	U	750	U
2,4,5-Trichlorophenol	1200	U	5400	U	24000	U	1200	U	1900	U
2,4,6-Trichlorophenol	480	U	2100	U	9600	U	490	UJ	750	U
2,4-Dichlorophenol	480	U	2100	U	9600	U	490	U	750	U
2,4-Dimethylphenol	480	U	2100	U	9600	U	490	U	750	U
2,4-Dinitrophenol		R		R		R	1200	U	1900	U
2,4-Dinitrotoluene	480	U	2100	U	9600	U	490	U	750	U
2,6-Dinitrotoluene	480	U	2100	U	9600	U	490	U	750	U
2-Chloronaphthalene	480	U	2100	U	9600	U	490	U	750	U
2-Chlorophenol	480	U	2100	U	9600	U	490	U	750	U
2-Methylnaphthalene	480	U	2100	U	9600	U	490	U	750	U
2-Methylphenol	480	U	2100	U	9600	U	490	U	750	U
2-Nitroaniline	1200	UJ	5400	UJ	24000	UJ	1200	U	1900	U
2-Nitrophenol	480	U	2100	U	9600	U	490	UJ	750	U
3,3'-Dichlorobenzidine	480	U	2100	U	9600	U	490	UJ	750	U
3-Nitroaniline	1200	U	5400	U	24000	U	1200	U	1900	U
4,6-Dinitro-2-methylphenol	1200	UJ	5400	UJ	24000	UJ	1200	U	1900	U
4-Bromophenyl-phenylether	480	U	2100	U	9600	U	490	U	750	U
4-Chloro-3-methylphenol	480	U	2100	U	9600	U	490	U	750	U
4-Chloroaniline	480	U	2100	U	9600	U	490	UJ	750	U
4-Chlorophenyl-phenylether	480	U	2100	U	9600	U	490	U	750	U
4-Methylphenol	480	U	2100	U	9600	U	490	U	750	U
4-Nitroaniline	1200	UJ	5400	UJ	24000	UJ	1200	U	1900	U
4-Nitrophenol		R		R		R	1200	U	1900	U
Acenaphthene	480	U	2100	U	9600	U	490	U	750	U
Acenaphthylene	480	U	2100	U	9600	U	490	U	750	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	480	U	2100	U	9600	U	490	U	750	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2013-000 5-01		WRC-SD-2014-01		WRC-SD-2015-01		WRL-SD-2039-01		WRL-SD-2040-01	
Sample Location	WRC-SD-2013		WRC-SD-2014		WRC-SD-2015		WRL-SD-2039		WRL-SD-2040	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/1/99		11/1/99		11/1/99		10/25/99		10/25/99	
QC Identifier	None		None		None		None		Field Dup WRL-SD-2040 01	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	110	J	440	J	3000	J	430	J	220	J
Benzo(a)pyrene	84	J	360	J	3000	J	440	J	200	J
Benzo(b)fluoranthene	99	J	520	J	3600	J	560		250	J
Benzo(g,h,i)perylene	480	U	2100	U	1500	J	56	J	130	J
Benzo(k)fluoranthene	130	J	480	J	3300	J	500		160	J
Bis(2-Chloroethoxy)methane	480	U	2100	U	9600	U	490	U	750	U
Bis(2-Chloroethyl)ether	480	U	2100	U	9600	U	490	U	750	U
bis(2-Ethylhexyl)phthalate	170	J	2100	U	12000		740	J	110	J
Butylbenzylphthalate	480	U	2100	U	9600	U	240	J	750	U
Caprolactam		NA		NA		NA		NA		NA
Carbazole	480	U	2100	U	9600	U	79	J	750	U
Chrysene	140	J	580	J	4100	J	630		260	J
Di-n-Butylphthalate	480	U	2100	U	9600	U	64	J	750	U
Di-n-octylphthalate	480	U	2100	U	9600	U	490	UJ	750	U
Dibenzo(a,h)anthracene	480	U	2100	U	9600	U	120	J	750	U
Dibenzofuran	480	U	2100	U	9600	U	490	U	750	U
Diethylphthalate	480	U	2100	U	9600	U	490	U	750	U
Dimethylphthalate	480	U	2100	U	9600	U	490	U	750	U
Fluoranthene	290	J	1200	J	6700	J	970		510	J
Fluorene	480	U	2100	U	9600	U	490	U	750	U
Hexachlorobenzene	480	U	2100	U	9600	U	490	U	750	U
Hexachlorobutadiene	480	U	2100	U	9600	U	490	U	750	U
Hexachlorocyclopentadiene	480	UJ	2100	UJ	9600	UJ	490	UJ	750	U
Hexachloroethane	480	U	2100	U	9600	U	490	U	750	U
Indeno(1,2,3-cd)pyrene	69	J	250	J	2100	J	330	J	130	J
Isophorone	480	U	2100	U	9600	U	490	U	750	U
N-Nitroso-di-n-propylamine	480	U	2100	U	9600	U	490	U	750	U
N-Nitroso-diphenylamine	480	U	2100	U	9600	U	490	U	750	U
Naphthalene	480	U	2100	U	9600	U	490	U	750	U
Nitrobenzene	480	U	2100	U	9600	U	490	U	750	U
Pentachlorophenol	1200	UJ	5400	UJ	24000	UJ	1200	UJ	1900	U
Phenanthrene	130	J	810	J	3100	J	480	J	290	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2013-000.5-01		WRC-SD-2014-01		WRC-SD-2015-01		WRL-SD-2039-01		WRL-SD-2040-01	
Sample Location	WRC-SD-2013		WRC-SD-2014		WRC-SD-2015		WRL-SD-2039		WRL-SD-2040	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/1/99		11/1/99		11/1/99		10/25/99		10/25/99	
QC Identifier	None		None		None		None		Field Dup WRL-SD-2040-01	
Phenol	480	U	2100	U	9600	U	490	U	750	U
Pyrene	220	J	780	J	5900	J	950		370	J
Total PAH	110		490		3900		700		260	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2013-000 5-01		WRC-SD-2014-01		WRC-SD-2015-01		WRL-SD-2039-01		WRL-SD-2040-01	
Sample Location	WRC-SD-2013		WRC-SD-2014		WRC-SD-2015		WRL-SD-2039		WRL-SD-2040	
Interval	0.0-0.5		0.0-0 5		0.0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	11/1/99		11/1/99		11/1/99		10/25/99		10/25/99	
QC Identifier	None		None		None		None		Field Dup WRL-SD-2040 01	
Pesticide/PCB Analysis (UG/KG)	D00960		D00961		D00962		D00888		D00885	
4,4'-DDD	4 9	U	4 3	U	4 8	U	4 9	U	3 8	U
4,4'-DDE	4 9	U	4 3	U	4 8	U	4 9	U	3 8	U
4,4'-DDT	4 9	U	4 3	U	21		4 9	U	3 8	U
Aldrin	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
alpha-BHC	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
alpha-Chlordane	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
Aroclor, Total	99	U	63		2410		40		28	
Aroclor-1016	49	U	43	U	48	U	49	U	38	U
Aroclor-1221	99	U	86	U	98	U	100	U	77	U
Aroclor-1232	49	U	43	U	48	U	49	U	38	U
Aroclor-1242	49	U	43	U	48	U	49	U	38	U
Aroclor-1248	49	U	43	U	140		49	U	38	U
Aroclor-1254	49	U	63		2000		40	J	28	J
Aroclor-1260	49	U	43	U	270		49	U	38	U
beta-BHC	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
delta-BHC	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
Dieldrin	4 9	U	4 3	U	4 8	U	4 9	U	3 8	U
Endosulfan I	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
Endosulfan II	4 9	U	4 3	U	160		4 9	U	3 8	U
Endosulfan Sulfate	4 9	U	4 3	U	4 8	U	4 9	U	3 8	U
Endrin	4 9	U	4 3	U	5 7		4 9	U	3 8	U
Endrin Aldehyde	4 9	U	4 3	U	4 8	U	4 9	U	3 8	U
Endrin Ketone	4 9	U	4 3	U	4 8	U	4 9	U	3 8	U
gamma-BHC	2 5	U	2 2	U	2 5	U	2 5	UJ	2 0	UJ
gamma-Chlordane	2 5	U	2 2	U	8 5		2 5	U	2 0	U
Heptachlor	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
Heptachlor Epoxide	2 5	U	2 2	U	2 5	U	2 5	U	2 0	U
Methoxychlor	25	U	22	U	25	U	25	U	20	U
Toxaphene	250	U	220	U	250	U	250	U	200	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2013-000.5-01		WRC-SD-2014-01		WRC-SD-2015-01		WRL-SD-2039-01		WRL-SD-2040-01	
Sample Location	WRC-SD-2013		WRC-SD-2014		WRC-SD-2015		WRL-SD-2039		WRL-SD-2040	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/1/99		11/1/99		11/1/99		10/25/99		10/25/99	
QC Identifier	None		None		None		None		Field Dup. WRL-SD-2040-01	
Dioxin Analysis (NG/KG)	D00960		D00961		D00962		D00888		D00885	
1,2,3,4,6,7,8-HpCDD	9.8		17.0	J	595	J	618		9.2	
1,2,3,4,6,7,8-HpCDF	6.0		6.7	J	314	J	241		3.4	J
1,2,3,4,7,8,9-HpCDF	0.60	U	1.1	UJ	19.0	J	12.2		0.30	U
1,2,3,4,7,8-HxCDD	0.50	U	0.80	UJ	10.3	J	7.9		0.30	U
1,2,3,4,7,8-HxCDF	1.7	J	1.4	J	48.4	J	17.6		0.48	U
1,2,3,6,7,8-HxCDD	0.61	EMPC	1.1	EMPC	35.5	J	23.8		0.41	EMPC
1,2,3,6,7,8-HxCDF	1.5	J	1.1	J	34.7	J	14.4	J	0.37	UJ
1,2,3,7,8,9-HxCDD	1.0	J	1.1	J	29.3	J	28.6		0.40	U
1,2,3,7,8,9-HxCDF	0.40	U	0.60	UJ	1.8	UJ	0.30	U	0.20	U
1,2,3,7,8-PeCDD	0.50	U	5.3	J	12.4	J	5.3		0.30	U
1,2,3,7,8-PeCDF	0.72	EMPC	1.3	EMPC	58.5	EMPC	14.7	EMPC	0.20	U
1,2,4,5,7,8-hexachloro(9H)xanthene	1.94	J	788.21	J$	1129.36	J$	1733.9	J$	9.41	J
2,3,4,6,7,8-HxCDF	1.4	J	1.9	J	48.5	J	17.3		0.53	U
2,3,4,7,8-PeCDF	0.57	EMPC	0.98	J	30.5	J	6.4		0.00	U
2,3,7,8-TCDD	58.6		8300	J$	7300	J$	2840	$	60.0	
2,3,7,8-TCDF	0.88	J	3.9	J	45.1	J	15.6		0.20	U
OCDD	63.6		107	J	2550	J$	3790	EB$	48.6	EB
OCDF	7.1	J	10.1	J	523	J	361	EB	4.2	EBJ
Total HpCDD	19.5	J	31.6	J	1140	J	1210	J	16.9	J
Total HpCDF	11.5	J	17.7	J	802	J	548	J	7.2	J
Total HxCDD	9.0	J	8.6	J	311	J	200	J	3.2	EMPC
Total HxCDF	19.0	J	25.9	J	1190	J	331	J	6.6	EMPC
Total PeCDD	1.4	EMPC	12.2	J	82.6	J	24.5	J	0.31	EMPC
Total PeCDF	10.9	J	38.1	J	900	J	196	J	4.0	EMPC
Total TCDD	63.7	J	8400	J$	7600	J$	2840	J$	60.0	J
Total TCDF	8.1	J	51.1	J	777	J	207	J	0.00	UJ
Toxicity Equivalency	60.1		8310		7370		2870		60.5	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2013-000.5-01		WRC-SD-2014-01		WRC-SD-2015-01		WRL-SD-2039-01		WRL-SD-2040-01	
Sample Location	WRC-SD-2013		WRC-SD-2014		WRC-SD-2015		WRL-SD-2039		WRL-SD-2040	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/1/99		11/1/99		11/1/99		10/25/99		10/25/99	
QC Identifier	None		None		None		None		Field Dup. WRL-SD-2040-01	
TAL Metal Analysis (MG/KG)	D00960		D00961		D00962		D00888		D00885	
Aluminum	4990		1960		7020		2670		2140	
Antimony	0.54	UJ	0.45	UJ	3.3	J	1.1	J	0.68	U
Arsenic	0.83	U	0.69	U	4.9		4.7		0.04	U
Barium	41.5	U	15.7	U	181		48.9		19.4	
Beryllium	1.2		0.23	J	1.4		0.62		0.25	
Cadmium	0.08	U	0.07	U	1.4		1.3		0.07	U
Calcium	2350		383		802		1110		338	
Chromium	10.8		13.5		242		33.6		4.3	J
Cobalt	3.3		2.3	J	6.6		3.7	U	2.4	U
Copper	9.3		9.1		303		36.1		5.3	U
Iron	10000		5780		13900		5780		6400	
Lead	22.7		26.3		321		173		11.5	
Magnesium	883		497		1300		597		640	
Manganese	333		108		256		310		297	
Mercury	0.03	J	0.03	J	0.35	J	0.19		0.01	U
Nickel	7.0		4.8		42.5		10.1		4.7	U
Potassium	348	J	393	J	699	J	341		349	
Selenium	0.73	U	0.61	U	1.1	J	0.93	U	1.0	U
Silver	2.8	UJ	1.5	UJ	5.0	UJ	5.7		1.5	U
Sodium	188	UJ	48.4	UJ	143	UJ	69.7		38.1	
Thallium	0.58	U	0.49	U	0.53	U	0.42	U	0.73	J
Vanadium	8.7		6.3		89.3		10.6		4.0	
Zinc	61.2		29.2	U	705		159		61.8	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SD-2013-000.5-01		WRC-SD-2014-01		WRC-SD-2015-01		WRL-SD-2039-01		WRL-SD-2040-01	
Sample Location	WRC-SD-2013		WRC-SD-2014		WRC-SD-2015		WRL-SD-2039		WRL-SD-2040	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	11/1/99		11/1/99		11/1/99		10/25/99		10/25/99	
QC Identifier	None		None		None		None		Field Dup WRL-SD-2040-01	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D00960		D00961		D00962		D00888		D00885	
Acid Volatile Sulfide	14.52087		0.05057	U	0.95443		16.3238		0.0458	U
Cadmium	0.00215	U	0.00115	U	0.01387	J	0.01101	J	0.00105	U
Copper	0.32788		0.21942		3.82204		1.19111	J	0.09161	UJ
Lead	0.06919		0.36153		1.49978		0.63265		0.08113	U
Mercury	0.00006	UJ	0.00003	UJ	0.00005	UJ	0.00006	U	0.00006	U
Nickel	0.96052	J	0.61924	J	1.1699	J	0.66776	J	0.09915	UJ
SEM/AVS	0.14593		28.67592		17.19212		0.45176		21.7022	
Simultaneously Extracted Metal	2.11905		1.45		16.40867		7.3744		0.99404	
Zinc	0.76169	J	0.25048	J	9.90326	J	4.87183		0.72269	
Total Organic Carbon Analysis (MG/KG)	D00960		D00961		D00962		D00888		D00885	
Total Organic Carbon	83600		2690		41700		87700		1440	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-DU-102599A		WRL-SD-2040-01-MAX		WRL-SD-2041-01		WRL-SD-2042-01		WRL-SD-2043-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2041		WRL-SD-2042		WRL-SD-2043	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/25/99		10/25/99		10/25/99		11/2/99		11/8/99	
QC Identifier	Field Dup. WRL-SD-2040-01		Field Dup. WRL-SD-2040-01		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D00886		D00885		D00887		D00974		D01009	
1,1'-Biphenyl		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	780	U	780	U	490	U	4600	U	4900	U
1,2-Dichlorobenzene	780	U	780	U	490	U	4600	U	4900	U
1,3-Dichlorobenzene	780	U	780	U	490	U	4600	U	4900	U
1,4-Dichlorobenzene	780	U	780	U	490	U	4600	U	4900	U
2,2'-oxybis(1-Chloropropane)	780	U	780	U	490	U	4600	U	4900	U
2,4,5-Trichlorophenol	2000	U	2000	U	1200	U	12000	U	12000	U
2,4,6-Trichlorophenol	780	U	780	U	490	U	4600	U	4900	U
2,4-Dichlorophenol	780	U	780	U	490	U	4600	U	4900	U
2,4-Dimethylphenol	780	U	780	U	490	U	4600	U	4900	U
2,4-Dinitrophenol	2000	U	2000	U		R		R	12000	U
2,4-Dinitrotoluene	780	U	780	U	490	UJ	4600	U	4900	U
2,6-Dinitrotoluene	780	U	780	U	490	UJ	4600	U	4900	U
2-Chloronaphthalene	780	U	780	U	490	U	4600	U	4900	U
2-Chlorophenol	780	U	780	U	490	U	4600	U	4900	U
2-Methylnaphthalene	780	U	780	U	490	U	4600	U	4900	U
2-Methylphenol	780	U	780	U	490	U	4600	U	4900	U
2-Nitroaniline	2000	U	2000	U	1200	U	12000	UJ	12000	U
2-Nitrophenol	780	U	780	U	490	U	4600	U	4900	U
3,3'-Dichlorobenzidine	780	U	780	U	490	U	4600	U	4900	U
3-Nitroaniline	2000	U	2000	U	1200	UJ	12000	U	12000	U
4,6-Dinitro-2-methylphenol	2000	U	2000	U	1200	UJ	12000	UJ	12000	U
4-Bromophenyl-phenylether	780	U	780	U	490	U	4600	U	4900	U
4-Chloro-3-methylphenol	780	U	780	U	490	U	4600	U	4900	U
4-Chloroaniline	780	U	780	U	490	U	4600	U	4900	U
4-Chlorophenyl-phenylether	780	U	780	U	490	U	4600	U	4900	U
4-Methylphenol	780	U	780	U	490	U	4600	U	4900	U
4-Nitroaniline	2000	U	2000	U	1200	U	12000	UJ	12000	U
4-Nitrophenol	2000	U	2000	U	1200	UJ		R	12000	U
Acenaphthene	780	U	780	U	92	J	4600	U	4900	U
Acenaphthylene	780	U	780	U	490	U	4600	U	4900	U
Acetophenone		NA		NA		NA		NA		NA
Anthracene	780	U	780	U	280	J	550	J	4900	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-DU-102599A		WRL-SD-2040-01-MAX		WRL-SD-2041-01		WRL-SD-2042-01		WRL-SD-2043-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2041		WRL-SD-2042		WRL-SD-2043	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/25/99		10/25/99		10/25/99		11/2/99		11/8/99	
QC Identifier	Field Dup. WRL-SD-2040-01		Field Dup. WRL-SD-2040-01		None		None		None	
Atrazine		NA		NA		NA		NA		NA
Benzaldehyde		NA		NA		NA		NA		NA
Benzo(a)anthracene	300	J	300		1300		2900	J	1700	J
Benzo(a)pyrene	310	J	310		1300		2400	J	1700	J
Benzo(b)fluoranthene	300	J	300		1500		3000	J	1800	J
Benzo(g,h,i)perylene	180	J	180		380	J	4600	U	980	J
Benzo(k)fluoranthene	250	J	250		1300		3500	J	1500	J
Bis(2-Chloroethoxy)methane	780	U	780	U	490	U	4600	U	4900	U
Bis(2-Chloroethyl)ether	780	U	780	U	490	U	4600	U	4900	U
bis(2-Ethylhexyl)phthalate	110	J	110		960		1700	J	1300	J
Butylbenzylphthalate	780	U	780	U	130	J	4600	U	4900	UJ
Caprolactam		NA		NA		NA		NA		NA
Carbazole	780	U	780	U	250	J	4600	U	4900	U
Chrysene	370	J	370		1700		3800	J	2300	J
Di-n-Butylphthalate	780	U	780	U	99	J	4600	U	4900	U
Di-n-octylphthalate	780	U	780	U	490	U	4600	U	4900	UJ
Dibenzo(a,h)anthracene	780	U	780	U	340	J	920	J	4900	U
Dibenzofuran	780	U	780	U	54	J	4600	U	4900	U
Diethylphthalate	780	U	780	U	490	U	4600	U	4900	U
Dimethylphthalate	780	U	780	U	490	U	4600	U	4900	U
Fluoranthene	690	J	690		2500		7800		4100	J
Fluorene	780	U	780	U	130	J	4600	U	4900	U
Hexachlorobenzene	780	U	780	U	490	U	4600	U	4900	U
Hexachlorobutadiene	780	U	780	U	490	U	4600	U	4900	U
Hexachlorocyclopentadiene	780	U	780	U	490	UJ	4600	UJ	4900	U
Hexachloroethane	780	U	780	U	490	U	4600	U	4900	U
Indeno(1,2,3-cd)pyrene	180	J	180		750		1900	J	1000	J
Isophorone	780	U	780	U	490	U	4600	U	4900	U
N-Nitroso-di-n-propylamine	780	U	780	U	490	U	4600	U	4900	U
N-Nitroso-diphenylamine	780	U	780	U	490	U	4600	U	4900	U
Naphthalene	780	U	780	U	490	U	4600	U	4900	U
Nitrobenzene	780	U	780	U	490	U	4600	U	4900	U
Pentachlorophenol	2000	U	2000	U	1200	UJ	12000	UJ	12000	U
Phenanthrene	360	J	360		1600		3000	J	2100	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-DU-102599A		WRL-SD-2040-01-MAX		WRL-SD-2041-01		WRL-SD-2042-01		WRL-SD-2043-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2041		WRL-SD-2042		WRL-SD-2043	
Interval	0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5		0 0-0 5	
Date Sampled	10/25/99		10/25/99		10/25/99		11/2/99		11/8/99	
QC Identifier	Field Dup. WRL-SD-2040-01		Field Dup. WRL-SD-2040-01		None		None		None	
Phenol	780	U	780	U	490	U	4600	U	4900	U
Pyrene	570	J	570		2700		5400		3400	J
Total PAH	390		390		2000		4100		2200	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-DU-102599A		WRL-SD-2040-01-MAX		WRL-SD-2041-01		WRL-SD-2042-01		WRL-SD-2043-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2041		WRL-SD-2042		WRL-SD-2043	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/25/99		10/25/99		10/25/99		11/2/99		11/8/99	
QC Identifier	Field Dup. WRL-SD-2040-01		Field Dup. WRL-SD-2040-01		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D00886		D00885		D00887		D00974		D01009	
4,4'-DDD	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
4,4'-DDE	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
4,4'-DDT	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
Aldrin	2.0	U	2.0	U	2.5	U	2.4	U	2.5	U
alpha-BHC	2.0	U	2.0	U	2.5	U	2.4	U	2.5	U
alpha-Chlordane	2.0	U	2.0	U	17		7.5		4.4	
Aroclor, Total	31		31		210		361		307	
Aroclor-1016	38	U	38	U	49	U	46	U	49	U
Aroclor-1221	77	U	77	U	99	U	94	U	100	U
Aroclor-1232	38	U	38	U	49	U	46	U	49	U
Aroclor-1242	38	U	38	U	49	U	46	U	49	U
Aroclor-1248	38	U	38	U	49	U	31	J	47	J
Aroclor-1254	31	J	31		210		330		260	
Aroclor-1260	38	U	38	U	49	U	46	U	49	U
beta-BHC	2.0	U	2.0	U	2.5	U	2.4	U	2.5	U
delta-BHC	2.0	U	2.0	U	2.5	U	2.4	U	2.5	U
Dieldrin	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
Endosulfan I	2.0	U	2.0	U	2.5	U	2.4	U	2.5	U
Endosulfan II	3.8	U	3.8	U	15		17		13	EB
Endosulfan Sulfate	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
Endrin	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
Endrin Aldehyde	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
Endrin Ketone	3.8	U	3.8	U	4.9	U	4.6	U	4.9	U
gamma-BHC	2.0	UJ	2.0	U	2.5	UJ	2.4	U	2.5	U
gamma-Chlordane	2.0	U	2.0	U	14		9.9		6.9	
Heptachlor	2.0	U	2.0	U	2.5	U	2.4	U	2.5	U
Heptachlor Epoxide	2.0	U	2.0	U	2.5	U	2.4	U	2.5	U
Methoxychlor	20	U	20	U	25	U	24	U	25	U
Toxaphene	200	U	200	U	250	U	240	U	250	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-DU-102599A		WRL-SD-2040-01-MAX		WRL-SD-2041-01		WRL-SD-2042-01		WRL-SD-2043-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2041		WRL-SD-2042		WRL-SD-2043	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/25/99		10/25/99		10/25/99		11/2/99		11/8/99	
QC Identifier	Field Dup. WRL-SD-2040-01		Field Dup. WRL-SD-2040-01		None		None		None	
Dioxin Analysis (NG/KG)	D00886		D00886		D00887		D00974		D01009	
1,2,3,4,6,7,8-HpCDD	5.7		9.2		502		658	J	707	J
1,2,3,4,6,7,8-HpCDF	3.0	J	3.4		171		219	J	312	J
1,2,3,4,7,8,9-HpCDF	0.20	U	0.30	U	10.3		11.2	J	14.5	J
1,2,3,4,7,8-HxCDD	0.10	U	0.30	U	5.8		10.7	J	12.2	J
1,2,3,4,7,8-HxCDF	0.41	U	0.48	U	14.1		25.5	J	24.5	J
1,2,3,6,7,8-HxCDD	0.26	EMPC	0.41		16.8		31.0	J	31.8	J
1,2,3,6,7,8-HxCDF	0.26	UJ	0.37	U	10.4	J	18.5	J	17.4	J
1,2,3,7,8,9-HxCDD	0.30	U	0.40	U	16.6		30.8	J	32.2	J
1,2,3,7,8,9-HxCDF	0.09	U	0.20	U	0.70	U	2.2	J	2.2	J
1,2,3,7,8-PeCDD	0.10	U	0.30	U	3.7	J	8.1	J	8.1	J
1,2,3,7,8-PeCDF	0.10	U	0.20	U	7.4		16.7	J	2.5	J
1,2,4,5,7,8-hexachloro(9H)xanthene	12.56	J	12.56		1907.2	J$	2382.62	J	1080.618	J
2,3,4,6,7,8-HxCDF	0.38	U	0.53	U	12.8		22.2	J	21.5	J
2,3,4,7,8-PeCDF	0.00	U		NA	4.9	J	8.6	J	9.2	J
2,3,7,8-TCDD	80.8		80.8		3150	$	2010	J$	3230	J&
2,3,7,8-TCDF	0.60	U	0.60	U	11.1		19.7	J	21.6	J
OCDD	38.8	EB	48.6		3810	EB	2750	J$	4210	J&
OCDF	3.1	EBJ	4.2		289	EB	352	J	514	J
Total HpCDD	10.7	UJ	16.9		1220	J	1380	J	1430	J
Total HpCDF	6.1	J	7.2		438	J	459	J	737	J
Total HxCDD	2.1	EMPC	3.2		146	J	242	J	266	J
Total HxCDF	6.1	EMPC	6.6		243	J	395	J	424	J
Total PeCDD	0.92	EMPC	0.92		20.3	J	26.8	J	61.2	J
Total PeCDF	3.6	EMPC	4.0		143	J	267	J	307	J
Total TCDD	83.5	J	83.5		3240	J$	2010	J$	3230	J&
Total TCDF	6.7	EMPC	6.7		128	J	227	J	244	J
Toxicity Equivalency	81.1		81.1		3170		2050		3270	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-DU-102599A		WRL-SD-2040-01-MAX		WRL-SD-2041-01		WRL-SD-2042-01		WRL-SD-2043-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2041		WRL-SD-2042		WRL-SD-2043	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/25/99		10/25/99		10/25/99		11/2/99		11/8/99	
QC Identifier	Field Dup. WRL-SD-2040-01		Field Dup. WRL-SD-2040-01		None		None		None	
TAL Metal Analysis (MG/KG)	D00886		D00886		D00887		D00974		D01009	
Aluminum	2260		2260		5960		8740		7820	
Antimony	0.58	U	0.68	U	1.6	J	1.2	J	2.4	J
Arsenic	0.54	U	0.64	U	6.5		3.9		3.0	
Barium	22.6		22.6		82.9		99.5		107	
Beryllium	0.17	J	0.25		0.81		1.7		1.5	
Cadmium	0.06	U	0.07	U	0.52		0.17		0.72	
Calcium	294		338		1490		1990		2560	
Chromium	6.9		6.9		56.1		90.2		91.1	
Cobalt	3.1	U	3.1	U	5.4	U	5.9		7.3	
Copper	5.5	U	5.5	U	58.5		72.1		88.9	
Iron	5600		6400		10400		13300		13100	
Lead	12.2		12.2		145		198		198	
Magnesium	959		959		1470		2010		1940	
Manganese	268		297		287		431		405	
Mercury	0.01	U	0.01	U	0.11		0.02	UJ	0.28	
Nickel	5.9	U	5.9	U	21.2		18.0		23.1	
Potassium	606		606		863		937	J	1020	
Selenium	0.89	U	1.0	U	1.3	U	0.83	U	0.94	UJ
Silver	1.6	U	1.6	U	3.2	U	4.3	UJ	5.6	UJ
Sodium	29.2		38.1		110		203	UJ	188	U
Thallium	0.43	J	0.73		0.78	J	0.66	U	0.75	U
Vanadium	7.3		7.3		23.6		33.7		30.3	
Zinc	56.1		61.8		260		191		300	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-DU-102599A		WRL-SD-2040-01-MAX		WRL-SD-2041-01		WRL-SD-2042-01		WRL-SD-2043-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2041		WRL-SD-2042		WRL-SD-2043	
Interval	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Date Sampled	10/25/99		10/25/99		10/25/99		11/2/99		11/8/99	
QC Identifier	Field Dup. WRL-SD-2040-01		Field Dup. WRL-SD-2040-01		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)	D00886		D00885		D00887		D00974		D01009	
Acid Volatile Sulfide	0.04617	U	0.04617	U	2.86481		0.2971		7.06833	
Cadmium	0.00105	U	0.00105	U	0.00516	J	0.00409	J	0.00699	J
Copper	0.68485	J	0.68485		2.01104	J	1.30561		1.07088	
Lead	0.07724	U	0.08113	U	0.64948		1.06021		0.837	
Mercury	0.00003	U	0.00006	U	0.00006	U	0.00007	UJ	0.00007	UJ
Nickel	1.5034	J	1.5034		1.68277	J	0.99261	J	1.01145	J
SEM/AVS	62.10195		62.10195		2.74631		19.10489		1.02729	
Simultaneously Extracted Metal	2.86751		2.86751		7.86767		5.67608		7.26121	
Zinc	0.60282		0.72269		3.51914		2.31352		4.3329	
Total Organic Carbon Analysis (MG/KG)	D00886		D00885		D00887		D00974		D01009	
Total Organic Carbon	3000		3000		38100		67200		60100	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SD-2044-0.502-01		WRL-SD-2044-000.5-01		WRL-SD-2044-0203-01		WRM-SD-2054-01	
Sample Location	WRL-SD-2044		WRL-SD-2044		WRL-SD-2044		WRM-SD-2054	
Interval	0.5-2.0		0.0-0.5		2.0-3.0		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		12/2/99	
QC Identifier	None		None		None		None	
Semivolatile Organic Analysis (UG/KG)	D01033		D01032		D01034		APK64	
1,1'-Biphenyl		NA		NA		NA	700	U
1,2,4-Trichlorobenzene	2500	UJ	4900	UJ	500	UJ		NA
1,2-Dichlorobenzene	2500	UJ	4900	U	500	UJ		NA
1,3-Dichlorobenzene	2500	UJ	4900	U	500	UJ		NA
1,4-Dichlorobenzene	2500	UJ	4900	UJ	500	UJ		NA
2,2'-oxybis(1-Chloropropane)	2500	UJ	4900	U	500	UJ	700	U
2,4,5-Trichlorophenol	6200	UJ	12000	U	1200	UJ	1800	U
2,4,6-Trichlorophenol	2500	UJ	4900	U	500	UJ	700	U
2,4-Dichlorophenol	2500	UJ	4900	U	500	UJ	700	U
2,4-Dimethylphenol	2500	UJ	4900	U	500	UJ	700	U
2,4-Dinitrophenol	6200	UJ	12000	UJ	1200	UJ	1800	U
2,4-Dinitrotoluene	2500	UJ	4900	U	500	UJ	700	U
2,6-Dinitrotoluene	2500	UJ	4900	U	500	UJ	700	U
2-Chloronaphthalene	2500	UJ	4900	U	500	UJ	700	U
2-Chlorophenol	2500	UJ	4900	U	500	UJ	700	U
2-Methylnaphthalene	2500	UJ	4900	U	500	UJ	700	U
2-Methylphenol	2500	UJ	4900	U	500	UJ	700	U
2-Nitroaniline	6200	UJ	12000	U	1200	UJ	1800	U
2-Nitrophenol	2500	UJ	4900	U	500	UJ	700	U
3,3'-Dichlorobenzidine	2500	UJ	4900	U	500	UJ	700	U
3-Nitroaniline	6200	UJ	12000	U	1200	UJ	1800	U
4,6-Dinitro-2-methylphenol	6200	UJ	12000	U	1200	UJ	1800	U
4-Bromophenyl-phenylether	2500	UJ	4900	U	500	UJ	700	U
4-Chloro-3-methylphenol	2500	UJ	4900	U	500	UJ	700	U
4-Chloroaniline	2500	UJ	4900	U	500	UJ	700	U
4-Chlorophenyl-phenylether	2500	UJ	4900	U	500	UJ	700	U
4-Methylphenol	2500	UJ	4900	U	500	UJ	700	U
4-Nitroaniline	6200	UJ	12000	U	1200	UJ	1800	U
4-Nitrophenol	6200	UJ	12000	U	1200	UJ	1800	U
Acenaphthene	2500	UJ	4900	U	500	UJ	700	U
Acenaphthylene	2500	UJ	4900	U	500	UJ	130	J
Acetophenone		NA		NA		NA	700	U
Anthracene	2500	UJ	4900	U	500	UJ	100	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SD-2044-0.502-01		WRL-SD-2044-000.5-01		WRL-SD-2044-0203-01		WRM-SD-2054-01	
Sample Location	WRL-SD-2044		WRL-SD-2044		WRL-SD-2044		WRM-SD-2054	
Interval	0.5-2.0		0.0-0.5		2.0-3.0		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		12/2/99	
QC Identifier	None		None		None		None	
Atrazine		NA		NA		NA	700	U
Benzaldehyde		NA		NA		NA	700	U
Benzo(a)anthracene	2500	UJ	4900	U	500	UJ	470	J
Benzo(a)pyrene	2500	UJ	4900	U	500	UJ	690	J
Benzo(b)fluoranthene	2500	UJ	560	J	500	UJ	1200	
Benzo(g,h,i)perylene	2500	UJ	4900	U	500	UJ	210	J
Benzo(k)fluoranthene	2500	UJ	560	J	500	UJ	830	
Bis(2-Chloroethoxy)methane	2500	UJ	4900	U	500	UJ	700	U
Bis(2-Chloroethyl)ether	2500	UJ	4900	U	500	UJ	700	U
bis(2-Ethylhexyl)phthalate	2500	UJ	4900	U	500	UJ	360	J
Butylbenzylphthalate	2500	UJ	4900	U	500	UJ	78	J
Caprolactam		NA		NA		NA	700	U
Carbazole	2500	UJ	4900	U	500	UJ	700	U
Chrysene	2500	UJ	570	J	500	UJ	780	
Di-n-Butylphthalate	2500	UJ	4900	U	500	UJ	700	U
Di-n-octylphthalate	2500	UJ	4900	U	500	UJ	700	U
Dibenzo(a,h)anthracene	2500	UJ	4900	U	500	UJ	78	J
Dibenzofuran	2500	UJ	4900	U	500	UJ	700	U
Diethylphthalate	2500	UJ	4900	U	500	UJ	700	U
Dimethylphthalate	2500	UJ	4900	U	500	UJ	700	U
Fluoranthene	290	J	910	J	500	UJ	1100	
Fluorene	2500	UJ	4900	U	500	UJ	700	U
Hexachlorobenzene	2500	UJ	4900	U	500	UJ	700	U
Hexachlorobutadiene	2500	UJ	4900	U	500	UJ	700	U
Hexachlorocyclopentadiene	2500	UJ	4900	U	500	UJ	700	U
Hexachloroethane	2500	UJ	4900	U	500	UJ	700	U
Indeno(1,2,3-cd)pyrene	2500	UJ	4900	U	500	UJ	220	J
Isophorone	2500	UJ	4900	U	500	UJ	700	U
N-Nitroso-di-n-propylamine	2500	UJ	4900	U	500	UJ	700	U
N-Nitroso-diphenylamine	2500	UJ	4900	U	500	UJ	700	U
Naphthalene	2500	UJ	4900	U	500	UJ	700	U
Nitrobenzene	2500	UJ	4900	U	500	UJ	700	U
Pentachlorophenol	6200	UJ	12000	U	1200	UJ	1800	U
Phenanthrene	2500	UJ	4900	U	500	UJ	540	J

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SD-2044-0.502-01		WRL-SD-2044-000.5-01		WRL-SD-2044-0203-01		WRM-SD-2054-01	
Sample Location	WRL-SD-2044		WRL-SD-2044		WRL-SD-2044		WRM-SD-2054	
Interval	0.5-2.0		0.0-0.5		2.0-3.0		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		12/2/99	
QC Identifier	None		None		None		None	
Phenol	2500	UJ	4900	U	500	UJ	700	U
Pyrene	260	J	980	J	500	UJ	1400	
Total PAH	2500	U	62		500	U	970	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SD-2044-0.502-01		WRL-SD-2044-000.5-01		WRL-SD-2044-0203-01		WRM-SD-2054-01	
Sample Location	WRL-SD-2044		WRL-SD-2044		WRL-SD-2044		WRM-SD-2054	
Interval	0.5-2.0		0.0-0.5		2.0-3.0		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		12/2/99	
QC Identifier	None		None		None		None	
Pesticide/PCB Analysis (UG/KG)	D01033		D01032		D01034		APK64	
4,4'-DDD	5.0	UJ	5.0	UJ	5.0	U	6.9	U
4,4'-DDE	5.0	UJ	5.0	UJ	5.0	U	6.9	U
4,4'-DDT	5.0	UJ	5.0	UJ	5.0	U	6.9	U
Aldrin	2.6	UJ	2.6	UJ	2.6	U	3.5	U
alpha-BHC	2.6	UJ	2.6	UJ	2.6	U	3.5	U
alpha-Chlordane	2.6	UJ	2.6	UJ	2.6	U	3.5	U
Aroclor, Total	129		95		44		390	
Aroclor-1016	50	UJ	50	UJ	50	U	69	U
Aroclor-1221	100	UJ	100	UJ	100	U	140	U
Aroclor-1232	50	UJ	50	UJ	50	U	69	U
Aroclor-1242	50	UJ	50	UJ	50	U	69	U
Aroclor-1248	39	J	21	J	50	U	69	U
Aroclor-1254	90	J	74	J	44	J	390	
Aroclor-1260	50	U	50	UJ	50	U	69	U
beta-BHC	2.6	UJ	2.6	UJ	2.6	U	3.5	U
delta-BHC	2.6	UJ	2.6	UJ	2.6	U	3.5	U
Dieldrin	5.0	UJ	5.0	UJ	5.0	U	6.9	UJ
Endosulfan I	2.6	UJ	2.6	UJ	2.6	U	3.5	U
Endosulfan II	7.6	J	5.0	UJ	5.0	U	6.9	U
Endosulfan Sulfate	5.0	UJ	5.0	UJ	5.0	U	6.9	U
Endrin	5.0	UJ	5.0	UJ	5.0	U	6.9	UJ
Endrin Aldehyde	5.0	UJ	5.0	UJ	5.0	U	6.9	U
Endrin Ketone	5.0	UJ	5.0	UJ	5.0	U	6.9	U
gamma-BHC	2.6	UJ	2.6	UJ	2.6	U	3.5	UJ
gamma-Chlordane	2.6	UJ	2.6	UJ	2.6	U	3.5	U
Heptachlor	2.6	UJ	2.6	UJ	2.6	U	3.5	UJ
Heptachlor Epoxide	2.6	UJ	2.6	UJ	2.6	U	3.5	U
Methoxychlor	26	UJ	26	UJ	26	U	35	U
Toxaphene	260	UJ	260	UJ	260	U	350	U

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SD-2044-0.502-01		WRL-SD-2044-000.5-01		WRL-SD-2044-0203-01		WRM-SD-2054-01	
Sample Location	WRL-SD-2044		WRL-SD-2044		WRL-SD-2044		WRM-SD-2054	
Interval	0.5-2.0		0.0-0.5		2.0-3.0		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		12/2/99	
QC Identifier	None		None		None		None	
Dioxin Analysis (NG/KG)	D01033		D01032		D01034		D01142	
1,2,3,4,6,7,8-HpCDD	605	J	763	J	184		416	J
1,2,3,4,6,7,8-HpCDF	313	J	265	J	407		205	J
1,2,3,4,7,8,9-HpCDF	17.3	J	15.8	J	13.6		16.5	J
1,2,3,4,7,8-HxCDD	12.5	J	13.2	J	4.4	J	8.5	J
1,2,3,4,7,8-HxCDF	52.2	J	49.2	J	36.2		41.0	J
1,2,3,6,7,8-HxCDD	34.0	J	41.5	J	14.3		26.4	J
1,2,3,6,7,8-HxCDF	37.6	J	32.8	J	36.7		22.2	J
1,2,3,7,8,9-HxCDD	36.5	J	36.8	J	15.0		28.3	J
1,2,3,7,8,9-HxCDF	2.8	UJ	1.5	UJ	2.4	U	1.9	UJ
1,2,3,7,8-PeCDD	11.7	J	13.7	J	3.3	U	12.7	J
1,2,3,7,8-PeCDF	12.0	J	13.3	EMPC	9.8		21.2	EMPC
1,2,4,5,7,8-hexachloro(9H)xanthene	781.78	J	1126.03	J	65.17	J	805	J
2,3,4,6,7,8-HxCDF	35.2	J	31.3	J	26.5		28.9	J
2,3,4,7,8-PeCDF	23.6	J	23.7	J	9.9		18.7	J
2,3,7,8-TCDD	2220	J$	3350	J$	217		2620	J$
2,3,7,8-TCDF	74.6	J	73.6	J	31.1		33.5	J
OCDD	2910	JEB	3760	JEB	672	JEB	2360	J
OCDF	239	J	264	J	213		231	J
Total HpCDD	1170	J	1520	J	351	J	794	J
Total HpCDF	571	J	524	J	666	J	418	J
Total HxCDD	330	J	355	J	143	J	241	J
Total HxCDF	629	J	567	J	519	J	404	J
Total PeCDD	69.5	J	154	J	26.7	J	87.8	J
Total PeCDF	561	J	436	J	314	J	347	J
Total TCDD	2220	J$	3410	J$	238	J	2680	J$
Total TCDF	929	J	840	J	374	J	313	J
Toxicity Equivalency	2280		3410		247		2670	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SD-2044-0.502-01		WRL-SD-2044-000.5-01		WRL-SD-2044-0203-01		WRM-SD-2054-01	
Sample Location	WRL-SD-2044		WRL-SD-2044		WRL-SD-2044		WRM-SD-2054	
Interval	0.5-2.0		0.0-0.5		2.0-3.0		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		12/2/99	
QC Identifier	None		None		None		None	
TAL Metal Analysis (MG/KG)	D01033		D01032		D01034		MAMA61	
Aluminum	12500		16100		7830		10700	
Antimony	4.7	J	8.2	J	4.7	J	2.2	J
Arsenic	7.2		11.4		7.3		8.0	
Barium	70.2		99.6		45.3		90.9	
Beryllium	1.8		3.3		1.1	J	1.8	
Cadmium	7.0	J	3.4	J	1.2	J	0.40	U
Calcium	3320	J	5300	J	2220	J	2060	
Chromium	187		194		200		116	
Cobalt	12.7	J	23.4	J	5.7	U	6.3	
Copper	118		143		105		91.5	
Iron	21600		39600		11700		25000	
Lead	298		471		178		361	
Magnesium	1910	J	2620	J	1120	J	2460	
Manganese	260		183		135		525	
Mercury	0.45	J	0.47	J	0.37	J	0.31	J
Nickel	46.5		92.5		10.3	J	24.2	
Potassium	1000		1480		799		749	
Selenium	4.5	J	3.3	UJ	2.7	UJ	2.9	J
Silver	8.5		14.6		3.6	U	1.6	J
Sodium	225		301		169	U	415	
Thallium	1.8	U	2.6	U	2.2	U	2.8	U
Vanadium	45.7		72.7		29.3		44.4	
Zinc	2060	J	1550	J	578	J	234	

US EPA ARCHIVE DOCUMENT

Summary of Sediment/Soil Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SD-2044-0.502-01		WRL-SD-2044-000.5-01		WRL-SD-2044-0203-01		WRM-SD-2054-01	
Sample Location	WRL-SD-2044		WRL-SD-2044		WRL-SD-2044		WRM-SD-2054	
Interval	0.5-2.0		0.0-0.5		2.0-3.0		0.0-0.5	
Date Sampled	11/9/99		11/9/99		11/9/99		12/2/99	
QC Identifier	None		None		None		None	
Acid Volatile Sulfides/Simultaneously Extracted Metals Analysis (UMOL/G)			D01032					
Acid Volatile Sulfide		NA	29.58			NA		NA
Cadmium		NA	0.04	J		NA		NA
Copper		NA	1.79	J		NA		NA
Lead		NA	1.862			NA		NA
Mercury		NA	0.00017	U		NA		NA
Nickel		NA	2.59	J		NA		NA
SEM/AVS			0.97					
Simultaneously Extracted Metal		NA	28.64			NA		NA
Zinc		NA	22.36	J		NA		NA
Total Organic Carbon Analysis (MG/KG)			D01032					
Total Organic Carbon		NA	129000			NA		NA

TETRA TECH NUS, INC.
55 Jonspin Road ▪ Wilmington, MA 01887-1020
(978) 658-7899 ▪ FAX (978) 658-7870 ▪ www.tetratech.com

RAC1-EPA-2104

Contract No. 68-W6-0045

March 30, 2000

Ms. Christine Clark
Regional Sample Control Coordinator
U.S. Environmental Protection Agency
Office of Environmental Measurement and Evaluation
60 Westview Street
Lexington, Massachusetts 02421

Subject: Tier I Data Validation, W.A. No. 043-TATA-016P
DAS Case 0112H, SDG D01009
Ceimic Corporation
Centredale Manor Site, North Providence, Rhode Island

Grain Size Distribution:
14/Sediment/ D01009, D01010, D01016, D01017, D01024, D01026, D01032, D01038, D01040, D01042, D01044, D01045, D01049, D01050
(Field Duplicate Pair D01024/D01026)

Dear Ms. Clark:

Tetra Tech NUS (TtNUS) performed a Tier I data validation on the grain size distribution analytical data for DAS Case 0112H, SDG D01009, from sediment samples collected by TtNUS at the Centredale Manor site. The grain size analysis was performed by the ASTM D422-63 as specified in the TtNUS Technical Specification No. S99-RAC1-118. The Tier I data validation was performed according to the September 1999 approved Sampling and Analysis Plan. The data validation was performed using the Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria.

A Tier I data validation is based only on the following parameter:

- Data Completeness (CSF Audit – Tier I)

US EPA ARCHIVE DOCUMENT

Data Completeness

The data package was missing the following items:

- a completed CSF form
- analytical balance calibration logbook pages
- thermometer temperature check logbook pages
- percent moisture analysis bench sheets

These items were requested from the laboratory on March 15, 2000. All items except a completed CSF form were received at TtNUS on March 28, 2000. The laboratory noted that a CSF form was not generated for this analysis. The data package was determined to be complete during the data validation process.

Please contact L. Terzis at (978) 658-7899 should you have any questions or comments regarding this information.

Sincerely,

Linda Terzis

Linda Terzis
Data Validator

Lucy Guzman
RAC Lead Chemist

PMO – @

Enclosures: Data Results and Grain Size Graphs – Unvalidated Data
Laboratory Communications
Field Sampling Notes (in SDGs D00900, D00930, D00971, D01020)
CSF Audit (DC-2 Form)
DQO Summary Form

c: A. Krasko (EPA) w/o enc.
S. Parker (TtNUS) w/o enc.
File N0400-2.6 w/ enc.

US EPA ARCHIVE DOCUMENT

TETRA TECH NUS, INC.
55 Jonspin Road ▪ Wilmington, MA 01887-1020
(978) 658-7899 ▪ FAX (978) 658-7870 ▪ www.tetratech.com

RAC1-EPA-2103

Contract No. 68-W6-0045

March 30, 2000

Ms. Christine Clark
Regional Sample Control Coordinator
U.S. Environmental Protection Agency
Office of Environmental Measurement and Evaluation
60 Westview Street
Lexington, Massachusetts 02421

Subject: Tier I Data Validation, W.A. No. 043-TATA-016P
DAS Case 0112H, SDG D00881
Ceimic Corporation
Centredale Manor Site, North Providence, Rhode Island

Grain Size Distribution:
41/Sediment/ D00881, D00882, D00885, D00886, D00887, D00888, D00889, D00902, D00904, D00906, D00907, D00911, D00912, D00913, D00914, D00918, D00924, D00929, D00932, D00939, D00940, D00941, D00945, D00947, D00959, D00960, D00961, D00962, D00966, D00967, D00969, D00974, D00981, D00982, D00983, D00987, D00991, D00992, D00997, D01003, D01004
(Field Duplicate Pairs: D00885/D00886, D00912/D00913, and D00987/D00982)

Dear Ms. Clark:

Tetra Tech NUS (TtNUS) performed a Tier I data validation on the grain size distribution analytical data for DAS Case 0112H, SDG D00881, from sediment samples collected by TtNUS at the Centredale Manor site. The grain size analysis was performed by the ASTM D422-63 as specified in the TtNUS Technical Specification No. S99-RAC1-118. The Tier I data validation was performed according to the September 1999 approved Sampling and Analysis Plan. The data validation was performed using the Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria.

A Tier I data validation is based only on the following parameter:

- Data Completeness (CSF Audit – Tier I)

US EPA ARCHIVE DOCUMENT

Data Completeness

The data package was missing the following items:

- a completed CSF form
- analytical balance calibration logbook pages
- thermometer temperature check logbook pages
- percent moisture analysis bench sheets

These items were requested from the laboratory on March 15, 2000. All items except a completed CSF form were received at TtNUS on March 28, 2000. The laboratory noted that a CSF form was not generated for this analysis. The data package was determined to be complete during the data validation process.

Please contact L. Terzis at (978) 658-7899 should you have any questions or comments regarding this information.

Sincerely,

Linda Terzis
Data Validator

Lucy Guzman
RAC Lead Chemist

PMO – @

Enclosures: Data Results and Grain Size Graphs – Unvalidated Data
Laboratory Communications
Field Sampling Notes (in SDGs D00900, D00930, D00971, D01020)
CSF Audit (DC-2 Form)
DQO Summary Form

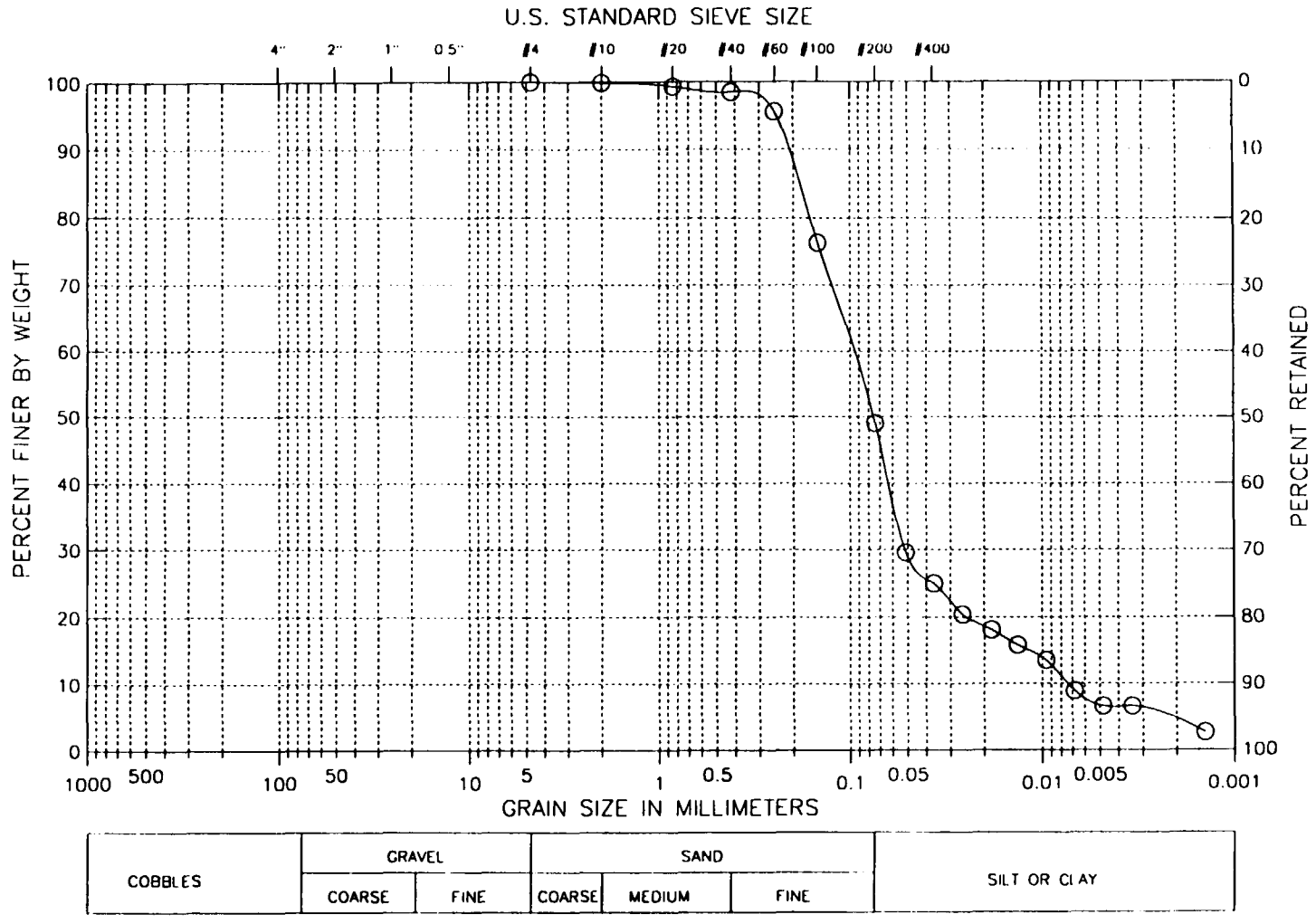
c: A. Krasko (EPA) w/o enc.
S. Parker (TtNUS) w/o enc.
File N0400-2.6 w/ enc.

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

RCC - FP-3001-01

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No.: D01045	Project No.: GIX 2652
Test Method ASTM D 422	Location: - - -
Filename : 01045	Date : Thu Dec 16 1999



Classification :

Remarks :

- - -

Visual Description :

Wet, dark brown sandy organic silt

Figure 13

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

US EPA ARCHIVE DOCUMENT

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N3400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01045
Location : ---
Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422
Filename : D1045
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT
Soil Description : Wet, dark brown sandy organic silt
Remarks : ---

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 21.79 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.00	20.50	6.44	0.051	30	0.051
2.00	11.00	20.50	5.44	0.036	25	0.036
4.00	10.00	20.50	4.44	0.026	20	0.026
8.00	9.50	20.50	3.94	0.018	18	0.018
15.00	9.00	20.50	3.44	0.013	16	0.013
30.00	8.50	20.50	2.94	0.010	13	0.010
60.00	7.50	20.50	1.94	0.007	9	0.007
120.00	7.00	20.50	1.44	0.005	7	0.005
240.00	7.00	20.50	1.44	0.003	7	0.003
1391.00	6.50	20.00	0.58	0.001	3	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.03	0.03	100
#20	0.033	0.84	0.12	0.15	99
#40	0.017	0.42	0.19	0.34	98
#60	0.010	0.25	0.63	0.97	96
#100	0.006	0.15	4.20	5.17	76
#200	0.003	0.07	5.95	11.12	49
Pan			10.70	21.82	0

Total Dry Weight of Sample = 134.71

D85 : 0.1882 mm
D60 : 0.0980 mm
D50 : 0.0759 mm
D30 : 0.0518 mm
D15 : 0.0120 mm
D10 : 0.0074 mm

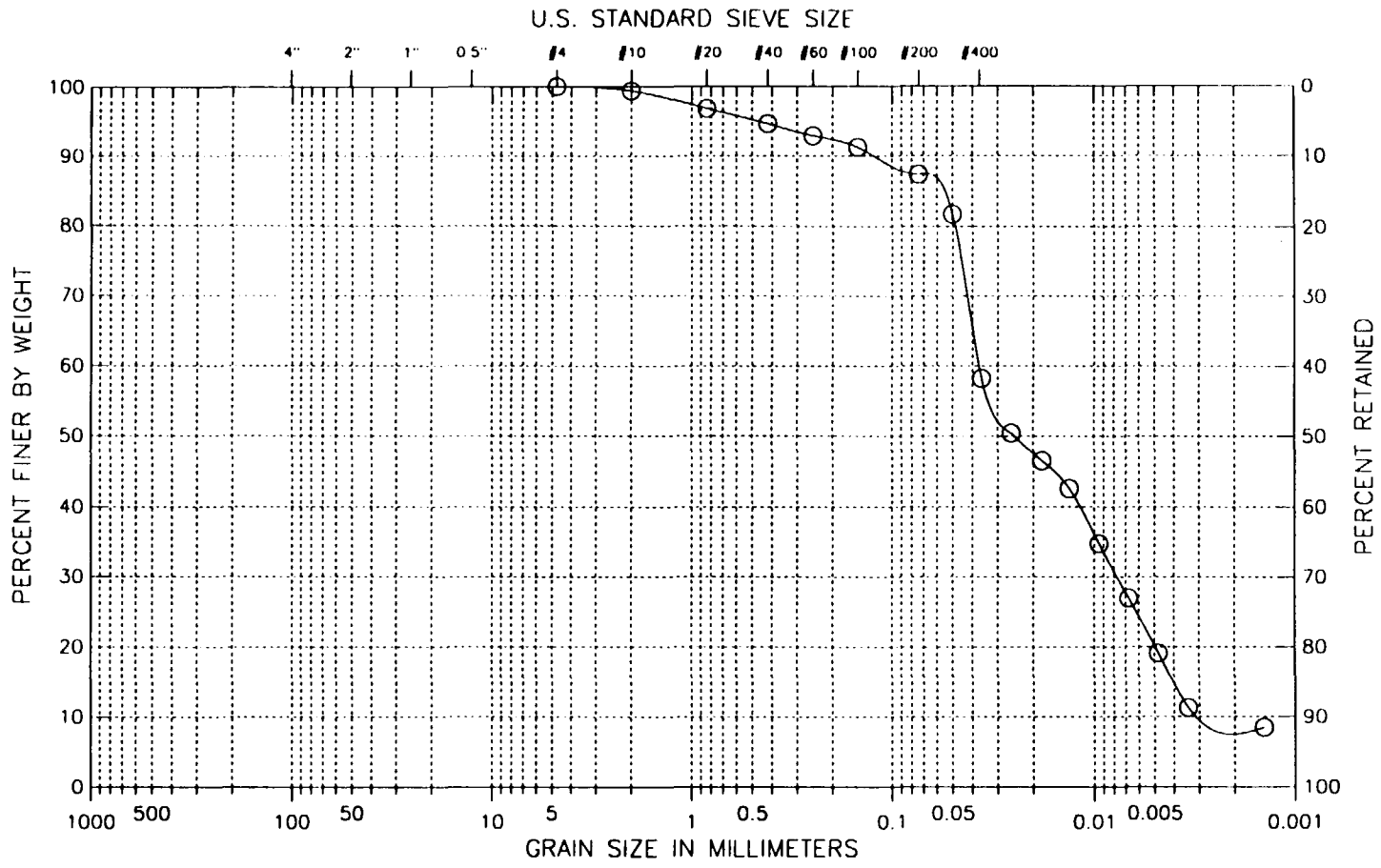
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

RCC-FP-3002-01

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No.: D01040	Project No.: GTX-2632
Test Method ASTM D 422	Location: - - -
Filename : 01040	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Wet, black organic silt with sand

Figure 9

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N2400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01040
Location : ---
Soil Description : Wet, black organic silt with sand
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : 01040
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 12.71 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	16.00	20.50	10.44	0.050	82	0.050
2.00	13.00	20.50	7.44	0.036	58	0.036
4.00	12.00	20.50	6.44	0.026	50	0.026
8.00	11.50	20.50	5.94	0.018	47	0.018
15.00	11.00	20.50	5.44	0.013	43	0.013
30.00	10.00	20.50	4.44	0.009	35	0.009
60.00	9.00	20.50	3.44	0.007	27	0.007
120.00	8.00	20.50	2.44	0.005	19	0.005
240.00	7.00	20.50	1.44	0.003	11	0.003
1383.00	7.00	20.00	1.08	0.001	8	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.08	0.08	99
#20	0.033	0.84	0.33	0.41	97
#40	0.017	0.42	0.28	0.69	95
#60	0.010	0.25	0.22	0.91	93
#100	0.006	0.15	0.21	1.12	91
#200	0.003	0.07	0.49	1.61	87
Pan			11.18	12.79	0

Total Dry Weight of Sample = 139.83

D85 : 0.0627 mm
D60 : 0.0370 mm
D50 : 0.0247 mm
D30 : 0.0077 mm
D15 : 0.0040 mm
D10 : 0.0023 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

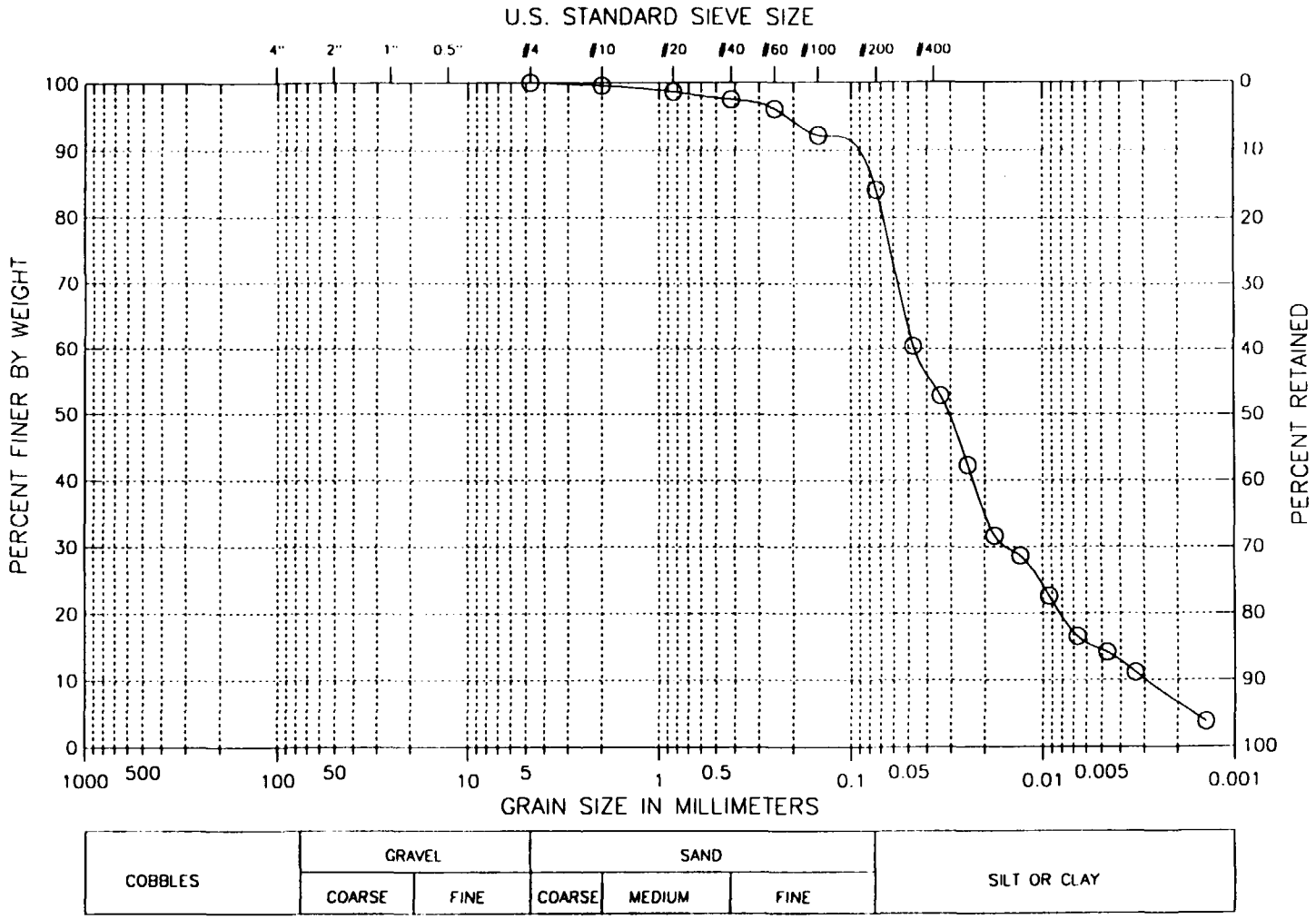
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

RAB-FP-3004-01

Boring No. : -- -	Project : Tetra Tech NUS; N0400
Sample No.: D01050	Project No.: GIX 2632
Test Method ASTM D 422	Location: ---
Filename : 01050	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :

Wet, very dark grayish brown organic silt w/ sand

Figure 15

US EPA ARCHIVE DOCUMENT

RAB-FP-3004-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; NC400 Filename : 21050
Project No. : GTX-2632 Depth : --- Elevation : ---
Boring No. : --- Test Date : 12/08/99 Tested by : NJH/MHM
Sample No. : 021050 Test Method : ASTM D 422 Checked by : GTT
Location : ---
Soil Description : Wet, very dark grayish brown organic silt w/ sand
Remarks : ---

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 32.94 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	26.50	20.00	19.96	0.047	60	0.047
2.00	24.00	20.00	17.46	0.034	53	0.034
4.00	20.50	20.00	13.96	0.025	42	0.025
8.00	17.00	20.00	10.46	0.018	32	0.018
15.00	16.00	20.00	9.46	0.013	29	0.013
30.00	14.00	20.00	7.46	0.009	23	0.009
60.00	12.00	20.00	5.46	0.007	17	0.007
121.00	11.00	20.50	4.68	0.005	14	0.005
240.00	10.00	20.50	3.68	0.003	11	0.003
1412.00	8.00	19.50	1.24	0.001	4	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.15	0.15	100
#20	0.033	0.84	0.31	0.46	99
#40	0.017	0.42	0.38	0.84	97
#60	0.010	0.25	0.47	1.31	96
#100	0.006	0.15	1.28	2.59	92
#200	0.003	0.07	2.63	5.22	84
Pan			27.87	33.09	0

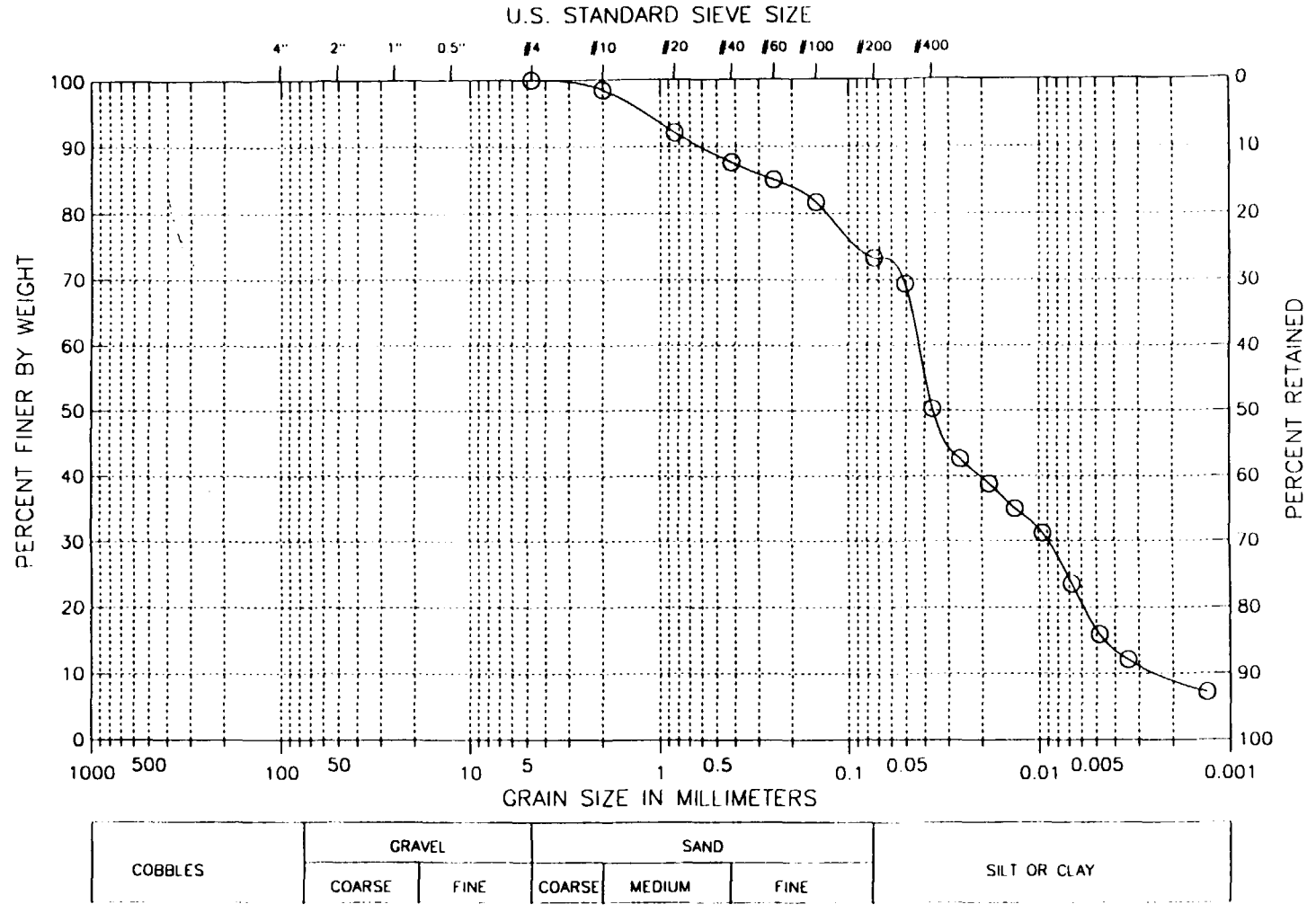
Total Dry Weight of Sample = 166.12

D85 : 0.0792 mm
D60 : 0.0464 mm
D50 : 0.0311 mm
D30 : 0.0150 mm
D15 : 0.0053 mm
D10 : 0.0029 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

CMW-FP-3026-000.5-01

	Boring No. : --- Sample No.: D00929 Test Method ASTM D 422 Filename : 929	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black sandy organic silt

Figure 19

CMW-FP-2026-000.5-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00929
Location : Centerdale, RI
Soil Description : Wet, black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 929
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 67130
Weight of air-dried soil = 12.91 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	20.00	9.08	0.051	69	0.051
2.00	12.50	20.00	6.58	0.036	50	0.036
4.00	11.50	20.00	5.58	0.026	43	0.026
8.00	11.00	20.00	5.08	0.018	39	0.018
15.00	10.50	20.00	4.58	0.013	35	0.013
30.00	10.00	20.00	4.08	0.010	31	0.010
60.00	9.00	20.00	3.08	0.007	24	0.007
120.00	8.00	20.00	2.08	0.005	16	0.005
240.00	7.50	20.00	1.58	0.003	12	0.003
1581.00	6.50	20.50	0.94	0.001	7	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.20	0.20	98
#20	0.033	0.84	0.84	1.04	92
#40	0.017	0.42	0.58	1.62	88
#60	0.010	0.25	0.34	1.96	85
#100	0.006	0.15	0.44	2.40	82
#200	0.003	0.07	1.10	3.50	73
Pan			9.61	13.11	0

Total Dry Weight of Sample = 119.62

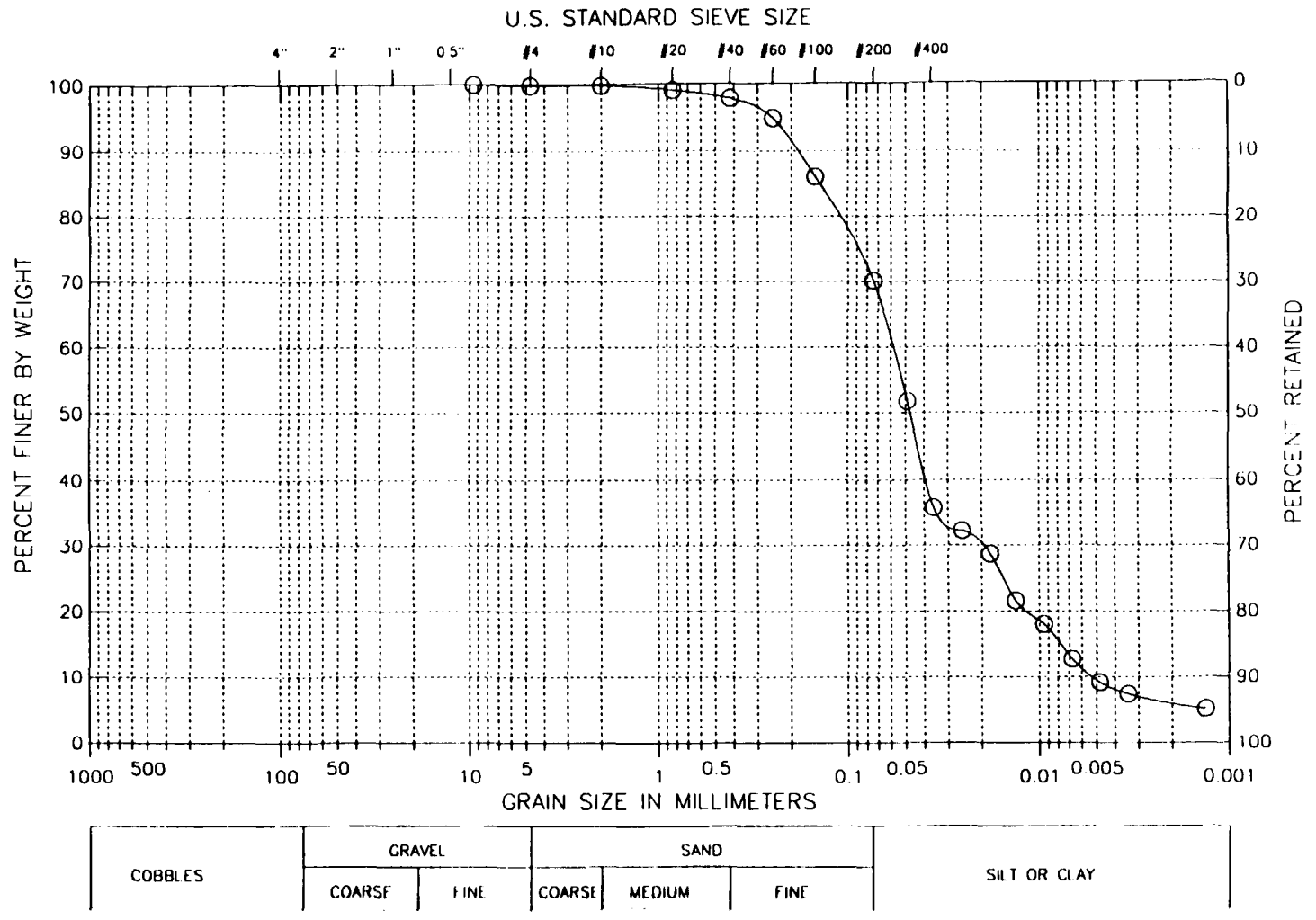
D85 : 0.2481 mm
D60 : 0.0431 mm
D50 : 0.0360 mm
D30 : 0.0091 mm
D15 : 0.0045 mm
D10 : 0.0023 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

CMW-FP-2027-01

	Boring No. : -- Sample No.: D00932 Test Method ASTM D 422 Filename : 932	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification

Remarks

Visual Description :
Wet, very dark gray sandy organic silt

Figure 20

US EPA ARCHIVE DOCUMENT

SMW-FP-2027-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00932
Location : Centerdale, RI
Soil Description : Wet, very dark gray sandy organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 932
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 28.15 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	20.50	20.00	14.58	0.049	52	0.049
2.00	16.00	20.00	10.08	0.036	36	0.036
4.00	15.00	20.00	9.08	0.025	32	0.025
8.00	14.00	20.00	8.08	0.018	29	0.018
15.00	12.00	20.00	6.08	0.013	22	0.013
30.00	11.00	20.00	5.08	0.009	18	0.009
60.00	9.50	20.00	3.58	0.007	13	0.007
120.00	8.50	20.00	2.58	0.005	9	0.005
240.00	8.00	20.00	2.08	0.003	7	0.003
1572.00	7.00	20.50	1.44	0.001	5	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.06	0.06	100
#10	0.079	2.00	0.01	0.07	100
#20	0.033	0.84	0.20	0.27	99
#40	0.017	0.42	0.35	0.62	98
#60	0.010	0.25	0.83	1.45	95
#100	0.006	0.15	2.48	3.93	86
#200	0.003	0.07	4.51	8.44	70
Pan			19.78	28.22	0

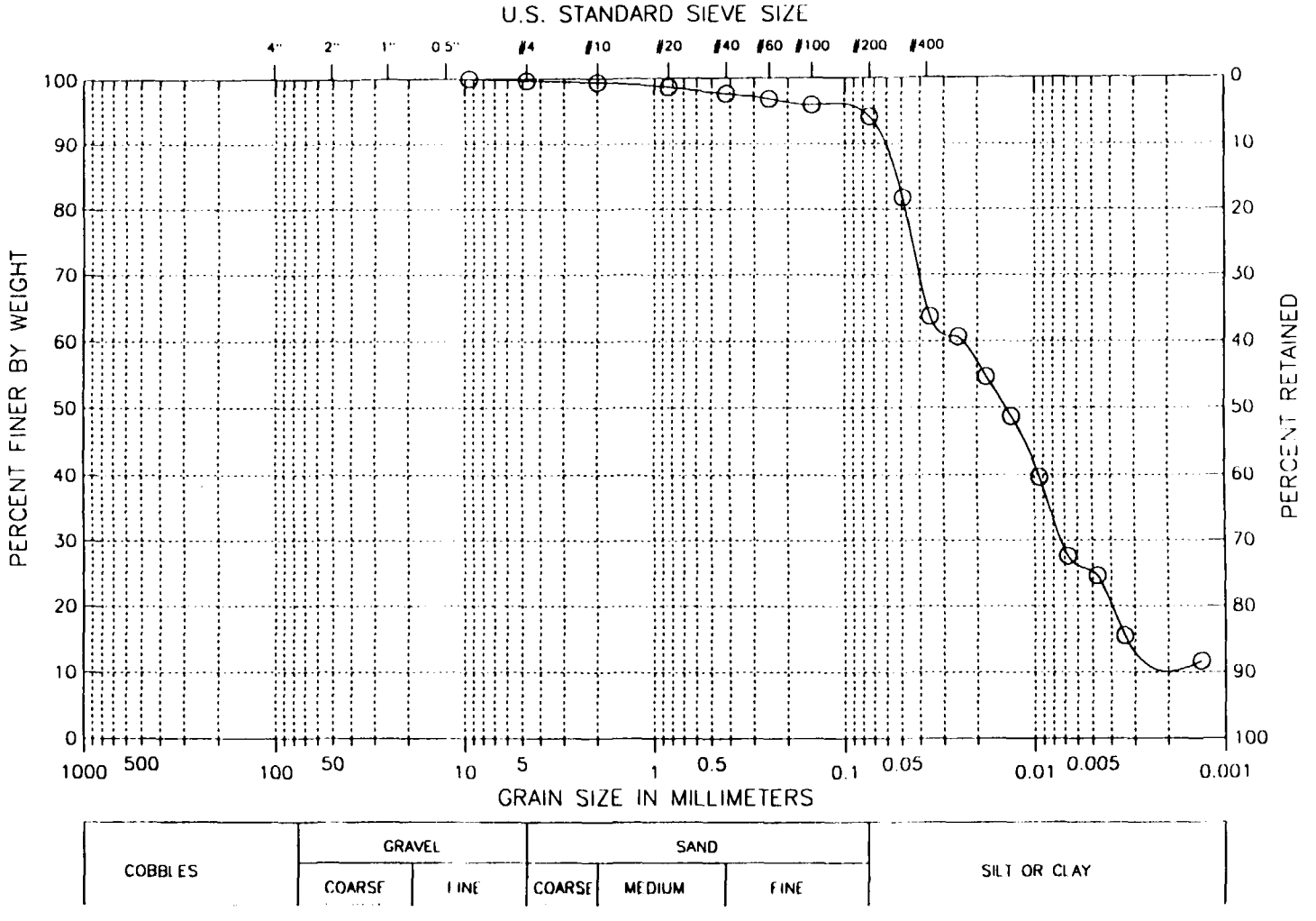
Total Dry Weight of Sample = 155.24

D85 : 0.1422 mm
D60 : 0.0590 mm
D50 : 0.0474 mm
D30 : 0.0205 mm
D15 : 0.0078 mm
D10 : 0.0052 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

APB-FP-2028-000.5-01

Boring No. : --	Project : Tetra Tech NUS, Centerdale; N0191
Sample No: D00945	Project No.: GIX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 945	Date : Fri Dec 03 1999



Classification

Remarks

Visual Description :
Wet, very dark gray organic silt

Figure 24

APB-FP-2028-000.5-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00945
Location : Centerdale, RI
Soil Description : Wet, very dark gray organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 945
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 152130
Weight of air-dried soil = 16.53 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature deg. C	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	19.50	20.00	13.58	0.049	82	0.049
2.00	16.50	20.00	10.58	0.036	64	0.036
4.00	16.00	20.00	10.08	0.025	61	0.025
8.00	15.00	20.00	9.08	0.018	55	0.018
15.00	14.00	20.00	8.08	0.013	49	0.013
30.00	12.50	20.00	6.58	0.009	40	0.009
60.00	10.50	20.00	4.58	0.007	28	0.007
122.00	10.00	20.00	4.08	0.005	25	0.005
240.00	8.50	20.00	2.58	0.003	16	0.003
1545.00	7.50	20.50	1.94	0.001	12	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.05	0.05	100
#10	0.079	2.00	0.05	0.10	99
#20	0.033	0.84	0.13	0.23	99
#40	0.017	0.42	0.17	0.40	98
#60	0.010	0.25	0.13	0.53	97
#100	0.006	0.15	0.15	0.68	96
#200	0.003	0.07	0.30	0.98	94
Pan			15.65	16.63	0

Total Dry Weight of Sample = 139.49

D85 : 0.0549 mm
D60 : 0.0243 mm
D50 : 0.0141 mm
D30 : 0.0072 mm
D15 : 0.0030 mm
D10 : 0.0009 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

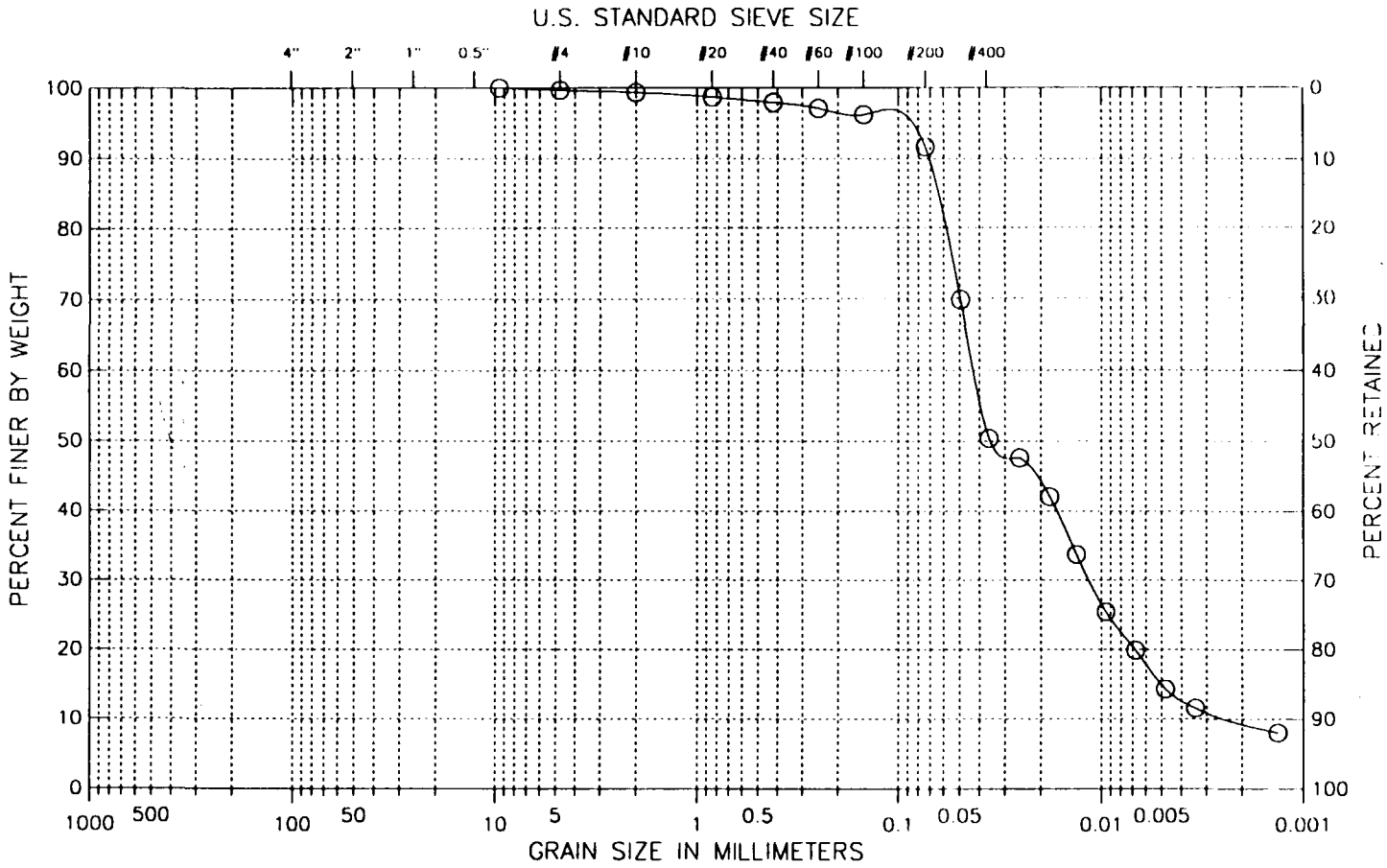
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

Sample No.: D00939	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 939	Date : Fri Dec 03 1999

APB-FP-2031-01



Classification :

Remarks :

Visual Description :
Wet, black organic silt

Figure 21

APB-FP-2031-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : 000939
Location : Centerdale, RI
Soil Description : Wet, black organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 939
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 67130
Weight of air-dried soil = 17.93 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature deg. C	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	18.50	20.00	12.58	0.050	70	0.050
2.00	15.00	20.00	9.08	0.036	50	0.036
4.00	14.50	20.00	8.58	0.025	48	0.025
8.00	13.50	20.00	7.58	0.018	42	0.018
15.00	12.00	20.00	6.08	0.013	34	0.013
30.00	10.50	20.00	4.58	0.010	25	0.010
60.00	9.50	20.00	3.58	0.007	20	0.007
120.00	8.50	20.00	2.58	0.005	14	0.005
240.00	8.00	20.00	2.08	0.003	12	0.003
1563.00	7.00	20.50	1.44	0.001	8	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.06	0.06	100
#10	0.079	2.00	0.06	0.12	99
#20	0.033	0.84	0.12	0.24	99
#40	0.017	0.42	0.14	0.38	98
#60	0.010	0.25	0.15	0.53	97
#100	0.006	0.15	0.16	0.69	96
#200	0.003	0.07	0.81	1.50	92
Pan			16.55	18.05	0

Total Dry Weight of Sample = 136.5

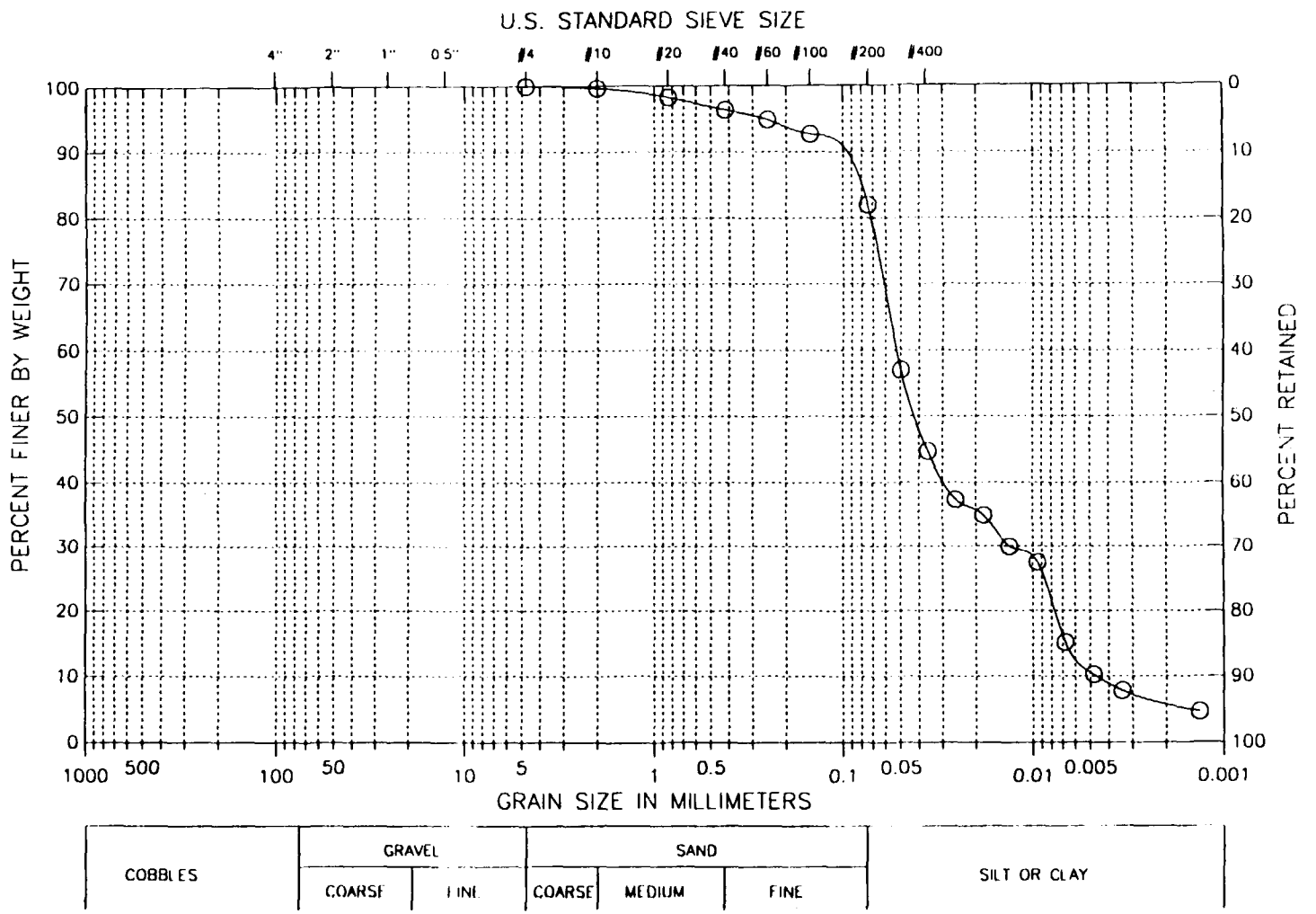
D85 : 0.0655 mm
D60 : 0.0422 mm
D50 : 0.0343 mm
D30 : 0.0115 mm
D15 : 0.0050 mm
D10 : 0.0023 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

APB-FP-2032-01

	Boring No. : - Sample No.: D00940 Test Method ASTM D 422 Filename : 940	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, very dark brown sandy organic silt

Figure 22

APB--FP-2032-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : 200940
Location : Centerdale, RI
Soil Description : Wet, very dark brown sandy organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 940
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 20.26 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	17.50	20.00	11.58	0.050	57	0.050
2.00	15.00	20.00	9.08	0.036	45	0.036
4.00	13.50	20.00	7.58	0.026	37	0.026
8.00	13.00	20.00	7.08	0.018	35	0.018
15.00	12.00	20.00	6.08	0.013	30	0.013
30.00	11.50	20.00	5.58	0.009	27	0.009
60.00	9.00	20.00	3.08	0.007	15	0.007
121.00	8.00	20.00	2.08	0.005	10	0.005
242.00	7.50	20.00	1.58	0.003	8	0.003
1554.00	6.50	20.50	0.94	0.001	5	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.07	0.07	100
#20	0.033	0.84	0.29	0.36	98
#40	0.017	0.42	0.39	0.75	96
#60	0.010	0.25	0.30	1.05	95
#100	0.006	0.15	0.44	1.49	93
#200	0.003	0.07	2.17	3.66	82
Pan			16.67	20.33	0

Total Dry Weight of Sample = 138.47

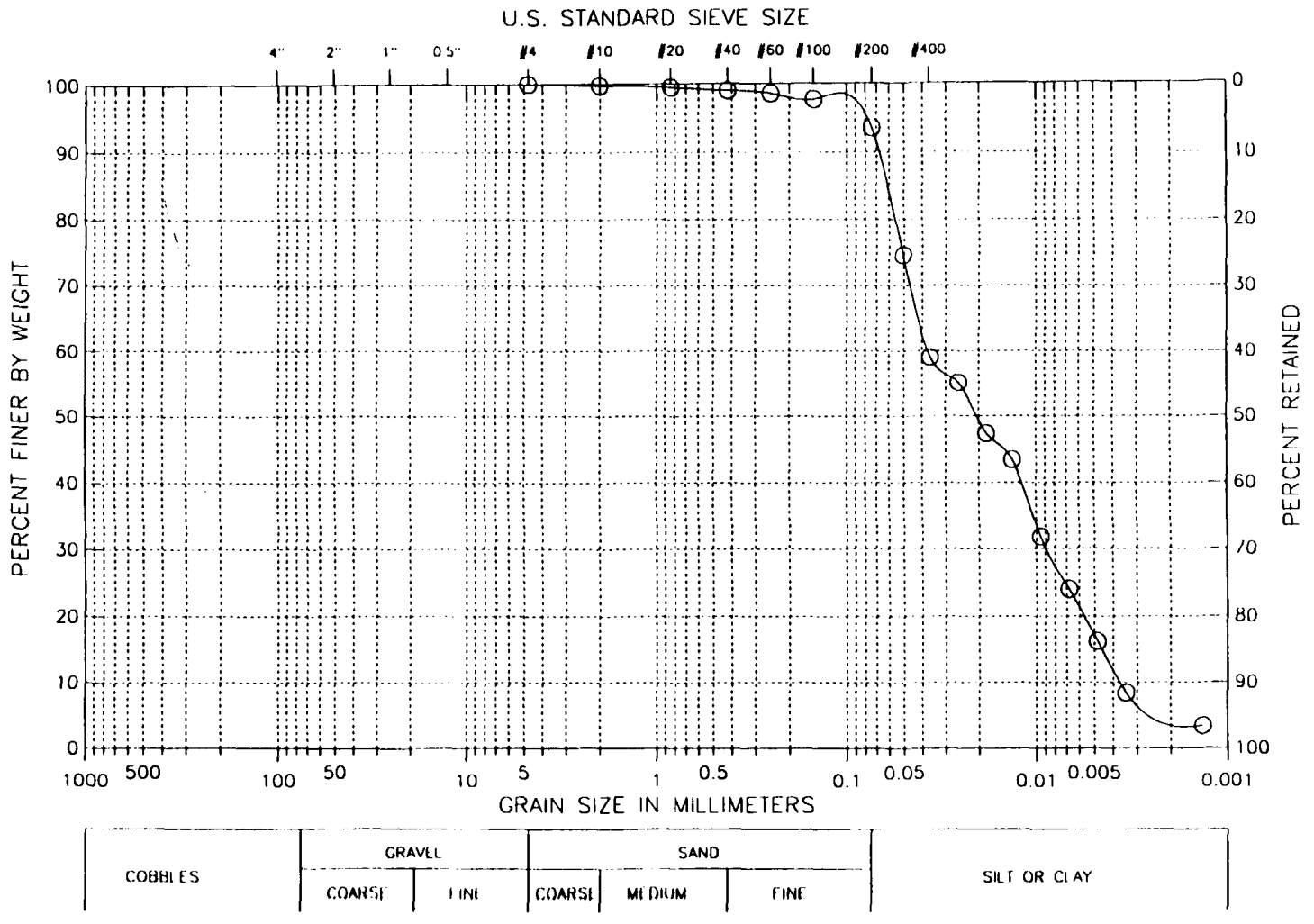
D85 : 0.0901 mm
D60 : 0.0524 mm
D50 : 0.0414 mm
D30 : 0.0134 mm
D15 : 0.0067 mm
D10 : 0.0046 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

APB-FP-2033-000.5-01

Boring No. : ---	Project : Tetra Tech NUS; Centerdale, N0191
Sample No.: D00941	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 941	Date : Fri Dec 03 1999



Classification

Remarks

Visual Description :
Wet, very dark gray organic silt

Figure 23

APB-FP-2033-000.5-0.

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D20941
Location : Centerdale, RI
Soil Description : Wet, very dark gray organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 941
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 12.83 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.50	20.00	9.58	0.051	75	0.051
2.00	13.50	20.00	7.58	0.036	59	0.036
4.00	13.00	20.00	7.08	0.026	55	0.026
8.00	12.00	20.00	6.08	0.018	47	0.018
15.00	11.50	20.00	5.58	0.013	43	0.013
30.00	10.00	20.00	4.08	0.010	32	0.010
60.00	9.00	20.00	3.08	0.007	24	0.007
120.00	8.00	20.00	2.08	0.005	16	0.005
240.00	7.00	20.00	1.08	0.003	8	0.003
1536.00	6.00	20.50	0.44	0.001	3	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.03	0.03	100
#20	0.033	0.84	0.04	0.07	99
#40	0.017	0.42	0.06	0.13	99
#60	0.010	0.25	0.06	0.19	99
#100	0.006	0.15	0.11	0.30	98
#200	0.003	0.07	0.53	0.83	94
Pan			12.03	12.86	0

Total Dry Weight of Sample = 145.88

D85 : 0.0623 mm
D60 : 0.0370 mm
D50 : 0.0205 mm
D30 : 0.0088 mm
D15 : 0.0046 mm
D10 : 0.0037 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

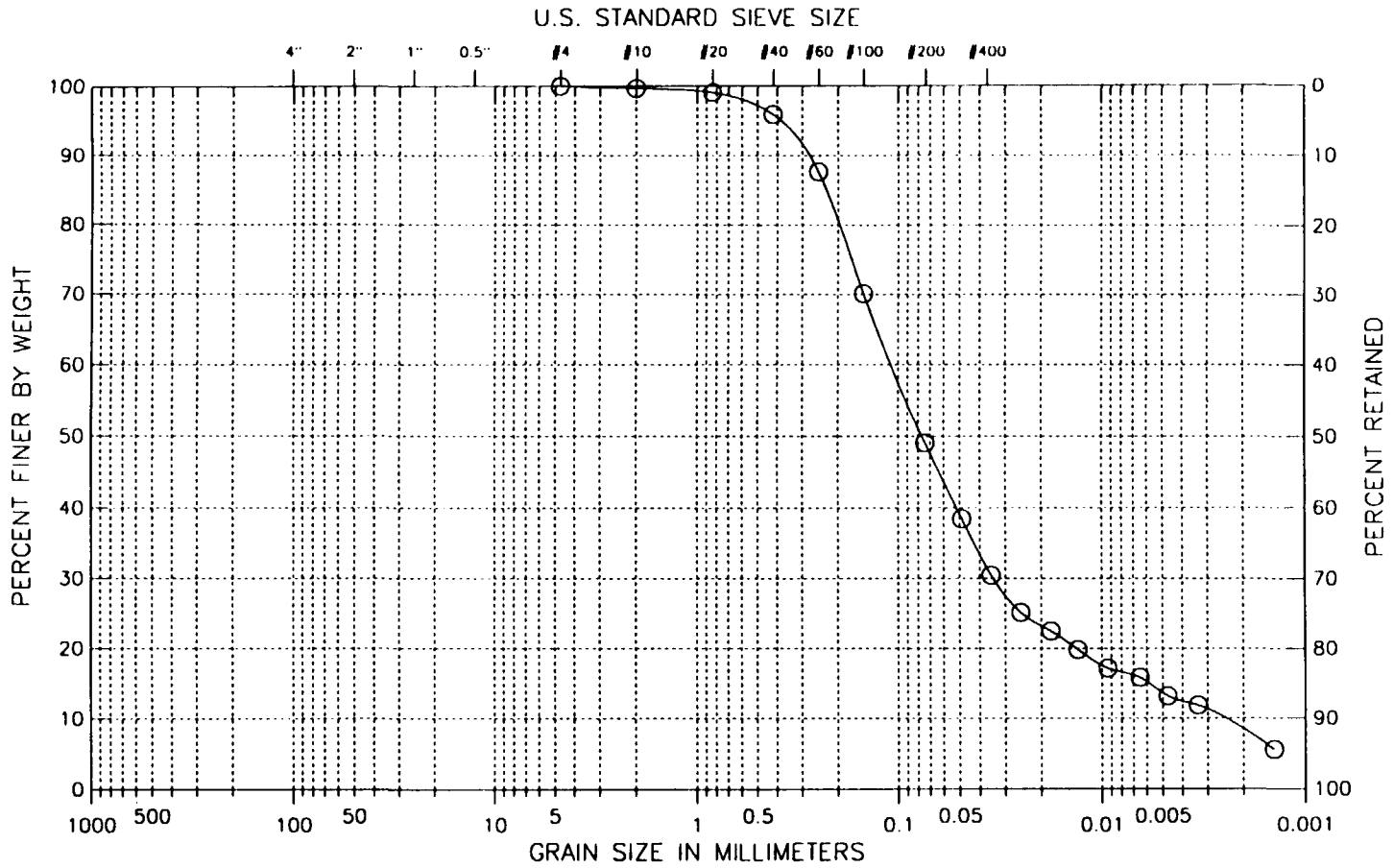
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

RCC-SD-3001-01

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No.: D01044	Project No.: GTX 2652
Test Method ASTM D 422	Location:
Filename : 01044	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Moist, black sandy organic silt

Figure 12

RCC-SD-3001-01

Thu Dec 16 12:47:22 1999

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01244
Location : ---
Soil Description : Moist, Black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : 01044
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 37.49 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	20.00	20.50	14.44	0.049	38	0.049
2.00	17.00	20.50	11.44	0.035	30	0.035
4.00	15.00	20.50	9.44	0.025	25	0.025
8.00	14.00	20.50	8.44	0.018	22	0.018
15.00	13.00	20.50	7.44	0.013	20	0.013
30.00	12.00	20.50	6.44	0.009	17	0.009
63.00	11.50	20.50	5.94	0.006	16	0.006
120.00	10.50	20.50	4.94	0.005	13	0.005
240.00	10.00	20.50	4.44	0.003	12	0.003
1387.00	8.00	20.00	2.08	0.001	6	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.13	0.13	100
#20	0.033	0.84	0.23	0.36	99
#40	0.017	0.42	1.20	1.56	96
#60	0.010	0.25	3.08	4.64	88
#100	0.006	0.15	6.60	11.24	70
#200	0.003	0.07	7.93	19.17	49
Pan			18.45	37.62	0

Total Dry Weight of Sample = 154.9

D85 : 0.2311 mm
D60 : 0.1065 mm
D50 : 0.0764 mm
D30 : 0.0343 mm
D15 : 0.0059 mm
D10 : 0.0026 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

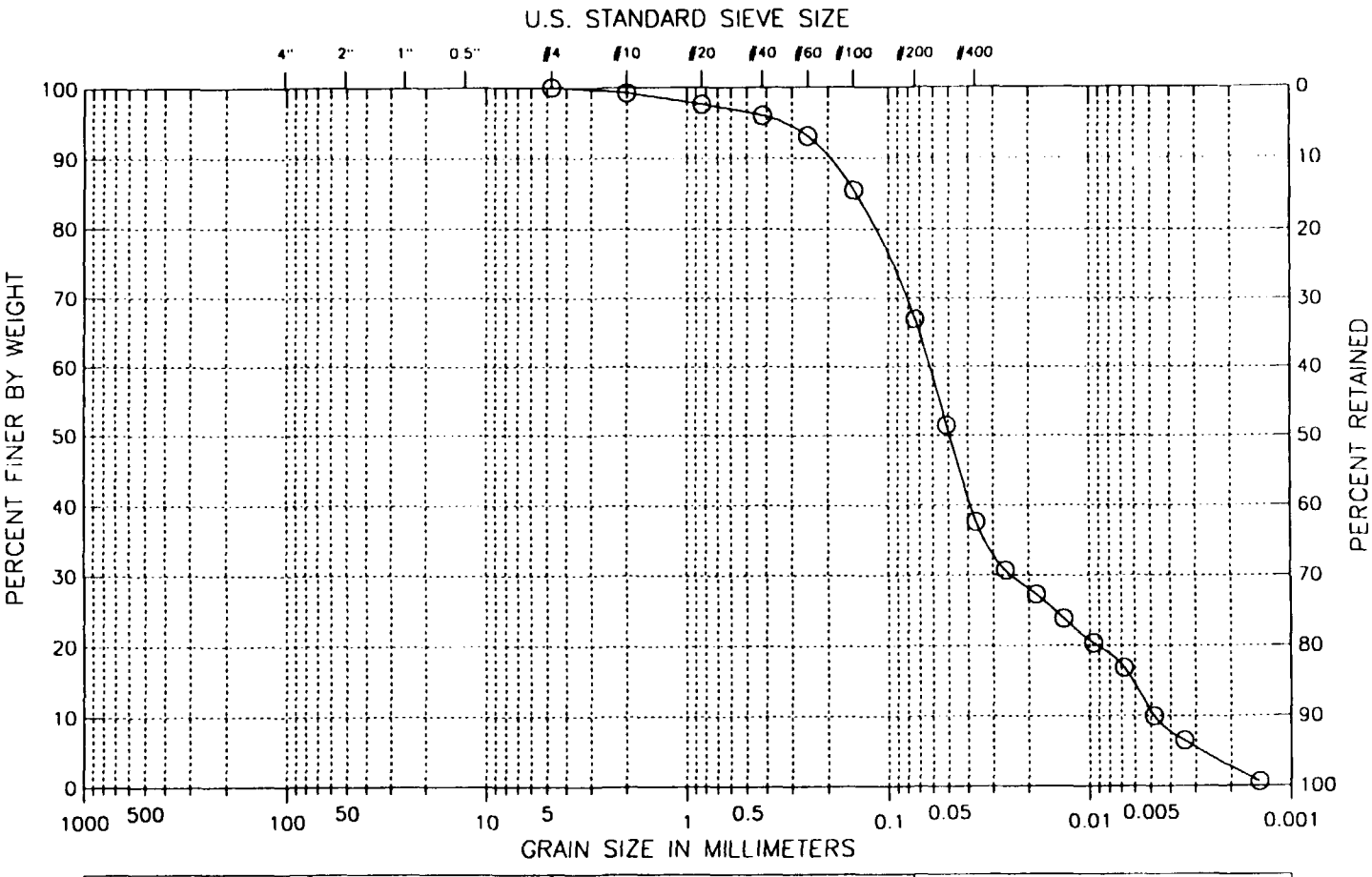
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

Boring No. :
Sample No: D010.38
Test Method ASTM D 422
Filename : 01038

Project : Tetra Tech NUS; N0400
Project No : GTX 2632 RCC-SD-3002-01
Location: ---
Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Wet, black sandy organic silt

Figure 8

US EPA ARCHIVE DOCUMENT

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : 3TX-2632
Boring No. : ---
Sample No. : SD1038
Location : ---
Soil Description : Wet, black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : 31038
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 14.37 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	13.00	20.50	7.44	0.051	51	0.051
2.00	11.00	20.50	5.44	0.036	38	0.036
4.00	10.00	20.50	4.44	0.026	31	0.026
8.00	9.50	20.50	3.94	0.018	27	0.018
15.00	9.00	20.50	3.44	0.013	24	0.013
30.00	8.50	20.50	2.94	0.010	20	0.010
60.00	8.00	20.50	2.44	0.007	17	0.007
120.00	7.00	20.50	1.44	0.005	10	0.005
240.00	6.50	20.50	0.94	0.003	7	0.003
1379.00	6.00	20.00	0.08	0.001	1	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.11	0.11	99
#20	0.033	0.84	0.24	0.35	98
#40	0.017	0.42	0.23	0.58	96
#60	0.010	0.25	0.42	1.00	93
#100	0.006	0.15	1.09	2.09	86
#200	0.003	0.07	2.70	4.79	67
Pan			9.69	14.48	0

Total Dry Weight of Sample = 121.96

D85 : 0.1459 mm
D60 : 0.0627 mm
D50 : 0.0493 mm
D30 : 0.0242 mm
D15 : 0.0062 mm
D10 : 0.0048 mm

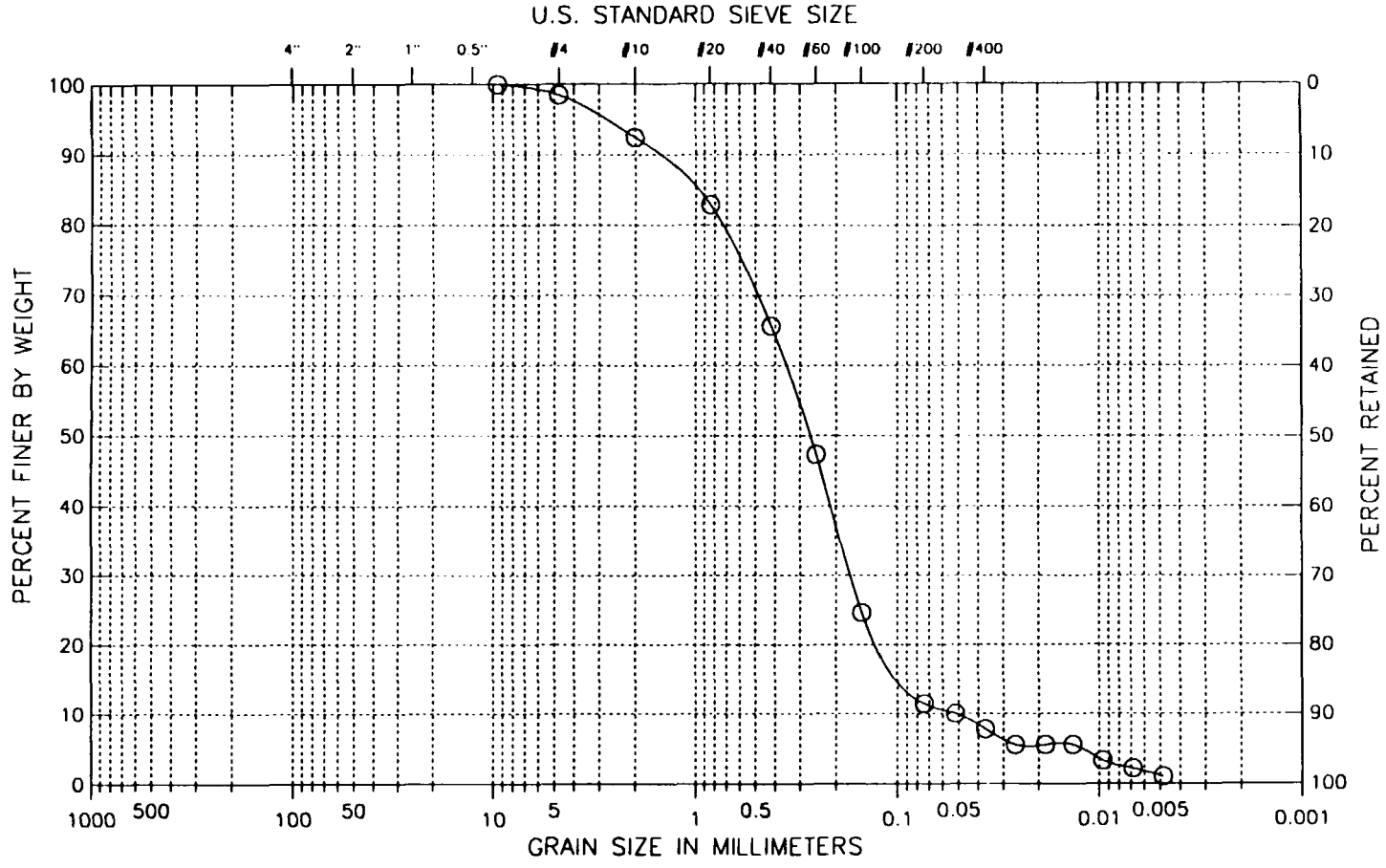
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

RCC - SD - 3003 - 01

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No.: D01042	Project No.: GTX 2652
Test Method ASTM D 422	Location: -
Filename : 01042	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :

Wet, black silty sand with organics

Figure 10

US EPA ARCHIVE DOCUMENT

RCC-SD-3003-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2832
Boring No. : ---
Sample No. : D01042
Location : ---
Soil Description : Wet, black silty sand with organics
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : 01042
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 41.14 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	10.00	20.50	4.44	0.052	10	0.052
2.00	9.00	20.50	3.44	0.037	8	0.037
4.00	8.00	20.50	2.44	0.026	5	0.026
8.00	8.00	20.50	2.44	0.019	5	0.019
15.00	8.00	20.50	2.44	0.014	5	0.014
30.00	7.00	20.50	1.44	0.010	3	0.010
60.00	6.50	20.50	0.94	0.007	2	0.007
120.00	6.00	20.50	0.44	0.005	1	0.005

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.68	0.68	98
#10	0.079	2.00	2.69	3.37	92
#20	0.033	0.84	4.23	7.60	83
#40	0.017	0.42	7.70	15.30	66
#60	0.010	0.25	8.14	23.44	47
#100	0.006	0.15	10.13	33.57	25
#200	0.003	0.07	5.85	39.42	11
Pan			5.09	44.51	0

Total Dry Weight of Sample = 164.78

D85 : 1.0161 mm
D60 : 0.3580 mm
D50 : 0.2696 mm
D30 : 0.1685 mm
D15 : 0.0895 mm
D10 : 0.0520 mm

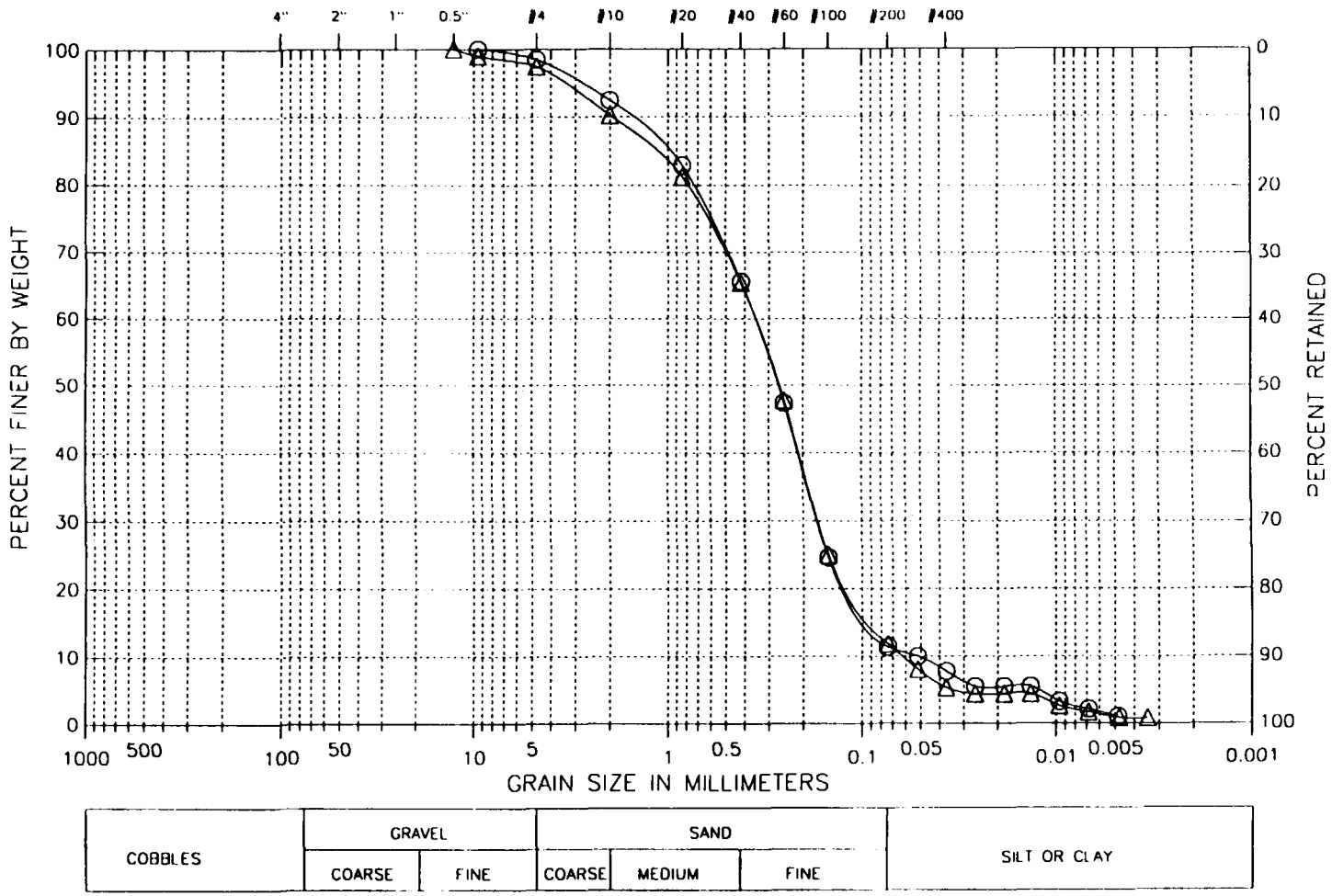
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

RCC-SD-3003-01

Project : Tetra Tech NUS; N0400
Project No.: GTX 2642
Location:
Date : Thu Dec 16 1999



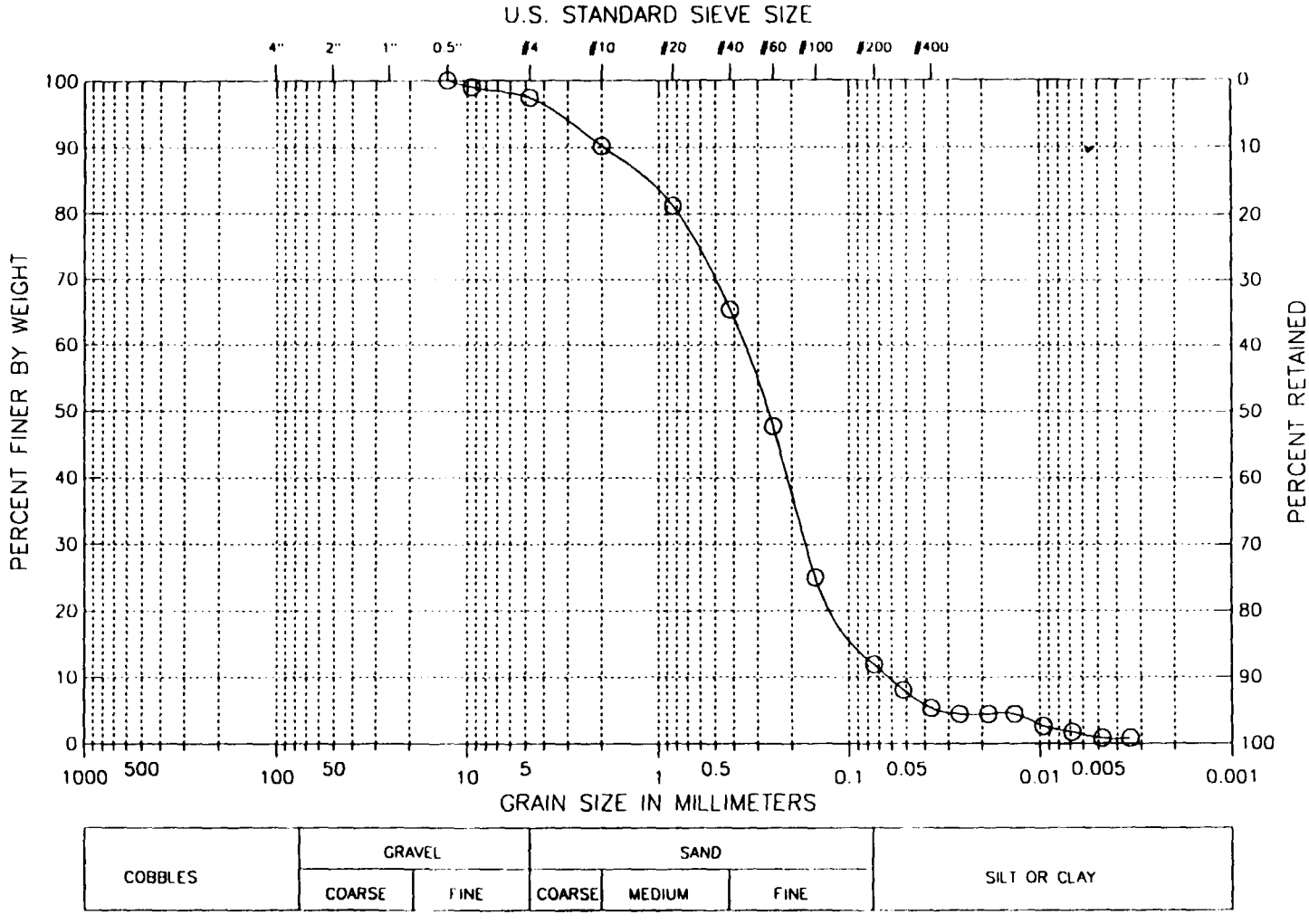
Symbol	Boring No.	Sample No.	Depth	Filename	Classification / Description
⊖	- - -	D01042	- -	01042	Wet, black silty sand with organics
△		D01042 DUP		01042DUP	Wet, black silty sand with organics

Figure 1

03

US EPA ARCHIVE DOCUMENT

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No.: D01042 DUP	Project No.: CTX 2632
Test Method ASTM D 422	Location: ---
Filename : 01042DUP	Date : Thu Dec 16 1999



Classification :

Remarks :
Duplicate Analysis

Visual Description :
Wet, black silty sand with organics

Figure 11

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

RCC-SD-3003-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01042 DUP
Location : ---
Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422
Filename : D1042DUP
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT
Soil Description : Wet, black silty sand with organics
Remarks : **Duplicate Analysis**

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 50.03 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	10.00	20.50	4.44	0.052	8	0.052
2.00	8.50	20.50	2.94	0.037	5	0.037
4.00	8.00	20.50	2.44	0.026	4	0.026
8.00	8.00	20.50	2.44	0.019	4	0.019
15.00	8.00	20.50	2.44	0.014	4	0.014
30.00	7.00	20.50	1.44	0.010	3	0.010
60.00	6.50	20.50	0.94	0.007	2	0.007
123.00	6.00	20.50	0.44	0.005	1	0.005
240.00	6.00	20.50	0.44	0.003	1	0.003

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	0.55	0.55	99
#4	0.187	4.75	0.87	1.42	97
#10	0.079	2.00	3.99	5.41	90
#20	0.033	0.84	4.97	10.38	81
#40	0.017	0.42	8.81	19.19	65
#60	0.010	0.25	9.78	28.97	48
#100	0.006	0.15	12.62	41.59	25
#200	0.003	0.07	7.26	48.85	12
Pan			6.60	55.45	0

Total Dry Weight of Sample = 162.85

D85 : 1.2048 mm
D60 : 0.3584 mm
D50 : 0.2671 mm
D30 : 0.1670 mm
D15 : 0.0873 mm
D10 : 0.0622 mm

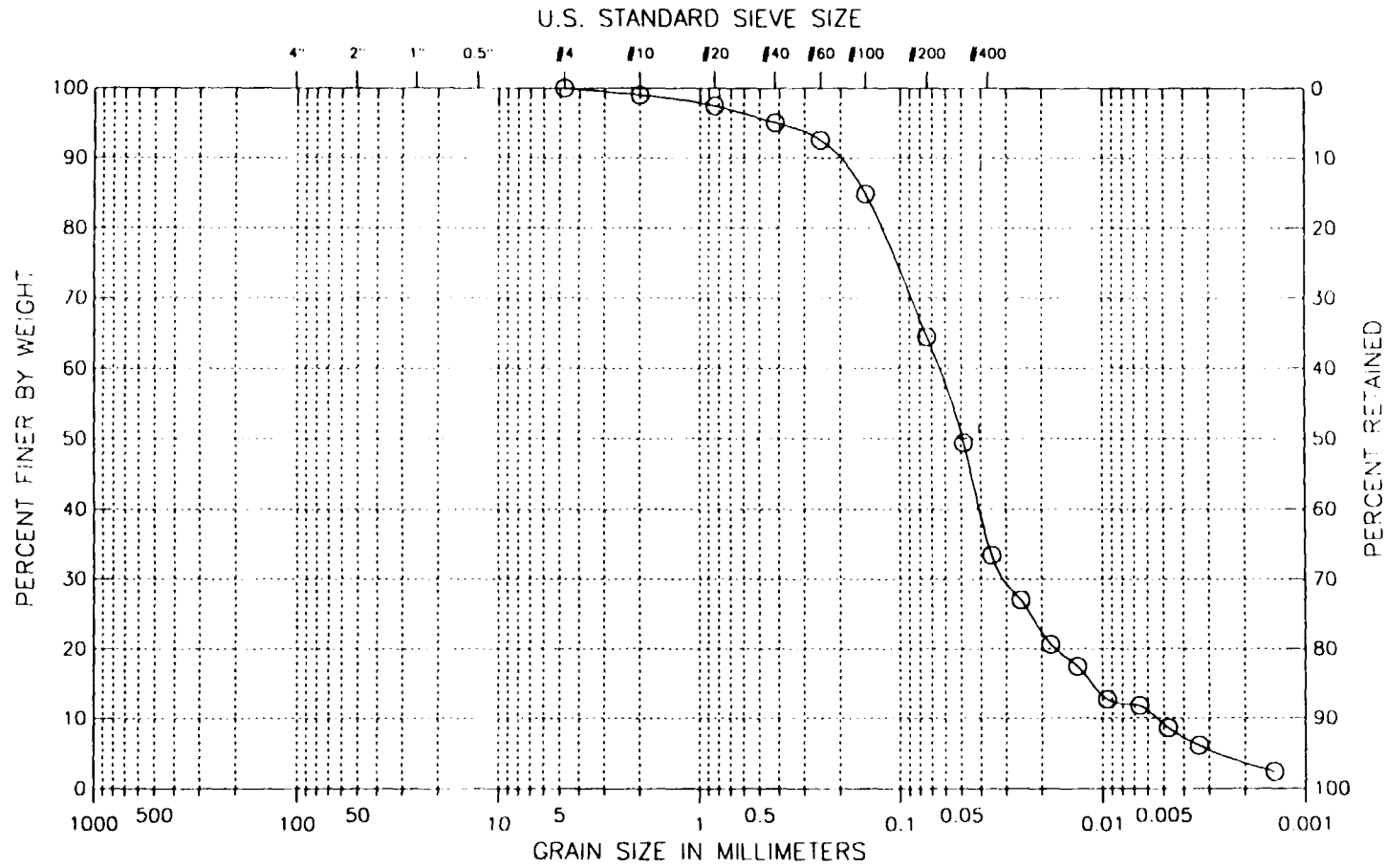
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

RAB-SD-3004-01

Boring No	Project : Tetra Tech NUS, N0400
Sample No. D01049	Project No : GTX 2632
Test Method ASTM D 422	Location:
Filename : 01049	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Wet, very dark grayish brown sandy organic silt

Figure 14

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

RAB-SD-3004-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01049
Location : ---
Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422
Filename : 01049
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT
Soil Description : Wet, very dark grayish brown sandy organic silt
Remarks : ---

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 31.03 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	22.00	20.00	15.46	0.049	49	0.049
2.00	17.00	20.00	10.46	0.035	33	0.035
4.00	15.00	20.00	8.46	0.025	27	0.025
8.00	13.00	20.00	6.46	0.018	21	0.018
15.00	12.00	20.00	5.46	0.013	17	0.013
30.00	10.50	20.00	3.96	0.010	13	0.010
62.00	10.00	20.50	3.68	0.007	12	0.007
120.00	9.00	20.50	2.68	0.005	9	0.005
240.00	8.00	21.00	1.90	0.003	6	0.003
1380.00	7.50	19.50	0.74	0.001	2	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.31	0.31	99
#20	0.033	0.84	0.49	0.80	97
#40	0.017	0.42	0.75	1.55	95
#60	0.010	0.25	0.78	2.33	93
#100	0.006	0.15	2.41	4.74	85
#200	0.003	0.07	6.40	11.14	64
Pan			20.20	31.34	0

Total Dry Weight of Sample = 151.31

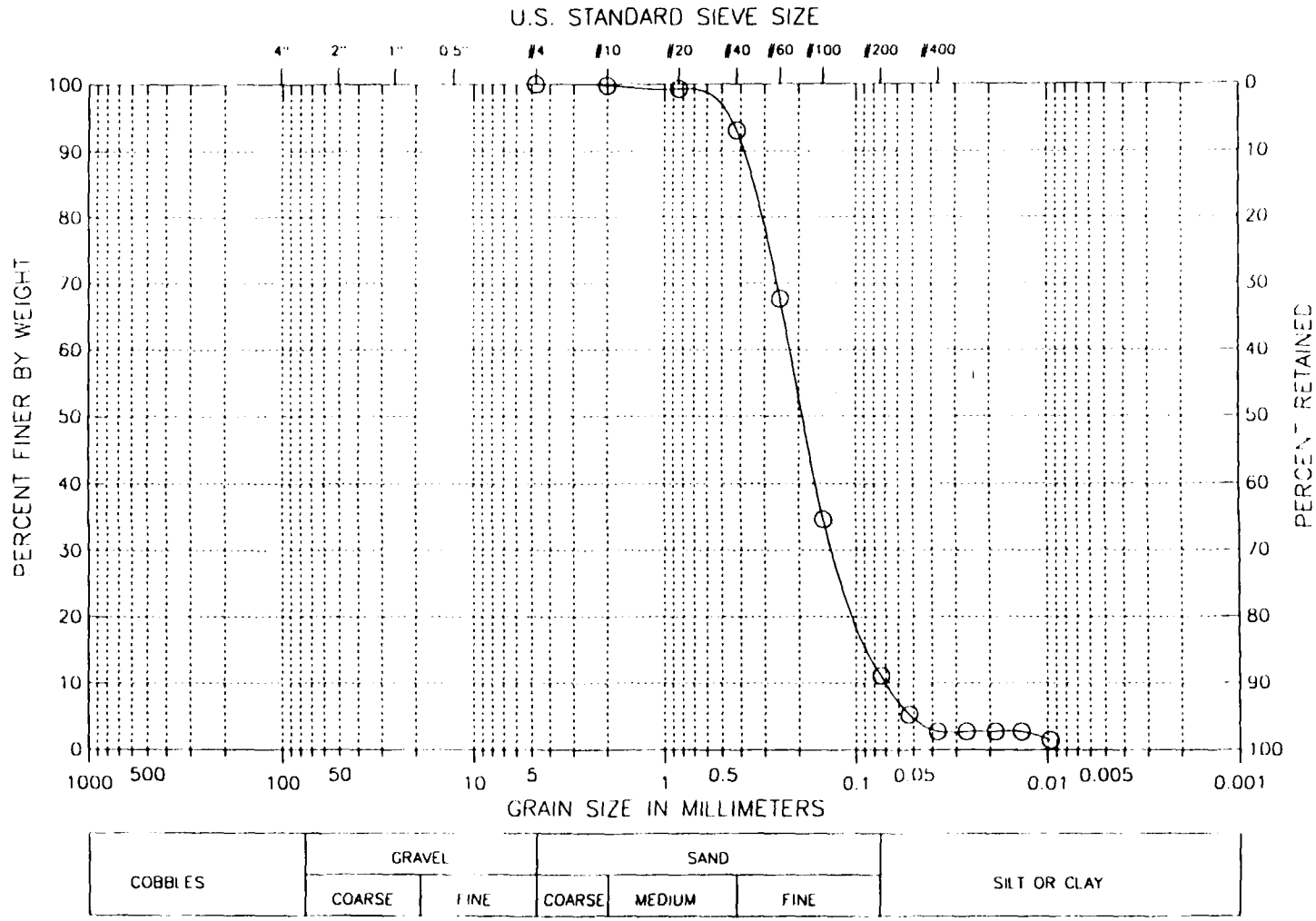
D85 : 0.1503 mm
D60 : 0.0654 mm
D50 : 0.0494 mm
D30 : 0.0296 mm
D15 : 0.0112 mm
D10 : 0.0055 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

WRC - SD - 2009 - 01

Boring No. : ---	Project : Tetra Tech NUS; Centerdale; N0191
Sample No: D00959	Project No.: GTX 2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 959	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Moist, very dark gray sand with silt

Figure

WRC-SD-2009-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00959
Location : Centerdale, RI
Soil Description : Moist, very dark gray sand with silt
Remarks : ---

Filename : 959
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 39.58 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	8.00	20.00	2.08	0.053	5	0.053
2.00	7.00	20.00	1.08	0.038	3	0.038
4.00	7.00	20.00	1.08	0.027	3	0.027
8.00	7.00	20.00	1.08	0.019	3	0.019
15.00	7.00	20.00	1.08	0.014	3	0.014
30.00	6.50	20.00	0.58	0.010	1	0.010

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.08	0.08	100
#20	0.033	0.84	0.21	0.29	99
#40	0.017	0.42	2.45	2.74	93
#60	0.010	0.25	10.09	12.83	68
#100	0.006	0.15	13.12	25.95	35
#200	0.003	0.07	9.32	35.27	11
Pan			4.39	39.66	0

Total Dry Weight of Sample = 156.45

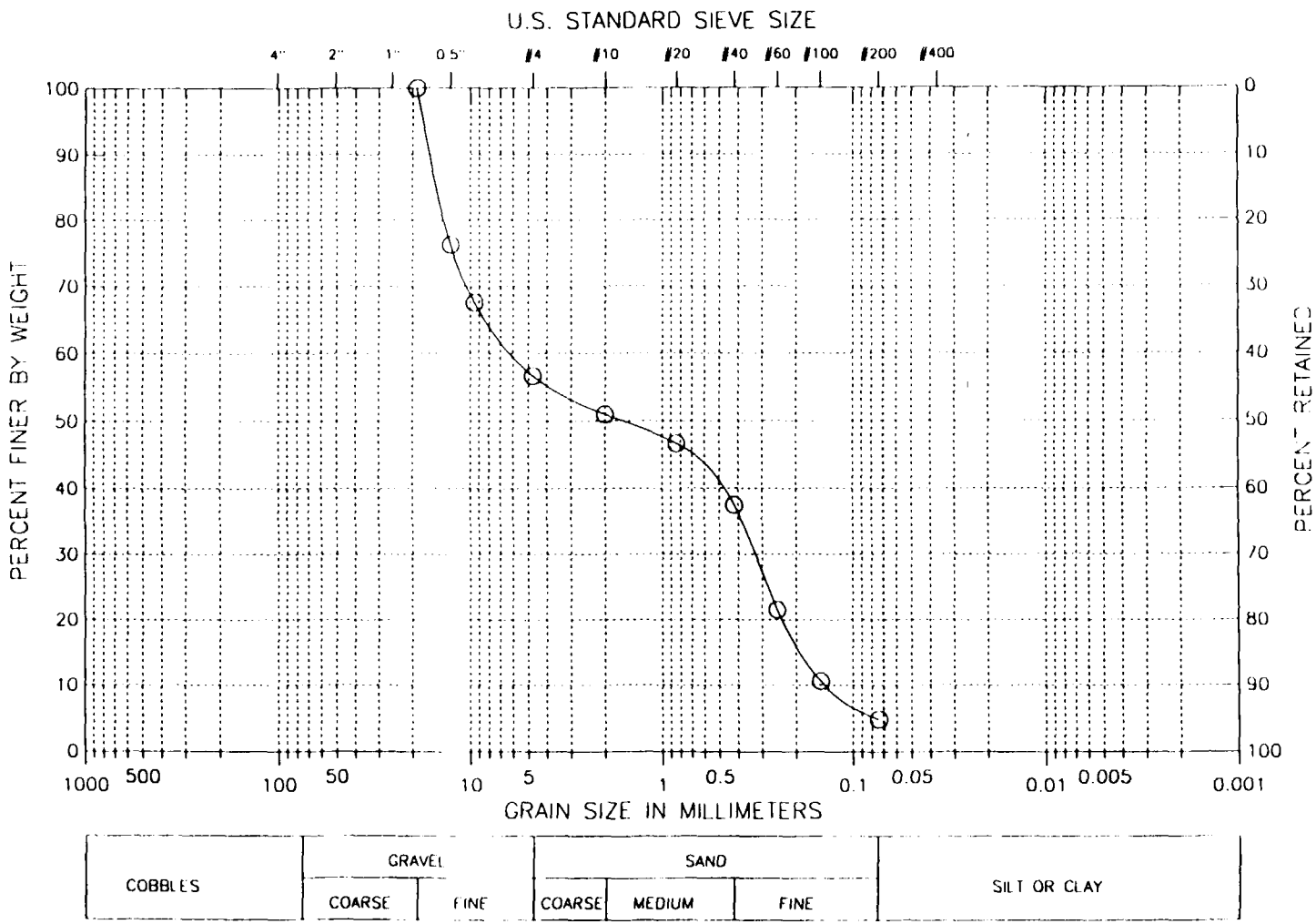
D85 : 0.3561 mm
D60 : 0.2218 mm
D50 : 0.1897 mm
D30 : 0.1300 mm
D15 : 0.0832 mm
D10 : 0.0696 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

US EPA ARCHIVE DOCUMENT

WRC - SD - 2010 - 01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00966	Project No.: GTX- 2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 966	Date : Fri Dec 03 1999



Classification :
(SP) Poorly graded sand with gravel
Visual Description :
Moist, very dark gray sand with gravel, organics

Remarks :
Hydrometer not required, fines < 10%

Figure

WRC - SD - ~~2100~~ 2010 - 01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00966
Location : Centerdale, RI
Soil Description : Moist, very dark gray sand with gravel, organics
Remarks : Hydrometer not required, fines < 10%

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 966
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	12.90	12.90	76
0.375"	0.374	9.51	4.74	17.64	68
#4	0.187	4.75	5.89	23.53	57
#10	0.079	2.00	3.11	26.64	51
#20	0.033	0.84	2.35	28.99	47
#40	0.017	0.42	4.99	33.98	37
#60	0.010	0.25	8.67	42.65	21
#100	0.006	0.15	5.94	48.59	11
#200	0.003	0.07	3.12	51.71	5
Pan			2.62	54.33	0

Total Dry Weight of Sample = 173.14

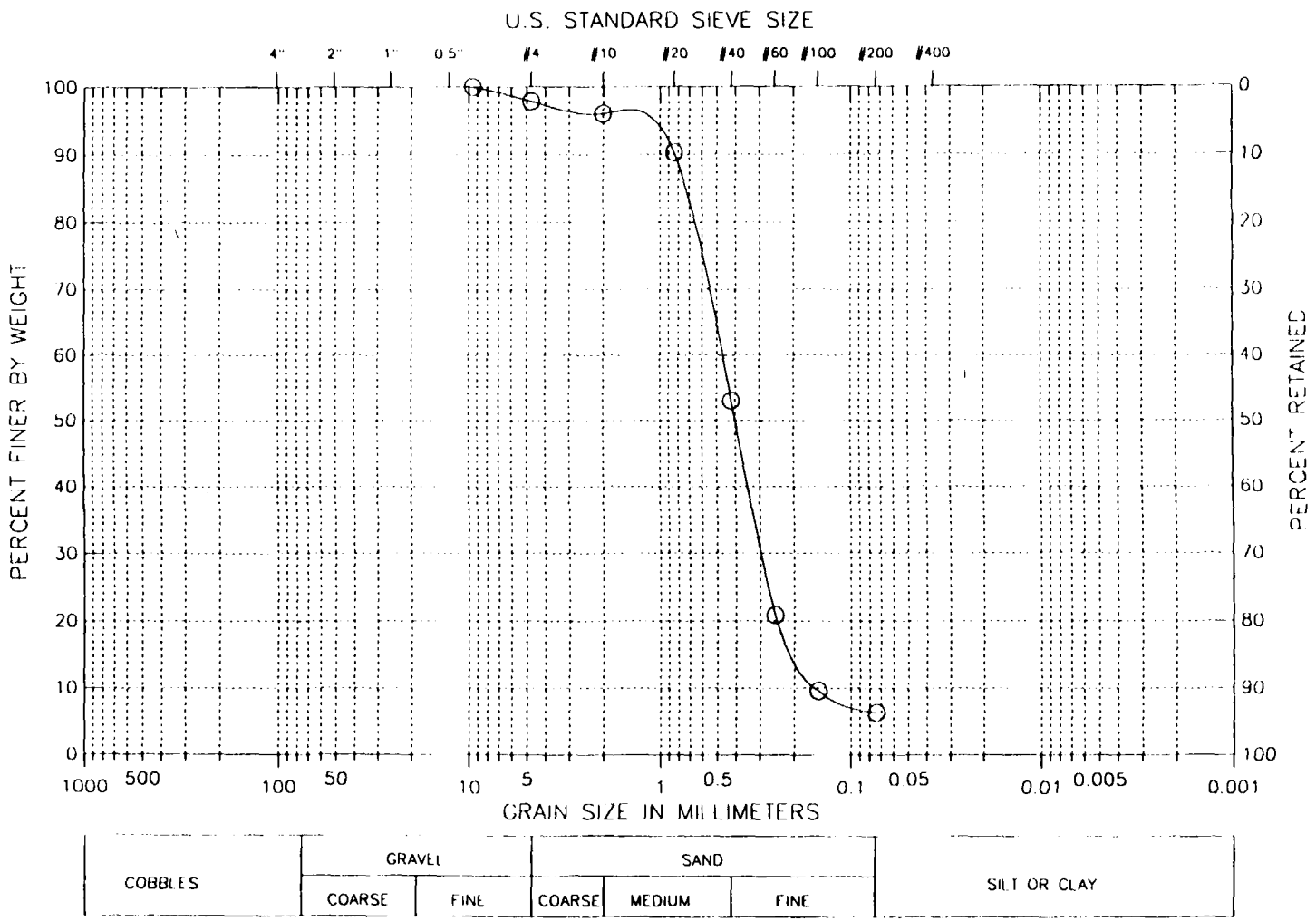
D85 : 14.7309 mm
D60 : 5.8712 mm
D50 : 1.6481 mm
D30 : 0.3296 mm
D15 : 0.1838 mm
D10 : 0.1391 mm

Soil Classification
ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand with gravel
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

WRC-SD-2011-0005-01

Boring No :	Project : Tetra Tech NUS, Centerdale; N0191
Sample No.: D00967	Project No.: GTX 2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 967	Date : Fri Dec 03 1999



Classification :

Visual Description :
Moist, gray sand with some silt

Remarks :
Hydrometer not required, fines < 10%

Figure

WRC-SD-2011-0005-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; NO191 Filename : 967
Project No. : GTX-2607 Depth : --- Elevation : ---
Boring No. : --- Test Date : 11/17/99 Tested by : NJH/MED
Sample No. : D00967 Test Method : ASTM D 422 Checked by : GTT
Location : Centerdale, RI
Soil Description : Moist, gray sand with some silt
Remarks : Hydrometer not required, fines < 10%

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.58	0.58	98
#10	0.079	2.00	0.49	1.07	96
#20	0.033	0.84	1.55	2.62	90
#40	0.017	0.42	10.02	12.64	53
#60	0.010	0.25	8.66	21.30	21
#100	0.006	0.15	3.04	24.34	10
#200	0.003	0.07	0.87	25.21	6
Pan			1.70	26.91	0

Total Dry Weight of Sample = 141.81

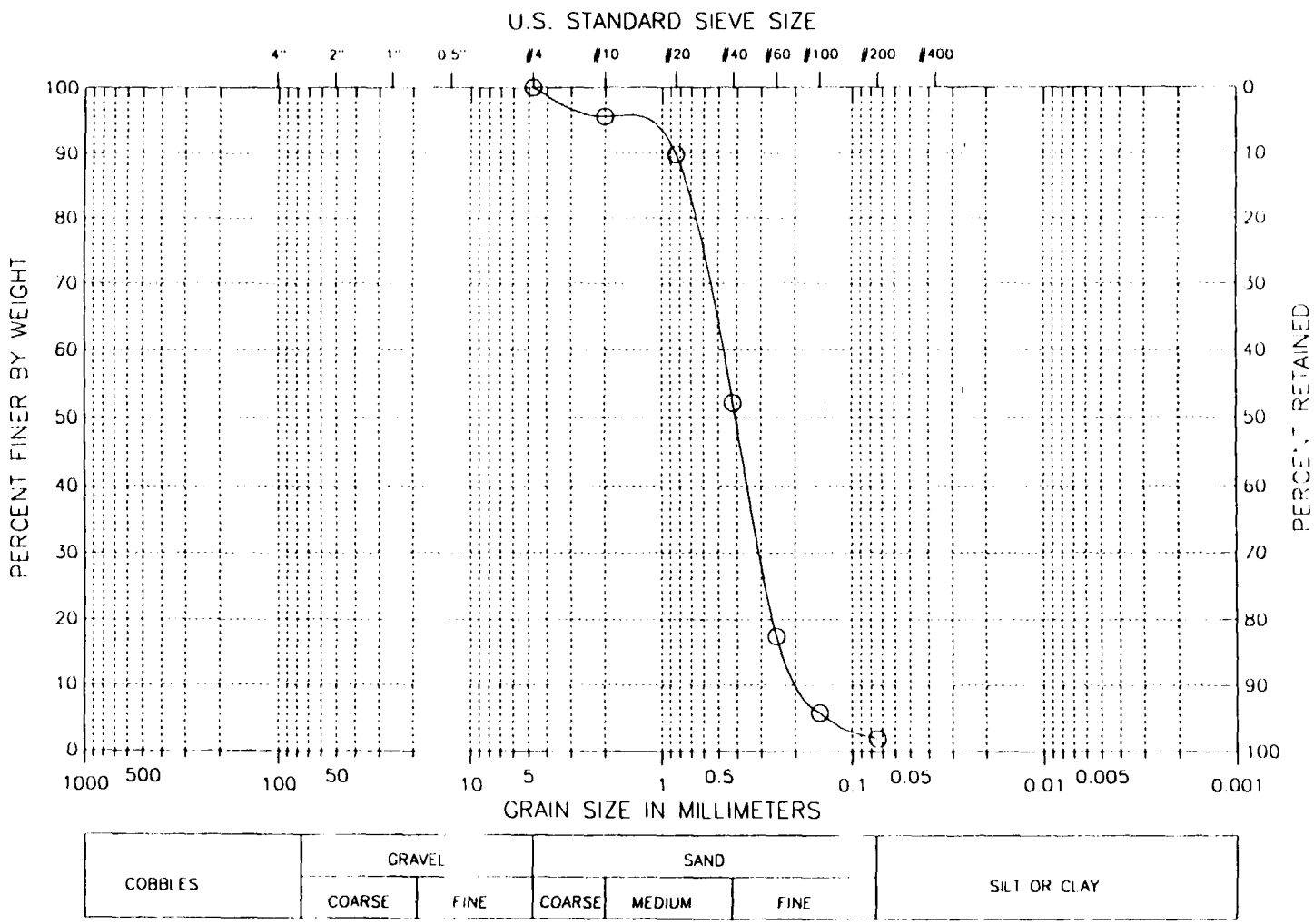
D85 : 0.7624 mm
D60 : 0.4783 mm
D50 : 0.4000 mm
D30 : 0.2897 mm
D15 : 0.1913 mm
D10 : 0.1521 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-3(0)
AASHTO Group Name : Fine Sand

US EPA ARCHIVE DOCUMENT

WRC-SD-2011-000.5-01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No: D00967 - DUP	Project No.: GTX 2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 967DUP	Date : Fri Dec 03 1999



Classification :
(SP) Poorly graded sand
Visual Description :
Moist, gray sand with some silt

Remarks :
DUPLICATE Hydrometer not required, fines < 10%

Figure 32

US EPA ARCHIVE DOCUMENT

ARC-SD-2011-000.5-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS: Centerdale: N0191 Filename : 967DUP
Project No. : GTX-2607 Depth : --- Elevation : ---
Boring No. : --- Test Date : 11/17/99 Tested by : NJH/MED
Sample No. : D00967 - DUP Test Method : ASTM D 422 Checked by : GTT
Location : Centerdale, RI
Soil Description : Moist, gray sand with some silt
Remarks : **DUPLICATE** Hydrometer not required, fines < 10%

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	1.65	1.65	96
#20	0.033	0.84	2.17	3.82	90
#40	0.017	0.42	14.09	17.91	52
#60	0.010	0.25	12.99	30.90	17
#100	0.006	0.15	4.38	35.28	6
#200	0.003	0.07	1.44	36.72	2
Pan			0.71	37.43	0

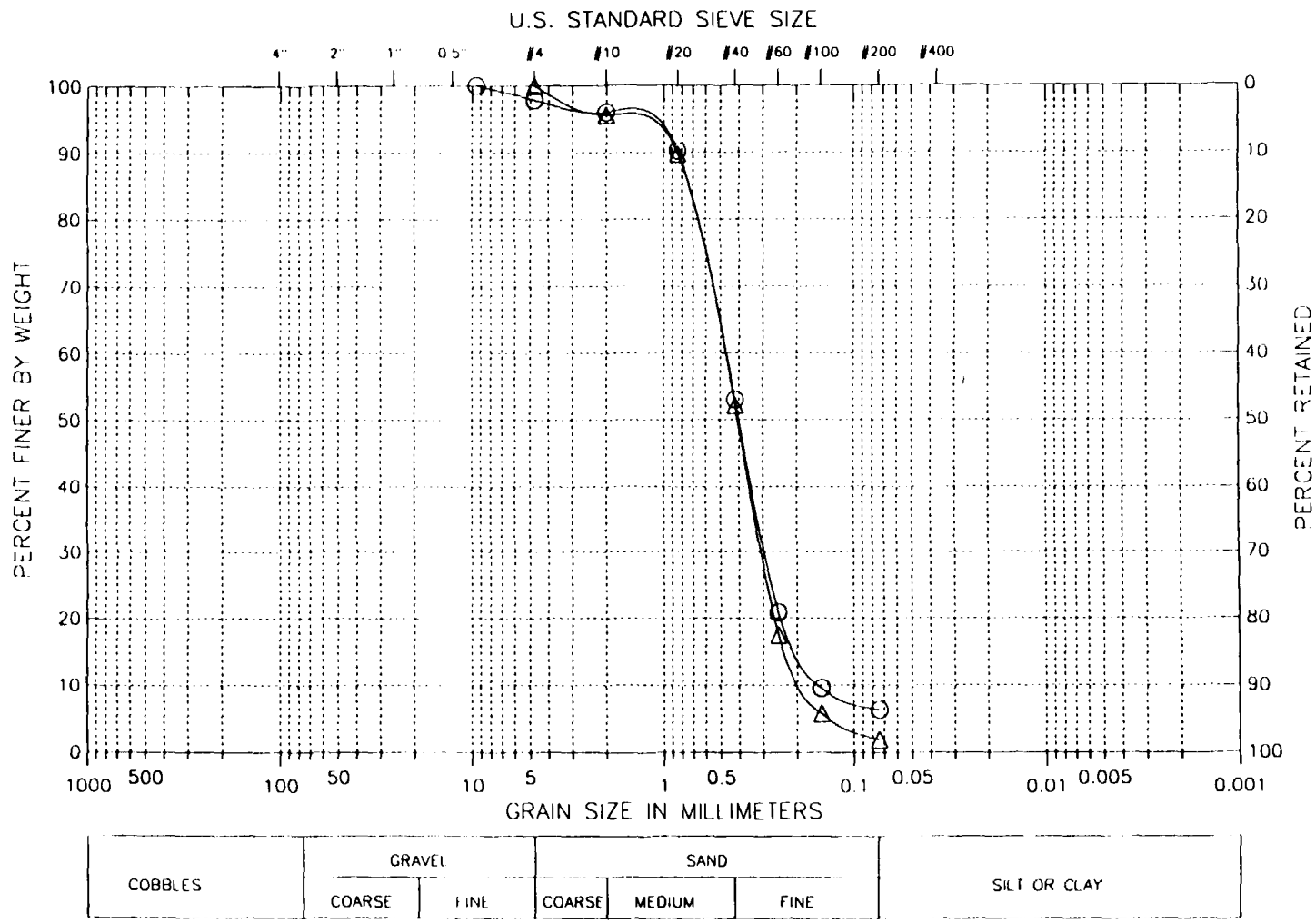
Total Dry Weight of Sample = 143.58

D85 : 0.7698 mm
D60 : 0.4854 mm
D50 : 0.4067 mm
D30 : 0.3016 mm
D15 : 0.2244 mm
D10 : 0.1799 mm

Soil Classification
ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand
AASHTO Group Symbol : A-3(0)
AASHTO Group Name : Fine Sand

WRC-SD-2011-000.5-01

Project : Tetra Tech NUS; Centerdale; N0191
Project No.: GIX-2607
Location: Centerdale, RI
Date : Fri Dec 03 1999

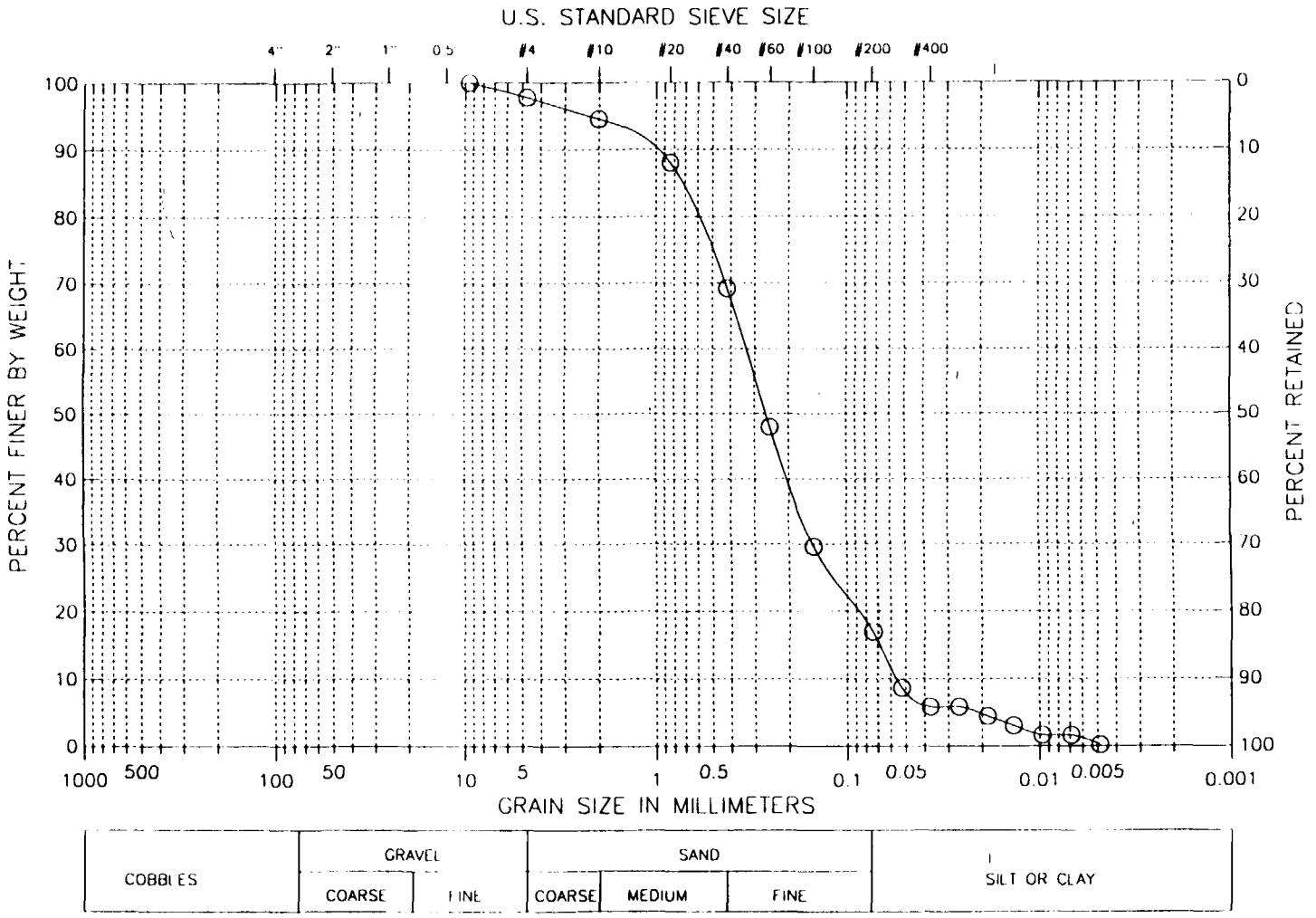


Symbol	Boring No.	Sample No.	Depth	Filename	Classification / Description
-⊖-	- - -	D00967	- -	967	Moist, gray sand with some silt
△	- - -	D00967 DUP		967DUP	SP Poorly graded sand

Figure 2

WRC-SD-2012-01

Boring No. : -	Project : Tetra Tech NUS; Centerdale; N0191
Sample No: D00969	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 969	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Moist, very dark gray silty sand with organics

Figure 33

US EPA ARCHIVE DOCUMENT

WRC-SD-2012-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; RI191
Project No. : GTX-2607
Boring No. : ---
Sample No. : 200969
Location : Centerdale, RI
Soil Description : Moist, very dark gray silty sand with organics
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 969
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 33.9 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	9.00	20.00	3.08	0.053	9	0.053
2.00	8.00	20.00	2.08	0.037	6	0.037
4.00	8.00	20.00	2.08	0.026	6	0.026
8.00	7.50	20.00	1.58	0.019	4	0.019
15.00	7.00	20.00	1.08	0.014	3	0.014
30.00	6.50	20.00	0.58	0.010	2	0.010
60.00	6.50	20.00	0.58	0.007	2	0.007
120.00	6.00	20.00	0.08	0.005	0	0.005

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.79	0.79	98
#10	0.079	2.00	1.15	1.94	95
#20	0.033	0.84	2.36	4.30	88
#40	0.017	0.42	6.75	11.05	69
#60	0.010	0.25	7.61	18.66	48
#100	0.006	0.15	6.57	25.23	30
#200	0.003	0.07	4.53	29.76	17
Pan			6.08	35.84	0

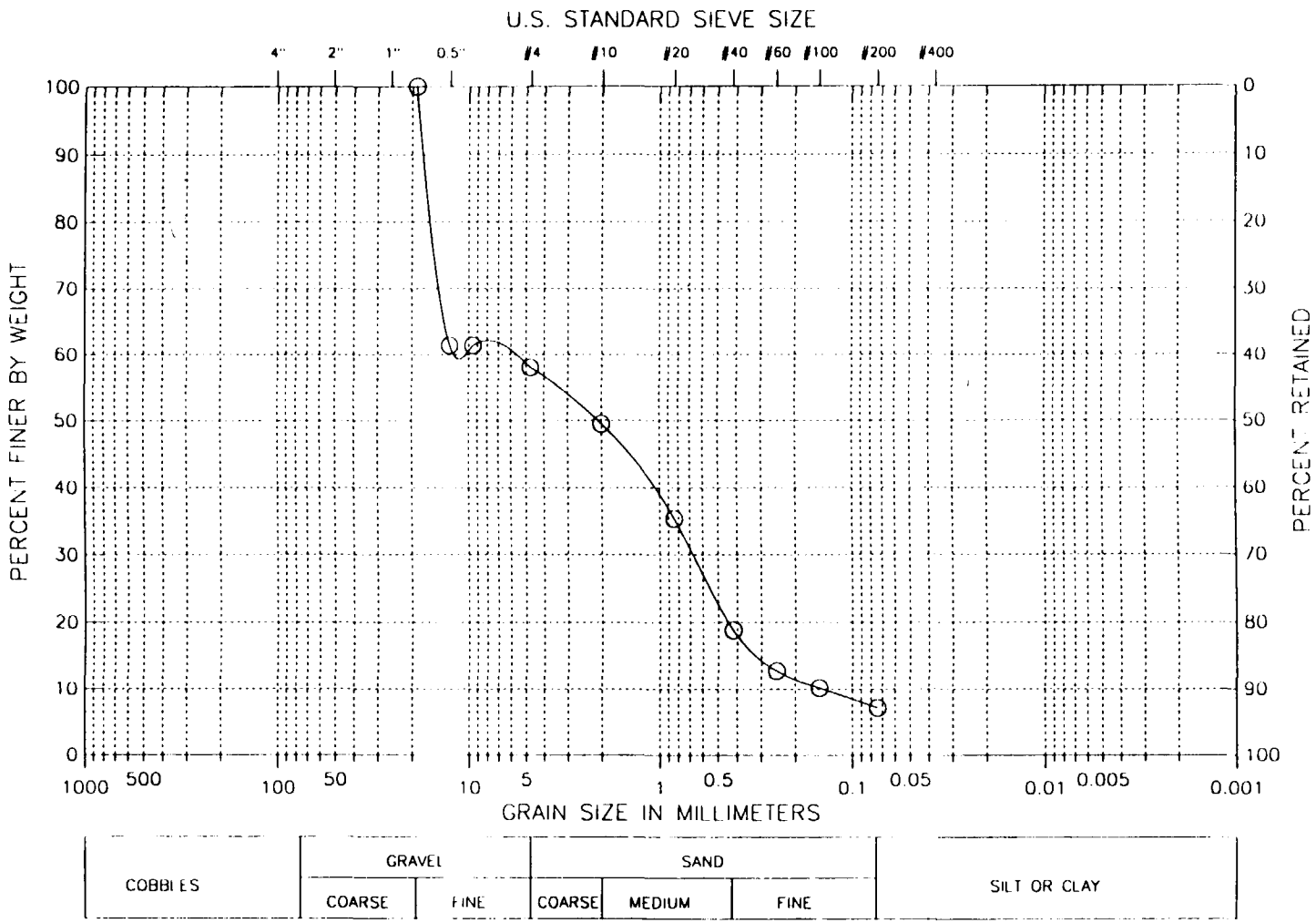
Total Dry Weight of Sample = 166.95

D85 : 0.7529 mm
D60 : 0.3357 mm
D50 : 0.2629 mm
D30 : 0.1507 mm
D15 : 0.0683 mm
D10 : 0.0556 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

WRC-SD-2013-000.5-01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00960	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 960	Date : Fri Dec 03 1999



Classification :

Remarks :
Hydrometer not required, fines < 10%

Visual Description :
Moist, black sand with some silt, organics

Figure 27

WRC-SD-2013-000.5-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191 Filename : D60
Project No. : GTX-2607 Depth : --- Elevation : ---
Boring No. : --- Test Date : 11/17/99 Tested by : NJH/MED
Sample No. : D00960 Test Method : ASTM D 422 Checked by : GTT
Location : Centerdale, RI
Soil Description : Moist, black sand with some silt, organics
Remarks : Hydrometer not required, fines < 10%

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	8.87	8.87	61
0.375"	0.374	9.51	0.00	8.87	61
#4	0.187	4.75	0.77	9.64	58
#10	0.079	2.00	1.96	11.60	49
#20	0.033	0.84	3.25	14.85	35
#40	0.017	0.42	3.80	18.65	19
#60	0.010	0.25	1.40	20.05	13
#100	0.006	0.15	0.59	20.64	10
#200	0.003	0.07	0.69	21.33	7
Pan			1.64	22.97	0

Total Dry Weight of Sample = 145.35

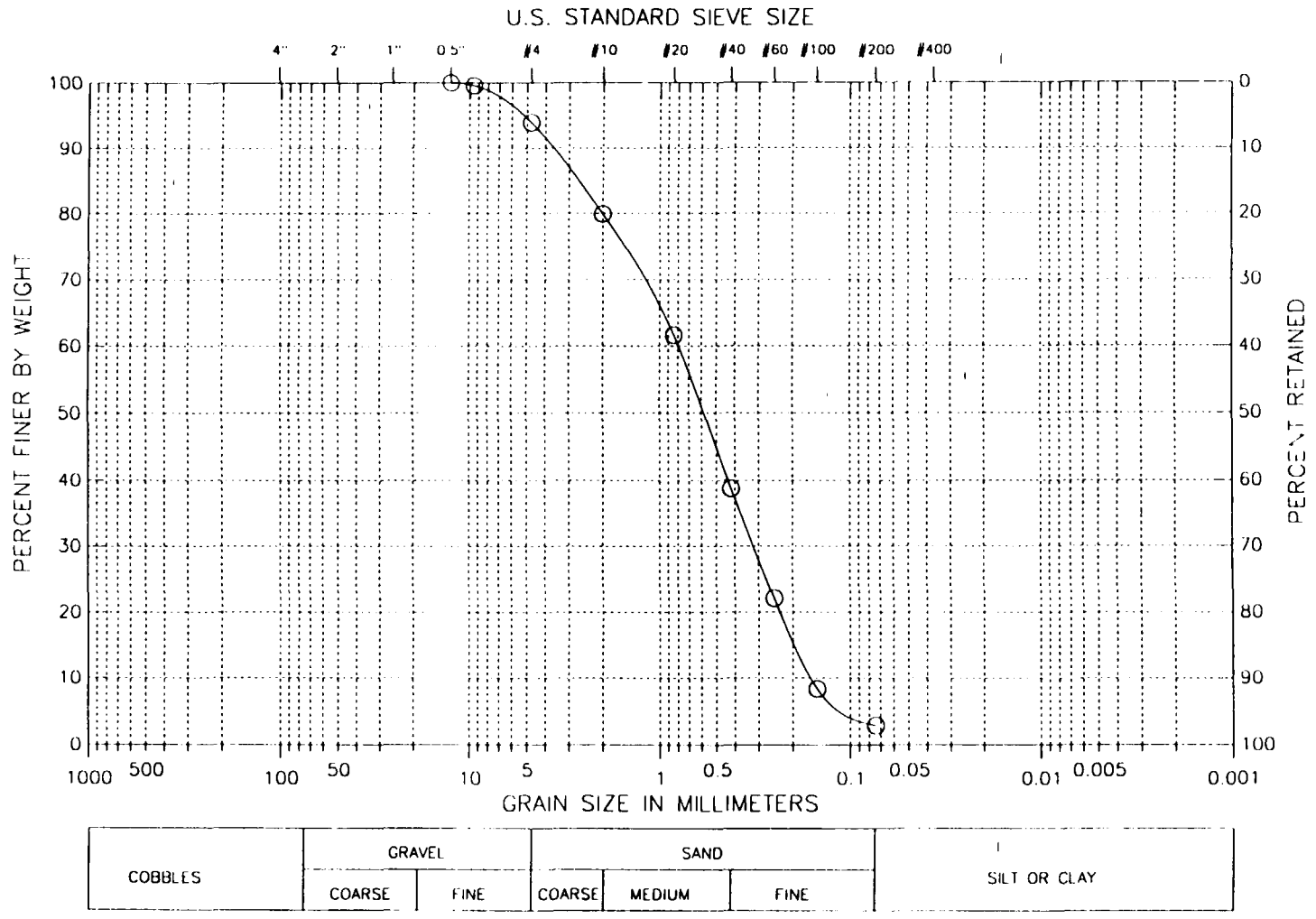
D85 : 16.2478 mm
D60 : 7.1395 mm
D50 : 2.1041 mm
D30 : 0.6718 mm
D15 : 0.3037 mm
D10 : 0.1441 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-a(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

WRC-SD-2014-01

Boring No. :	Project : Tetra Tech NUS; Centerdale, N0191
Sample No.: D00961	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 961	Date : Fri Dec 03 1999



Classification :
(SP) Poorly graded sand
Visual Description :
Moist, very dark gray sand

Remarks :
Hydrometer not required, fines < 10%

Figure 28

US EPA ARCHIVE DOCUMENT

NRC-SD-2014-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00961
Location : Centerdale, RI
Soil Description : Moist, very dark gray sand
Remarks : Hydrometer not required, fines < 10%

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 961
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	0.21	0.21	100
#4	0.187	4.75	2.74	2.95	94
#10	0.079	2.00	6.77	9.72	80
#20	0.033	0.84	8.83	18.55	62
#40	0.017	0.42	11.05	29.60	39
#60	0.010	0.25	8.06	37.66	22
#100	0.006	0.15	6.66	44.32	8
#200	0.003	0.07	2.65	46.97	3
Pan			1.38	48.35	0

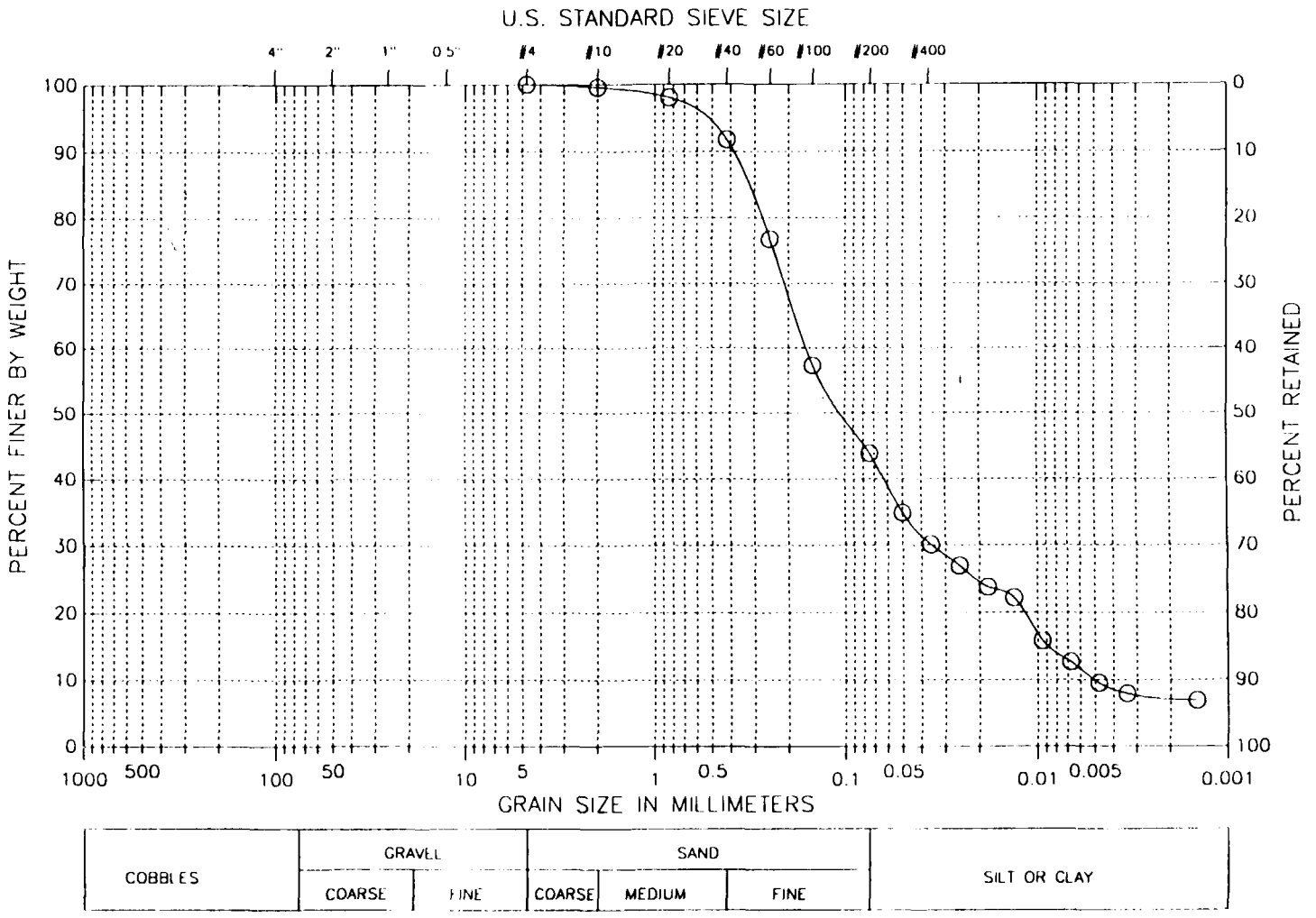
Total Dry Weight of Sample = 166.51

D85 : 2.7413 mm
D60 : 0.8003 mm
D50 : 0.5906 mm
D30 : 0.3196 mm
D15 : 0.1914 mm
D10 : 0.1586 mm

Soil Classification
ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

WRC-SD-2015-01

	Boring No. : - Sample No.: D00962 Test Method ASTM D 422 Filename : 962	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, very dark gray silty sand

Figure 29

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

WRC-SD-2015-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00962
Location : Centerdale, RI
Soil Description : Wet, very dark gray silty sand
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 962
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 31.5 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	21.00	11.00	0.050	35	0.050
2.00	13.50	21.00	9.50	0.036	30	0.036
4.00	12.50	21.00	8.50	0.025	27	0.025
8.00	11.50	21.00	7.50	0.018	24	0.018
15.00	11.00	21.00	7.00	0.013	22	0.013
30.00	9.00	21.00	5.00	0.009	16	0.009
60.00	8.00	21.00	4.00	0.007	13	0.007
120.00	7.00	21.00	3.00	0.005	9	0.005
240.00	6.50	21.00	2.50	0.003	8	0.003
1337.00	6.50	20.00	2.18	0.001	7	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.13	0.13	100
#20	0.033	0.84	0.49	0.62	98
#40	0.017	0.42	1.98	2.60	92
#60	0.010	0.25	4.75	7.35	77
#100	0.006	0.15	6.16	13.51	57
#200	0.003	0.07	4.25	17.76	44
Pan			13.87	31.63	0

Total Dry Weight of Sample = 148.7

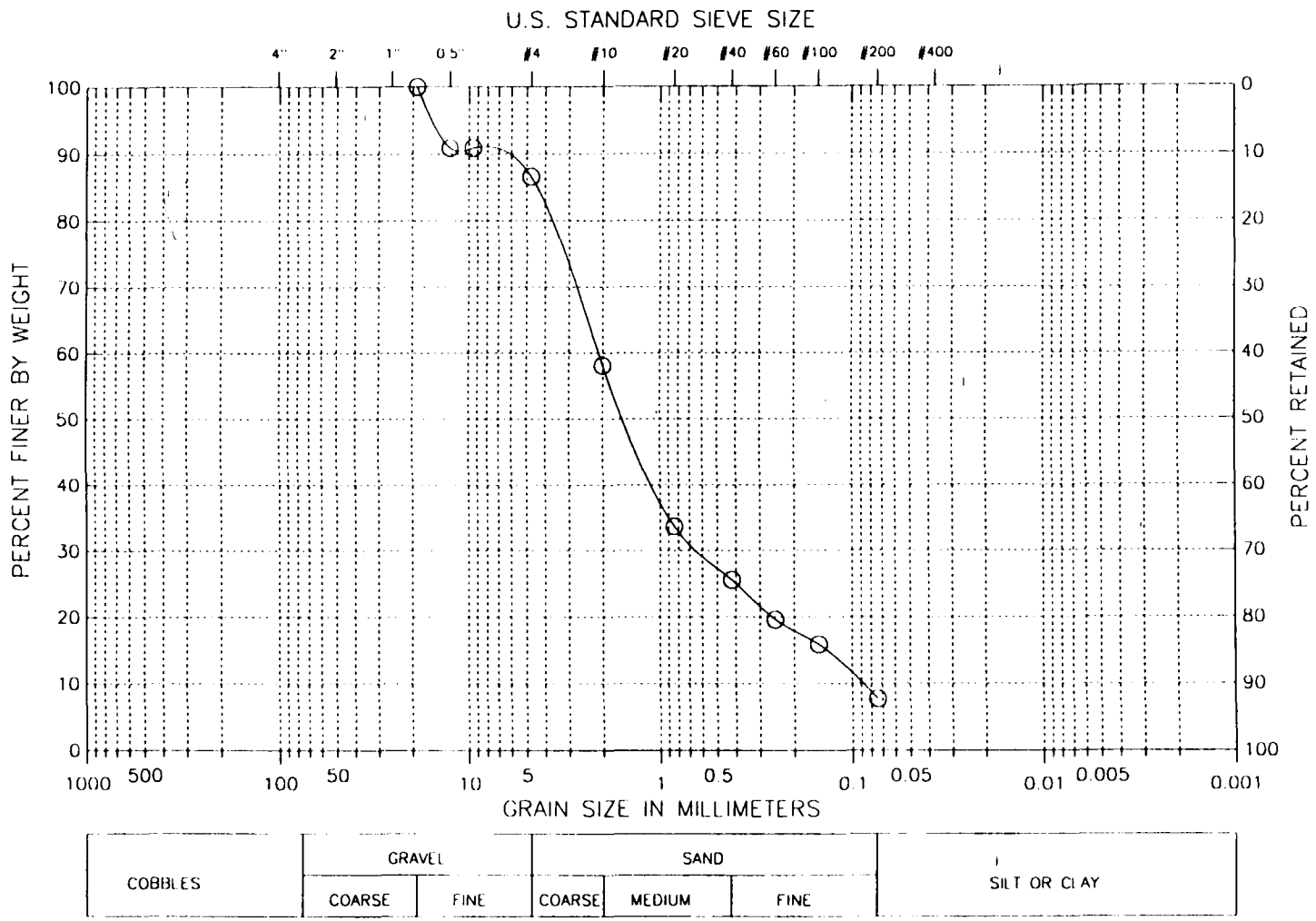
D85 : 0.3323 mm
D60 : 0.1601 mm
D50 : 0.1019 mm
D30 : 0.0355 mm
D15 : 0.0087 mm
D10 : 0.0051 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

CMW-SD-2016-01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00911	Project No.: GIX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 911	Date : Fri Dec 03 1999



Classification :

Visual Description :
Moist, dark brown sand with gravel and silt

Remarks :
Hydrometer not required, fines < 10%

Figure 13

CMW-SD-2016-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D30911
Location : Centerdale, RI
Soil Description : Moist, dark brown sand with gravel and silt
Remarks : Hydrometer not required, fines < 10%

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 911
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	5.19	5.19	91
0.375"	0.374	9.51	0.00	5.19	91
#4	0.187	4.75	2.46	7.65	87
#10	0.079	2.00	16.31	23.96	58
#20	0.033	0.84	13.96	37.92	34
#40	0.017	0.42	4.62	42.54	26
#60	0.010	0.25	3.43	45.97	20
#100	0.006	0.15	2.13	48.10	16
#200	0.003	0.07	4.66	52.76	8
Pan			4.40	57.16	0

Total Dry Weight of Sample = 177.13

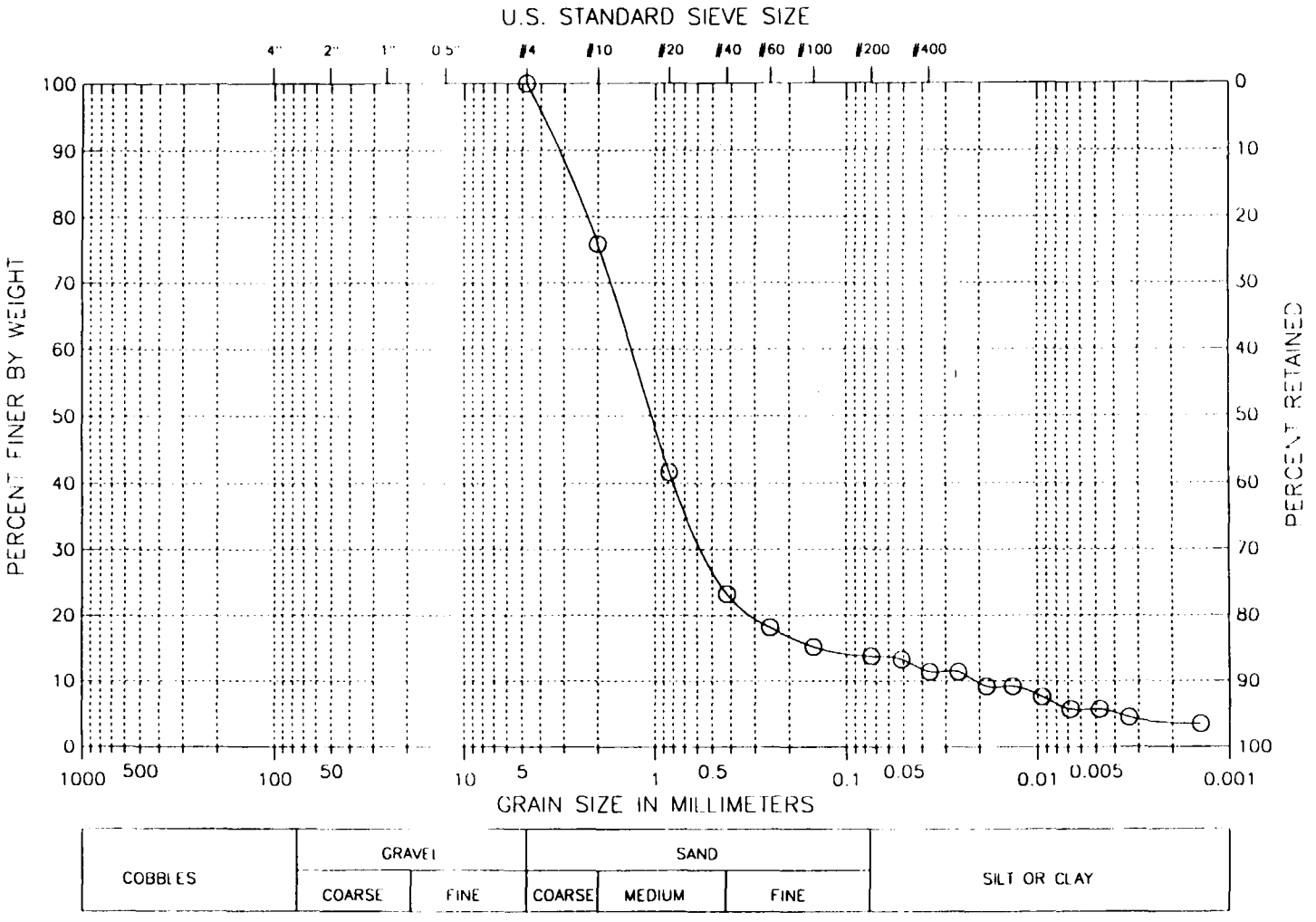
D85 : 4.5228 mm
D60 : 3.1197 mm
D50 : 1.5015 mm
D30 : 0.6141 mm
D15 : 0.1385 mm
D10 : 0.0902 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

CMW-SD-2017-01

Boring No :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No: D00912	Project No.: GTX 2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 912	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Moist, very dark brown sand with silt

Figure 14

CMW-SD-2017-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00912
Location : Centerdale, RI
Soil Description : Moist, very dark brown sand with silt
Remarks : ---

Filename : 912
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested By : NJH/MED
Checked By : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 39.55 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	11.00	21.00	7.00	0.051	13	0.051
2.00	10.00	21.00	6.00	0.036	11	0.036
4.00	10.00	21.00	6.00	0.026	11	0.026
8.00	9.00	20.50	4.84	0.018	9	0.018
15.00	9.00	20.50	4.84	0.013	9	0.013
30.00	8.00	21.00	4.00	0.010	8	0.010
60.00	7.00	21.00	3.00	0.007	6	0.007
120.00	7.00	21.00	3.00	0.005	6	0.005
240.00	6.00	22.00	2.36	0.003	4	0.003
1396.00	6.00	20.50	1.84	0.001	3	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	11.61	11.61	76
#20	0.033	0.84	16.50	28.11	42
#40	0.017	0.42	8.86	36.97	23
#60	0.010	0.25	2.44	39.41	18
#100	0.006	0.15	1.44	40.85	15
#200	0.003	0.07	0.69	41.54	14
Pan			6.62	48.16	0

Total Dry Weight of Sample = 165.44

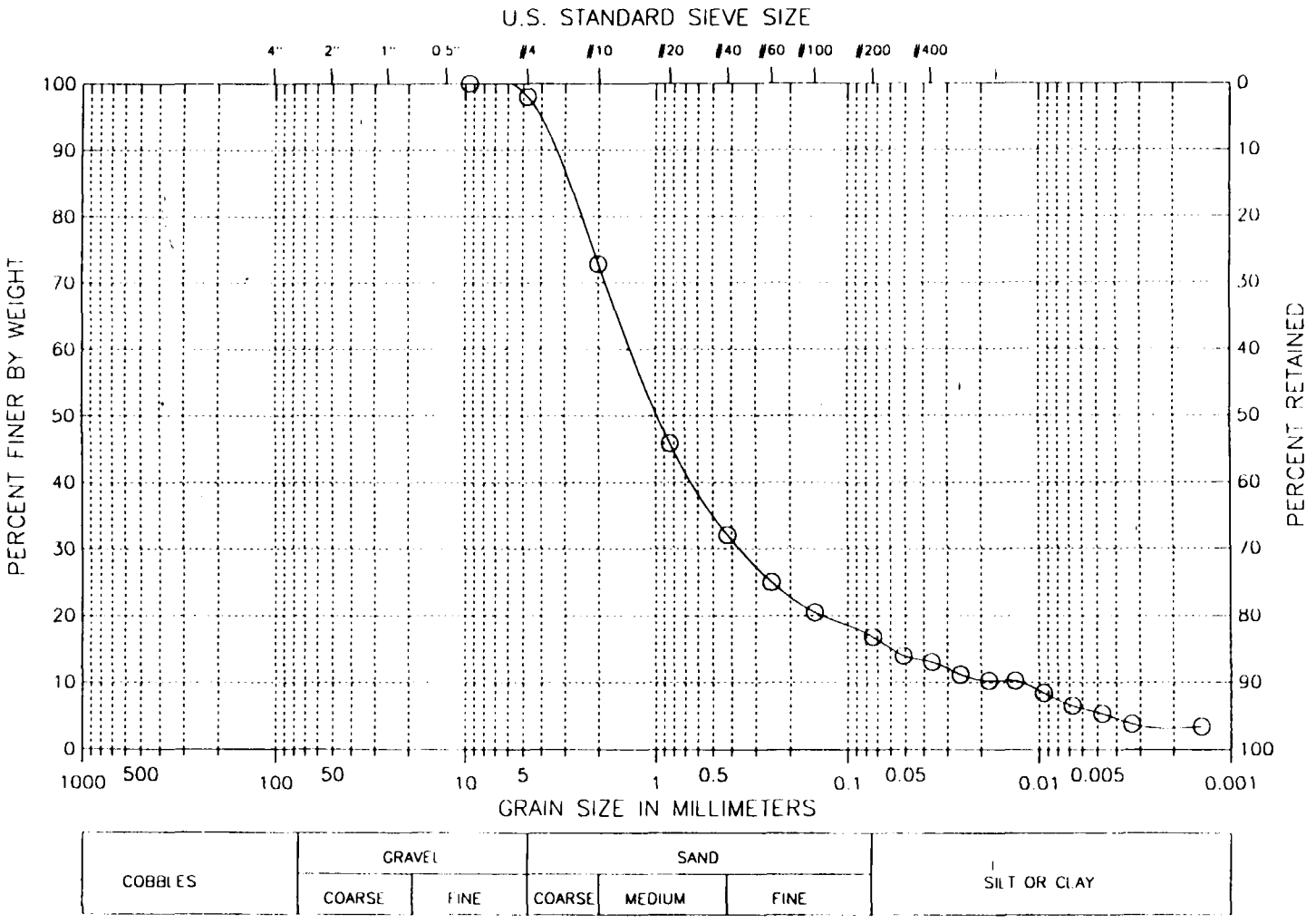
D85 : 2.7730 mm
D60 : 1.3381 mm
D50 : 1.0392 mm
D30 : 0.5422 mm
D15 : 0.1366 mm
D10 : 0.0209 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

CMW-DU-102799A

Boring No. : ---	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00913	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 913	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :

Wet, dark gray silty sand, trace organics

Figure 15

CMW-DV-102799A

Fri Dec 03 14:50:29 1999

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; NO191
Project No. : GTX-2607
Boring No. : ---
Sample No. : 200913
Location : Centerdale, RI
Soil Description : Wet, dark gray silty sand, trace organics
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 913
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 39.19 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (Min)	Reading	Temperature (deg. C	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	11.50	21.00	7.50	0.051	14	0.051
2.00	11.00	21.00	7.00	0.036	13	0.036
4.00	10.00	21.00	6.00	0.026	11	0.026
8.00	9.50	21.00	5.50	0.018	10	0.018
15.00	9.50	21.00	5.50	0.013	10	0.013
30.00	8.50	21.00	4.50	0.009	8	0.009
60.00	7.50	21.00	3.50	0.007	7	0.007
120.00	6.50	22.00	2.86	0.005	5	0.005
244.00	5.50	22.50	2.05	0.003	4	0.003
1378.00	6.00	20.50	1.84	0.001	3	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	1.06	1.06	98
#10	0.079	2.00	13.58	14.64	73
#20	0.033	0.84	14.51	29.15	46
#40	0.017	0.42	7.42	36.57	32
#60	0.010	0.25	3.79	40.36	25
#100	0.006	0.15	2.44	42.80	20
#200	0.003	0.07	1.97	44.77	17
Pan			9.06	53.83	0

Total Dry Weight of Sample = 166.72

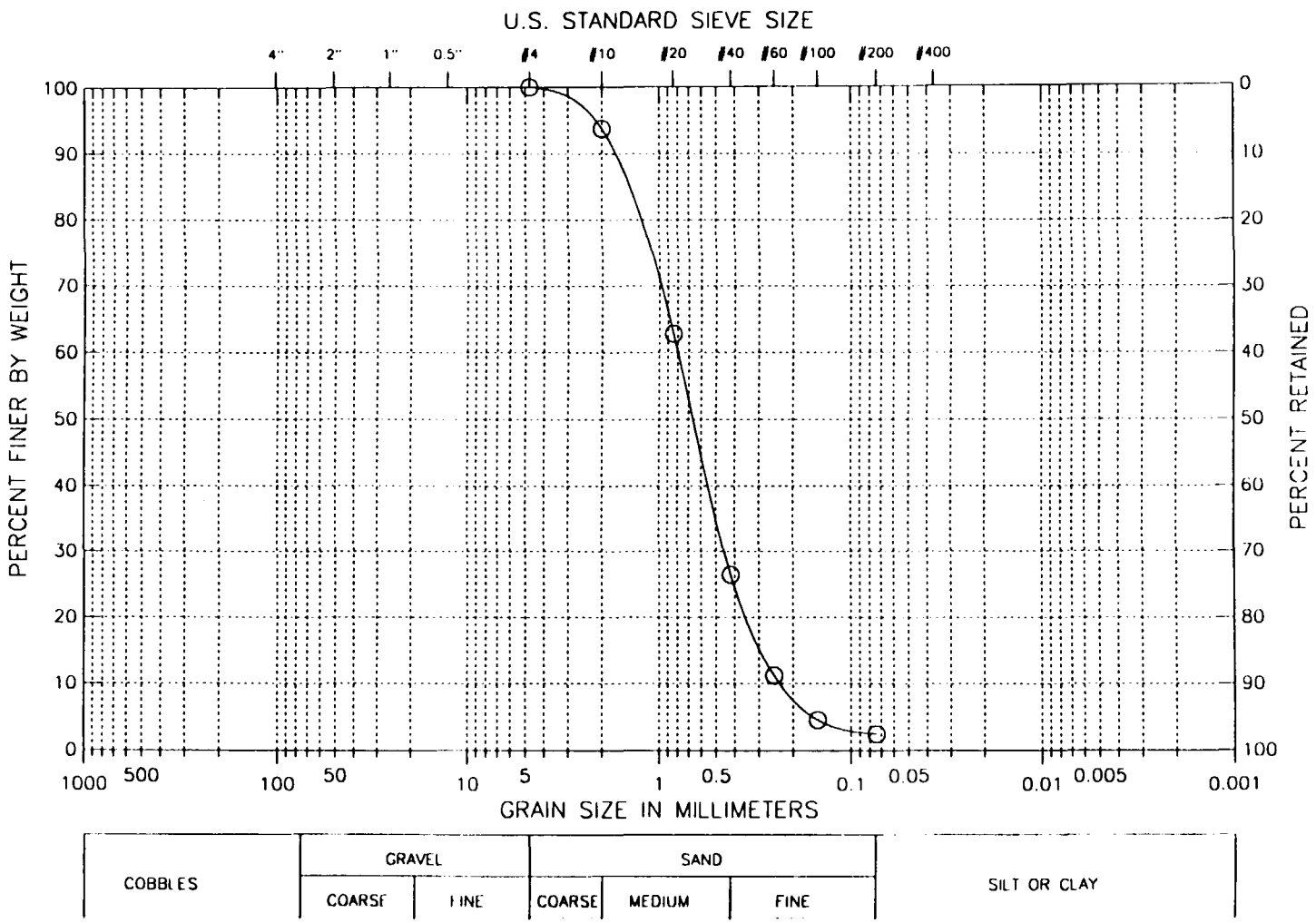
D85 : 3.0384 mm
D60 : 1.3253 mm
D50 : 1.9611 mm
D30 : 0.3607 mm
D15 : 0.0585 mm
D10 : 0.0128 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

Cmw - SD - 2018-01

	Boring No. : - - - - Sample No.: D00907 Test Method ASTM D 422 Filename : 907	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification :
(SP) Poorly graded sand
Visual Description :
Moist, dark brown sand

Remarks :
Hydrometer not required, fines < 10%

Figure 12

CMW-SD-2018-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191 Filename : 907
Project No. : GTX-2607 Depth : --- Elevation : ---
Boring No. : --- Test Date : 11/17/99 Tested by : NJH/MED
Sample No. : D00907 Test Method : ASTM D 422 Checked by : GTT
Location : Centerdale, RI
Soil Description : Moist, dark brown sand
Remarks : Hydrometer not required, fines < 10%

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	2.86	2.86	94
#20	0.033	0.84	14.16	17.02	63
#40	0.017	0.42	16.66	33.68	26
#60	0.010	0.25	6.95	40.63	11
#100	0.006	0.15	3.05	43.68	5
#200	0.003	0.07	0.96	44.64	2
Pan			1.12	45.76	0

Total Dry Weight of Sample = 162.89

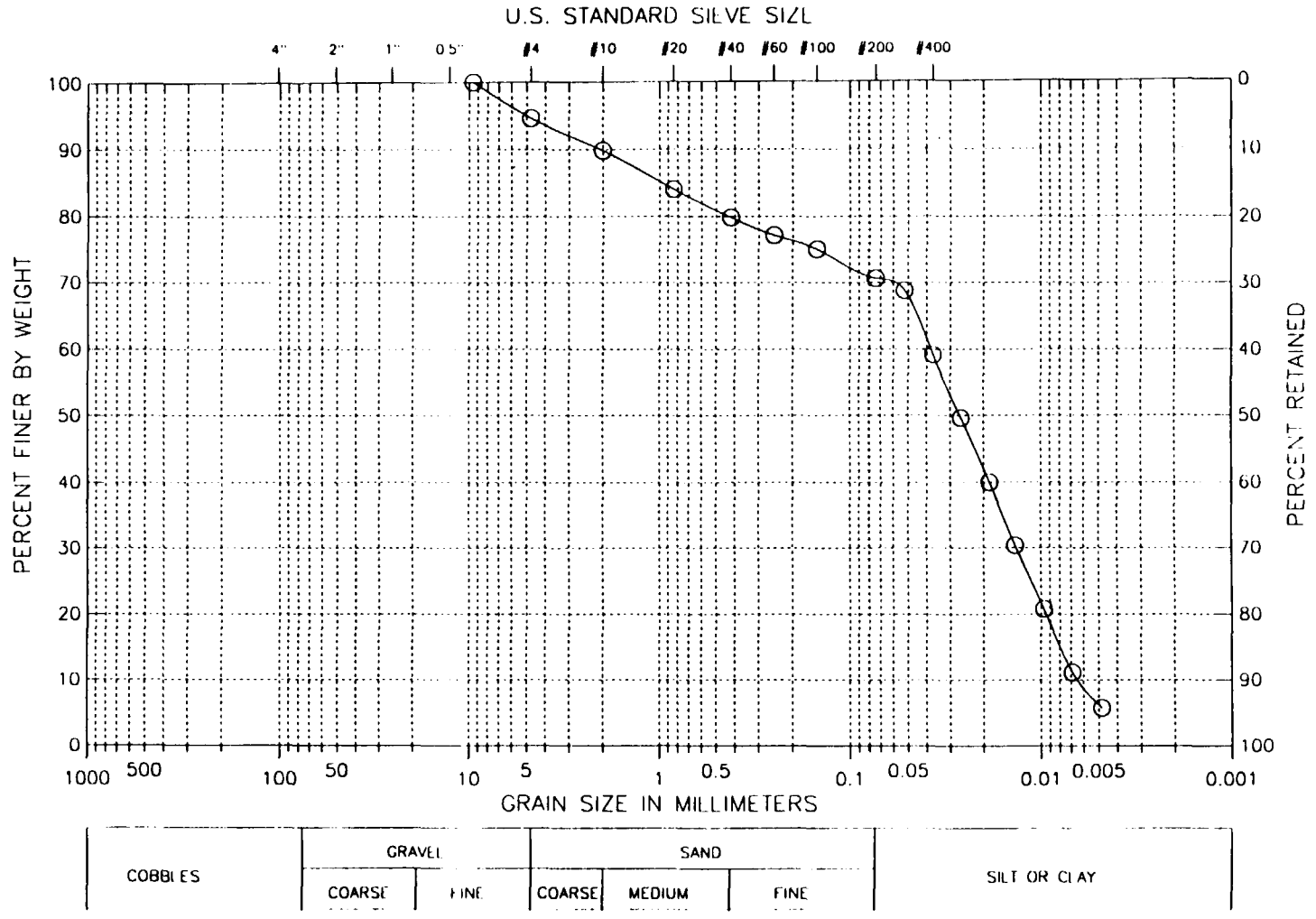
D85 : 1.5655 mm
D60 : 0.7972 mm
D50 : 0.6588 mm
D30 : 0.4499 mm
D15 : 0.2845 mm
D10 : 0.2276 mm

Soil Classification
ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

CMW-SD-2019-01

Boring No. : ---	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00906	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 906	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black sandy silt with organics

Figure 10

US EPA ARCHIVE DOCUMENT

cmw-SD-2019-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00926
Location : Centerdale, RI
Soil Description : Wet, black sandy silt with organics
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 906
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 4.68 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	9.50	20.00	3.58	0.052	69	0.052
2.00	9.00	20.00	3.08	0.037	59	0.037
4.00	8.50	20.00	2.58	0.026	50	0.026
8.00	8.00	20.00	2.08	0.019	40	0.019
15.00	7.50	20.00	1.58	0.014	30	0.014
30.00	7.00	20.00	1.08	0.010	21	0.010
60.00	6.50	20.00	0.58	0.007	11	0.007
120.00	5.50	21.00	0.30	0.005	6	0.005

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Sieve Openings Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.28	0.28	95
#10	0.079	2.00	0.25	0.53	90
#20	0.033	0.84	0.30	0.83	84
#40	0.017	0.42	0.22	1.05	80
#60	0.010	0.25	0.14	1.19	77
#100	0.006	0.15	0.11	1.30	75
#200	0.003	0.07	0.23	1.53	71
Pan			3.68	5.21	0

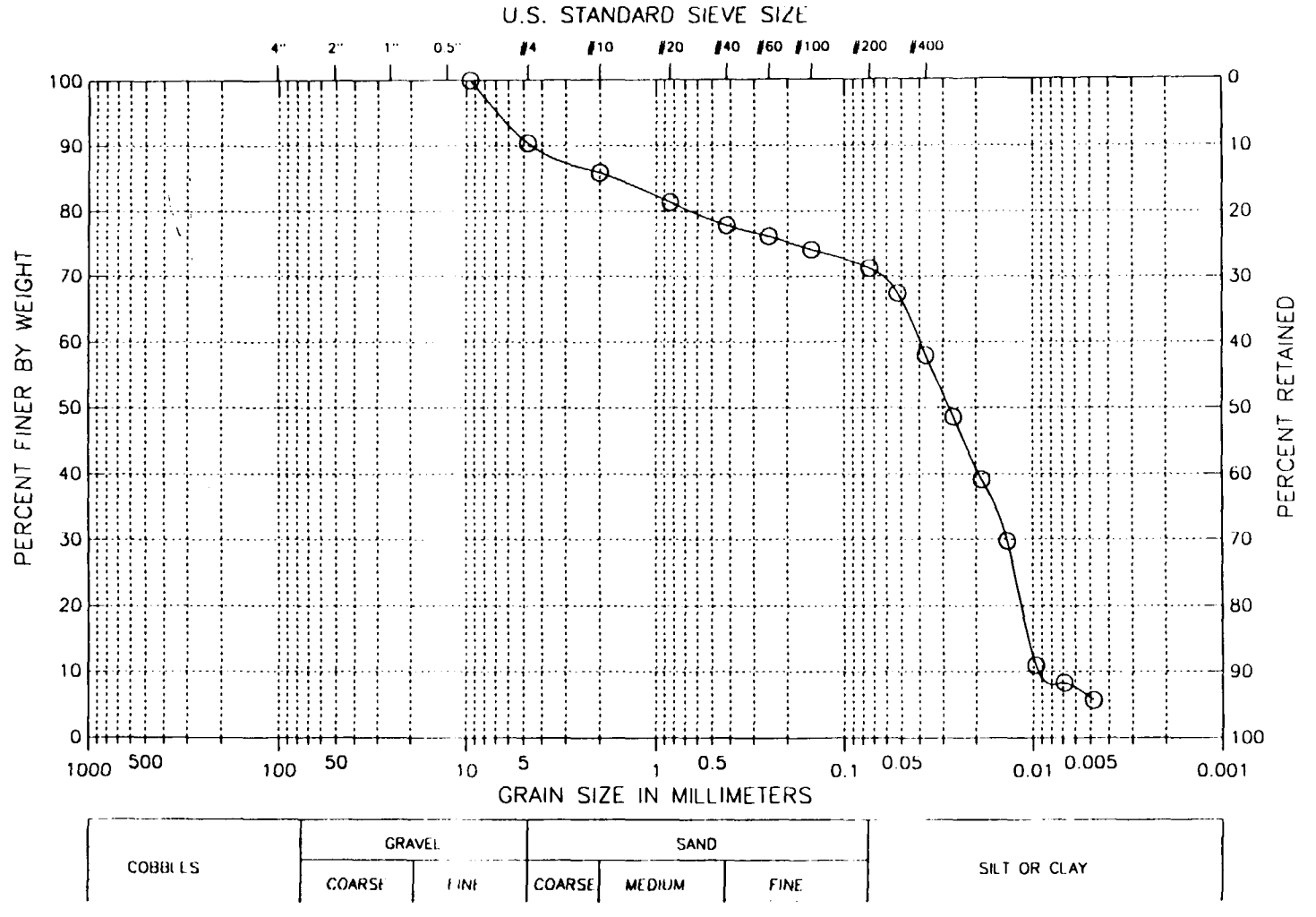
Total Dry Weight of Sample = 126.12

D85 : 0.9674 mm
D60 : 0.0382 mm
D50 : 0.0267 mm
D30 : 0.0135 mm
D15 : 0.0079 mm
D10 : 0.0064 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

CMW-SD-2019-01

Boring No. : ----	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00906 - DUP	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 906DUP	Date : Fri Dec 03 1999



Classification :

Remarks :
DUPLICATE ANALYSIS

Visual Description :
Wet, black sandy silt with organics

Figure 11

CMW-SD-2019-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191 Filename : 906DUP
Project No. : GTX-2607 Depth : --- Elevation : ---
Boring No. : --- Test Date : 11/17/99 Tested by : NJH/MED
Sample No. : 200906 - DUP Test Method : ASTM D 422 Checked by : GTT
Location : Centerdale, RI
Soil Description : Wet, black sandy silt with organics
Remarks : DUPLICATE ANALYSIS

HYDROMETER

Hydrometer ID : 67130
Weight of air-dried soil = 4.57 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	9.50	20.00	3.58	0.052	67	0.052
2.00	9.00	20.00	3.08	0.037	58	0.037
4.00	8.50	20.00	2.58	0.026	49	0.026
8.00	8.00	20.00	2.08	0.019	39	0.019
15.00	7.50	20.00	1.58	0.014	30	0.014
30.00	6.50	20.00	0.58	0.010	11	0.010
60.00	6.00	20.50	0.44	0.007	8	0.007
120.00	5.50	21.00	0.30	0.005	6	0.005

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.51	0.51	90
#10	0.079	2.00	0.24	0.75	86
#20	0.033	0.84	0.24	0.99	81
#40	0.017	0.42	0.19	1.18	78
#60	0.010	0.25	0.09	1.27	76
#100	0.006	0.15	0.11	1.38	74
#200	0.003	0.07	0.15	1.53	71
Pan			3.79	5.32	0

Total Dry Weight of Sample = 125.53

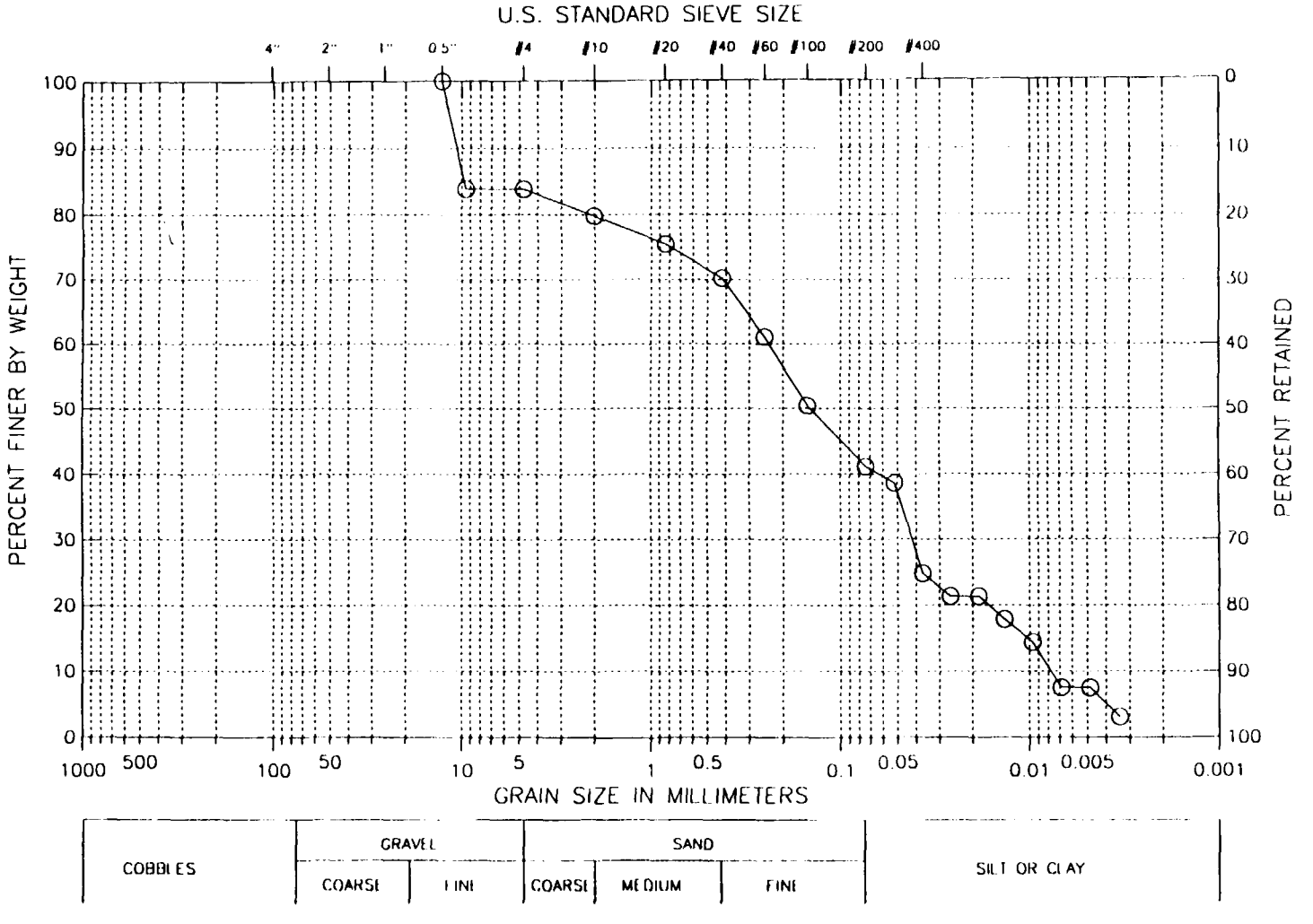
D85 : 1.6818 mm
D60 : 0.0400 mm
D50 : 0.0278 mm
D30 : 0.0138 mm
D15 : 0.0105 mm
D10 : 0.0086 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

CMW-SD-2020-01

Boring No. : - - -	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00904	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 904	Date : Fri Dec 03 1999



Classification :

Remarks

Visual Description :
Wet, black silty sand with organics

Figure 9

US EPA ARCHIVE DOCUMENT

CMW-SD-2020-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : 000904
Location : Centerdale, RI
Soil Description : Wet, black silty sand with organics
Remarks : ---

Filename : 904
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 11.54 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	11.50	20.00	5.58	0.052	39	0.052
2.00	9.50	20.00	3.58	0.037	25	0.037
4.00	9.00	20.00	3.08	0.026	21	0.026
8.00	9.00	20.00	3.08	0.019	21	0.019
15.00	8.50	20.00	2.58	0.014	18	0.014
30.00	8.00	20.00	2.08	0.010	14	0.010
60.00	7.00	20.00	1.08	0.007	7	0.007
120.00	7.00	20.00	1.08	0.005	7	0.005
245.00	6.00	20.50	0.44	0.003	3	0.003

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	2.33	2.33	84
#4	0.187	4.75	0.00	2.33	84
#10	0.079	2.00	0.59	2.92	80
#20	0.033	0.84	0.63	3.55	75
#40	0.017	0.42	0.76	4.31	70
#60	0.010	0.25	1.32	5.63	61
#100	0.006	0.15	1.54	7.17	50
#200	0.003	0.07	1.34	8.51	41
Pan			5.95	14.46	0

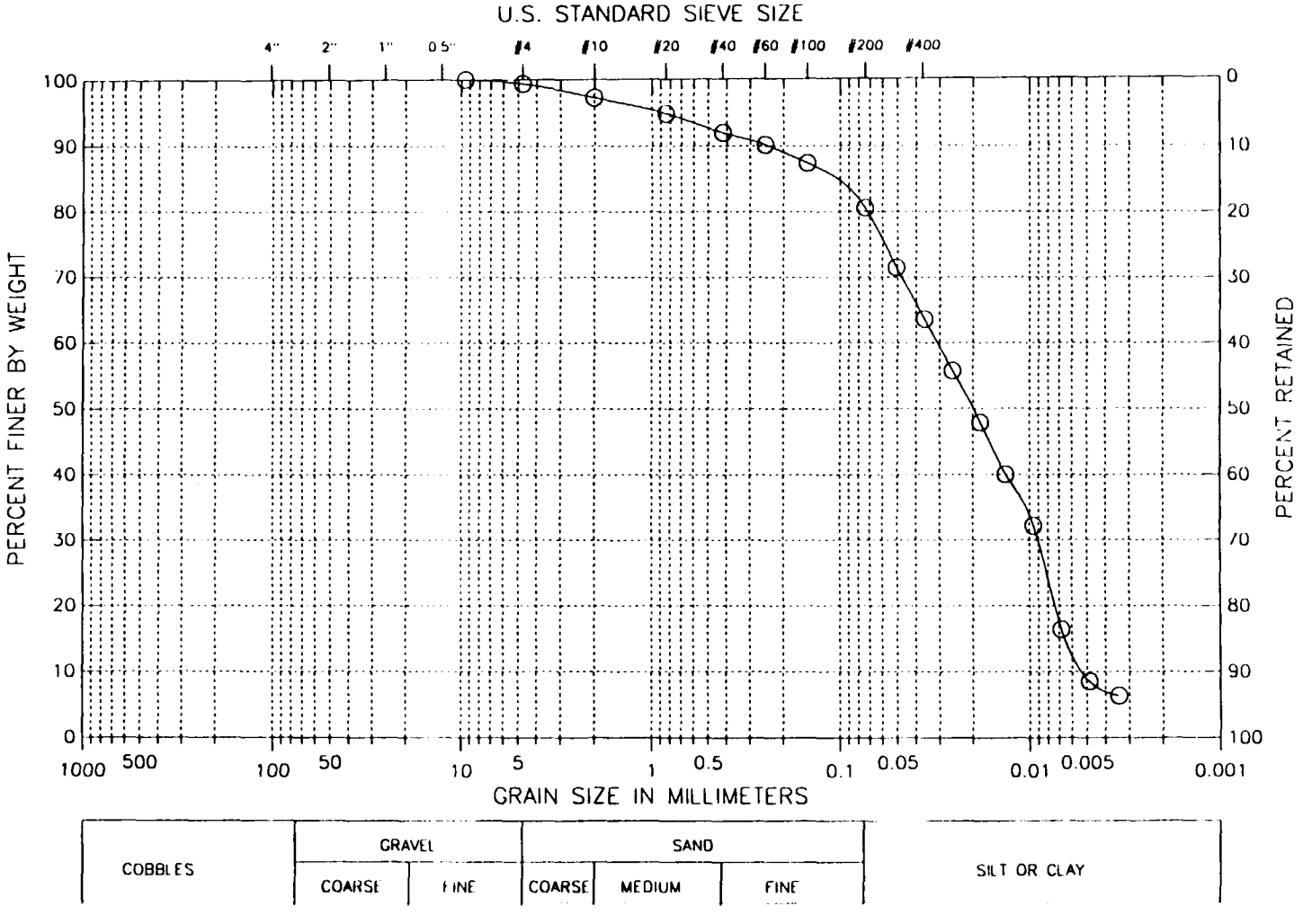
Total Dry Weight of Sample = 136.25

D85 : 9.7020 mm
D60 : 0.2374 mm
D50 : 0.1444 mm
D30 : 0.0420 mm
D15 : 0.0102 mm
D10 : 0.0078 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

CMW-SD-2021-01

Boring No. : - - -	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00902	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 902	Date : Fri Dec 03 1999



Classification

Remarks

Visual Description :
Wet, black silt with sand and organics

Figure 8

CMW-SD-2021-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00902
Location : Centerdale, RI
Soil Description : Wet, black silt with sand and organics
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 902
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 12.37 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature deg. C	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	20.00	9.08	0.051	71	0.051
2.00	14.00	20.00	8.08	0.036	64	0.036
4.00	13.00	20.00	7.08	0.026	56	0.026
8.00	12.00	20.00	6.08	0.018	48	0.018
15.00	11.00	20.00	5.08	0.013	40	0.013
30.00	10.00	20.00	4.08	0.010	32	0.010
60.00	8.00	20.00	2.08	0.007	16	0.007
120.00	7.00	20.00	1.08	0.005	9	0.005
240.00	6.00	21.00	0.80	0.003	6	0.003

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.08	0.08	99
#10	0.079	2.00	0.27	0.35	97
#20	0.033	0.84	0.31	0.66	95
#40	0.017	0.42	0.36	1.02	92
#60	0.010	0.25	0.23	1.25	90
#100	0.006	0.15	0.35	1.60	87
#200	0.003	0.07	0.87	2.47	81
Pan			10.25	12.72	0

Total Dry Weight of Sample = 129.89

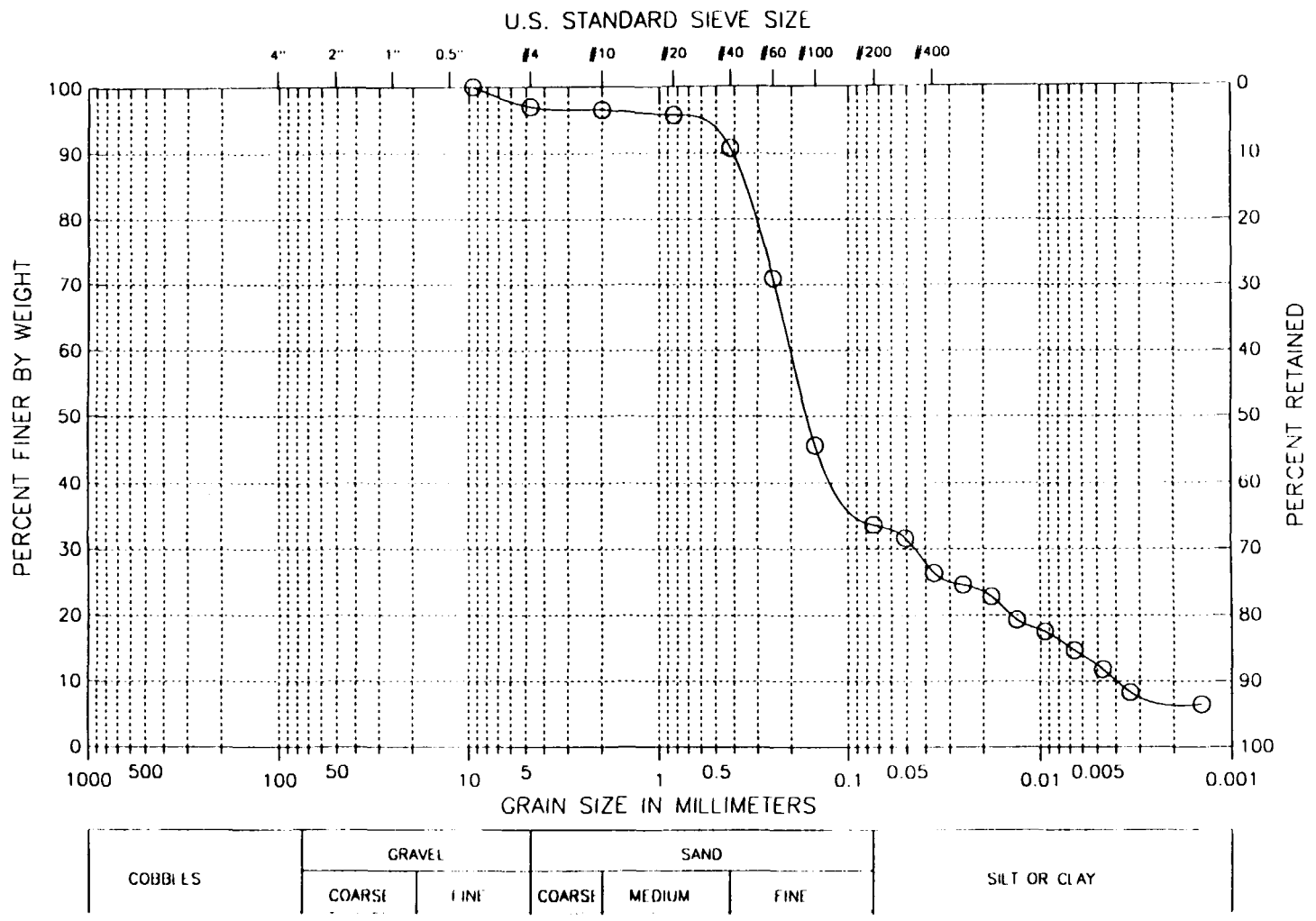
D85 : 0.1163 mm
D60 : 0.0309 mm
D50 : 0.0200 mm
D30 : 0.0091 mm
D15 : 0.0064 mm
D10 : 0.0052 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

CMW-SD-2023-01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00914	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 914	Date : Fri Dec 03 1999



Classification :

Remarks :
strong odor

Visual Description :
Wet, very dark gray sandy silt, trace organics

Figure 16

CMW-SD-2023-C1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191 Filename : 914
Project No. : GTX-2607 Depth : --- Elevation : ---
Boring No. : --- Test Date : 11/17/99 Tested by : NJH/MED
Sample No. : D00914 Test Method : ASTM D 422 Checked by : GTT
Location : Centerdale, RI
Soil Description : Wet, very dark gray sandy silt, trace organics
Remarks : strong odor

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 27.52 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	13.00	21.00	9.00	0.051	32	0.051
2.00	11.50	21.00	7.50	0.036	26	0.036
4.00	11.00	21.00	7.00	0.026	25	0.026
8.00	10.50	21.00	6.50	0.018	23	0.018
15.00	9.50	21.00	5.50	0.013	19	0.013
30.00	9.00	21.00	5.00	0.009	18	0.009
61.00	8.00	21.50	4.18	0.007	15	0.007
122.00	7.00	22.00	3.36	0.005	12	0.005
240.00	6.00	22.00	2.36	0.003	8	0.003
1369.00	6.00	20.50	1.84	0.001	6	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.85	0.85	97
#10	0.079	2.00	0.14	0.99	97
#20	0.033	0.84	0.23	1.22	96
#40	0.017	0.42	1.40	2.62	91
#60	0.010	0.25	5.67	8.29	71
#100	0.006	0.15	7.23	15.52	46
#200	0.003	0.07	3.41	18.93	34
Pan			9.58	28.51	0

Total Dry Weight of Sample = 159.69

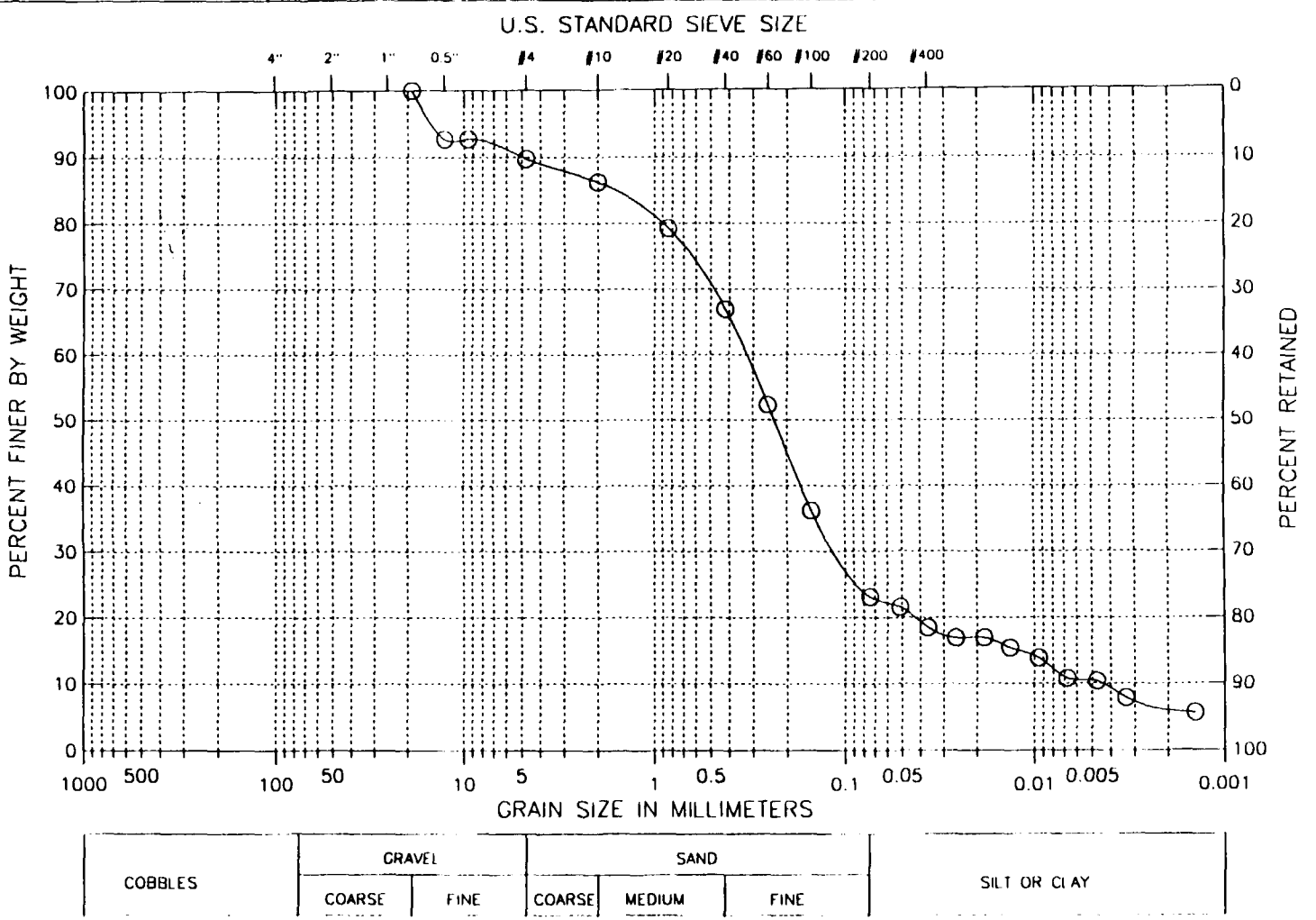
D85 : 0.3609 mm
D60 : 0.2000 mm
D50 : 0.1631 mm
D30 : 0.0457 mm
D15 : 0.0069 mm
D10 : 0.0040 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

US EPA ARCHIVE DOCUMENT

CMW-SD-2024-01

Boring No. : ----	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00918	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 918	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black silty sand with organics

Figure 17

CMW-SD-2024-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00918
Location : Centerdale, RI
Soil Description : Wet, black silty sand with organics
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 918
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 187525
Weight of air-dried soil = 28.05 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	11.00	21.00	7.00	0.051	22	0.051
2.00	10.00	21.00	6.00	0.036	18	0.036
4.00	9.50	21.00	5.50	0.026	17	0.026
8.00	9.50	21.00	5.50	0.018	17	0.018
15.00	9.00	21.00	5.00	0.013	15	0.013
30.00	8.50	21.00	4.50	0.009	14	0.009
60.00	7.50	21.00	3.50	0.007	11	0.007
120.00	7.00	22.00	3.36	0.005	10	0.005
242.00	6.00	22.50	2.55	0.003	8	0.003
1360.00	6.00	20.50	1.84	0.001	6	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	2.36	2.36	93
0.375"	0.374	9.51	0.00	2.36	93
#4	0.187	4.75	0.97	3.33	90
#10	0.079	2.00	1.14	4.47	86
#20	0.033	0.84	2.28	6.75	79
#40	0.017	0.42	4.01	10.76	67
#60	0.010	0.25	4.74	15.50	52
#100	0.006	0.15	5.25	20.75	36
#200	0.003	0.07	4.26	25.01	23
Pan			7.51	32.52	0

Total Dry Weight of Sample = 152.13

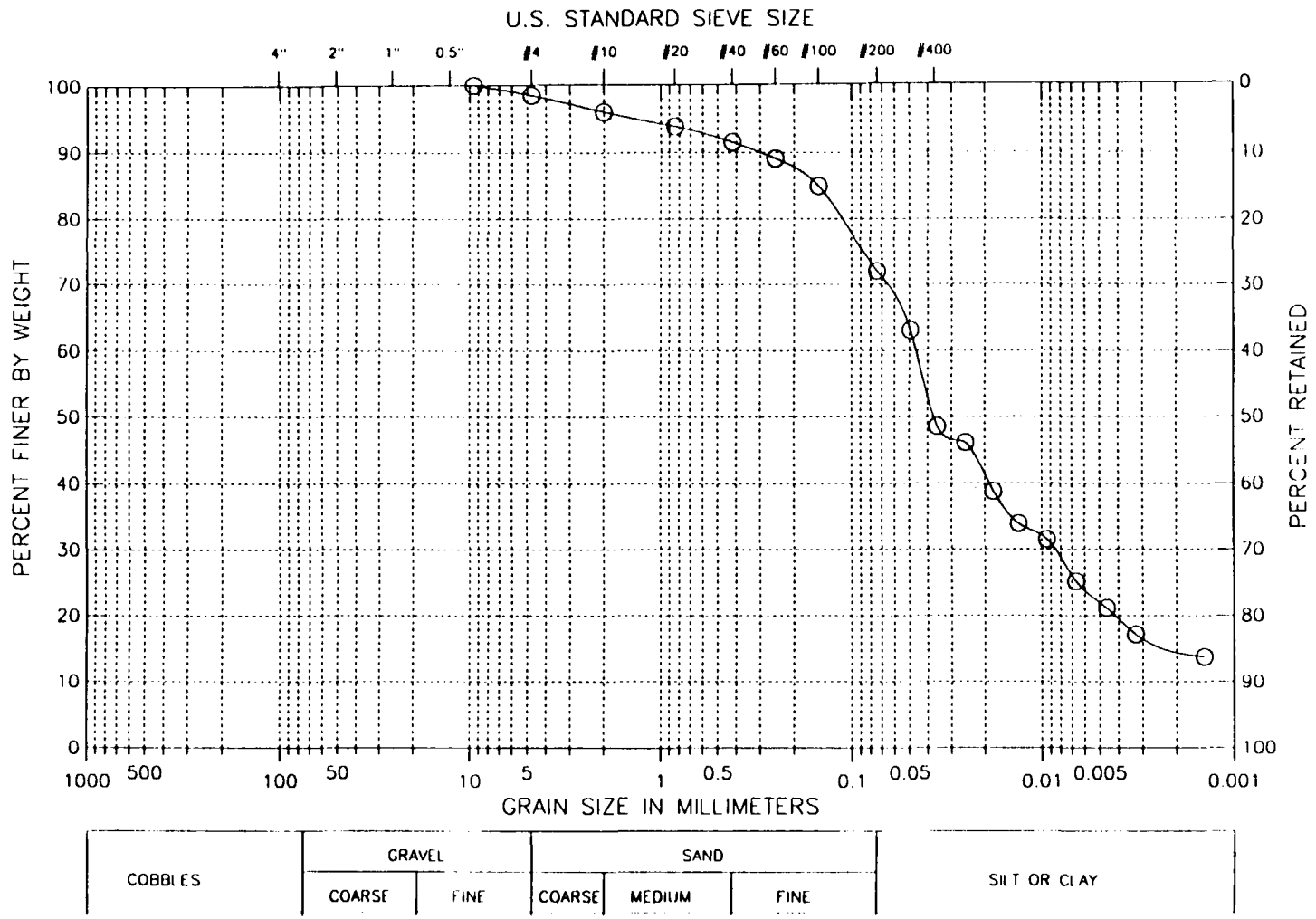
D85 : 1.7128 mm
D60 : 0.3284 mm
D50 : 0.2320 mm
D30 : 0.1070 mm
D15 : 0.0123 mm
D10 : 0.0045 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

US EPA ARCHIVE DOCUMENT

CMW-SD-2025-000.5-01

Boring No. : ---	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00924	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 924	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black sandy organic silt

Figure 18

CMTW-SD-2025-0005-5

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; RI0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00924
Location : Centerdale, RI
Soil Description : Wet, black sandy organic silt
Remarks : ---

Filename : 924
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 19.82 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	17.00	21.00	13.00	0.050	63	0.050
2.00	14.00	21.00	10.00	0.036	49	0.036
4.00	13.50	21.00	9.50	0.025	46	0.025
8.00	12.00	21.00	8.00	0.018	39	0.018
15.00	11.00	21.00	7.00	0.013	34	0.013
30.00	10.50	21.00	6.50	0.009	32	0.009
60.00	9.00	21.50	5.18	0.007	25	0.007
125.00	8.00	22.00	4.36	0.005	21	0.005
249.00	7.00	22.50	3.55	0.003	17	0.003
1351.00	7.00	20.50	2.84	0.001	14	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.31	0.31	98
#10	0.079	2.00	0.51	0.82	96
#20	0.033	0.84	0.45	1.27	94
#40	0.017	0.42	0.48	1.75	92
#60	0.010	0.25	0.50	2.25	89
#100	0.006	0.15	0.85	3.10	85
#200	0.003	0.07	2.68	5.78	72
Pan			14.86	20.64	0

Total Dry Weight of Sample = 128.05

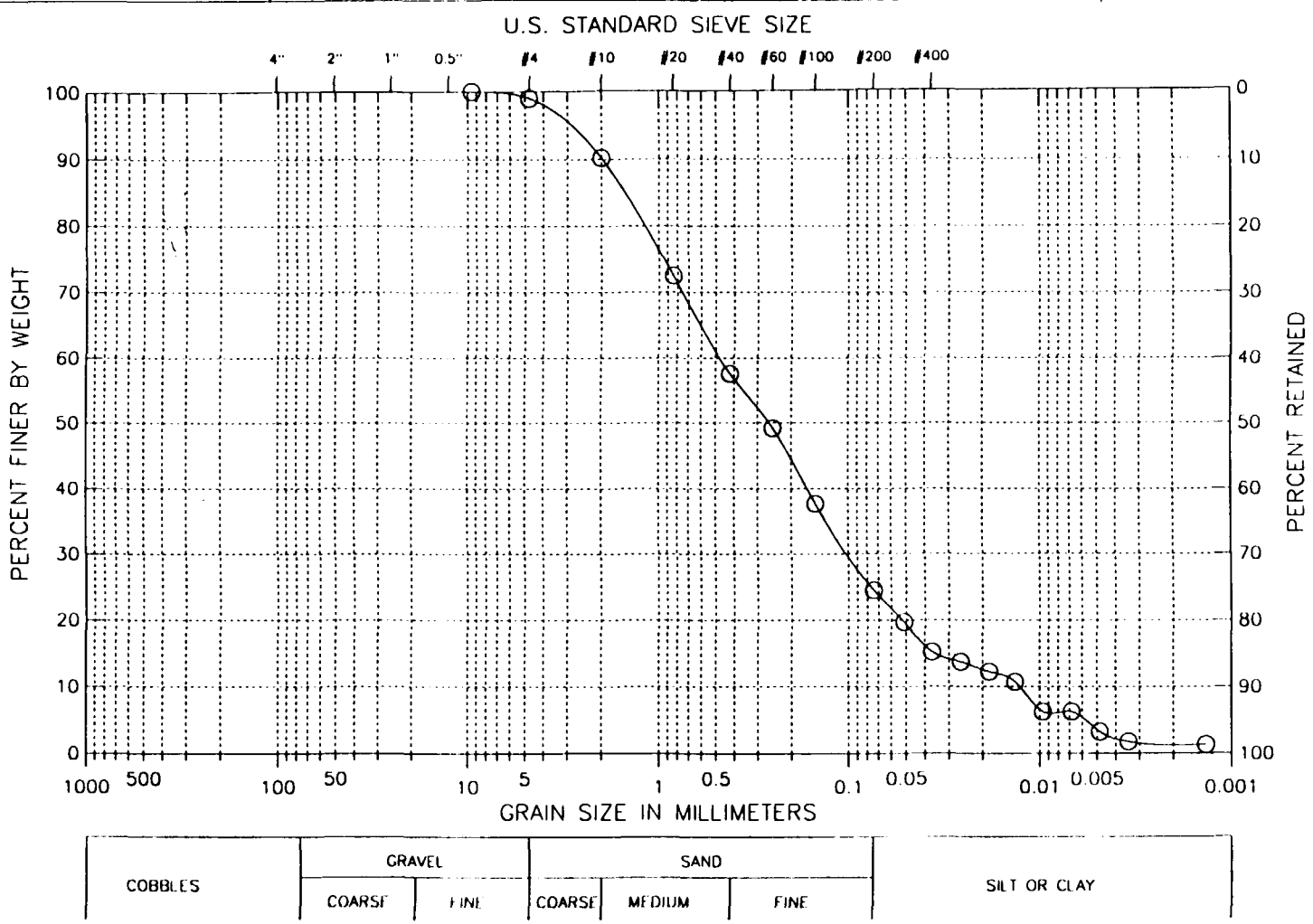
D85 : 0.1494 mm
D60 : 0.0462 mm
D50 : 0.0369 mm
D30 : 0.0086 mm
D15 : 0.0019 mm
D10 : 0.0006 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

APB-SD-2029-000.5-01

Boring No. : - - -	Project : Tetra Tech NUS; Centerdale; NO191
Sample No.: D00947	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 947	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Moist, black silty sand

Figure 25

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

APB-SD-2029-000.5-01

Fri Dec 03 14:50:19 1999 Page

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2617
Boring No. : ---
Sample No. : D0094T
Location : Centerdale, RI
Soil Description : Moist, black silty sand
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 947
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 07130
Weight of air-dried soil = 30.2 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.50	20.00	6.58	0.051	20	0.051
2.00	11.00	20.00	5.08	0.037	15	0.037
4.00	10.50	20.00	4.58	0.026	14	0.026
8.00	10.00	20.00	4.08	0.018	12	0.018
15.00	9.50	20.00	3.58	0.014	11	0.014
30.00	8.00	20.00	2.08	0.010	6	0.010
60.00	8.00	20.00	2.08	0.007	6	0.007
120.00	7.00	20.00	1.08	0.005	3	0.005
240.00	6.50	20.00	0.58	0.003	2	0.003
1526.00	6.00	20.50	0.44	0.001	1	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.34	0.34	99
#10	0.079	2.00	2.93	3.27	90
#20	0.033	0.84	5.94	9.21	72
#40	0.017	0.42	4.98	14.19	58
#60	0.010	0.25	2.81	17.00	49
#100	0.006	0.15	3.86	20.86	38
#200	0.003	0.07	4.42	25.28	24
Pan			8.19	33.47	0

Total Dry Weight of Sample = 152.85

D85 : 1.5494 mm
D60 : 0.4697 mm
D50 : 0.2625 mm
D30 : 0.0992 mm
D15 : 0.0351 mm
D10 : 0.0128 mm

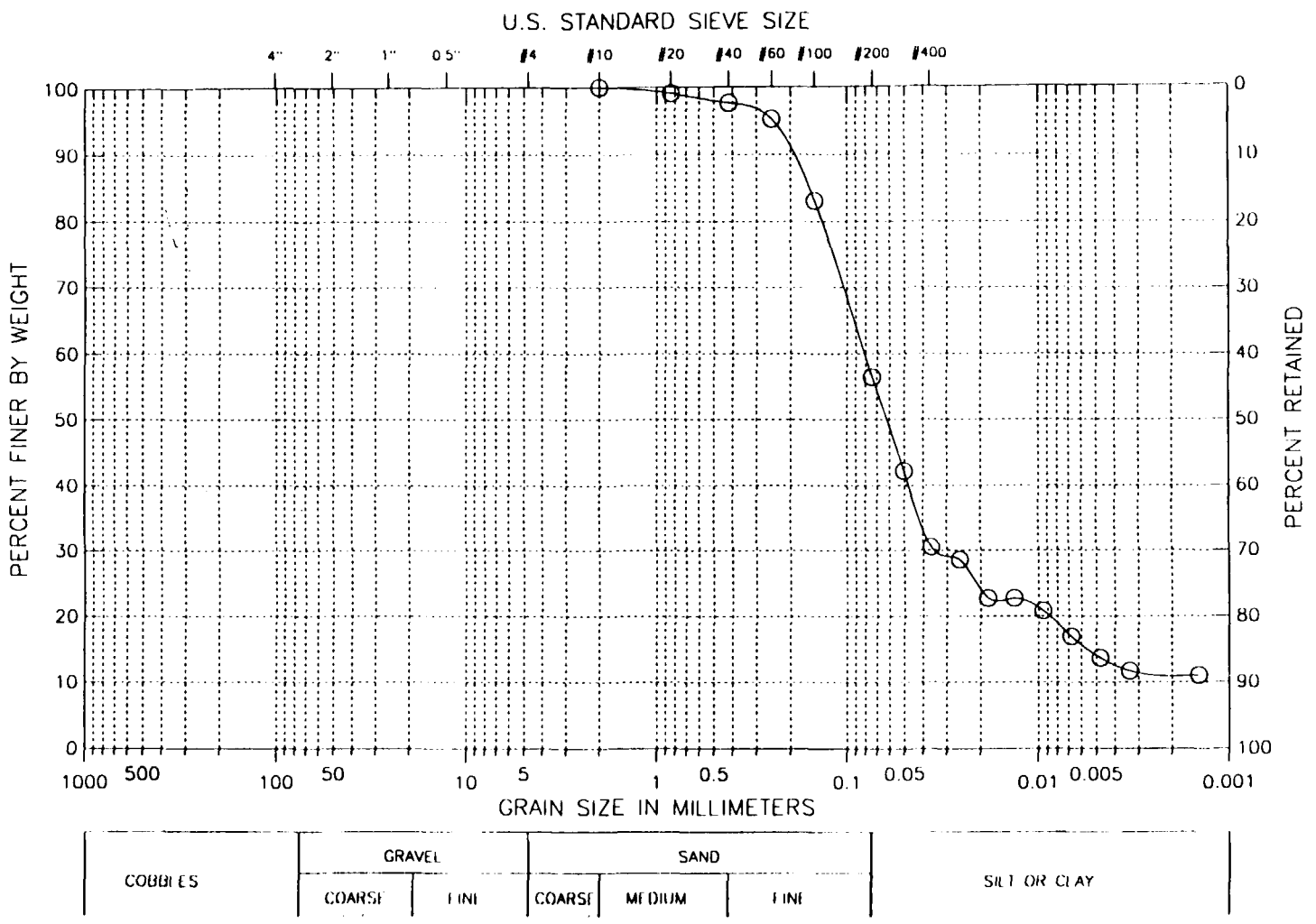
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

US EPA ARCHIVE DOCUMENT

APB-SD-2030-01

Boring No. : ---
Sample No.: D00881
Test Method ASTM D 422
Filename : 881

Project : Tetra Tech NUS; Centerdale; N0191
Project No.: GTX-2607
Location: Centerdale, RI
Date : Fri Dec 03 1999



Classification

Remarks

Visual Description :

Moist, very dark brown sandy silt with organics

Figure 1

APB-SD-2030-01

Fri Dec 03 14:50:03 1999 Page 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00891
Location : Centerdale, RI
Soil Description : Moist, very dark brown sandy silt with organics
Remarks : ---

Filename : 891
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 25.73 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	20.50	10.84	0.050	42	0.050
2.00	12.00	20.50	7.84	0.036	31	0.036
4.00	11.50	20.50	7.34	0.026	29	0.026
8.00	10.00	20.50	5.84	0.018	23	0.018
15.00	10.00	20.50	5.84	0.013	23	0.013
30.00	9.50	20.50	5.34	0.010	21	0.010
60.00	8.50	20.50	4.34	0.007	17	0.007
120.00	7.50	21.00	3.50	0.005	14	0.005
246.00	7.00	21.00	3.00	0.003	12	0.003
1335.00	7.00	20.50	2.84	0.001	11	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#10	0.079	2.00	0.00	0.00	100
#20	0.033	0.84	0.24	0.24	99
#40	0.017	0.42	0.37	0.61	98
#60	0.010	0.25	0.62	1.23	95
#100	0.006	0.15	3.12	4.35	83
#200	0.003	0.07	6.87	11.22	56
Pan			14.55	25.77	0

Total Dry Weight of Sample = 146.03

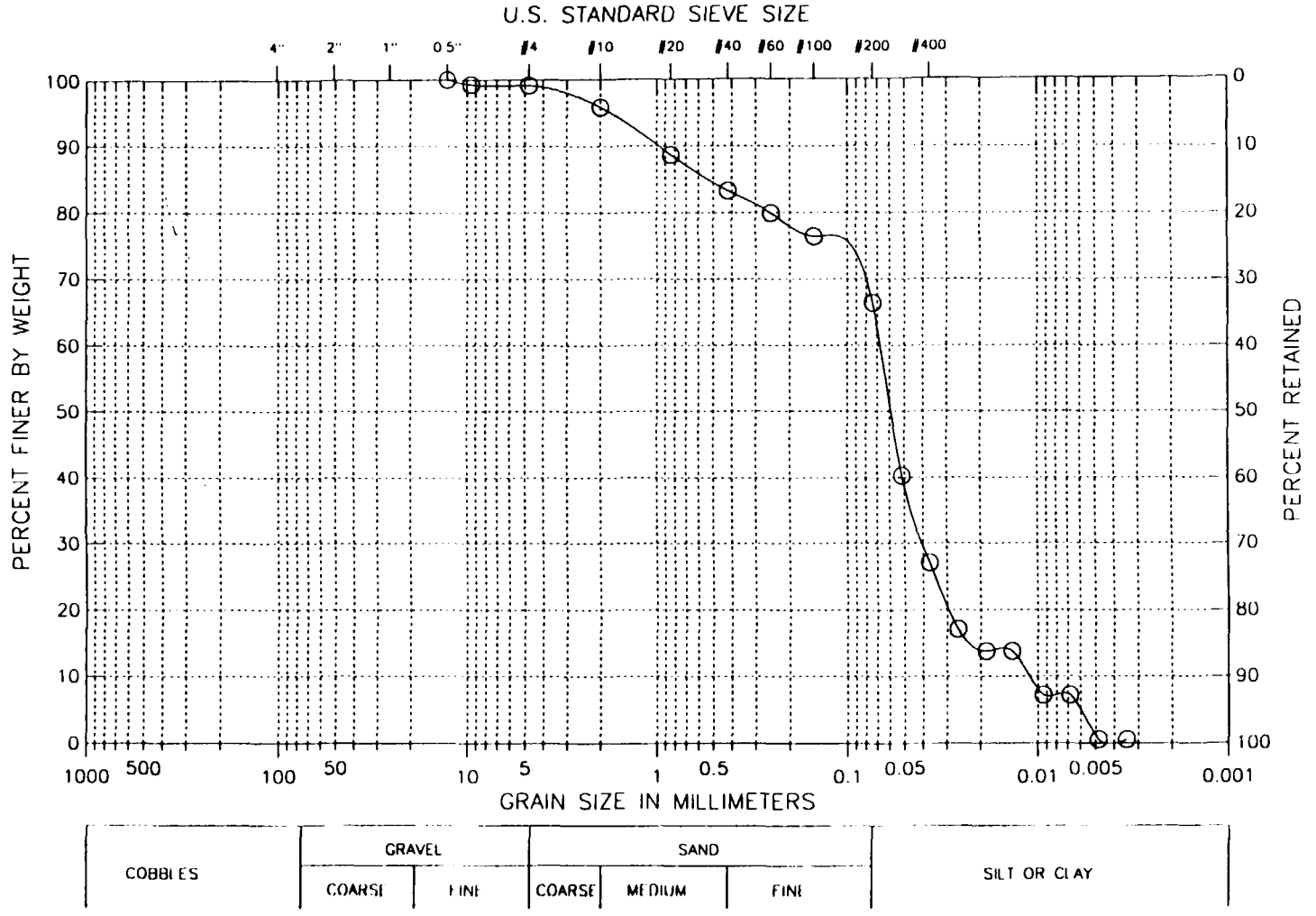
D85 : 0.1615 mm
D60 : 0.0812 mm
D50 : 0.0622 mm
D30 : 0.0332 mm
D15 : 0.0055 mm
D10 : 0.0003 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

APB-SD-2034-01

	Boring No. : - - -	Project : Tetra Tech NUS; Centerdale; N0191
	Sample No.: D00981	Project No.: GTX-2607
	Test Method ASTM D 422	Location: Centerdale, RI
	Filename : 981	Date : Fri Dec 03 1999



Classification

Remarks

Visual Description :
Wet, very dark gray sandy organic silt

Figure 35

US EPA ARCHIVE DOCUMENT

APB-SD-2034-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : S005#1
Location : Centerdale, RI
Soil Description : Wet, very dark gray sandy organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 981
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 67130
Weight of air-dried soil = 14.48 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.00	20.00	6.08	0.052	40	0.052
2.00	10.00	20.00	4.08	0.037	27	0.037
4.00	8.50	20.00	2.58	0.026	17	0.026
8.00	8.00	20.00	2.08	0.019	14	0.019
15.00	8.00	20.00	2.08	0.014	14	0.014
32.00	7.00	20.00	1.08	0.009	7	0.009
61.00	7.00	20.00	1.08	0.007	7	0.007
122.00	6.00	20.00	0.08	0.005	1	0.005
240.00	6.00	20.00	0.08	0.003	1	0.003

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	0.11	0.11	99
#4	0.187	4.75	0.02	0.13	99
#10	0.079	2.00	0.50	0.63	96
#20	0.033	0.84	1.08	1.71	89
#40	0.017	0.42	0.81	2.52	83
#60	0.010	0.25	0.51	3.03	80
#100	0.006	0.15	0.53	3.56	76
#200	0.003	0.07	1.52	5.08	66
Pan			10.03	15.11	0

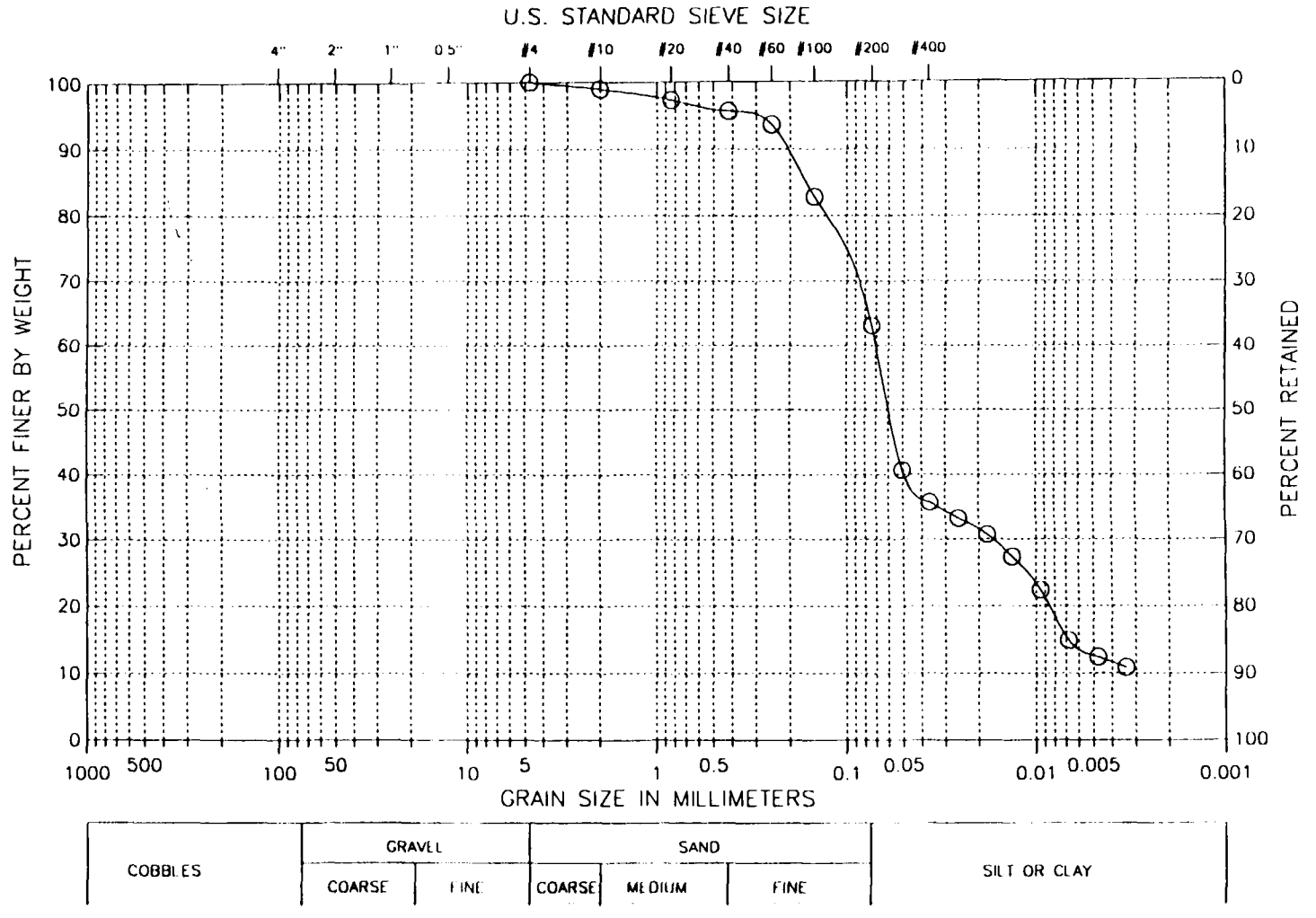
Total Dry Weight of Sample = 135.16

D85 : 0.5219 mm
D60 : 0.0678 mm
D50 : 0.0590 mm
D30 : 0.0398 mm
D15 : 0.0212 mm
D10 : 0.0110 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

APC-SD-2035-000.5-01

	Boring No. : - - - Sample No.: D00983 Test Method ASTM D 422 Filename : 983	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification :

Remarks

Visual Description :
Wet, black sandy organic silt

Figure 37

APC-SD-2035-000.5-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00983
Location : Centerdale, RI
Soil Description : Wet, black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 983
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 19.94 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.00	21.50	8.18	0.051	41	0.051
2.00	11.00	21.50	7.18	0.036	36	0.036
4.00	10.50	21.50	6.68	0.026	33	0.026
8.00	10.00	21.50	6.18	0.018	31	0.018
15.00	9.50	21.00	5.50	0.013	27	0.013
30.00	8.50	21.00	4.50	0.009	22	0.009
60.00	7.00	21.00	3.00	0.007	15	0.007
123.00	6.50	21.00	2.50	0.005	12	0.005
240.00	6.00	21.50	2.18	0.003	11	0.003

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.20	0.20	99
#20	0.033	0.84	0.32	0.52	97
#40	0.017	0.42	0.32	0.84	96
#60	0.010	0.25	0.38	1.22	94
#100	0.006	0.15	2.06	3.28	83
#200	0.003	0.07	3.79	7.07	63
Pan			12.10	19.17	0

Total Dry Weight of Sample = 137.61

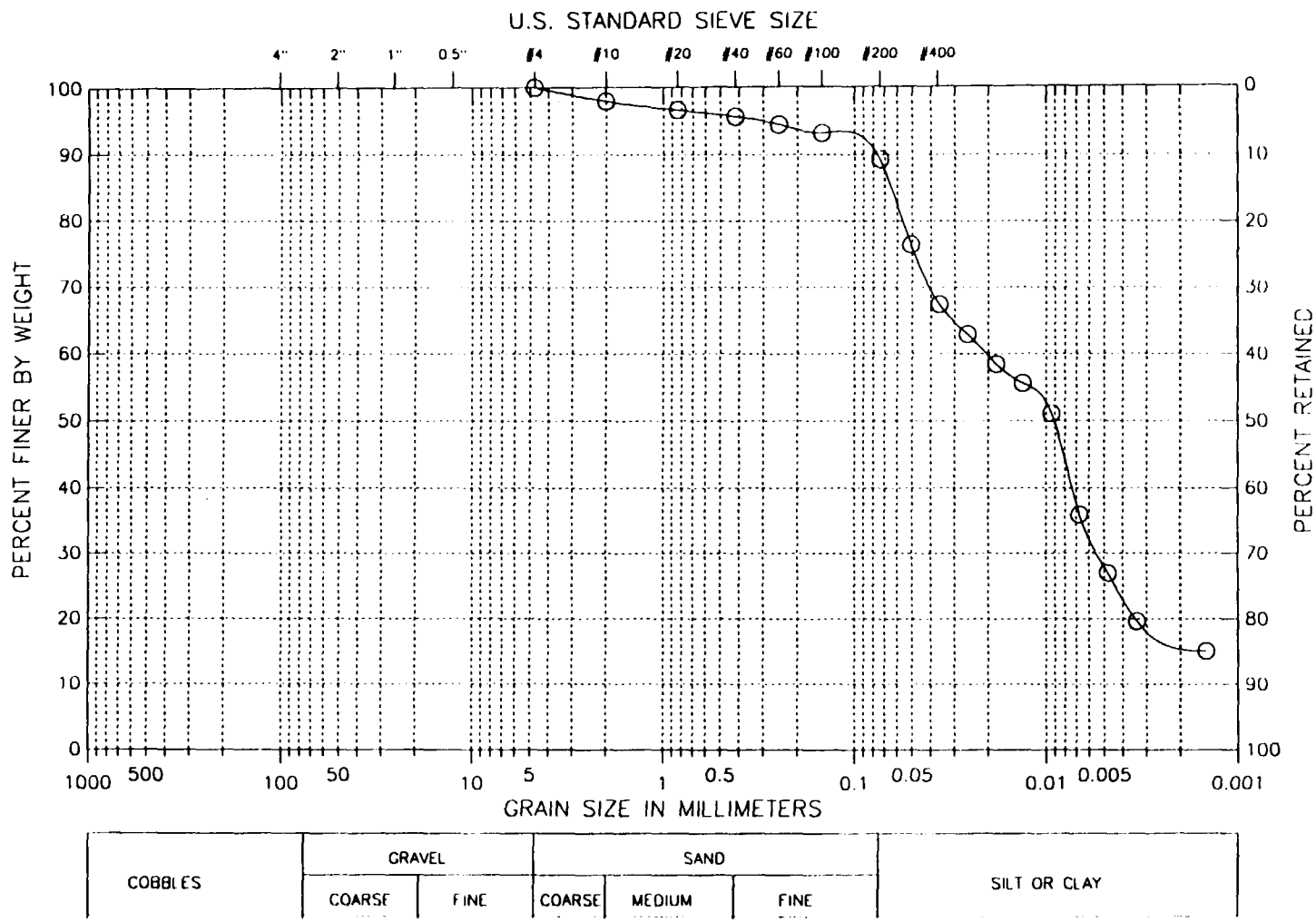
D85 : 0.1649 mm
D60 : 0.0702 mm
D50 : 0.0593 mm
D30 : 0.0170 mm
D15 : 0.0068 mm
D10 : 0.0028 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

APC-DU-110399B

	Boring No. : - Sample No.: D0098/ Test Method ASTM D 422 Filename : 987	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black organic silt

Figure 38

APC-DU-110399B

Fri Dec 03 14:51:13 1999 Page 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : 200887
Location : Centerdale, RI
Soil Description : Wet, black organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 887
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 187525
Weight of air-dried soil = 10.91 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.50	21.00	8.50	0.051	76	0.051
2.00	11.50	21.00	7.50	0.036	67	0.036
4.00	11.00	21.00	7.00	0.026	63	0.026
8.00	10.50	21.00	6.50	0.018	58	0.018
15.00	10.00	21.50	6.18	0.013	56	0.013
30.00	9.50	21.50	5.68	0.009	51	0.009
60.00	8.00	21.00	4.00	0.007	36	0.007
120.00	7.00	21.00	3.00	0.005	27	0.005
240.00	6.00	21.50	2.18	0.003	20	0.003
1318.00	6.00	20.00	1.68	0.001	15	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.23	0.23	98
#20	0.033	0.84	0.15	0.38	97
#40	0.017	0.42	0.11	0.49	96
#60	0.010	0.25	0.13	0.62	94
#100	0.006	0.15	0.14	0.76	93
#200	0.003	0.07	0.43	1.19	89
Pan			9.95	11.14	0

Total Dry Weight of Sample = 133.97

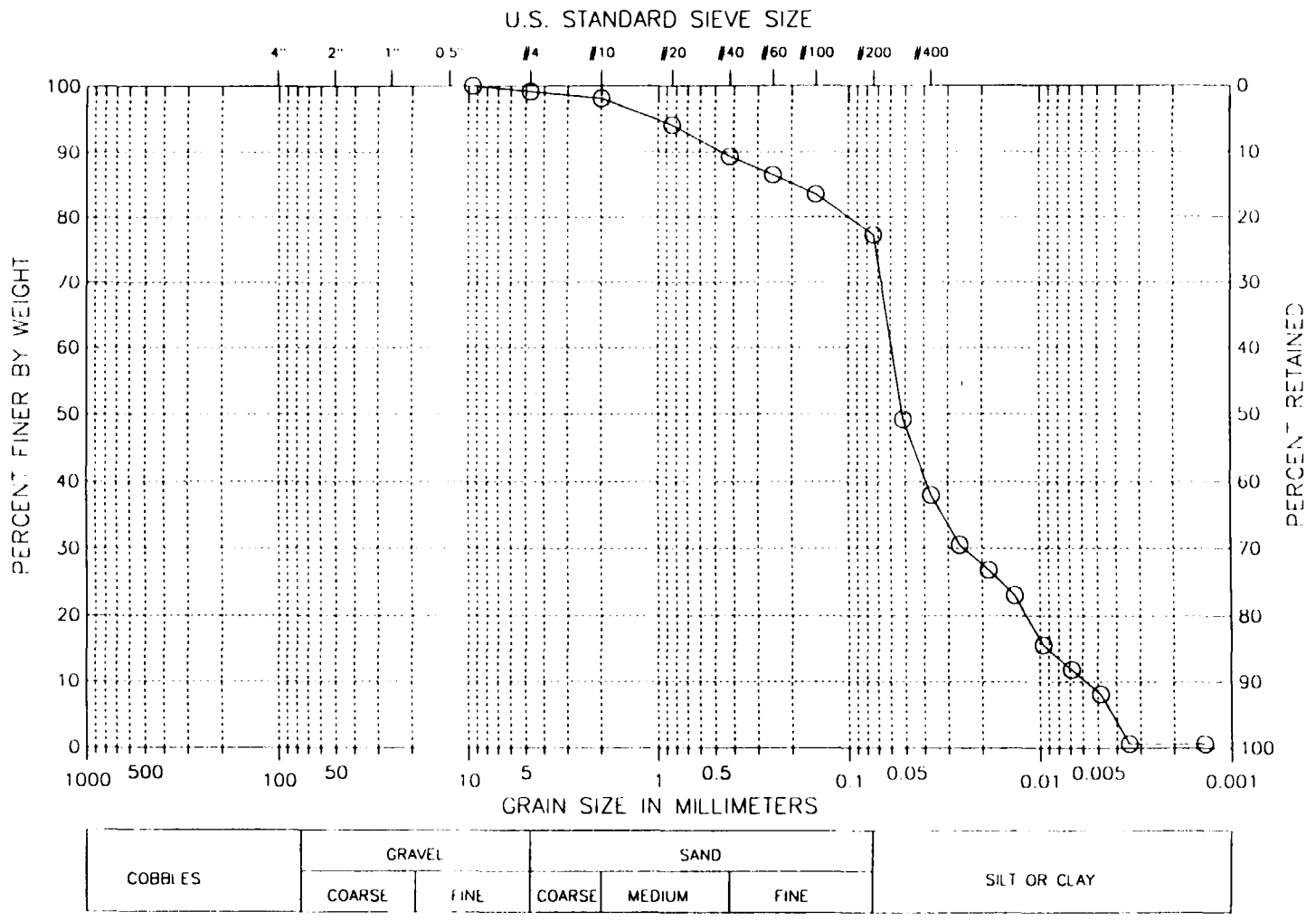
D85 : 0.0653 mm
D60 : 0.0205 mm
D50 : 0.0092 mm
D30 : 0.0054 mm
D15 : N/A
D10 : N/A

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

APC - SD - 2036-01

Boring No. :	Project : Tetra Tech NUS, Centerdale; N0191
Sample No: D00982	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 982	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :

Wet, black sandy organic silt

Figure 36

US EPA ARCHIVE DOCUMENT

APC-SD-2036-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : 200982
Location : Centerdale, RI
Soil Description : Wet, black sandy organic silt
Remarks : ---

Filename : 982
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 13.14 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.50	20.00	6.58	0.051	49	0.051
2.00	11.00	20.00	5.08	0.037	38	0.037
4.00	10.00	20.00	4.08	0.026	31	0.026
8.00	9.50	20.00	3.58	0.019	27	0.019
15.00	9.00	20.00	3.08	0.014	23	0.014
30.00	8.00	20.00	2.08	0.010	16	0.010
60.00	7.50	20.00	1.58	0.007	12	0.007
120.00	7.00	20.00	1.08	0.005	8	0.005
240.00	6.00	20.00	0.08	0.003	1	0.003
1485.00	6.00	20.00	0.08	0.001	1	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.11	0.11	99
#10	0.079	2.00	0.14	0.25	98
#20	0.033	0.84	0.54	0.79	94
#40	0.017	0.42	0.64	1.43	89
#60	0.010	0.25	0.38	1.81	86
#100	0.006	0.15	0.40	2.21	83
#200	0.003	0.07	0.83	3.04	77
Pan			10.35	13.39	0

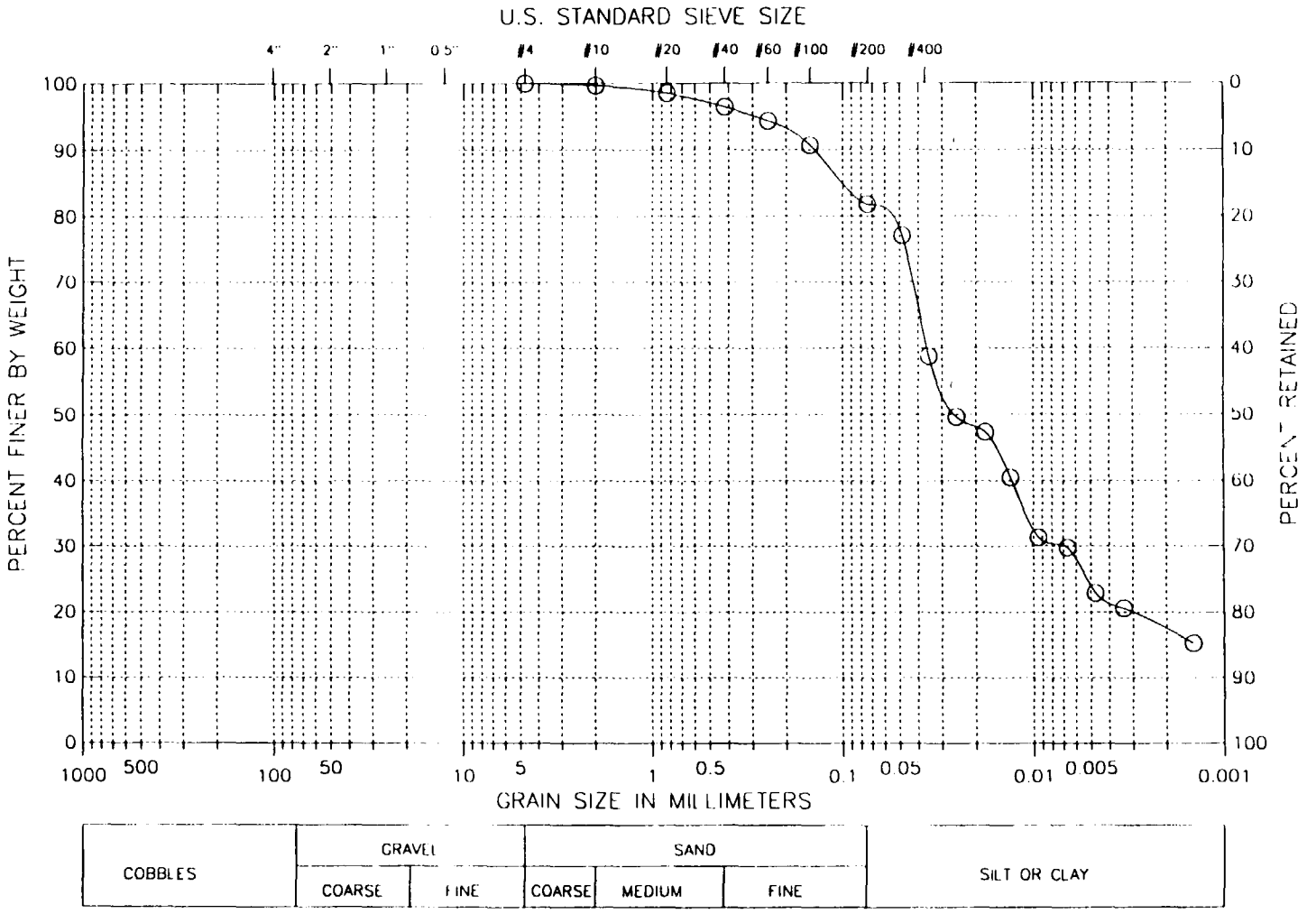
Total Dry Weight of Sample = 138.73

D85 : 0.1934 mm
D60 : 0.0592 mm
D50 : 0.0520 mm
D30 : 0.0249 mm
D15 : 0.0092 mm
D10 : 0.0058 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

APB-SD-2037-01

Boring No. : -	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00882	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 882	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :

Wet, very dark brown silt with sand and organics

Figure 2

US EPA ARCHIVE DOCUMENT

APB-SD-2037-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00882
Location : Centerdale, RI
Soil Description : Wet, very dark brown silt with sand and organics
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 882
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 21.8 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	21.00	20.50	15.84	0.049	77	0.049
2.00	17.00	20.50	12.84	0.035	59	0.035
4.00	15.00	20.50	10.84	0.025	50	0.025
8.00	14.50	20.50	10.34	0.018	47	0.018
15.00	13.00	20.50	8.84	0.013	40	0.013
30.00	11.00	20.50	6.84	0.009	31	0.009
60.00	10.50	21.00	6.50	0.007	30	0.007
120.00	9.00	21.00	5.00	0.005	23	0.005
240.00	8.50	21.00	4.50	0.003	21	0.003
1326.00	7.50	20.50	3.34	0.001	15	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.07	0.07	100
#20	0.033	0.84	0.24	0.31	99
#40	0.017	0.42	0.43	0.74	96
#60	0.010	0.25	0.44	1.18	94
#100	0.006	0.15	0.76	1.94	91
#200	0.003	0.07	1.86	3.80	82
Pan			17.07	20.87	0

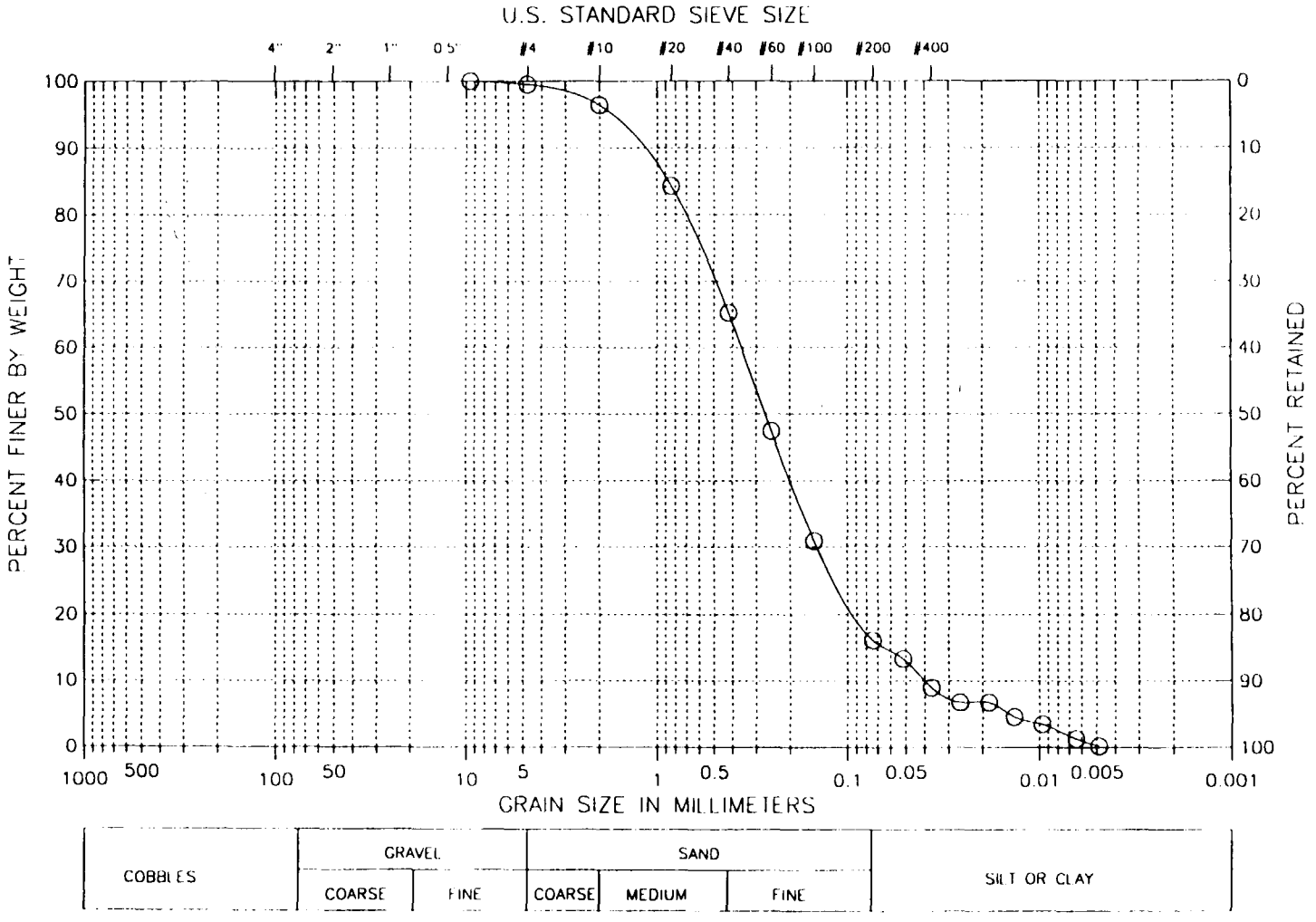
Total Dry Weight of Sample = 144.53

D85 : 0.0952 mm
D60 : 0.0360 mm
D50 : 0.0256 mm
D30 : 0.0070 mm
D15 : N/A
D10 : N/A

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

WRL-SD-2038-01

Boring No : ---	Project : Tetra Tech NUS, Centerdale; N0191
Sample No: D00889	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 889	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Moist, dark brown silty sand

Figure 1

WRL-SD-2038-01

Fri Dec 03 14:50:29 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; 30191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00889
Location : Centerdale, RI
Soil Description : Moist, dark brown silty sand
Remarks : ---

Filename : 889
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 44.06 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.00	20.00	6.08	0.052	13	0.052
2.00	10.00	20.00	4.08	0.037	9	0.037
4.00	9.00	20.00	3.08	0.026	7	0.026
8.00	9.00	20.00	3.08	0.019	7	0.019
15.00	8.00	20.00	2.08	0.014	5	0.014
30.00	7.50	20.00	1.58	0.010	3	0.010
69.00	6.50	20.00	0.58	0.006	1	0.006
120.00	6.00	20.00	0.08	0.005	0	0.005

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.22	0.22	100
#10	0.079	2.00	1.42	1.64	96
#20	0.033	0.84	5.54	7.18	84
#40	0.017	0.42	8.71	15.89	65
#60	0.010	0.25	8.13	24.02	47
#100	0.006	0.15	7.57	31.59	31
#200	0.003	0.07	6.74	38.33	16
Pan			7.37	45.70	0

Total Dry Weight of Sample = 159.91

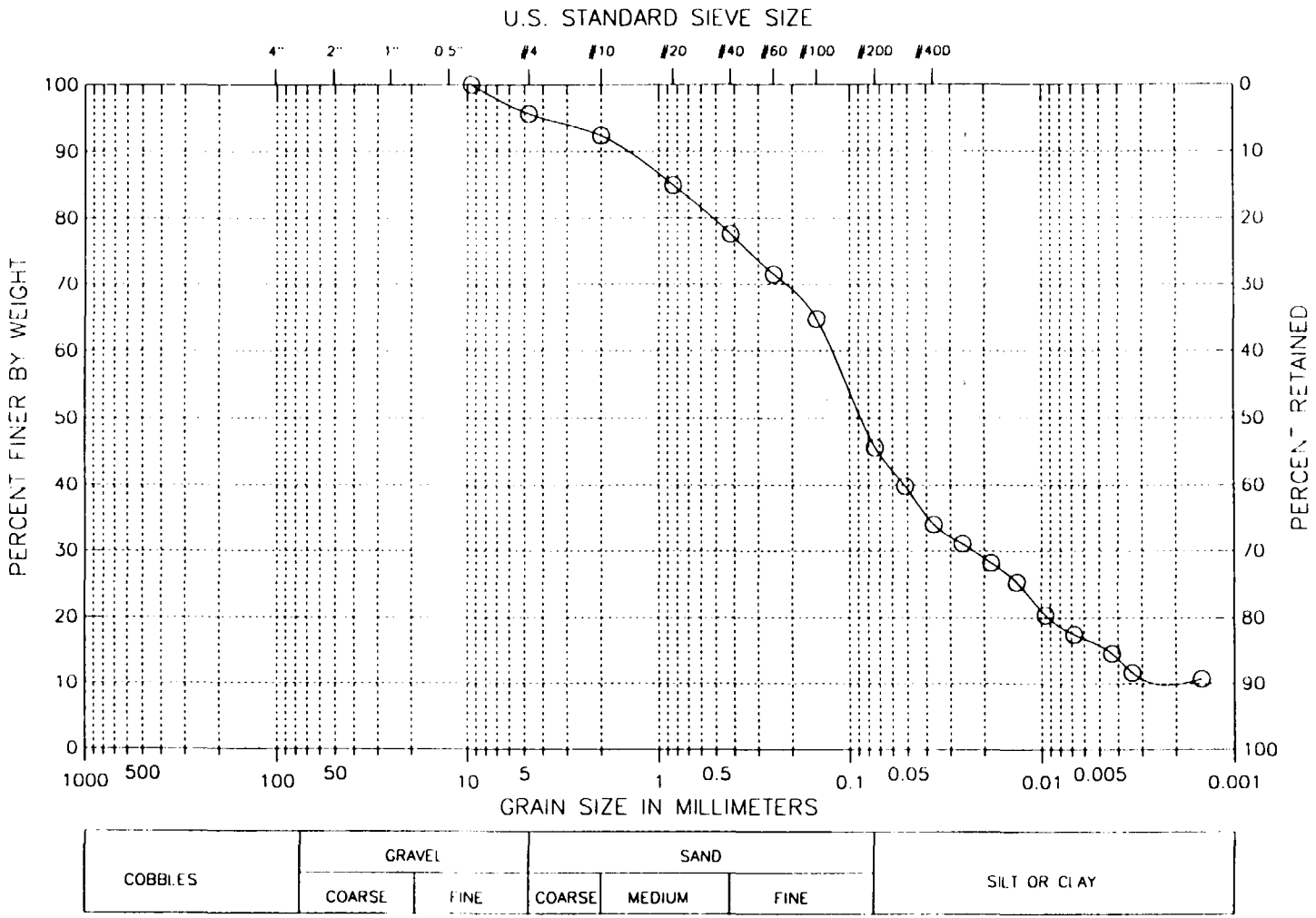
D85 : 0.8848 mm
D60 : 0.3606 mm
D50 : 0.2694 mm
D30 : 0.1429 mm
D15 : 0.0640 mm
D10 : 0.0401 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

US EPA ARCHIVE DOCUMENT

WRL - SD - 2039 - 01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00888	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 888	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black silty sand with organics

Figure 6

WRL - SD - 2039 - 01

US EPA ARCHIVE DOCUMENT

WRL-SD-2039-01

Fri Dec 03 14:50:29 1999

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00888
Location : Centerdale, RI
Soil Description : Wet, black silty sand with organics
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 888
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 15.88 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	11.00	20.50	6.84	0.052	40	0.052
2.00	10.00	20.50	5.84	0.037	34	0.037
4.00	9.50	20.50	5.34	0.026	31	0.026
8.00	9.00	20.50	4.84	0.018	28	0.018
15.00	8.50	20.50	4.34	0.014	25	0.014
30.00	7.50	21.00	3.50	0.010	20	0.010
60.00	7.00	21.00	3.00	0.007	17	0.007
149.00	6.50	21.00	2.50	0.004	15	0.004
243.00	6.00	21.00	2.00	0.003	12	0.003
1290.00	6.00	20.50	1.84	0.001	11	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.75	0.75	96
#10	0.079	2.00	0.56	1.31	92
#20	0.033	0.84	1.28	2.59	85
#40	0.017	0.42	1.26	3.85	78
#60	0.010	0.25	1.05	4.90	71
#100	0.006	0.15	1.16	6.06	65
#200	0.003	0.07	3.29	9.35	46
Pan			7.84	17.19	0

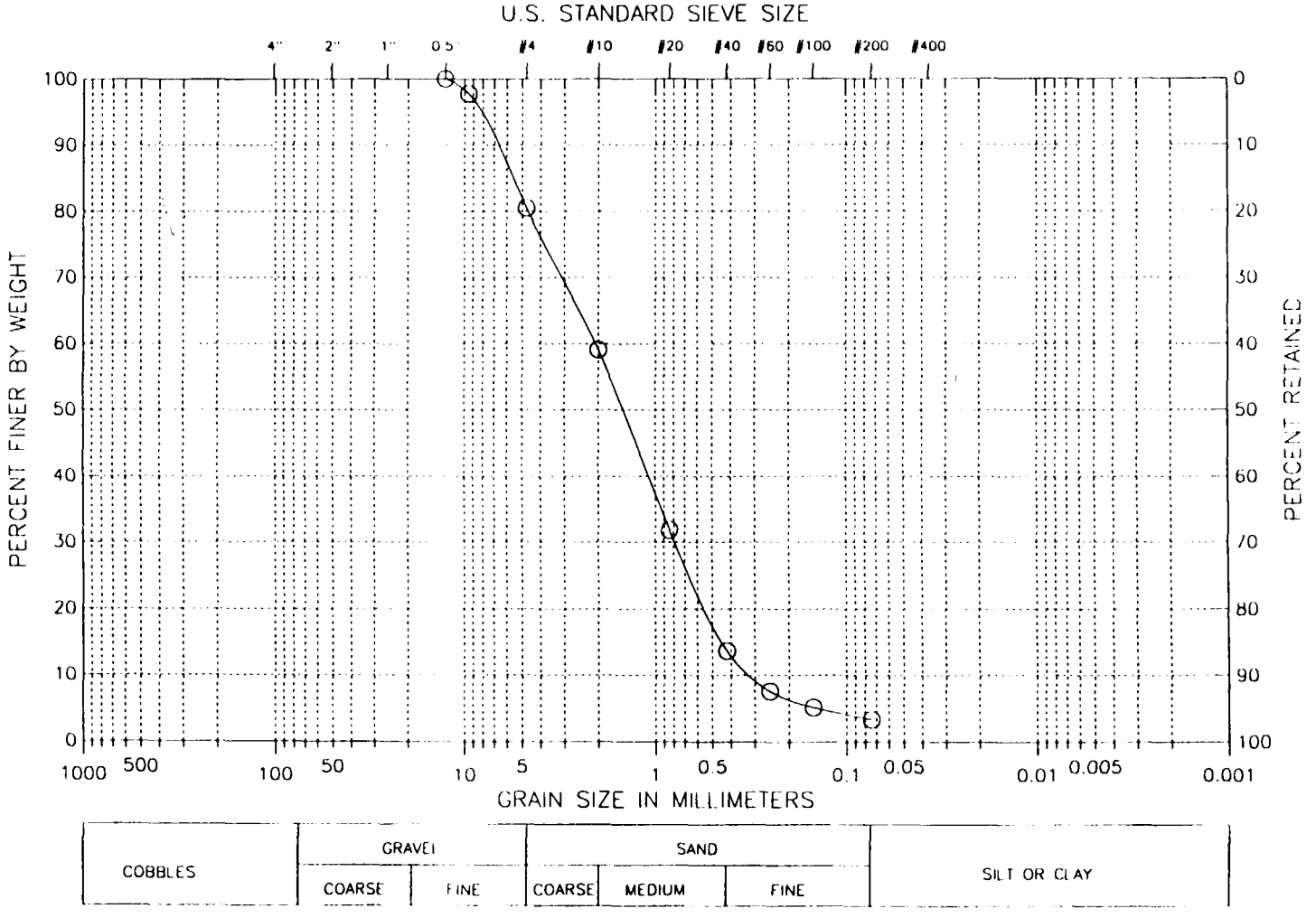
Total Dry Weight of Sample = 134.24

D85 : 0.8476 mm
D60 : 0.1253 mm
D50 : 0.0869 mm
D30 : 0.0228 mm
D15 : 0.0046 mm
D10 : 0.0008 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

WRL-SD-2040-01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00885	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 885	Date : Fri Dec 03 1999



Classification :
(SP) Poorly graded sand with gravel
Visual Description :
Moist, dark yellowish brown sand with some gravel

Remarks :
Hydrometer not required, fines < 10%

Figure 3

WRL-SD-2040-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale, RI191 Filename : 885
Project No. : GTX-2607 Depth : ---
Boring No. : --- Test Date : 11/17/99 Elevation : ---
Sample No. : 000885 Test Method : ASTM D 422 Tested by : NJH/MED
Location : Centerdale, RI Checked by : GTT
Soil Description : Moist, dark yellowish brown sand with some gravel
Remarks : Hydrometer not required, fines < 10%

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	1.31	1.31	98
#4	0.187	4.75	10.18	11.49	80
#10	0.079	2.00	12.58	24.07	59
#20	0.033	0.84	16.07	40.14	32
#40	0.017	0.42	10.71	50.85	14
#60	0.010	0.25	3.59	54.44	8
#100	0.006	0.15	1.43	55.87	5
#200	0.003	0.07	1.05	56.92	3
Pan			1.97	58.89	0

Total Dry Weight of Sample = 185.89

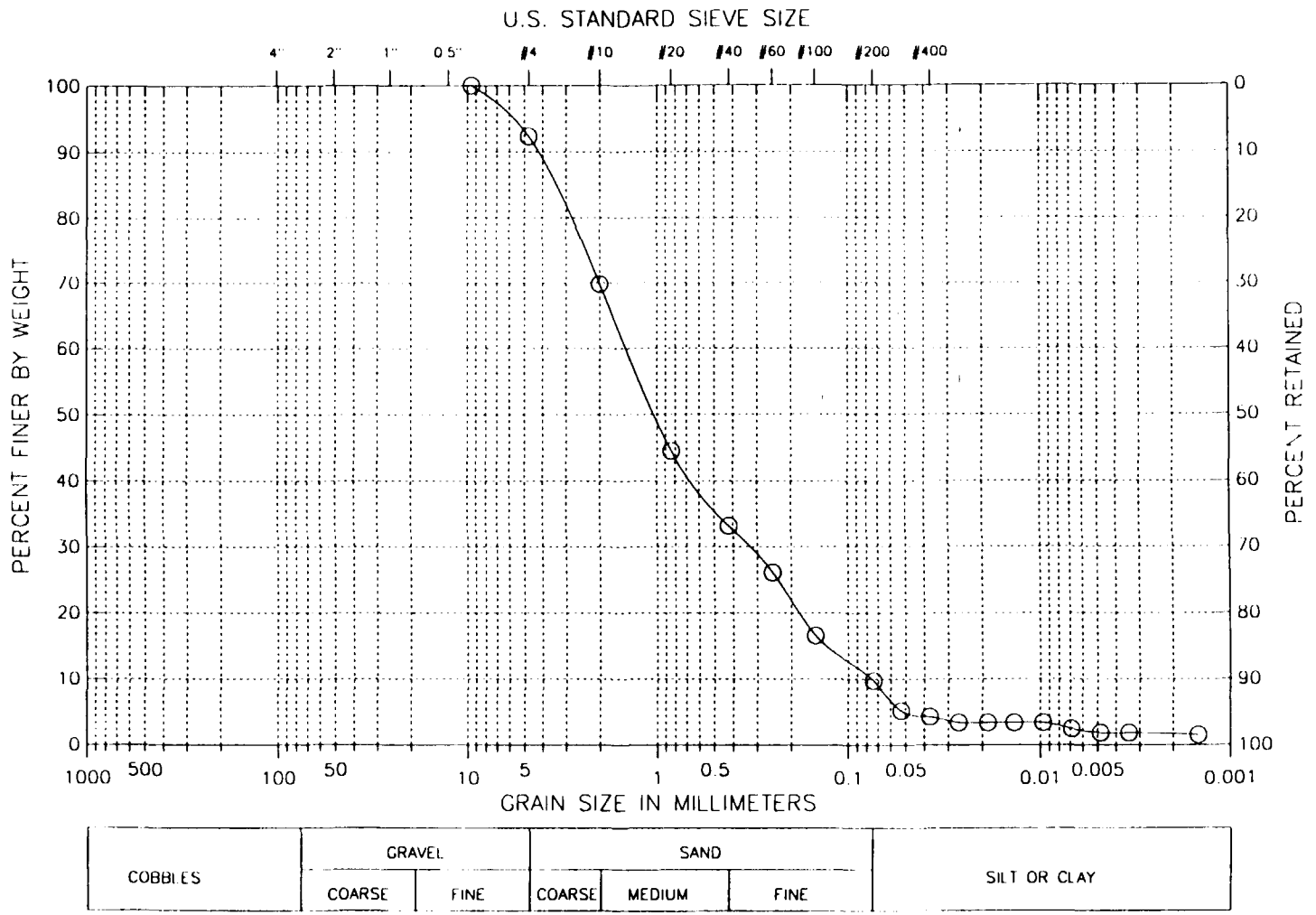
D85 : 5.6933 mm
D60 : 2.0719 mm
D50 : 1.4969 mm
D30 : 0.7840 mm
D15 : 0.4422 mm
D10 : 0.3078 mm

Soil Classification
ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand with gravel
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

WRL - DU - 102599.A

Boring No. : ----	Project : Tetra Tech NUS; Centerdale; N0191
Sample No: D00886	Project No : GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 886	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Moist, yellowish brown sand with silt

Figure 4

WRL - DU - 102599A

Fri Dec 03 14:50:29 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; NO191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00886
Location : Centerdale, RI
Soil Description : Moist, yellowish brown sand with silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 886
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 38.41 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	7.00	20.50	2.84	0.053	5	0.053
2.00	6.50	20.50	2.34	0.037	4	0.037
4.00	6.00	20.50	1.84	0.027	3	0.027
8.00	6.00	20.50	1.84	0.019	3	0.019
15.00	6.00	20.50	1.84	0.014	3	0.014
30.00	6.00	20.50	1.84	0.010	3	0.010
60.00	5.50	20.50	1.34	0.007	2	0.007
120.00	5.00	21.00	1.00	0.005	2	0.005
240.00	5.00	21.00	1.00	0.003	2	0.003
1308.00	5.00	20.50	0.84	0.001	2	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	4.20	4.20	92
#10	0.079	2.00	12.41	16.61	70
#20	0.033	0.84	13.92	30.53	45
#40	0.017	0.42	6.26	36.79	33
#60	0.010	0.25	3.88	40.67	26
#100	0.006	0.15	5.23	45.90	17
#200	0.003	0.07	3.77	49.67	10
Pan			5.35	55.02	0

Total Dry Weight of Sample = 172.2

D85 : 3.5810 mm
D60 : 1.4293 mm
D50 : 1.0149 mm
D30 : 0.3335 mm
D15 : 0.1268 mm
D10 : 0.0761 mm

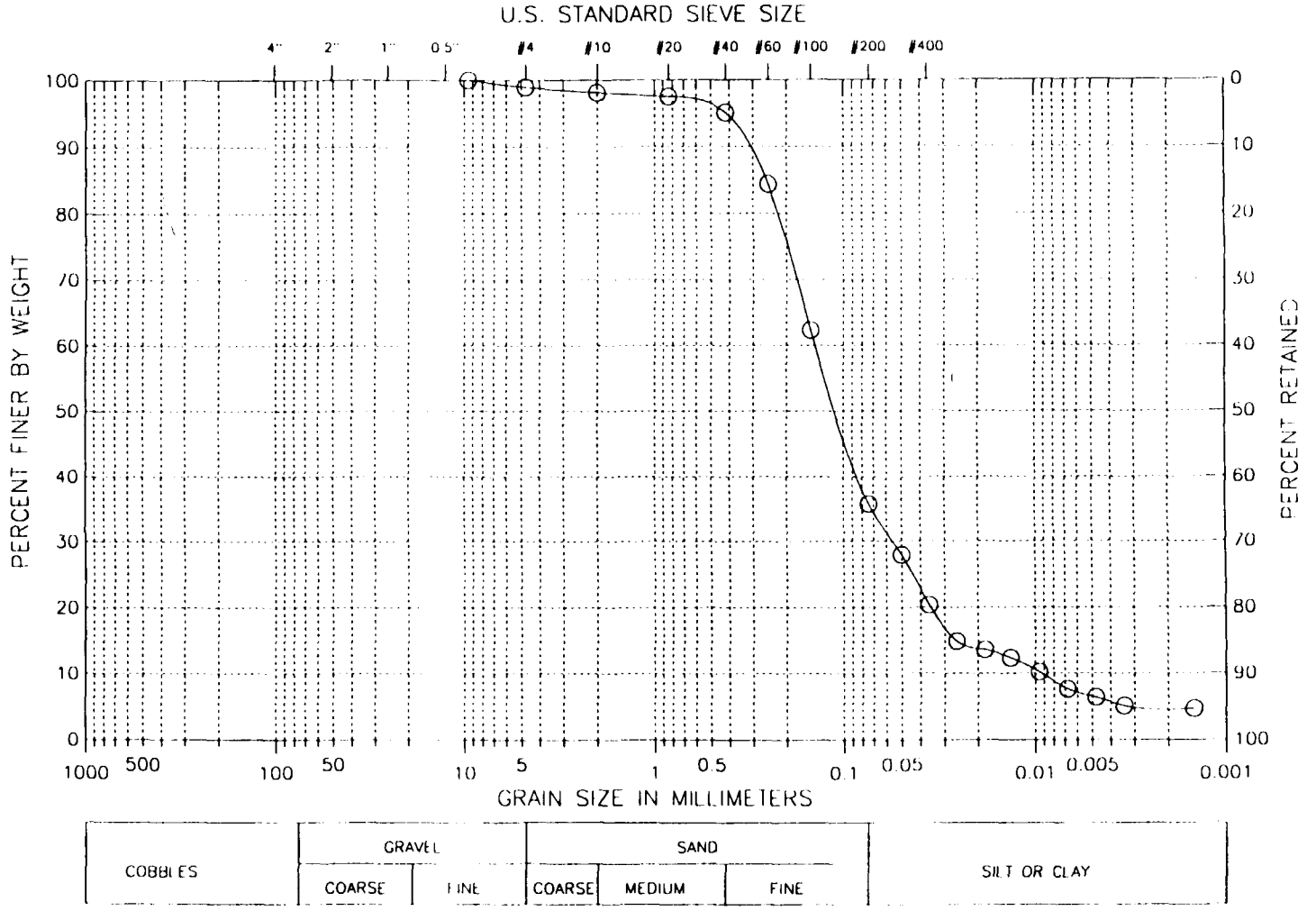
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

US EPA ARCHIVE DOCUMENT

WRL - SD - 2041 - 01

Boring No. :
Sample No.: D00887
Test Method ASTM D 422
Filename : 887

Project : Tetra Tech NUS; Centerdale; N0191
Project No.: GTX 2607
Location: Centerdale, RI
Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, very dark gray silty fine sand

Figure 5

WRL-SD-2041-01

Fri Dec 03 14:50:29 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale, RI191 Filename : 887
Project No. : GTX-2607 Depth : ---
Boring No. : --- Test Date : 11/17/99 Elevation : ---
Sample No. : 200887 Test Method : ASTM D 422 Tested by : NJH/MED
Location : Centerdale, RI Checked by : GTT
Soil Description : Wet, very dark gray silty fine sand
Remarks : ---

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 38.67 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	21.00	11.00	0.050	28	0.050
2.00	12.00	21.00	8.00	0.036	20	0.036
4.00	10.00	20.50	5.84	0.026	15	0.026
8.00	9.50	20.50	5.34	0.018	14	0.018
15.00	9.00	20.50	4.84	0.013	12	0.013
30.00	8.00	21.00	4.00	0.010	10	0.010
60.00	7.00	21.00	3.00	0.007	8	0.007
120.00	6.50	21.00	2.50	0.005	6	0.005
240.00	6.00	21.00	2.00	0.003	5	0.003
1299.00	6.00	20.50	1.84	0.001	5	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.43	0.43	99
#10	0.079	2.00	0.32	0.75	98
#20	0.033	0.84	0.24	0.99	97
#40	0.017	0.42	0.95	1.94	95
#60	0.010	0.25	4.21	6.15	84
#100	0.006	0.15	8.70	14.85	62
#200	0.003	0.07	10.48	25.33	36
Pan			14.09	39.42	0

Total Dry Weight of Sample = 154.57

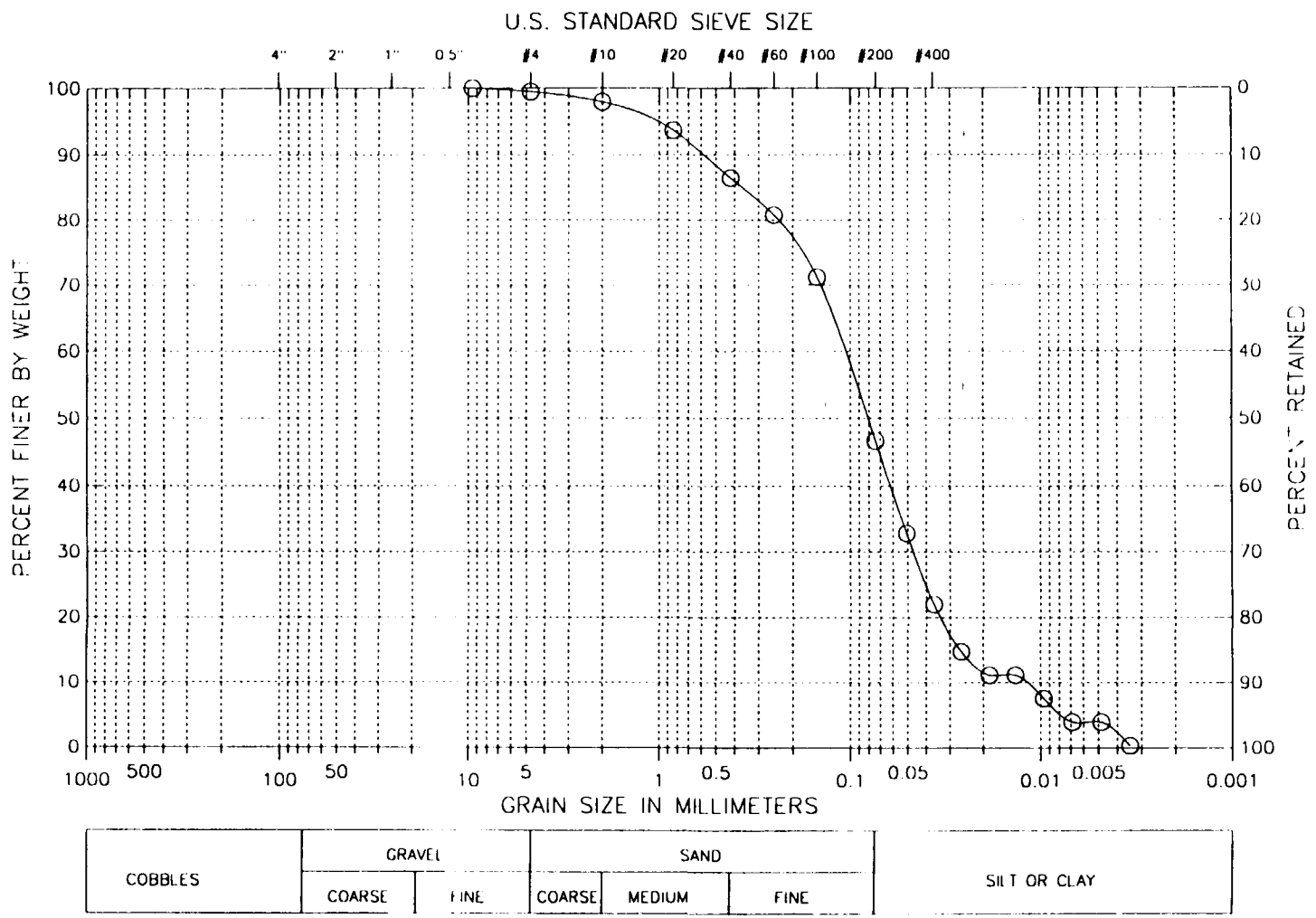
D85 : 0.2574 mm
D60 : 0.1401 mm
D50 : 0.1077 mm
D30 : 0.0556 mm
D15 : 0.0262 mm
D10 : 0.0093 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

WRL-SD-2042-01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00974	Project No.: GIX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 974	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, dark gray silty sand with organics

Figure 34

WRL-SD-2042-01

Fri Dec 03 14:50:29 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191 Filename : 974
Project No. : GTX-2607 Depth : --- Elevation : ---
Boring No. : --- Test Date : 11/17/99 Tested by : NJH/MED
Sample No. : 000974 Test Method : ASTM D 422 Checked by : GTT
Location : Centerdale, RI
Soil Description : Wet, dark gray silty sand with organics
Remarks : ---

HYDROMETER

Hydrometer ID : 87130
Weight of air-dried soil = 27.12 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	20.00	9.08	0.051	33	0.051
2.00	12.00	20.00	6.08	0.037	22	0.037
4.00	10.00	20.00	4.08	0.026	15	0.026
8.00	9.00	20.00	3.08	0.019	11	0.019
15.00	9.00	20.00	3.08	0.014	11	0.014
30.00	8.00	20.00	2.08	0.010	8	0.010
60.00	7.00	20.00	1.08	0.007	4	0.007
120.00	7.00	20.00	1.08	0.005	4	0.005
240.00	6.00	20.00	0.08	0.003	0	0.003

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.15	0.15	99
#10	0.079	2.00	0.42	0.57	98
#20	0.033	0.84	1.18	1.75	94
#40	0.017	0.42	2.00	3.75	86
#60	0.010	0.25	1.57	5.32	81
#100	0.006	0.15	2.66	7.98	71
#200	0.003	0.07	6.79	14.77	47
Pan			12.92	27.69	0

Total Dry Weight of Sample = 155.68

D85 : 0.3676 mm
D60 : 0.1083 mm
D50 : 0.0814 mm
D30 : 0.0466 mm
D15 : 0.0264 mm
D10 : 0.0122 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

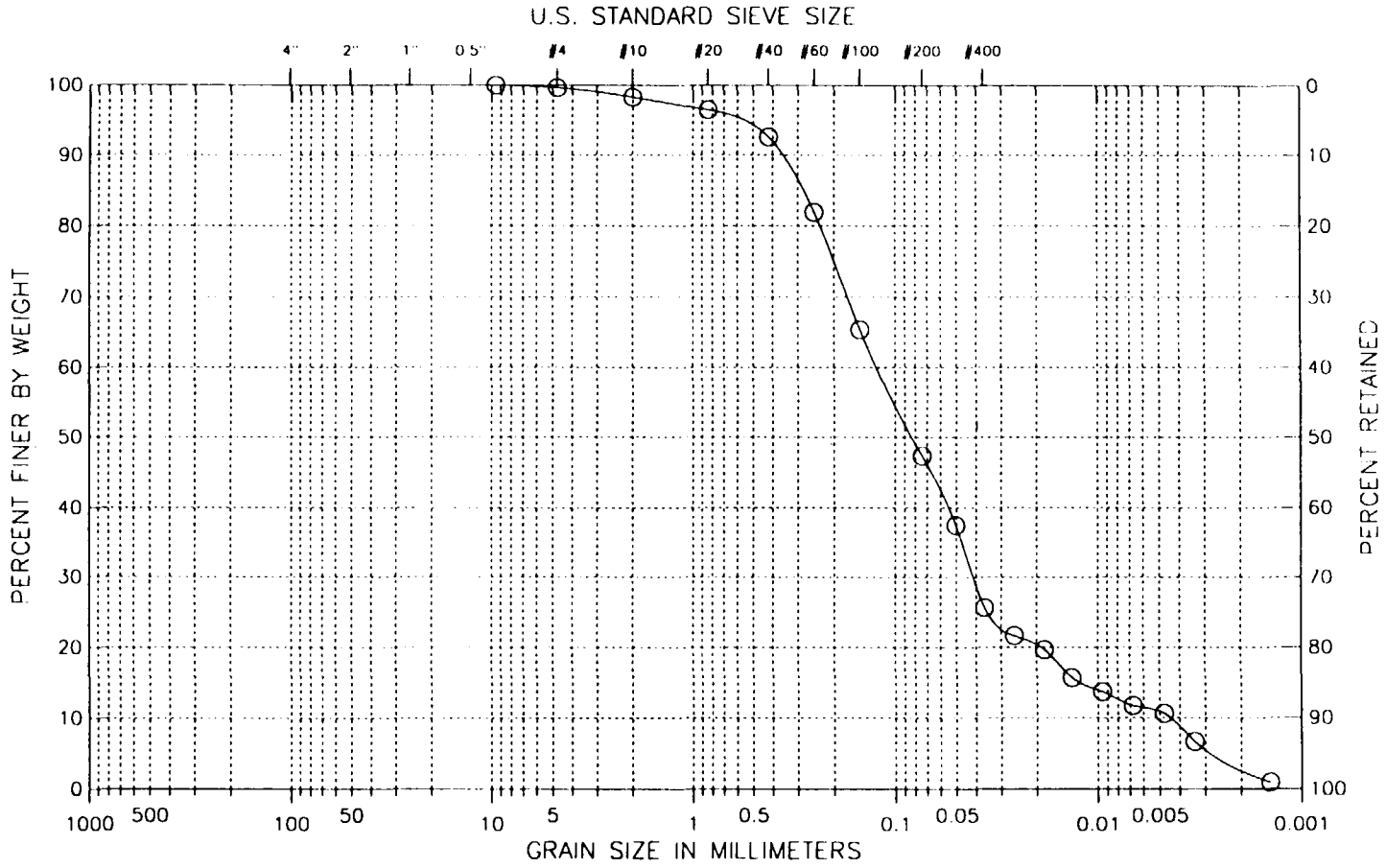
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

WRL - SD - 2043-01

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No.: D01009	Project No.: GTX 2632
Test Method ASTM D 422	Location:
Filename : 01009	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :

Wet, black silty sand with organics

Figure 1

04

US EPA ARCHIVE DOCUMENT

NRL-SD-2043-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01009
Location : ---
Soil Description : Wet, black silty sand with organics
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : 01009
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 24.84 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	16.00	20.00	9.46	0.050	37	0.050
2.00	13.00	20.00	6.46	0.036	26	0.036
4.00	12.00	20.00	5.46	0.026	22	0.026
8.00	11.50	20.00	4.96	0.018	20	0.018
15.00	10.50	20.00	3.96	0.013	16	0.013
30.00	10.00	20.00	3.46	0.010	14	0.010
60.00	9.50	20.00	2.96	0.007	12	0.007
120.00	9.00	20.50	2.68	0.005	11	0.005
240.00	8.00	20.50	1.68	0.003	7	0.003
1388.00	7.00	19.50	0.24	0.001	1	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.09	0.09	100
#10	0.079	2.00	0.34	0.43	98
#20	0.033	0.84	0.47	0.90	96
#40	0.017	0.42	0.98	1.88	93
#60	0.010	0.25	2.69	4.57	82
#100	0.006	0.15	4.18	8.75	65
#200	0.003	0.07	4.56	13.31	47
Pan			11.96	25.27	0

Total Dry Weight of Sample = 150.82

D85 : 0.2906 mm
D60 : 0.1210 mm
D50 : 0.0821 mm
D30 : 0.0410 mm
D15 : 0.0119 mm
D10 : 0.0045 mm

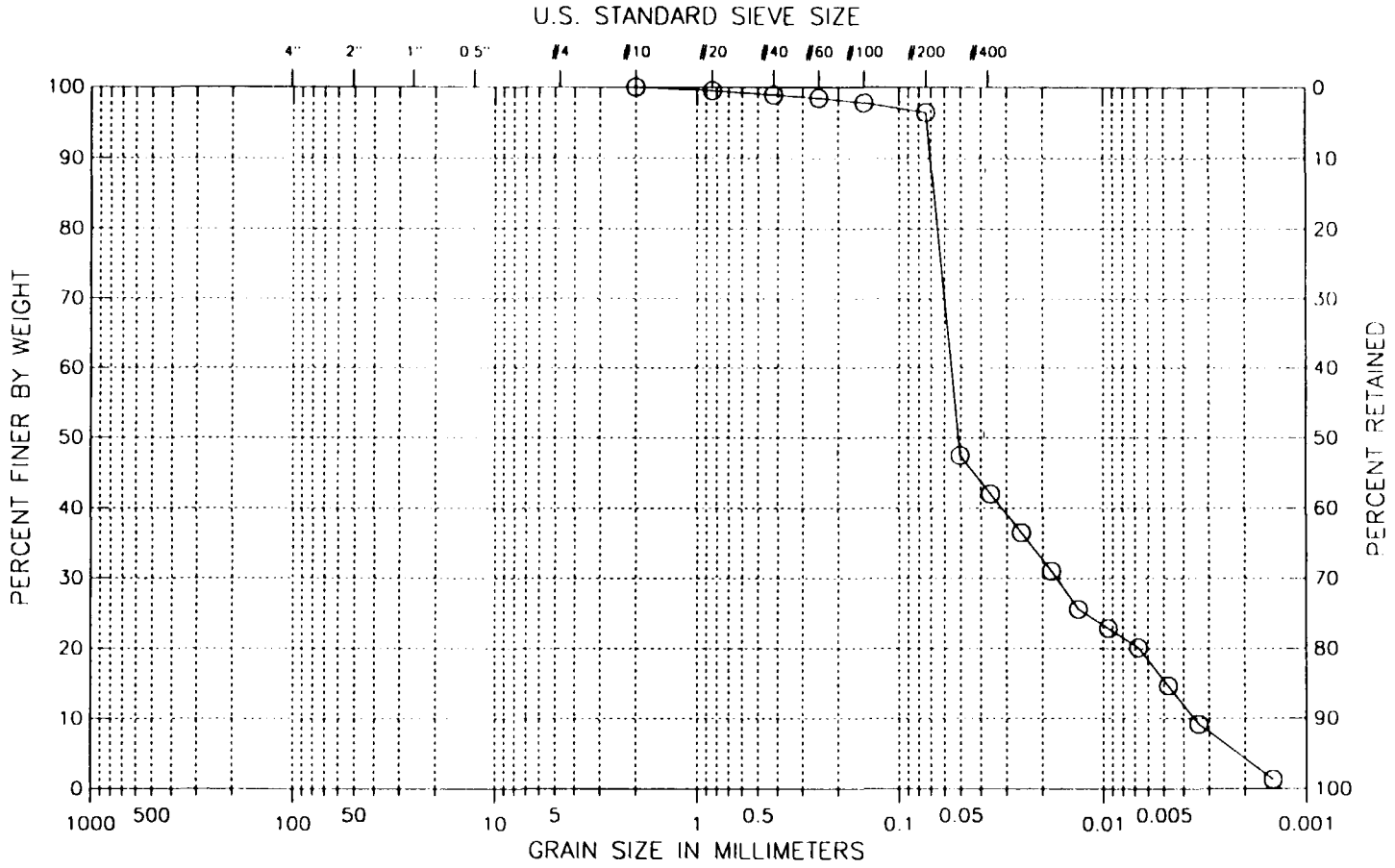
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

WRL-SD-2044-000.5-A

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No.: D01032	Project No.: GTX 2632
Test Method ASTM D 422	Location: - - -
Filename : 01032	Date : Thu Dec 16 1999



Classification :

Remarks :
- - -

Visual Description :
Wet, black organic silt

Figure 7

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01032
Location : ---
Soil Description : Wet, black organic silt
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : D1032
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

WRL-SD-2044-000.5-01

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 18.31 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	20.50	8.68	0.050	47	0.050
2.00	14.00	20.50	7.68	0.036	42	0.036
4.00	13.00	20.50	6.68	0.026	37	0.026
8.00	12.00	20.50	5.68	0.018	31	0.018
15.00	11.00	20.50	4.68	0.013	26	0.013
30.00	10.50	20.50	4.18	0.009	23	0.009
60.00	10.00	20.50	3.68	0.007	20	0.007
120.00	9.00	20.50	2.68	0.005	15	0.005
242.00	8.00	20.50	1.68	0.003	9	0.003
1336.00	7.00	19.50	0.24	0.001	1	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#10	0.079	2.00	0.00	0.00	100
#20	0.033	0.84	0.09	0.09	100
#40	0.017	0.42	0.11	0.20	99
#60	0.010	0.25	0.08	0.28	98
#100	0.006	0.15	0.12	0.40	98
#200	0.003	0.07	0.25	0.65	96
Pan			17.66	18.31	0

Total Dry Weight of Sample = 135.9

D85 : 0.0677 mm
D60 : 0.0556 mm
D50 : 0.0514 mm
D30 : 0.0171 mm
D15 : 0.0049 mm
D10 : 0.0036 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

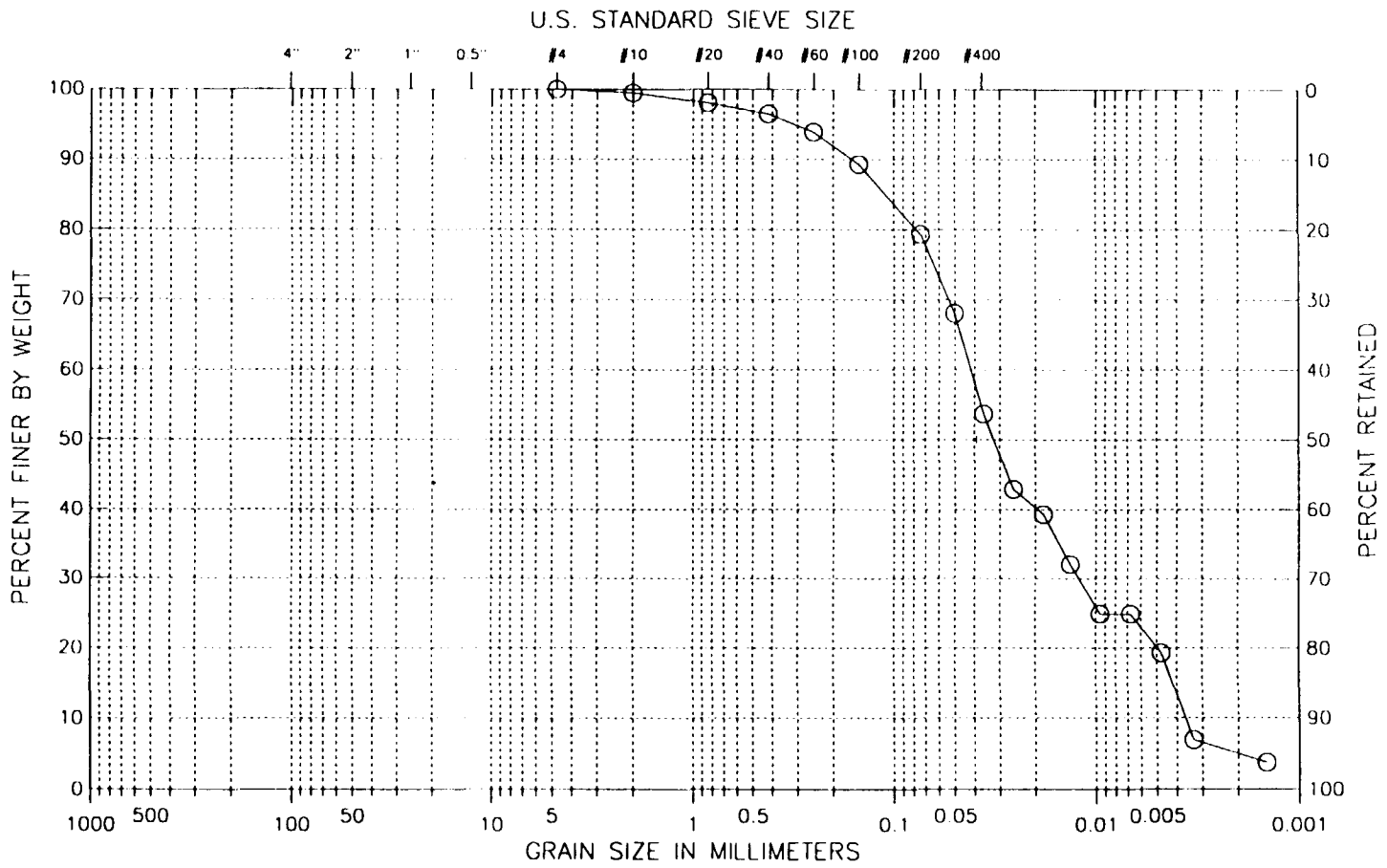
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

LPX - SD-2045-01

Boring No. :	Project : Tetra Tech NUS, N0400
Sample No.: D01016	Project No.: GTX 2632
Test Method ASTM D 422	Location:
Filename : 01016	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :

Wet, black organic silt with sand

Figure 3

LPX-SD-2045-01

Thu Dec 16 12:47:22 1999

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01016
Location : ---
Soil Description : Wet, black organic silt with sand
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : D1016
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 13.85 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	16.00	20.00	9.46	0.050	68	0.050
2.00	14.00	20.00	7.46	0.036	54	0.036
4.00	12.50	20.00	5.96	0.026	43	0.026
8.00	12.00	20.00	5.46	0.018	39	0.018
15.00	11.00	20.00	4.46	0.013	32	0.013
30.00	10.00	20.00	3.46	0.010	25	0.010
60.00	10.00	20.00	3.46	0.007	25	0.007
120.00	9.00	20.50	2.68	0.005	19	0.005
254.00	7.50	20.00	0.96	0.003	7	0.003
1362.00	7.50	19.00	0.52	0.001	4	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.07	0.07	99
#20	0.033	0.84	0.20	0.27	98
#40	0.017	0.42	0.22	0.49	96
#60	0.010	0.25	0.36	0.85	94
#100	0.006	0.15	0.64	1.49	89
#200	0.003	0.07	1.39	2.88	79
Pan			11.04	13.92	0

Total Dry Weight of Sample = 128.13

D85 : 0.1103 mm
D60 : 0.0418 mm
D50 : 0.0322 mm
D30 : 0.0121 mm
D15 : 0.0042 mm
D10 : 0.0036 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

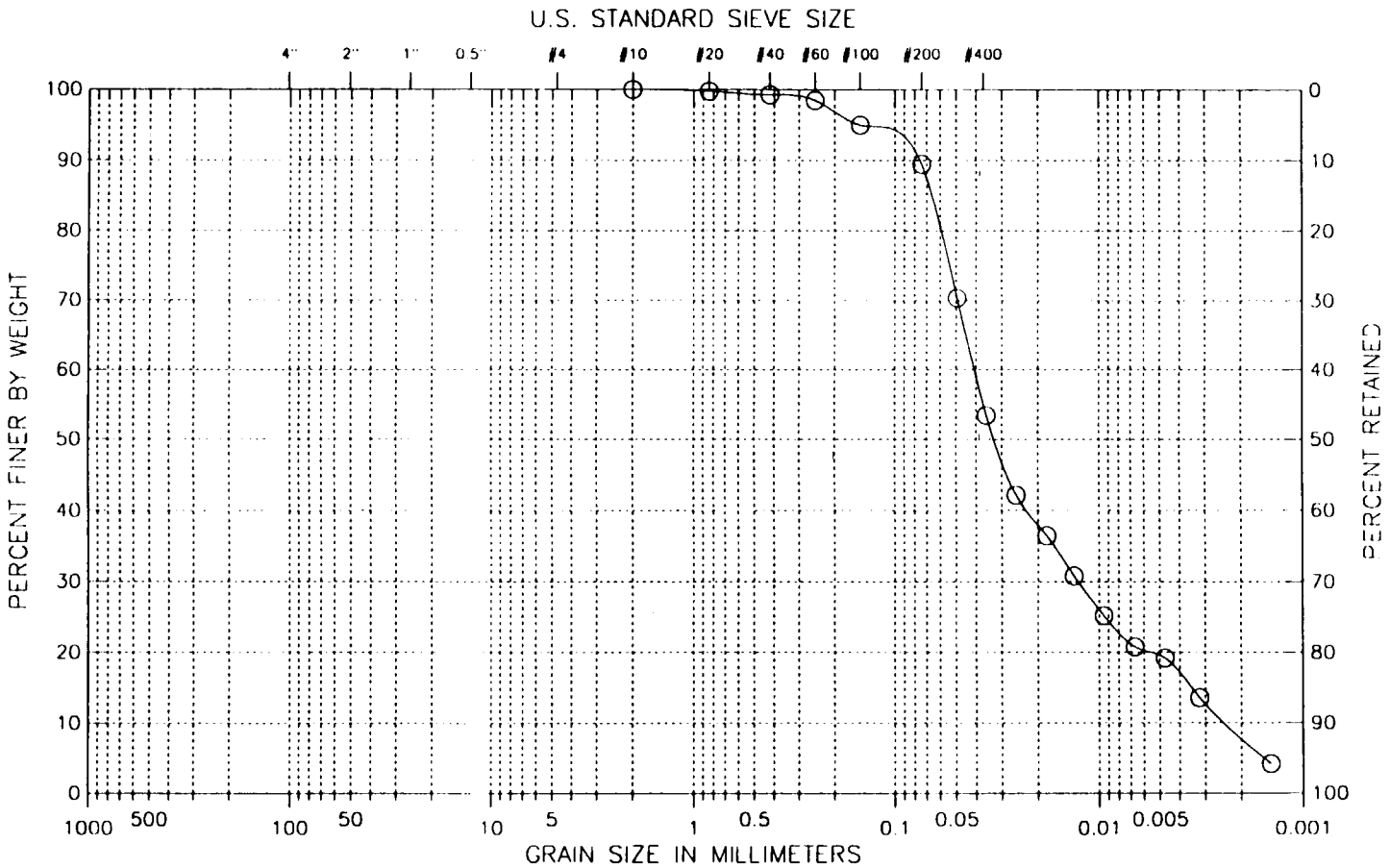
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

LPX-SD-2046-000.5-01

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No : D01017	Project No : GTX 2632
Test Method ASTM D 422	Location: - -
Filename : 01017	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Wet, black organic silt

Figure 4

LPX-SD-2046-000.5-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; NJ400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01017
Location : ---
Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422
Filename : D1017
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT
Soil Description : Wet, black organic silt
Remarks : ---

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 17.74 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	19.00	20.00	12.46	0.050	70	0.050
2.00	16.00	20.00	9.46	0.036	53	0.036
4.00	14.00	20.00	7.46	0.026	42	0.026
8.00	13.00	20.00	6.46	0.018	36	0.018
15.00	12.00	20.00	5.46	0.013	31	0.013
30.00	11.00	20.00	4.46	0.009	25	0.009
61.00	10.00	20.50	3.68	0.007	21	0.007
120.00	9.50	21.00	3.40	0.005	19	0.005
264.00	8.50	21.00	2.40	0.003	14	0.003
1371.00	7.50	19.50	0.74	0.001	4	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#10	0.079	2.00	0.00	0.00	100
#20	0.033	0.84	0.04	0.04	100
#40	0.017	0.42	0.09	0.13	99
#60	0.010	0.25	0.14	0.27	98
#100	0.006	0.15	0.62	0.89	95
#200	0.003	0.07	0.98	1.87	89
Pan			15.88	17.75	0

Total Dry Weight of Sample = 135.89

D85 : 0.0674 mm
D60 : 0.0405 mm
D50 : 0.0323 mm
D30 : 0.0127 mm
D15 : 0.0035 mm
D10 : 0.0024 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

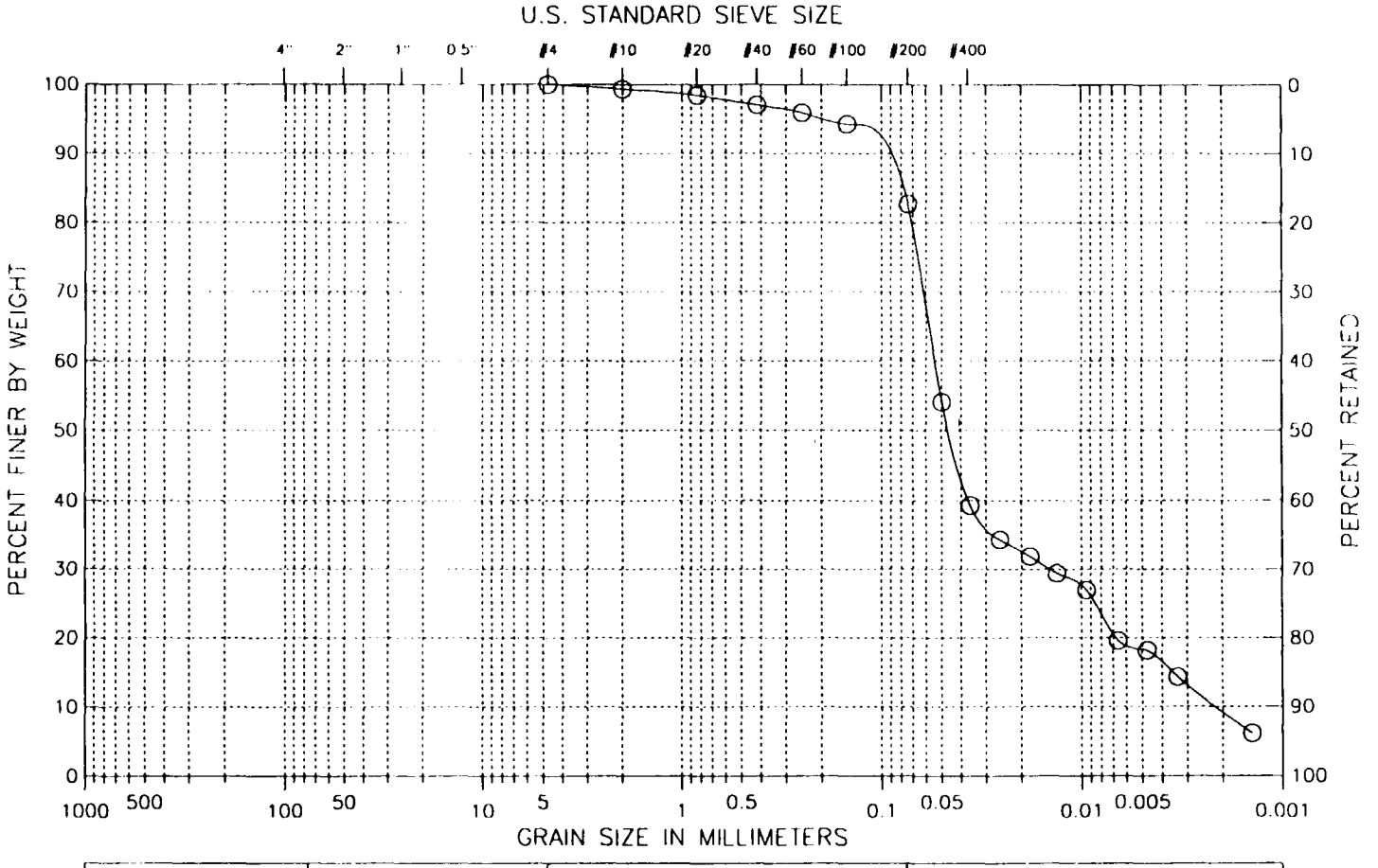
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

LPX - SD - 2047-01

Boring No	Project : Tetra Tech NUS; N0400
Sample No. D01010	Project No : GTX 2652
Test Method ASTM D 422	Location: ---
Filename : 01010	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Wet, black organic silt with sand

Figure 2

LPX-SD-2047-01

Thu Dec 16 12:47:22 1999

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01010
Location : ---
Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422
Filename : D1010
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT
Soil Description : Wet, black organic silt with sand
Remarks : ---

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 20.17 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	17.50	20.00	10.96	0.050	54	0.050
2.00	14.50	20.00	7.96	0.036	39	0.036
4.00	13.50	20.00	6.96	0.026	34	0.026
8.00	13.00	20.00	6.46	0.018	32	0.018
15.00	12.50	20.00	5.96	0.013	29	0.013
30.00	12.00	20.00	5.46	0.009	27	0.009
62.00	10.50	20.00	3.96	0.007	20	0.007
120.00	10.00	20.50	3.68	0.005	18	0.005
240.00	9.00	21.00	2.90	0.003	14	0.003
1398.00	8.00	19.50	1.24	0.001	6	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.13	0.13	99
#20	0.033	0.84	0.19	0.32	98
#40	0.017	0.42	0.28	0.60	97
#60	0.010	0.25	0.23	0.83	96
#100	0.006	0.15	0.33	1.16	94
#200	0.003	0.07	2.35	3.51	83
Pan			16.79	20.30	0

Total Dry Weight of Sample = 148.28

D85 : 0.0850 mm
D60 : 0.0542 mm
D50 : 0.0457 mm
D30 : 0.0143 mm
D15 : 0.0036 mm
D10 : 0.0021 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

07

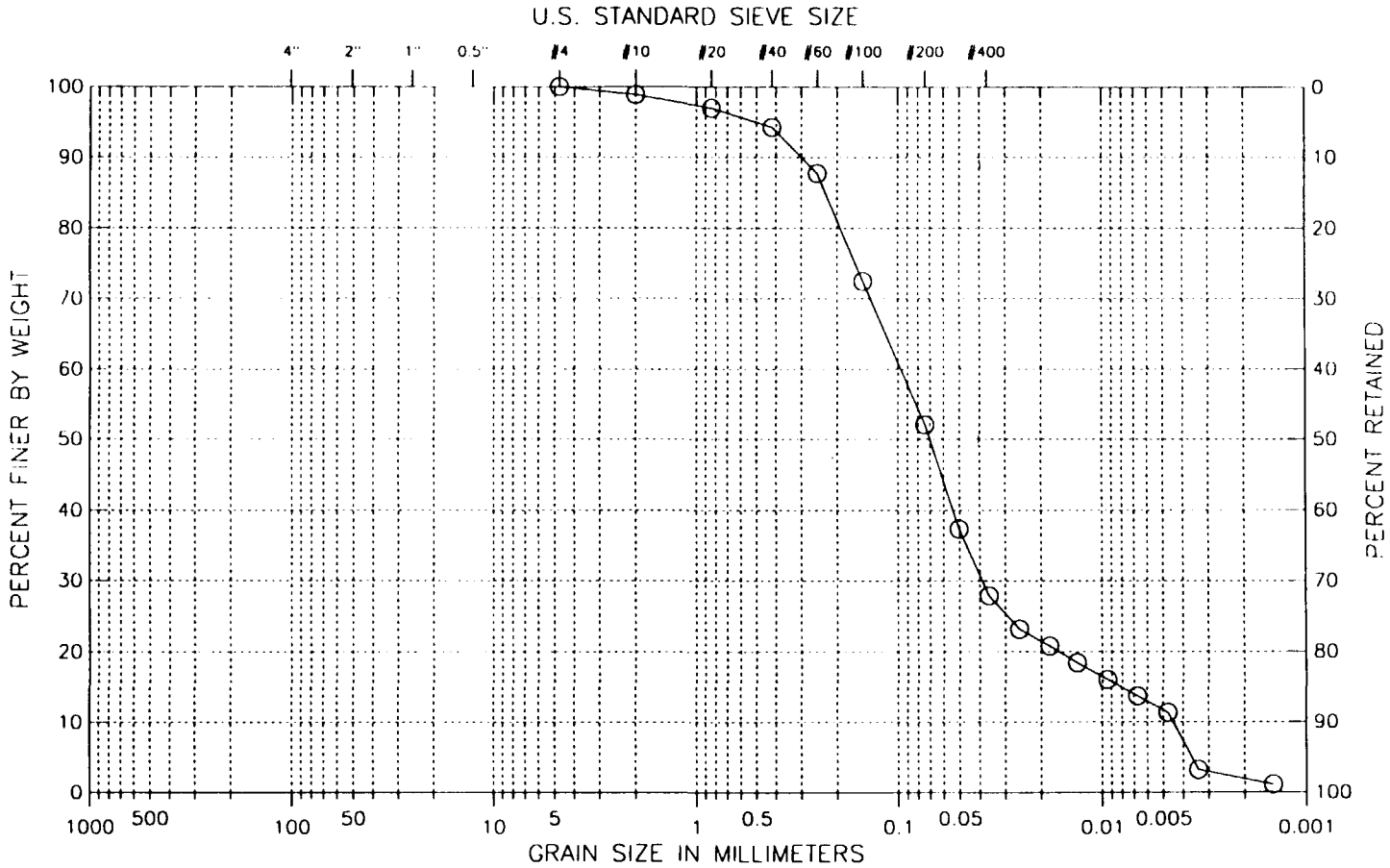
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

LPX-SD-2048-000.5-01

Boring No.	Project : Tetra Tech NUS, N0400
Sample No.: D01024	Project No.: GTX 2632
Test Method ASTM D 422	Location: -
Filename : 01024	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Wet, black sandy organic silt

Figure 5

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01024
Location : ---
Soil Description : Wet, black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 12/08/99
Test Method : ASTM D 422

Filename : D1024
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

LPX-SD-2048-0005-01

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 20.95 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	14.00	21.00	7.90	0.050	37	0.050
2.00	12.00	21.00	5.90	0.036	28	0.036
4.00	11.00	21.00	4.90	0.026	23	0.026
8.00	10.50	21.00	4.40	0.018	21	0.018
15.00	10.00	21.00	3.90	0.013	18	0.013
30.00	9.50	21.00	3.40	0.009	16	0.009
60.00	9.00	21.00	2.90	0.007	14	0.007
120.00	8.50	21.00	2.40	0.005	11	0.005
245.00	7.00	20.50	0.68	0.003	3	0.003
1354.00	7.00	19.50	0.24	0.001	1	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.24	0.24	99
#20	0.033	0.84	0.40	0.64	97
#40	0.017	0.42	0.58	1.22	94
#60	0.010	0.25	1.38	2.60	88
#100	0.006	0.15	3.24	5.84	72
#200	0.003	0.07	4.32	10.16	52
Pan			11.03	21.19	0

Total Dry Weight of Sample = 140.58

D85 : 0.2279 mm
D60 : 0.0972 mm
D50 : 0.0701 mm
D30 : 0.0389 mm
D15 : 0.0081 mm
D10 : 0.0045 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

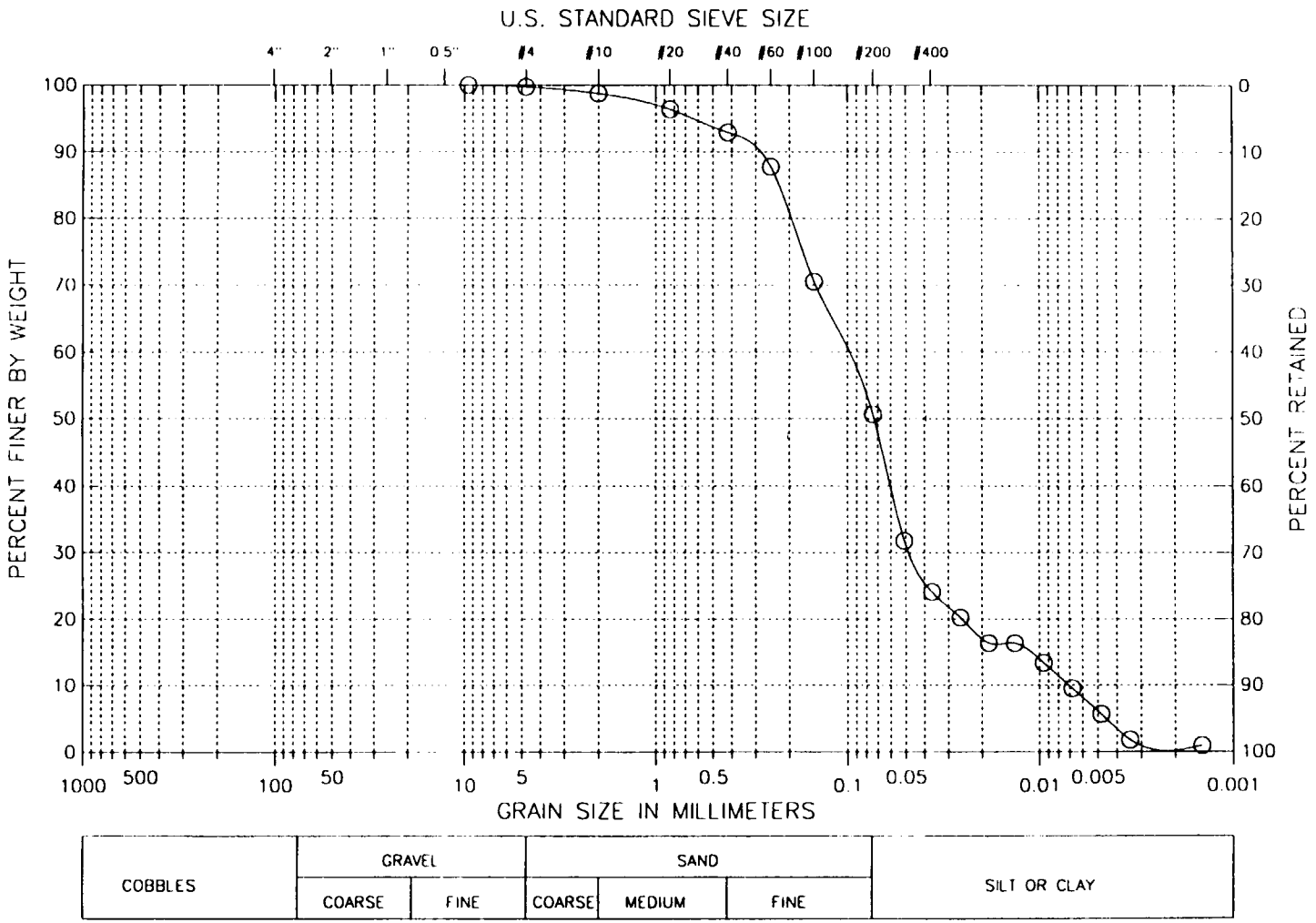
US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

LPX-SD-DU-110999A

Boring No. :	Project : Tetra Tech NUS; N0400
Sample No : D01026	Project No : GTX 2652
Test Method ASTM D 422	Location: -- --
Filename : 01026	Date : Thu Dec 16 1999



Classification :

Remarks :

Visual Description :
Wet, black sandy organic silt

Figure 6

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; N0400
Project No. : GTX-2632
Boring No. : ---
Sample No. : D01026
Location : ---
Soil Description : Wet, black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 12/09/99
Test Method : ASTM D 422

Filename : D1026
Elevation : ---
Tested by : NJH/MHM
Checked by : GTT

HYDROMETER

Hydrometer ID : 583901
Weight of air-dried soil = 25.62 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	15.00	19.50	8.24	0.051	32	0.051
2.00	13.00	19.50	6.24	0.037	24	0.037
4.00	12.00	19.50	5.24	0.026	20	0.026
8.00	11.00	19.50	4.24	0.018	16	0.018
15.00	11.00	19.50	4.24	0.013	16	0.013
30.00	10.00	20.00	3.46	0.010	13	0.010
60.00	9.00	20.00	2.46	0.007	9	0.007
120.00	8.00	20.00	1.46	0.005	6	0.005
240.00	7.00	20.00	0.46	0.003	2	0.003
1345.00	7.00	19.50	0.24	0.001	1	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.07	0.07	100
#10	0.079	2.00	0.26	0.33	99
#20	0.033	0.84	0.62	0.95	96
#40	0.017	0.42	0.89	1.84	93
#60	0.010	0.25	1.33	3.17	88
#100	0.006	0.15	4.48	7.65	71
#200	0.003	0.07	5.16	12.81	51
Pan			13.14	25.95	0

Total Dry Weight of Sample = 146.17

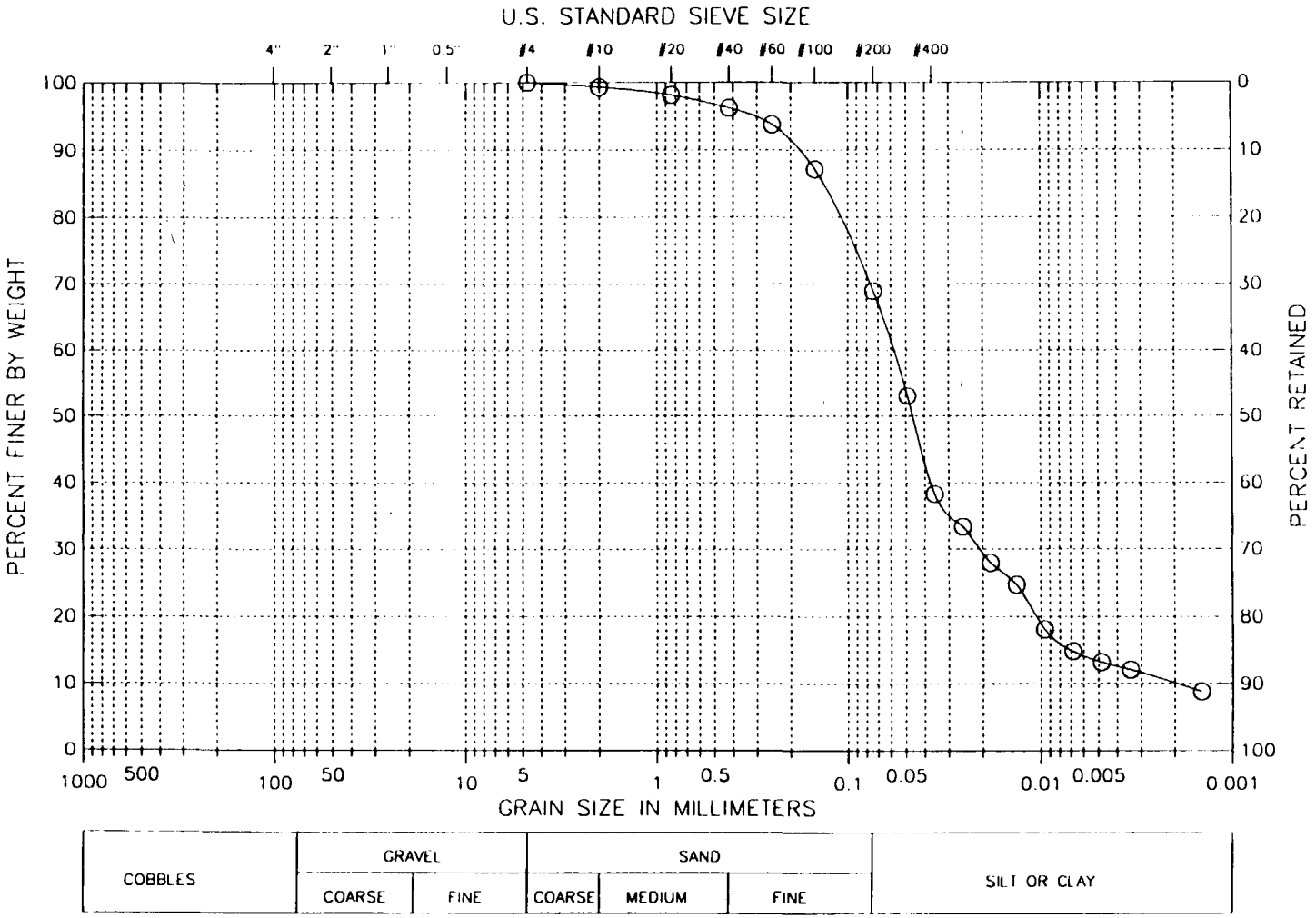
D85 : 0.2300 mm
D60 : 0.1029 mm
D50 : 0.0731 mm
D30 : 0.0472 mm
D15 : 0.0115 mm
D10 : 0.0071 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

LPX-SD-2049-01

Boring No. :	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D01004	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 1004	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Moist, dark brown sandy organic silt

Figure 43

LPX-SD-2049-01

Fri Dec 03 14:50:28 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D01004
Location : Centerdale, RI
Soil Description : Moist, dark brown sandy organic silt
Remarks : ---

Filename : 1004
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 30.32 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	20.50	20.00	16.18	0.049	53	0.049
2.00	16.00	20.00	11.68	0.036	38	0.036
4.00	14.50	20.00	10.18	0.025	33	0.025
8.00	13.00	19.50	8.52	0.018	28	0.018
15.00	12.00	19.50	7.52	0.013	25	0.013
30.00	10.00	19.50	5.52	0.010	18	0.010
60.00	9.00	19.50	4.52	0.007	15	0.007
120.00	8.50	19.50	4.02	0.005	13	0.005
240.00	8.00	20.00	3.68	0.003	12	0.003
1337.00	7.00	20.00	2.68	0.001	9	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.21	0.21	99
#20	0.033	0.84	0.36	0.57	98
#40	0.017	0.42	0.59	1.16	96
#60	0.010	0.25	0.75	1.91	94
#100	0.006	0.15	2.02	3.93	87
#200	0.003	0.07	5.55	9.48	69
Pan			21.05	30.53	0

Total Dry Weight of Sample = 147.71

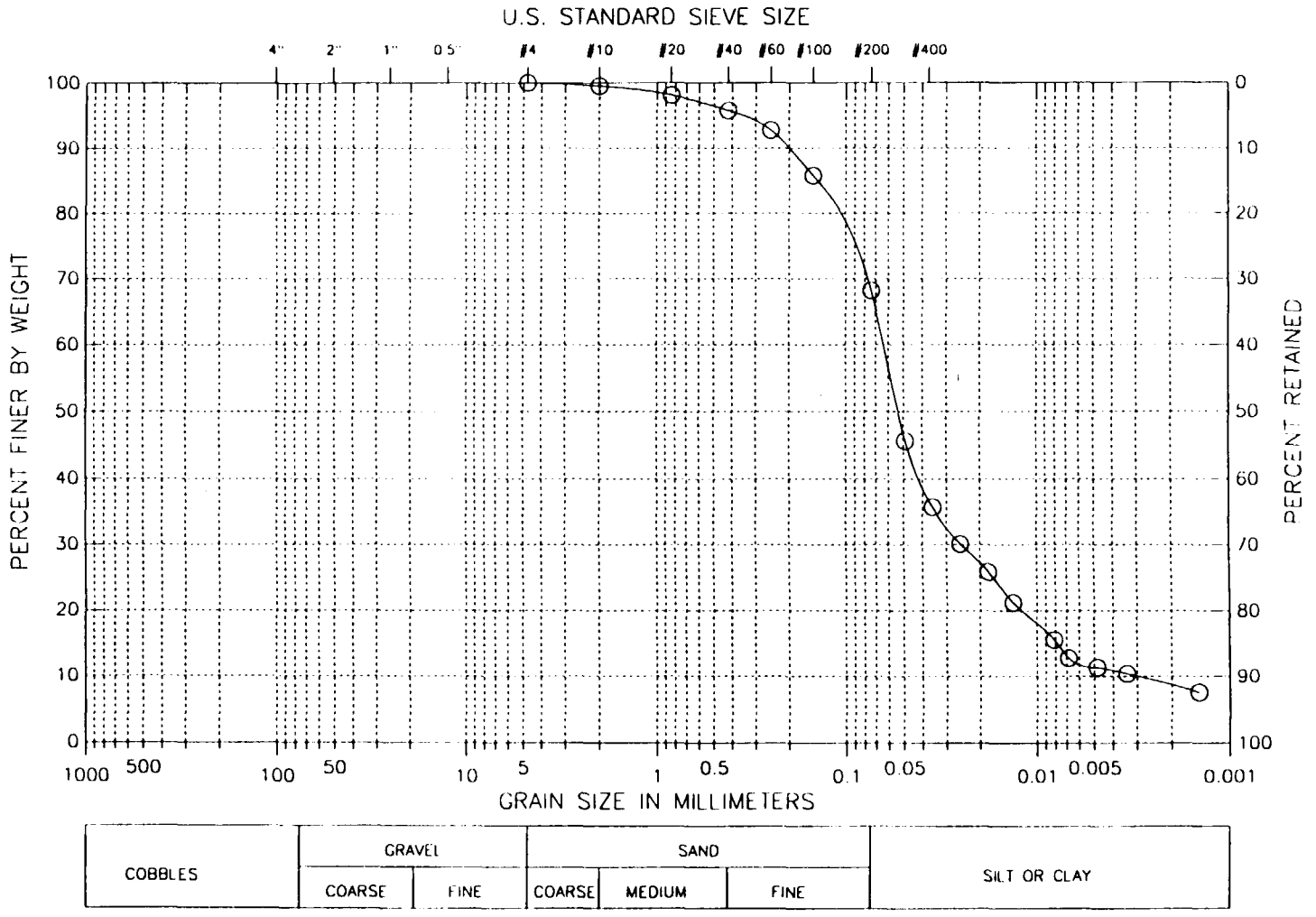
D85 : 0.1373 mm
D60 : 0.0587 mm
D50 : 0.0459 mm
D30 : 0.0207 mm
D15 : 0.0069 mm
D10 : 0.0020 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

LPX-SD-2049-01

Boring No. : - - -	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D01004 - DUP	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 1004DUP	Date : Fri Dec 03 1999



Classification :

Remarks :
DUPLICATE ANALYSIS

Visual Description :
Moist, dark brown sandy organic silt

Figure 44

GeoTesting Express • Boxborough, MA • (978) 635-0424 • Fax (978) 635-0266

EPA-SD-2049-01

Fri Dec 03 14:50:29 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D01004 - DUP
Location : Centerdale, RI
Soil Description : Moist, dark brown sandy organic silt
Remarks : **DUPLICATE ANALYSIS**

Filename : 1004DUP
Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 35.36 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	20.50	20.00	16.18	0.049	46	0.049
2.00	17.00	20.00	12.68	0.035	36	0.035
4.00	15.00	20.00	10.68	0.025	30	0.025
8.00	13.50	20.00	9.18	0.018	26	0.018
15.00	12.00	19.50	7.52	0.013	21	0.013
42.00	10.00	19.50	5.52	0.008	16	0.008
60.00	9.00	19.50	4.52	0.007	13	0.007
120.00	8.50	19.50	4.02	0.005	11	0.005
242.00	8.00	20.00	3.68	0.003	10	0.003
1345.00	7.00	20.00	2.68	0.001	8	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.17	0.17	100
#20	0.033	0.84	0.49	0.66	98
#40	0.017	0.42	0.84	1.50	96
#60	0.010	0.25	1.07	2.57	93
#100	0.006	0.15	2.48	5.05	86
#200	0.003	0.07	6.25	11.30	68
Pan			24.23	35.53	0

Total Dry Weight of Sample = 150.69

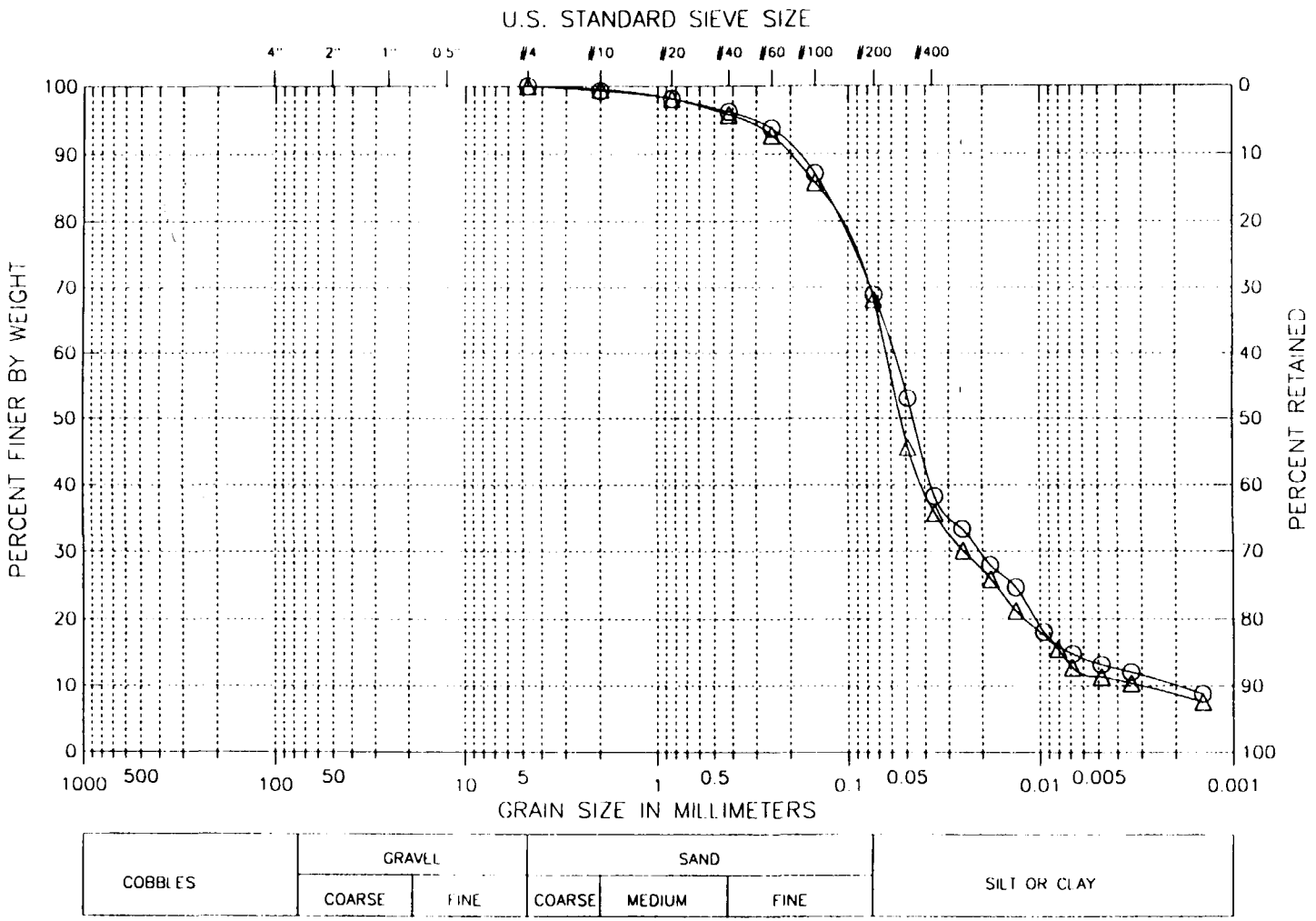
D85 : 0.1444 mm
D60 : 0.0638 mm
D50 : 0.0532 mm
D30 : 0.0252 mm
D15 : 0.0078 mm
D10 : 0.0030 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

LPX-SD-2049-01

Project : Tetra Tech NUS; Centerdale; N0191
Project No.: GTX-2607
Location: Centerdale, RI
Date : Fri Dec 03 1999



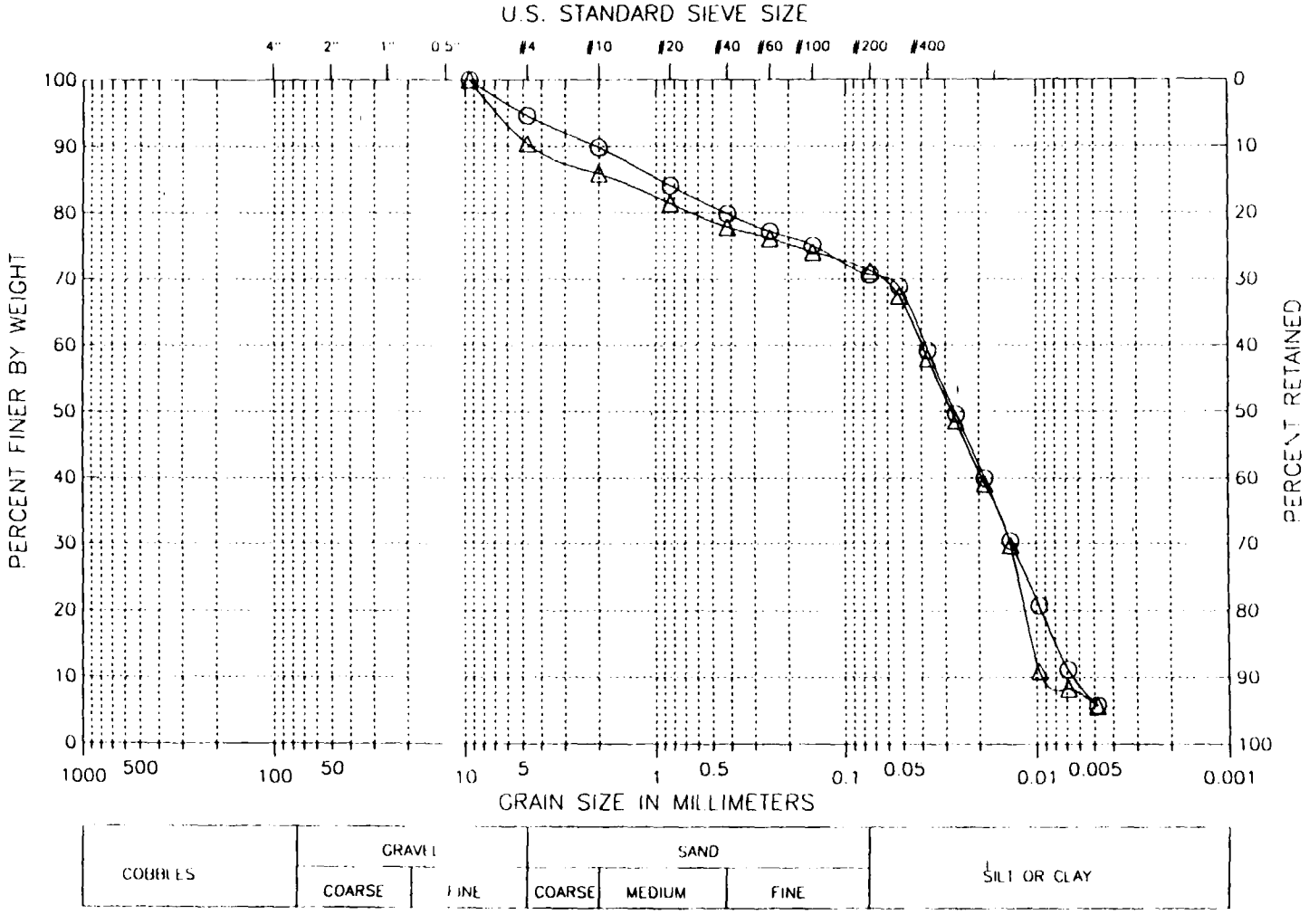
Symbol	Boring No.	Sample No.	Depth	Filename	Classification / Description
-O-		D01004		1004	Moist, dark brown sandy organic silt
-Δ-		D01004 DUP		1004DUP	Moist, dark brown sandy organic silt

Figure 3

US EPA ARCHIVE DOCUMENT

CMW-SD-2019-01

Project : Tetra Tech NUS; Centerdale; N0191
Project No : GTX -2607
Location: Centerdale, RI
Date : Fri Dec 03 1999

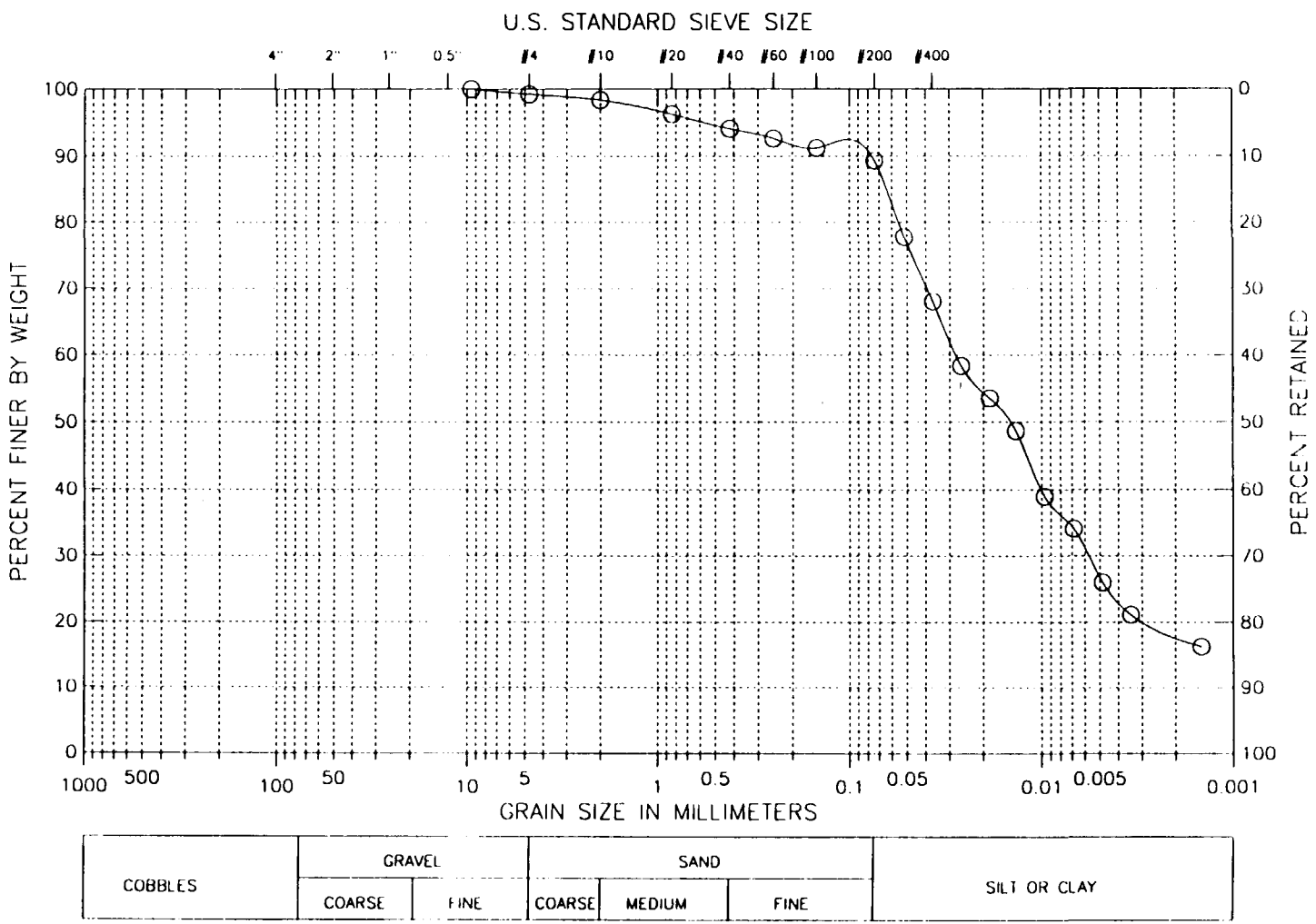


Symbol	Boring No.	Sample No.	Depth	Filename	Classification / Description
⊖	- - -	D00906		906	Wet, black sandy silt with organics
△	- - -	D00906 - DUP		906DUP	Wet, black sandy silt with organics

Figure 1

LPX-SD-2050-01

Boring No. : -	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D01003	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 1003	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black organic silt

Figure 42

LPX-SD-2050-01

Fri Dec 03 14:50:28 1999

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D01003
Location : Centerdale, RI
Soil Description : Wet, Black organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 1003
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 10.16 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.50	19.50	8.02	0.052	78	0.052
2.00	11.50	19.50	7.02	0.037	68	0.037
4.00	10.50	19.50	6.02	0.026	58	0.026
8.00	10.00	19.50	5.52	0.019	54	0.019
15.00	9.50	19.50	5.02	0.014	49	0.014
30.00	8.50	19.50	4.02	0.010	39	0.010
60.00	8.00	19.50	3.52	0.007	34	0.007
120.00	7.00	20.00	2.68	0.005	26	0.005
240.00	6.50	20.00	2.18	0.003	21	0.003
1328.00	6.00	20.00	1.68	0.001	16	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.14	0.14	99
#10	0.079	2.00	0.16	0.30	98
#20	0.033	0.84	0.39	0.69	96
#40	0.017	0.42	0.40	1.09	94
#60	0.010	0.25	0.27	1.36	93
#100	0.006	0.15	0.26	1.62	91
#200	0.003	0.07	0.35	1.97	89
Pan			16.49	18.46	0

Total Dry Weight of Sample = 149.64

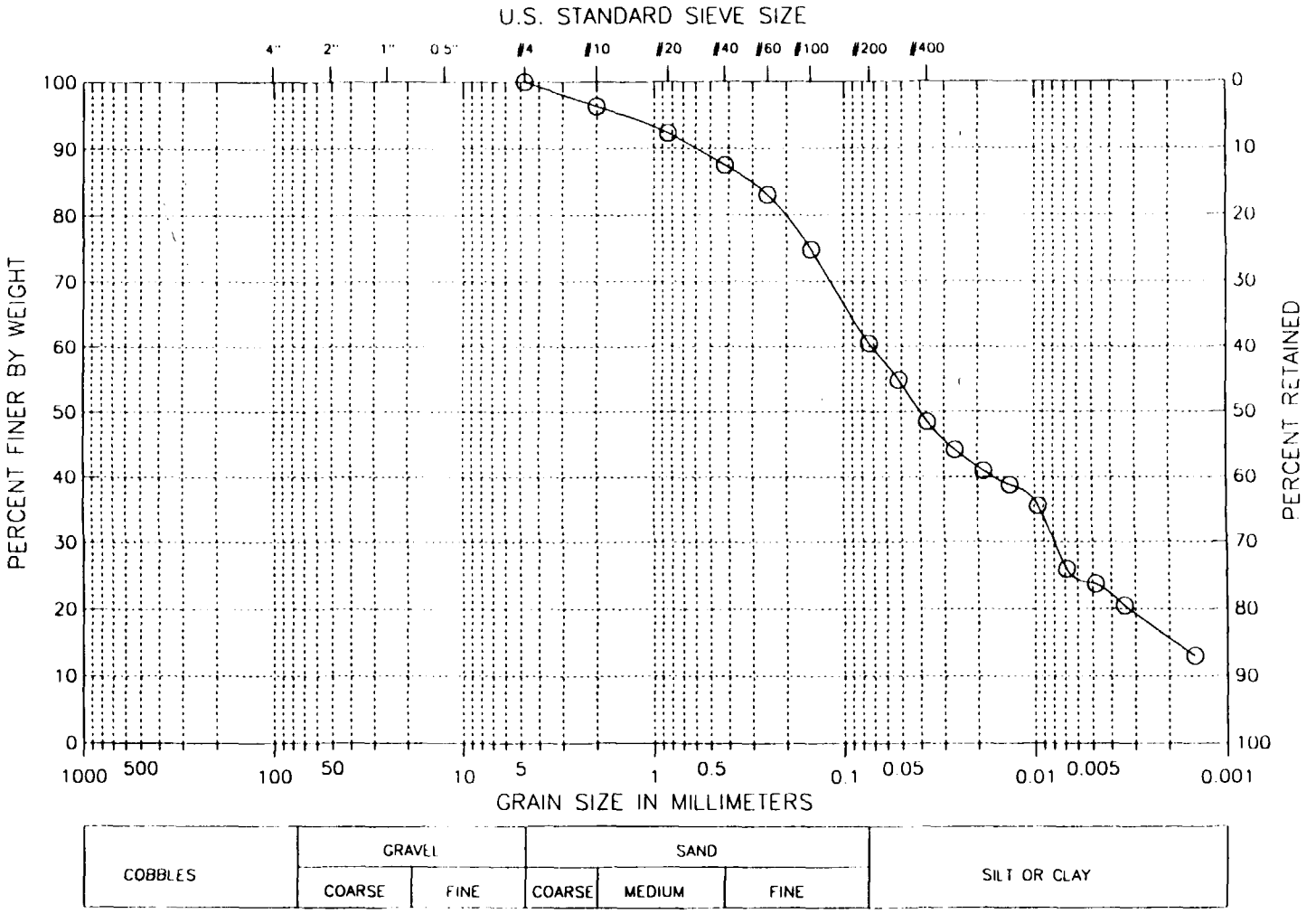
D85 : 0.0648 mm
D60 : 0.0278 mm
D50 : 0.0148 mm
D30 : 0.0058 mm
D15 : N/A
D10 : N/A

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

CPX-SD-2051-01

	Boring No. : --- Sample No.: D0099/ Test Method ASTM D 422 Filename : 99/	Project : Tetra Tech NUS; Centerdale; N0191 Project No.: GTX-2607 Location: Centerdale, RI Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black sandy organic silt

Figure 41

LPX-SD-2051-01

Fri Dec 03 14:50:29 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00997
Location : Centerdale, RI
Soil Description : Wet, black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 997
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 14.98 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	13.00	19.50	8.52	0.052	55	0.052
2.00	12.00	19.50	7.52	0.037	48	0.037
4.00	11.50	19.00	6.86	0.026	44	0.026
8.00	11.00	19.00	6.36	0.019	41	0.019
15.00	10.50	19.50	6.02	0.014	39	0.014
30.00	10.00	19.50	5.52	0.010	36	0.010
60.00	8.50	19.50	4.02	0.007	26	0.007
120.00	8.00	20.00	3.68	0.005	24	0.005
240.00	7.50	20.00	3.18	0.003	20	0.003
1322.00	6.50	19.50	2.02	0.001	13	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.57	0.57	96
#20	0.033	0.84	0.63	1.20	92
#40	0.017	0.42	0.75	1.95	87
#60	0.010	0.25	0.69	2.64	83
#100	0.006	0.15	1.28	3.92	75
#200	0.003	0.07	2.22	6.14	61
Pan			9.41	15.55	0

Total Dry Weight of Sample = 129.76

D85 : 0.3150 mm
D60 : 0.0716 mm
D50 : 0.0399 mm
D30 : 0.0079 mm
D15 : 0.0018 mm
D10 : 0.0010 mm

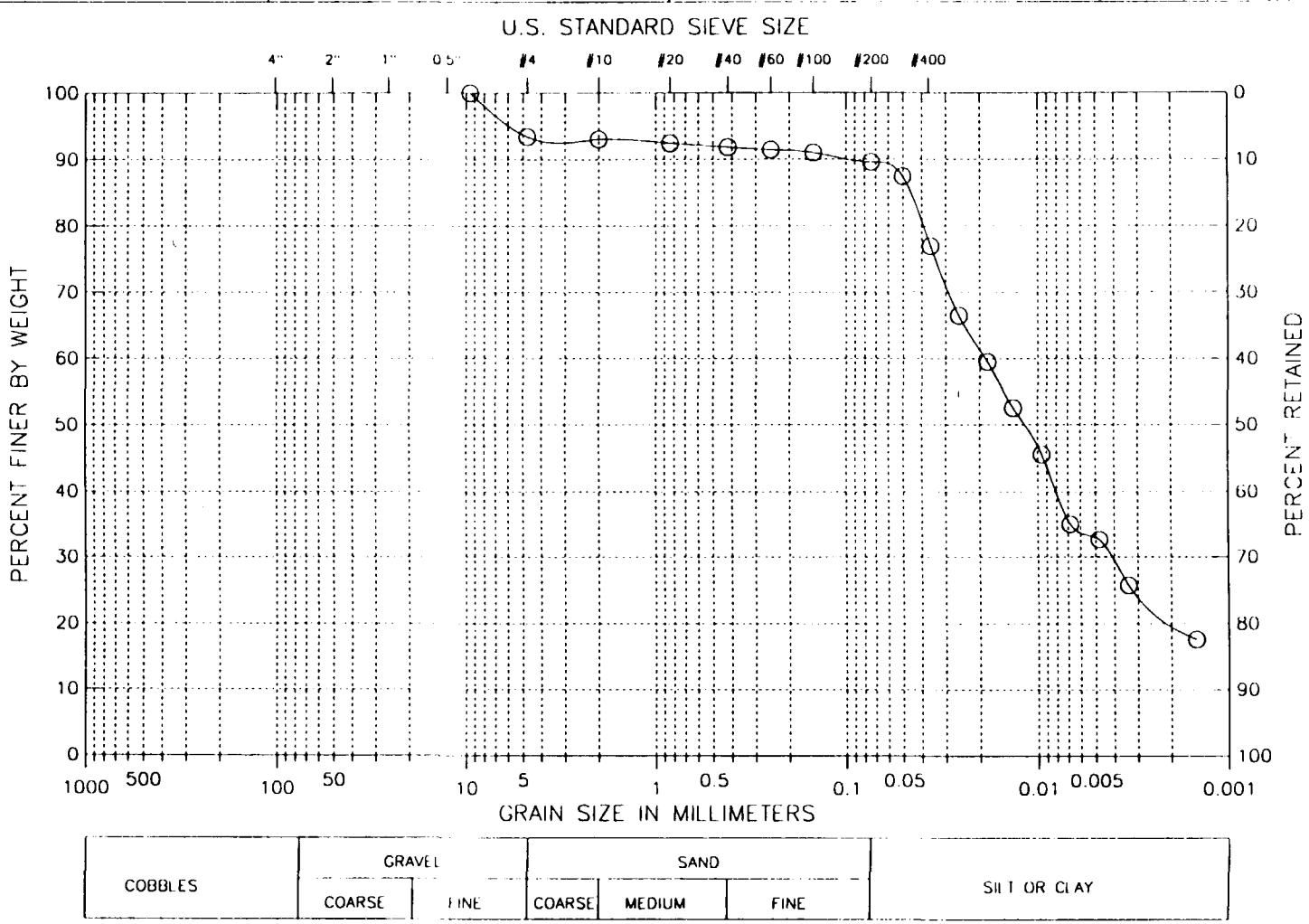
Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

LPX-SD-2052-000.5-01

Boring No. :
Sample No.: D00991
Test Method ASTM D 422
Filename : 991

Project : Tetra Tech NUS; Centerdale; N0191
Project No.: GTX-2607
Location: Centerdale, RI
Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :
Wet, black organic silt

Figure 39

LPX-SD-2052-000.5-01

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; N0191 Filename : 991
Project No. : GTX-2607 Depth : ---
Boring No. : --- Test Date : 11/17/99 Elevation : ---
Sample No. : D00991 Test Method : ASTM D 422 Tested by : NJH/MED
Location : Centerdale, RI Checked by : GTT
Soil Description : Wet, black organic silt
Remarks : ---

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 13.34 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	17.00	19.50	12.52	0.050	87	0.050
2.00	15.50	19.50	11.02	0.036	77	0.036
4.00	14.00	19.50	9.52	0.026	66	0.026
8.00	13.00	19.50	8.52	0.018	59	0.018
15.00	12.00	19.50	7.52	0.013	53	0.013
30.00	11.00	19.50	6.52	0.010	46	0.010
60.00	9.50	19.50	5.02	0.007	35	0.007
120.00	9.00	20.00	4.68	0.005	33	0.005
246.00	8.00	20.00	3.68	0.003	26	0.003
1304.00	7.00	19.50	2.52	0.001	18	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.88	0.88	93
#10	0.079	2.00	0.05	0.93	93
#20	0.033	0.84	0.08	1.01	92
#40	0.017	0.42	0.08	1.09	92
#60	0.010	0.25	0.05	1.14	91
#100	0.006	0.15	0.06	1.20	91
#200	0.003	0.07	0.19	1.39	90
Pan			11.95	13.34	0

Total Dry Weight of Sample = 132.86

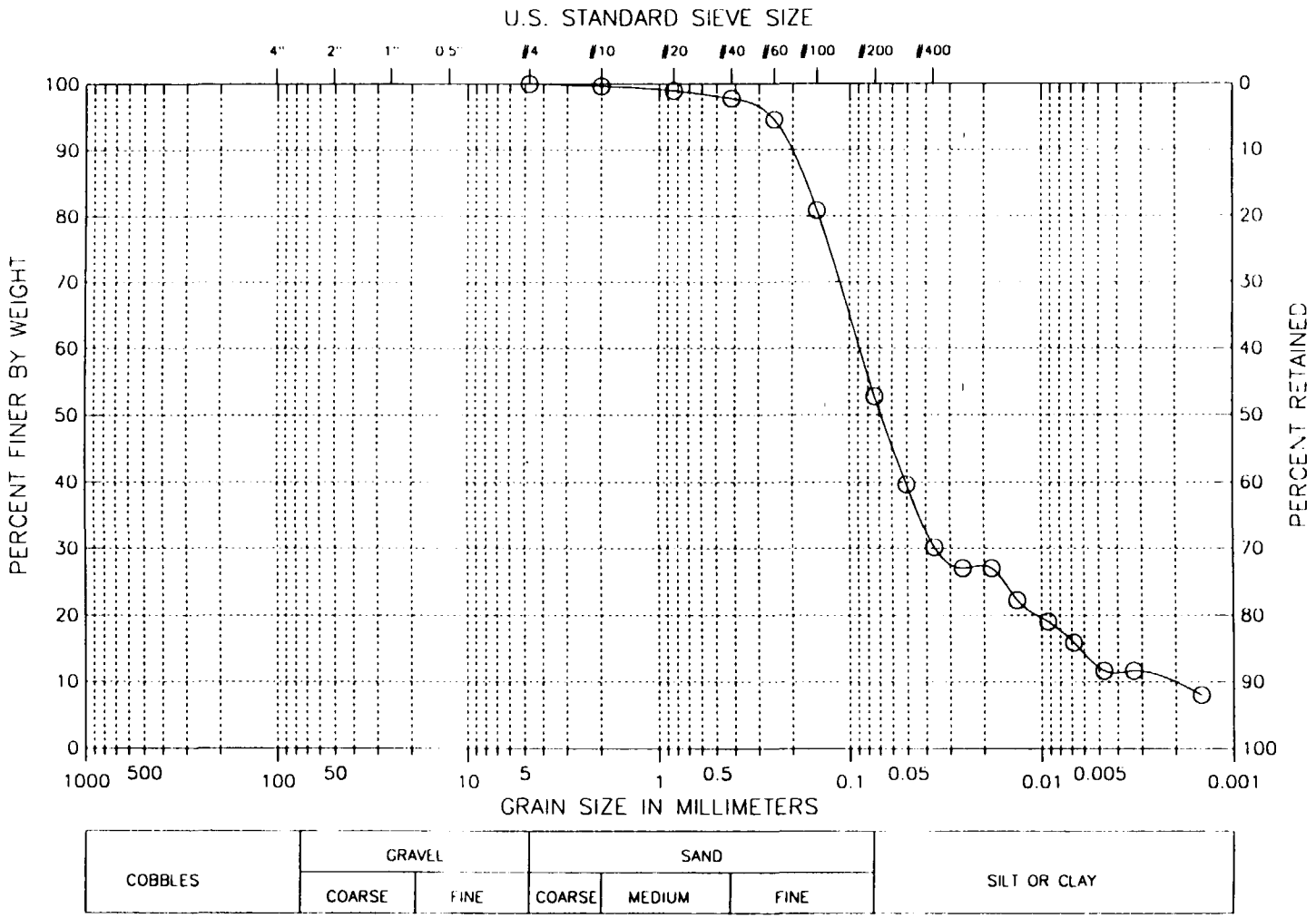
D85 : 0.0467 mm
D60 : 0.0187 mm
D50 : 0.0119 mm
D30 : 0.0042 mm
D15 : N/A
D10 : N/A

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

LPX-SD-2053-000.5-01

Boring No. : ---	Project : Tetra Tech NUS; Centerdale; N0191
Sample No.: D00992	Project No.: GTX-2607
Test Method ASTM D 422	Location: Centerdale, RI
Filename : 992	Date : Fri Dec 03 1999



Classification :

Remarks :

Visual Description :

Wet, black sandy organic silt

Figure 40

LPX-SD-2053-0005-01

Fri Dec 03 14:50:29 1999 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Tetra Tech NUS; Centerdale; NJ191
Project No. : GTX-2607
Boring No. : ---
Sample No. : D00992
Location : Centerdale, RI
Soil Description : Wet, black sandy organic silt
Remarks : ---

Depth : ---
Test Date : 11/17/99
Test Method : ASTM D 422

Filename : 992
Elevation : ---
Tested by : NJH/MED
Checked by : GTT

HYDROMETER

Hydrometer ID : 257525
Weight of air-dried soil = 31.5 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	17.00	19.50	12.52	0.050	40	0.050
2.00	14.00	19.50	9.52	0.036	30	0.036
4.00	13.00	19.50	8.52	0.026	27	0.026
8.00	13.00	19.50	8.52	0.018	27	0.018
15.00	11.50	19.50	7.02	0.013	22	0.013
32.00	10.50	19.50	6.02	0.009	19	0.009
60.00	9.50	19.50	5.02	0.007	16	0.007
125.00	8.00	20.00	3.68	0.005	12	0.005
255.00	8.00	20.00	3.68	0.003	12	0.003
1313.00	7.00	19.50	2.52	0.001	8	0.001

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.11	0.11	100
#20	0.033	0.84	0.22	0.33	99
#40	0.017	0.42	0.37	0.70	98
#60	0.010	0.25	1.02	1.72	95
#100	0.006	0.15	4.33	6.05	81
#200	0.003	0.07	8.88	14.93	53
Pan			16.68	31.61	0

Total Dry Weight of Sample = 151.57

D85 : 0.1742 mm
D60 : 0.0886 mm
D50 : 0.0683 mm
D30 : 0.0357 mm
D15 : 0.0063 mm
D10 : 0.0023 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

APPENDIX D

SURFACE WATER RESULTS

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SW-2029-01		APB-SW-2029-01F		APB-SW-2034-01		APB-SW-2034-01F		APC-SW-2035-01		APC-SW-2035-01F	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2034		APB-SD-2034		APC-SD-2035		APC-SD-2035	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/29/99		10/29/99		11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None		None	
Semivolatile Organic Analysis (UG/L)	AQB41				AQB56				AQB57			
1,1'-Biphenyl	10	U		NA	10	U		NA	10	U		NA
2,2'-oxybis(1-Chloropropane)	10	UJ		NA	10	U		NA	10	U		NA
2,4,5-Trichlorophenol	25	U		NA	25	U		NA	25	U		NA
2,4,6-Trichlorophenol	10	U		NA	10	U		NA	10	U		NA
2,4-Dichlorophenol	10	U		NA	10	U		NA	10	U		NA
2,4-Dimethylphenol	10	UJ		NA	10	U		NA	10	U		NA
2,4-Dinitrophenol	25	UJ		NA	25	U		NA	25	U		NA
2,4-Dinitrotoluene	10	U		NA	10	U		NA	10	U		NA
2,6-Dinitrotoluene	10	U		NA	10	U		NA	10	U		NA
2-Chloronaphthalene	10	U		NA	10	U		NA	10	U		NA
2-Chlorophenol	10	U		NA	10	U		NA	10	U		NA
2-Methylnaphthalene	10	U		NA	10	U		NA	10	U		NA
2-Methylphenol	10	U		NA	10	U		NA	10	U		NA
2-Nitroaniline	25	U		NA	25	U		NA	25	U		NA
2-Nitrophenol	10	U		NA	10	U		NA	10	U		NA
3,3'-Dichlorobenzidine	10	U		NA	10	U		NA	10	U		NA
3-Nitroaniline	25	U		NA	25	U		NA	25	U		NA
4,6-Dinitro-2-methylphenol	25	U		NA	25	U		NA	25	U		NA
4-Bromophenyl-phenylether	10	U		NA	10	U		NA	10	U		NA
4-Chloro-3-methylphenol	10	U		NA	10	U		NA	10	U		NA
4-Chloroaniline	10	UJ		NA	10	U		NA	10	U		NA
4-Chlorophenyl-phenylether	10	U		NA	10	U		NA	10	U		NA
4-Methylphenol	10	U		NA	10	U		NA	10	U		NA
4-Nitroaniline	25	U		NA	25	U		NA	25	U		NA
4-Nitrophenol	25	UJ		NA	25	U		NA	25	U		NA
Acenaphthene	10	U		NA	10	U		NA	10	U		NA
Acenaphthylene	10	U		NA	10	U		NA	10	U		NA
Acetophenone	10	U		NA	10	U		NA	10	U		NA
Anthracene	10	U		NA	10	U		NA	10	U		NA
Atrazine	10	U		NA	10	U		NA	10	U		NA
Benzaldehyde	10	UJ		NA	10	U		NA	10	U		NA
Benzo(a)anthracene	10	U		NA	10	U		NA	10	U		NA
Benzo(a)pyrene	10	U		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SW-2029-01		APB-SW-2029-01F		APB-SW-2034-01		APB-SW-2034-01F		APC-SW-2035-01		APC-SW-2035-01F	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2034		APB-SD-2034		APC-SD-2035		APC-SD-2035	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/29/99		10/29/99		11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None		None	
Benzo(b)fluoranthene	10	U		NA	10	U		NA	10	U		NA
Benzo(g,h,i)perylene	10	U		NA	10	U		NA	10	U		NA
Benzo(k)fluoranthene	10	U		NA	10	U		NA	10	U		NA
Bis(2-Chloroethoxy)methane	10	U		NA	10	U		NA	10	U		NA
Bis(2-Chloroethyl)ether	10	U		NA	10	U		NA	10	U		NA
bis(2-Ethylhexyl)phthalate	10	U		NA	10	U		NA	10	U		NA
Butylbenzylphthalate	10	U		NA	10	U		NA	10	U		NA
Caprolactam	10	U		NA	10	U		NA	10	U		NA
Carbazole	10	U		NA	10	U		NA	10	U		NA
Chrysene	10	U		NA	10	U		NA	10	U		NA
Di-n-Butylphthalate	10	U		NA	10	U		NA	10	U		NA
Di-n-octylphthalate	10	UJ		NA	10	U		NA	10	U		NA
Dibenzo(a,h)anthracene	10	U		NA	10	U		NA	10	U		NA
Dibenzofuran	10	U		NA	10	U		NA	10	U		NA
Diethylphthalate	10	U		NA	10	U		NA	10	U		NA
Dimethylphthalate	10	U		NA	10	U		NA	10	U		NA
Fluoranthene	10	U		NA	10	U		NA	10	U		NA
Fluorene	10	U		NA	10	U		NA	10	U		NA
Hexachlorobenzene	10	U		NA	10	U		NA	10	U		NA
Hexachlorobutadiene	10	UJ		NA	10	U		NA	10	U		NA
Hexachlorocyclopentadiene	10	U		NA	10	U		NA	10	U		NA
Hexachloroethane	10	U		NA	10	U		NA	10	U		NA
Indeno(1,2,3-cd)pyrene	10	U		NA	10	U		NA	10	U		NA
Isophorone	10	U		NA	10	U		NA	10	U		NA
N-Nitroso-di-n-propylamine	10	U		NA	10	U		NA	10	U		NA
N-Nitroso-diphenylamine	10	UJ		NA	10	U		NA	10	U		NA
Naphthalene	10	U		NA	10	U		NA	10	U		NA
Nitrobenzene	10	U		NA	10	U		NA	10	U		NA
Pentachlorophenol	25	U		NA	25	U		NA	25	U		NA
Phenanthrene	10	U		NA	10	U		NA	10	U		NA
Phenol	10	U		NA	10	UJ		NA	10	U		NA
Pyrene	10	U		NA	10	UJ		NA	10	U		NA
Total PAH	10	U		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SW-2029-01		APB-SW-2029-01F		APB-SW-2034-01		APB-SW-2034-01F		APC-SW-2035-01		APC-SW-2035-01F	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2034		APB-SD-2034		APC-SD-2035		APC-SD-2035	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/29/99		10/29/99		11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)	**AQB41**				**AQB56**				**AQB57**			
4,4'-DDD	0.10	U		NA	0.10	U		NA	0.10	U		NA
4,4'-DDE	0.10	U		NA	0.10	U		NA	0.10	U		NA
4,4'-DDT	0.10	U		NA	0.10	U		NA	0.10	U		NA
Aldrin	0.05	U		NA	0.011	J		NA	0.059			NA
alpha-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
alpha-Chlordane	0.05	U		NA	0.05	U		NA	0.05	U		NA
Aroclor, Total	2.0	U		NA	2.0	U		NA	2.0	U		NA
Aroclor-1016	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1221	2.0	U		NA	2.0	U		NA	2.0	U		NA
Aroclor-1232	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1242	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1248	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1254	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1260	1.0	U		NA	1.0	U		NA	1.0	U		NA
beta-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
delta-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
Dieldrin	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endosulfan I	0.05	U		NA	0.05	U		NA	0.05	U		NA
Endosulfan II	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endosulfan Sulfate	0.10	U		NA	0.0028	J		NA	0.10	U		NA
Endrin	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endrin Aldehyde	0.10	U		NA	0.002	J		NA	0.0032	J		NA
Endrin Ketone	0.10	U		NA	0.10	U		NA	0.10	U		NA
gamma-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
gamma-Chlordane	0.05	U		NA	0.05	U		NA	0.05	U		NA
Heptachlor	0.05	U		NA	0.05	U		NA	0.05	U		NA
Heptachlor Epoxide	0.05	U		NA	0.05	U		NA	0.05	U		NA
Methoxychlor	0.50	U		NA	0.50	U		NA	0.50	U		NA
Toxaphene	5.0	U		NA	5.0	U		NA	5.0	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SW-2029-01		APB-SW-2029-01F		APB-SW-2034-01		APB-SW-2034-01F		APC-SW-2035-01		APC-SW-2035-01F	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2034		APB-SD-2034		APC-SD-2035		APC-SD-2035	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/29/99		10/29/99		11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None		None	
Dioxin Analysis (PG/L)	D00944				D00979				D00980			
1,2,3,4,6,7,8-HpCDD	2190	J		NA	10.3	J		NA	4.7	J		NA
1,2,3,4,6,7,8-HpCDF	580	J		NA	3.7	J		NA	2.4	J		NA
1,2,3,4,7,8,9-HpCDF	50.0	J		NA	1.3	U		NA	1.6	UJ		NA
1,2,3,4,7,8-HxCDD	28.3	EMPC		NA	1.0	U		NA	1.4	UJ		NA
1,2,3,4,7,8-HxCDF	42.7	J		NA	0.70	U		NA	1.0	UJ		NA
1,2,3,6,7,8-HxCDD	95.3	J		NA	0.90	U		NA	1.3	UJ		NA
1,2,3,6,7,8-HxCDF	34.2	J		NA	0.60	U		NA	0.80	UJ		NA
1,2,3,7,8,9-HxCDD	93.5	J		NA	1.0	U		NA	1.3	UJ		NA
1,2,3,7,8,9-HxCDF	0.00	UJ		NA	0.80	U		NA	1.0	UJ		NA
1,2,3,7,8-PeCDD	14.0	EMPC		NA	1.4	U		NA	1.9	UJ		NA
1,2,3,7,8-PeCDF	36.4	EMPC		NA	1.3	U		NA	1.7	UJ		NA
1,2,4,5,7,8-hexachloro(9H)xanthene	223.37	J		NA	0.00	U		NA	0.00	U		NA
2,3,4,6,7,8-HxCDF	43.6	J		NA	0.70	U		NA	0.90	UJ		NA
2,3,4,7,8-PeCDF	18.3	J		NA	1.3	U		NA	1.7	UJ		NA
2,3,7,8-TCDD	4000	J		NA	4.9	EMPC		NA	2.4	UJ		NA
2,3,7,8-TCDF	30.9	J		NA	1.3	UJ		NA	2.0	UJ		NA
OCDD	14890	J		NA	59.8	J		NA	30.5	J		NA
OCDF	1180	J		NA	5.1	J		NA	6.5	J		NA
Total HpCDD	4130	J		NA	17.9	J		NA	8.6	J		NA
Total HpCDF	1400	J		NA	3.7	J		NA	2.4	J		NA
Total HxCDD	626	J		NA	1.0	UJ		NA	1.3	UJ		NA
Total HxCDF	741	J		NA	0.70	UJ		NA	0.90	UJ		NA
Total PeCDD	49.5	J		NA	1.4	UJ		NA	1.9	UJ		NA
Total PeCDF	270	J		NA	1.3	UJ		NA	1.7	UJ		NA
Total TCDD	4100	J		NA	4.9	EMPC		NA	2.4	UJ		NA
Total TCDF	234	J		NA	1.3	UJ		NA	2.0	UJ		NA
Toxicity Equivalency	4090			NA	6.4			NA	3.1			NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APB-SW-2029-01		APB-SW-2029-01F		APB-SW-2034-01		APB-SW-2034-01F		APC-SW-2035-01		APC-SW-2035-01F	
Sample Location	APB-SD-2029		APB-SD-2029		APB-SD-2034		APB-SD-2034		APC-SD-2035		APC-SD-2035	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/29/99		10/29/99		11/3/99		11/3/99		11/3/99		11/3/99	
QC Identifier	None		None		None		None		None		None	
TAL Metal Analysis (UG/L)	MAMF80		MAMF81		MAMG02		MAMB83		MAMB84		MAMB85	
Aluminum	5070		14.0	U	122		53.4	J	95.2		89.0	
Antimony	5.0	U	5.0	U	2.1	UJ	2.1	UJ	9.4	UJ	2.1	UJ
Arsenic	12.5		6.0	U	2.2	U	2.2	U	5.6		2.2	U
Barium	144	J	217		19.0	U	222		19.1		234	
Beryllium	2.0	U	1.0	U	0.10	UJ	0.10	U	0.10	UJ	0.10	U
Cadmium	1.0	U	1.0	U	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	20100		16300		7640		8120		7230		8790	
Chromium	42.0		1.0	U	1.0	U	0.30	U	1.5	U	0.80	U
Cobalt	5.4		1.0	U	0.60	U	0.60	U	0.60	J	0.60	U
Copper	83.1		4.7		6.1		2.5		2.6		3.6	
Iron	113000		435		431		239		404		251	
Lead	156		2.0	U	3.3	U	1.1	U	2.6	UJ	1.1	U
Magnesium	3730		2280		1240		1300		1190		1440	
Manganese	2600		1570		105		60.6		64.8		60.5	
Mercury	0.20	U	0.20	U	0.10	U	0.10	U	0.10	U	0.10	U
Nickel	34.3	J	7.3		2.8		2.2	J	1.3	U	1.3	U
Potassium	2520	J	1890	J	2420		2550		2160		2560	
Selenium	10.8		5.3		1.8	U	1.8	U	3.1	J	1.8	U
Silver	1.0	U	1.7	J	0.40	U	0.40	U	0.40	U	0.40	U
Sodium		R	30100		19200		24200		19600		26900	
Thallium	12.1		8.9	UJ	2.2	J	2.1	U	2.1	U	2.1	U
Vanadium	18.3		2.0	U	0.50	U	0.50	U	0.80	J	0.50	U
Zinc	500		100	J	37.4		95.4		15.2	J	75.5	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SW-2036-01		APC-DU-110399A		APC-SW-2036-01-MAX		APC-SW-2036-01F		CMW-SW-2016-01	
Sample Location	APC-SD-2036		APC-SD-2036		APC-SD-2036		APC-SD-2036		CMW-SD-2016	
Interval	0 0-0 0		0 0-0 0		0 0-0.0		0 0-0.0		0 0-0 0	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99		10/26/00	
QC Identifier	Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		None		None	
Semivolatile Organic Analysis (UG/L)	AQB54		AQB55		AQB55				AQB34	
1,1'-Biphenyl	10	U	10	U	10	U		NA	10	U
2,2'-oxybis(1-Chloropropane)	10	UJ	10	UJ	10	U		NA	10	UJ
2,4,5-Trichlorophenol	25	U	25	U	25	U		NA	25	U
2,4,6-Trichlorophenol	10	U	10	U	10	U		NA	10	U
2,4-Dichlorophenol	10	U	10	U	10	U		NA	10	U
2,4-Dimethylphenol	10	U	10	U	10	U		NA	10	UJ
2,4-Dinitrophenol	25	UJ	25	UJ	25	U		NA	25	UJ
2,4-Dinitrotoluene	10	U	10	U	10	U		NA	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U		NA	10	U
2-Chloronaphthalene	10	U	10	U	10	U		NA	10	U
2-Chlorophenol	10	U	10	U	10	U		NA	10	U
2-Methylnaphthalene	10	U	10	U	10	U		NA	10	U
2-Methylphenol	10	U	10	U	10	U		NA	10	U
2-Nitroaniline	25	U	25	U	25	U		NA	25	U
2-Nitrophenol	10	U	10	U	10	U		NA	10	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U		NA	10	U
3-Nitroaniline	25	U	25	U	25	U		NA	25	U
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U		NA	25	U
4-Bromophenyl-phenylether	10	U	10	U	10	U		NA	10	U
4-Chloro-3-methylphenol	10	U	10	U	10	U		NA	10	U
4-Chloroaniline	10	U	10	U	10	U		NA	10	UJ
4-Chlorophenyl-phenylether	10	U	10	U	10	U		NA	10	U
4-Methylphenol	10	U	10	U	10	U		NA	10	U
4-Nitroaniline	25	U	25	U	25	U		NA	25	U
4-Nitrophenol	25	U	25	U	25	U		NA	25	UJ
Acenaphthene	10	U	10	U	10	U		NA	10	U
Acenaphthylene	10	U	10	U	10	U		NA	10	U
Acetophenone	10	U	10	U	10	U		NA	10	U
Anthracene	10	U	10	U	10	U		NA	10	U
Atrazine	10	U	10	U	10	U		NA	10	U
Benzaldehyde	10	UJ	10	UJ	10	U		NA	10	UJ
Benzo(a)anthracene	10	U	10	U	10	U		NA	10	U
Benzo(a)pyrene	10	U	10	U	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SW-2036-01		APC-DU-110399A		APC-SW-2036-01-MAX		APC-SW-2036-01F		CMW-SW-2016-01	
Sample Location	APC-SD-2036		APC-SD-2036		APC-SD-2036		APC-SD-2036		CMW-SD-2016	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99		10/26/99	
QC Identifier	Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		None		None	
Benzo(b)fluoranthene	10	U	10	U	10	U		NA	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U		NA	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U		NA	10	U
Bis(2-Chloroethoxy)methane	10	U	10	U	10	U		NA	10	U
Bis(2-Chloroethyl)ether	10	UJ	10	UJ	10	U		NA	10	U
bis(2-Ethylhexyl)phthalate	10	U	10	U	10	U		NA	10	U
Butylbenzylphthalate	10	U	10	U	10	U		NA	10	U
Caprolactam	10	U	10	U	10	U		NA	10	U
Carbazole	10	U	10	U	10	U		NA	10	U
Chrysene	10	U	10	U	10	U		NA	10	U
Di-n-Butylphthalate	10	U	10	U	10	U		NA	10	U
Di-n-octylphthalate	10	U	10	U	10	U		NA	10	UJ
Dibenzo(a,h)anthracene	10	U	10	U	10	U		NA	10	U
Dibenzofuran	10	U	10	U	10	U		NA	10	U
Diethylphthalate	10	U	10	U	10	U		NA	10	U
Dimethylphthalate	10	U	10	U	10	U		NA	10	U
Fluoranthene	10	U	10	U	10	U		NA	10	U
Fluorene	10	U	10	U	10	U		NA	10	U
Hexachlorobenzene	10	U	10	U	10	U		NA	10	U
Hexachlorobutadiene	10	UJ	10	U	10	U		NA	10	U
Hexachlorocyclopentadiene	10	U	10	U	10	U		NA	10	U
Hexachloroethane	10	U	10	U	10	U		NA	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U		NA	10	U
Isophorone	10	UJ	10	UJ	10	U		NA	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	10	U		NA	10	U
N-Nitroso-diphenylamine	10	U	10	U	10	U		NA	10	UJ
Naphthalene	10	U	10	U	10	U		NA	10	U
Nitrobenzene	10	U	10	U	10	U		NA	10	U
Pentachlorophenol	25	UJ	25	UJ	25	U		NA	25	U
Phenanthrene	10	U	10	U	10	U		NA	10	U
Phenol	10	U	10	U	10	U		NA	10	U
Pyrene	10	U	10	U	10	U		NA	10	U
Total PAH	10	U	10	U	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SW-2036-01		APC DU-110399A		APC-SW-2036-01-MAX		APC-SW-2036-01F		CMW-SW-2016-01	
Sample Location	APC-SD-2036		APC-SD-2036		APC-SD-2036		APC-SD-2036		CMW-SD-2016	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99		10/26/99	
QC Identifier	Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		None		None	
Pesticide/PCB Analysis (UG/L)	AQB54		AQB55		AQB55				AQB34	
4,4'-DDD	0 10	U	0 10	U	0 10	U		NA	0 10	U
4,4'-DDE	0 10	U	0 10	U	0 10	U		NA	0 10	U
4,4'-DDT	0 10	U	0 10	U	0 10	U		NA	0 10	U
Aldrin	0 043	J	0 05	U	0 05	U		NA	0 05	U
alpha-BHC	0 043	J	0 05	U	0 05	U		NA	0 05	U
alpha-Chlordane	0 05	U	0 05	U	0 05	U		NA	0 05	U
Aroclor, Total	2 0	U	2 0	U	2 0	U		NA	2 0	U
Aroclor-1016	1 0	U	1 0	U	1 0	U		NA	1 0	U
Aroclor-1221	2 0	U	2 0	U	2 0	U		NA	2 0	U
Aroclor-1232	1 0	U	1 0	U	1 0	U		NA	1 0	U
Aroclor-1242	1 0	U	1 0	U	1 0	U		NA	1 0	U
Aroclor-1248	1 0	U	1 0	U	1 0	U		NA	1 0	U
Aroclor-1254	1 0	U	1 0	U	1 0	U		NA	1 0	U
Aroclor-1260	1 0	U	1 0	U	1 0	U		NA	1 0	U
beta-BHC	0 05	U	0 05	U	0 05	U		NA	0 05	U
delta-BHC	0 05	U	0 0059	J	0 05	U		NA	0 05	U
Dieldrin	0 10	U	0 10	U	0 10	U		NA	0 10	U
Endosulfan I	0 05	U	0 05	U	0 05	U		NA	0 05	U
Endosulfan II	0 10	U	0 10	U	0 10	U		NA	0 10	U
Endosulfan Sulfate	0 10	U	0 10	U	0 10	U		NA	0 10	U
Endrin	0 10	U	0 10	U	0 10	U		NA	0 10	U
Endrin Aldehyde	0 10	U	0 0016	J	0 10	U		NA	0 10	U
Endrin Ketone	0 10	U	0 10	U	0 10	U		NA	0 10	U
gamma-BHC	0 05	U	0 05	U	0 05	U		NA	0 05	U
gamma-Chlordane	0 05	U	0 05	U	0 05	U		NA	0 05	U
Heptachlor	0 05	U	0 05	U	0 05	U		NA	0 05	U
Heptachlor Epoxide	0 05	U	0 05	U	0 05	U		NA	0 05	U
Methoxychlor	0 50	U	0 50	U	0 50	U		NA	0 50	U
Toxaphene	5 0	U	5 0	U	5 0	U		NA	5 0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SW-2036-01		APC-DU-110399A		APC-SW-2036-01-MAX		APC-SW-2036-01F		CMW-SW-2016-01	
Sample Location	APC-SD-2036		APC-SD-2036		APC-SD-2036		APC-SD-2036		CMW-SD-2016	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99		10/26/99	
QC Identifier	Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		None		None	
Dioxin Analysis (PG/L)	D00977		D00978		D00978				D00908	
1,2,3,4,6,7,8-HpCDD	13.7	J	9.3	J	13.7			NA	12.0	J
1,2,3,4,6,7,8-HpCDF	1.7	U	3.0	EMPC	1.7	U		NA	2.5	U
1,2,3,4,7,8,9-HpCDF	0.00	U	0.00	U		NA		NA	3.3	U
1,2,3,4,7,8-HxCDD	2.0	U	1.6	U	2.0	U		NA	2.9	U
1,2,3,4,7,8-HxCDF	1.4	U	1.1	U	1.4	U		NA	1.8	U
1,2,3,6,7,8-HxCDD	1.8	U	1.5	U	1.8	U		NA	2.7	U
1,2,3,6,7,8-HxCDF	1.2	U	1.0	U	1.2	U		NA	1.7	U
1,2,3,7,8,9-HxCDD	1.9	U	1.6	U	1.9	U		NA	2.7	U
1,2,3,7,8,9-HxCDF	1.5	U	1.2	U	1.5	U		NA	2.0	U
1,2,3,7,8-PeCDD	2.9	U	2.3	U	2.9	U		NA	3.4	U
1,2,3,7,8-PeCDF	2.5	U	1.8	U	2.5	U		NA	3.1	U
1,2,4,5,7,8-hexachloro(9H)xanthene	0.00	U	0.00	U		NA		NA	0.00	U
2,3,4,6,7,8-HxCDF	1.3	U	1.1	U	1.3	U		NA	1.8	U
2,3,4,7,8-PeCDF	2.5	U	1.8	U	2.5	U		NA	3.1	U
2,3,7,8-TCDD	3.3	UJ	5.0	EMPC	5.0			NA	4.2	UJ
2,3,7,8-TCDF	0.00	UJ	2.0	UJ	2.0	U		NA	3.8	UJ
OCDD	96.2	J	49.7	J	96.2			NA	74.7	J
OCDF	6.1	J	6.0	EMPC	6.1			NA	14.5	J
Total HpCDD	27.5	J	15.0	J	27.5			NA	12.0	J
Total HpCDF	2.0	UJ	4.4	J	4.4			NA	0.00	UJ
Total HxCDD	1.9	UJ	1.6	UJ	1.9	U		NA	4.7	EMPC
Total HxCDF	1.4	UJ	0.00	UJ	1.4	U		NA	1.8	UJ
Total PeCDD	2.9	UJ	2.3	UJ	2.9	U		NA	3.4	UJ
Total PeCDF	2.5	UJ	0.00	UJ	2.5	U		NA	3.1	UJ
Total TCDD	3.3	UJ	5.0	EMPC	5.0			NA	4.2	UJ
Total TCDF	2.9	UJ	0.00	UJ	2.9	U		NA	3.8	UJ
Toxicity Equivalency	4.4		7.3		7.3			NA	5.7	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	APC-SW-2036-01		APC-DU-110399A		APC-SW-2036-01-MAX		APC-SW-2036-01F		CMW-SW-2016-01	
Sample Location	APC-SD-2036		APC-SD-2036		APC-SD-2036		APC-SD-2036		CMW-SD-2016	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/3/99		11/3/99		11/3/99		11/3/99		10/26/99	
QC Identifier	Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		Field Dup. APC-SW-2036-01		None		None	
TAL Metal Analysis (UG/L)	MAMG00				MAMG00		MAMG01		MAMF66	
Aluminum	88 2			NA	88 2		117		90 5	U
Antimony	2 1	UJ		NA	2 1	U	2 1	UJ	5 0	U
Arsenic	2 4	J		NA	2 4		2 2	U	8 7	J
Barium	18 4			NA	18 4		193		25 0	
Beryllium	0 10	U		NA	0 10	U	0 10	U	1 0	U
Cadmium	0 30	U		NA	0 30	U	0 30	U	1 0	U
Calcium	7460			NA	7460		7680		19700	
Chromium	0 50	UJ		NA	0 50	U	1 0	U	1 0	U
Cobalt	0 60	U		NA	0 60	U	0 60	U	1 0	U
Copper	16 8			NA	16 8		2 1		10 4	
Iron	442			NA	442		329		628	
Lead	5 6	J		NA	5 6		2 0	UJ	2 0	U
Magnesium	1200			NA	1200		1270		2290	
Manganese	128			NA	128		95 2		14 1	
Mercury	0 10	U		NA	0 10	U	0 10	U	0 20	U
Nickel	2 9			NA	2 9		2 2	J	4 4	
Potassium	2410			NA	2410		2490		2650	J
Selenium	1 8	U		NA	1 8	U	3 0	UJ	5 0	U
Silver	0 40	U		NA	0 40	U	0 40	U	1 0	J
Sodium	18300			NA	18300		23300		20900	
Thallium	2 1	U		NA	2 1	U	4 4	U	7 0	U
Vanadium	0 50	U		NA	0 50	U	0 80	J	2 0	U
Zinc	34 3			NA	34 3		81 4		68 0	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2018-01F		CMW-SW-2019-01		CMW-SW-2019-01F		CMW-SW-2020-01		CMW-SW-2020-01F		CMW-SW-2021-01	
Sample Location	CMW-SD-2018		CMW-SD-2019		CMW-SD-2019		CMW-SD-2020		CMW-SD-2020		CMW-SD-2021	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/26/99		10/26/99		10/26/99		10/26/99		10/26/99	
QC Identifier	None		None		None		None		None		None	
Semivolatile Organic Analysis (UG/L)			AQB35				AQB33				AQB32	
1,1'-Biphenyl		NA	10	U		NA	10	U		NA	10	U
2,2'-oxybis(1-Chloropropane)		NA	10	UJ		NA	10	UJ		NA	10	UJ
2,4,5-Trichlorophenol		NA	25	U		NA	25	U		NA	25	U
2,4,6-Trichlorophenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dichlorophenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dimethylphenol		NA	10	UJ		NA	10	UJ		NA	10	UJ
2,4-Dinitrophenol		NA	25	UJ		NA	25	UJ		NA	25	UJ
2,4-Dinitrotoluene		NA	10	U		NA	10	U		NA	10	U
2,6-Dinitrotoluene		NA	10	U		NA	10	U		NA	10	U
2-Chloronaphthalene		NA	10	U		NA	10	U		NA	10	U
2-Chlorophenol		NA	10	U		NA	10	U		NA	10	U
2-Methylnaphthalene		NA	10	U		NA	10	U		NA	10	U
2-Methylphenol		NA	10	U		NA	10	U		NA	10	U
2-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
2-Nitrophenol		NA	10	U		NA	10	U		NA	10	U
3,3'-Dichlorobenzidine		NA	10	U		NA	10	U		NA	10	U
3-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
4,6-Dinitro-2-methylphenol		NA	25	U		NA	25	U		NA	25	U
4-Bromophenyl-phenylether		NA	10	U		NA	10	U		NA	10	U
4-Chloro-3-methylphenol		NA	10	U		NA	10	U		NA	10	U
4-Chloroaniline		NA	10	UJ		NA	10	UJ		NA	10	U
4-Chlorophenyl-phenylether		NA	10	U		NA	10	U		NA	10	U
4-Methylphenol		NA	10	U		NA	10	U		NA	10	U
4-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
4-Nitrophenol		NA	25	UJ		NA	25	UJ		NA	25	UJ
Acenaphthene		NA	10	U		NA	10	U		NA	10	U
Acenaphthylene		NA	10	U		NA	10	U		NA	10	U
Acetophenone		NA	10	U		NA	10	U		NA	10	U
Anthracene		NA	10	U		NA	10	U		NA	10	U
Atrazine		NA	10	U		NA	10	U		NA	10	U
Benzaldehyde		NA	10	UJ		NA	10	UJ		NA	10	UJ
Benzo(a)anthracene		NA	10	U		NA	10	U		NA	10	U
Benzo(a)pyrene		NA	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2018-01F		CMW-SW-2019-01		CMW-SW-2019-01F		CMW-SW-2020-01		CMW-SW-2020-01F		CMW-SW-2021-01	
Sample Location	CMW-SD-2018		CMW-SD-2019		CMW-SD-2019		CMW-SD-2020		CMW-SD-2020		CMW-SD-2021	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/26/99		10/26/99		10/26/99		10/26/99		10/26/99	
QC Identifier	None		None		None		None		None		None	
Benzo(b)fluoranthene		NA	10	U		NA	10	U		NA	10	U
Benzo(g,h,i)perylene		NA	10	U		NA	10	U		NA	10	U
Benzo(k)fluoranthene		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethoxy)methane		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethyl)ether		NA	10	U		NA	10	U		NA	10	U
bis(2-Ethylhexyl)phthalate		NA	10	U		NA	10	U		NA	10	U
Butylbenzylphthalate		NA	10	U		NA	10	U		NA	10	U
Caprolactam		NA	10	U		NA	10	U		NA	10	U
Carbazole		NA	10	U		NA	10	U		NA	10	U
Chrysene		NA	10	U		NA	10	U		NA	10	U
Di-n-Butylphthalate		NA	10	U		NA	10	U		NA	10	U
Di-n-octylphthalate		NA	10	UJ		NA	10	UJ		NA	10	UJ
Dibenzo(a,h)anthracene		NA	10	U		NA	10	U		NA	10	U
Dibenzofuran		NA	10	U		NA	10	U		NA	10	U
Diethylphthalate		NA	10	U		NA	10	U		NA	10	U
Dimethylphthalate		NA	10	U		NA	10	U		NA	10	U
Fluoranthene		NA	10	U		NA	10	U		NA	10	U
Fluorene		NA	10	U		NA	10	U		NA	10	U
Hexachlorobenzene		NA	10	U		NA	10	U		NA	10	U
Hexachlorobutadiene		NA	10	U		NA	10	U		NA	10	U
Hexachlorocyclopentadiene		NA	10	U		NA	10	U		NA	10	U
Hexachloroethane		NA	10	U		NA	10	U		NA	10	U
Indeno(1,2,3-cd)pyrene		NA	10	U		NA	10	U		NA	10	U
Isophorone		NA	10	U		NA	10	U		NA	10	U
N-Nitroso-di-n-propylamine		NA	10	U		NA	10	U		NA	10	U
N-Nitroso-diphenylamine		NA	10	UJ		NA	10	UJ		NA	10	UJ
Naphthalene		NA	10	U		NA	10	U		NA	10	U
Nitrobenzene		NA	10	U		NA	10	U		NA	10	U
Pentachlorophenol		NA	25	U		NA	25	U		NA	25	U
Phenanthrene		NA	10	U		NA	10	U		NA	10	U
Phenol		NA	2	J		NA	10	U		NA	10	U
Pyrene		NA	10	U		NA	10	U		NA	10	U
Total PAH		NA	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2018-01F		CMW-SW-2019-01		CMW-SW-2019-01F		CMW-SW-2020-01		CMW-SW-2020-01F		CMW-SW-2021-01	
Sample Location	CMW-SD-2018		CMW-SD-2019		CMW-SD-2019		CMW-SD-2020		CMW-SD-2020		CMW-SD-2021	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/26/99		10/26/99		10/26/99		10/26/99		10/26/99	
QC Identifier	None		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)			AQB35				AQB33				AQB32	
4,4'-DDD		NA	0.10	U		NA	0.10	U		NA	0.10	U
4,4'-DDE		NA	0.10	U		NA	0.10	U		NA	0.10	U
4,4'-DDT		NA	0.10	U		NA	0.10	U		NA	0.10	U
Aldrin		NA	0.05	U		NA	0.05	U		NA	0.05	U
alpha-BHC		NA	0.05	U		NA	0.05	U		NA	0.05	U
alpha-Chlordane		NA	0.05	U		NA	0.05	U		NA	0.05	U
Aroclor, Total		NA	4.6			NA	2.0	U		NA	2.0	U
Aroclor-1016		NA	1.0	U		NA	1.0	U		NA	1.0	U
Aroclor-1221		NA	2.0	U		NA	2.0	U		NA	2.0	U
Aroclor-1232		NA	1.0	U		NA	1.0	U		NA	1.0	U
Aroclor-1242		NA	1.0	U		NA	1.0	U		NA	1.0	U
Aroclor-1248		NA	1.0	U		NA	1.0	U		NA	1.0	U
Aroclor-1254		NA	4.6			NA	1.0	U		NA	1.0	U
Aroclor-1260		NA	1.0	U		NA	1.0	U		NA	1.0	U
beta-BHC		NA	0.05	U		NA	0.05	U		NA	0.05	U
delta-BHC		NA	0.05	U		NA	0.05	U		NA	0.05	U
Dieldrin		NA	0.10	U		NA	0.10	U		NA	0.10	U
Endosulfan I		NA	0.05	U		NA	0.05	U		NA	0.05	U
Endosulfan II		NA	0.10	U		NA	0.10	U		NA	0.10	U
Endosulfan Sulfate		NA	0.49			NA	0.10	U		NA	0.10	U
Endrin		NA	0.21			NA	0.10	U		NA	0.10	U
Endrin Aldehyde		NA	0.10	U		NA	0.10	U		NA	0.10	U
Endrin Ketone		NA	0.10	U		NA	0.10	U		NA	0.10	U
gamma-BHC		NA	0.05	U		NA	0.05	U		NA	0.05	U
gamma-Chlordane		NA	0.12			NA	0.05	U		NA	0.05	U
Heptachlor		NA	0.05	U		NA	0.05	U		NA	0.05	U
Heptachlor Epoxide		NA	0.05	U		NA	0.05	U		NA	0.05	U
Methoxychlor		NA	0.50	U		NA	0.50	U		NA	0.50	U
Toxaphene		NA	5.0	U		NA	5.0	U		NA	5.0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2018-01F		CMW-SW-2019-01		CMW-SW-2019-01F		CMW-SW-2020-01		CMW-SW-2020-01F		CMW-SW-2021-01	
Sample Location	CMW-SD-2018		CMW-SD-2019		CMW-SD-2019		CMW-SD-2020		CMW-SD-2020		CMW-SD-2021	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/26/99		10/26/99		10/26/99		10/26/99		10/26/99	
QC Identifier	None		None		None		None		None		None	
Dioxin Analysis (PG/L)			D00910				D00905				D00903	
1,2,3,4,6,7,8-HpCDD		NA	4760			NA	122			NA	7.9	J
1,2,3,4,6,7,8-HpCDF		NA	991			NA	29.5	J		NA	4.3	J
1,2,3,4,7,8,9-HpCDF		NA	59.6	EMPC		NA	4.3	U		NA	3.3	UJ
1,2,3,4,7,8-HxCDD		NA	81.7			NA	3.5	U		NA	2.8	UJ
1,2,3,4,7,8-HxCDF		NA	73.0			NA	2.8	EMPC		NA	1.8	UJ
1,2,3,6,7,8-HxCDD		NA	232			NA	6.4	EMPC		NA	2.6	UJ
1,2,3,6,7,8-HxCDF		NA	57.9			NA	2.8	J		NA	1.7	UJ
1,2,3,7,8,9-HxCDD		NA	196			NA	7.2	J		NA	2.6	UJ
1,2,3,7,8,9-HxCDF		NA	6.3	J		NA	2.6	U		NA	2.2	J
1,2,3,7,8-PeCDD		NA	35.4	J		NA	4.1	U		NA	3.4	UJ
1,2,3,7,8-PeCDF		NA	14.1	J		NA	2.5	U		NA	2.8	UJ
1,2,4,5,7,8-hexachloro(9H)xanthene		NA	398	J		NA	0.00	U		NA	0.00	U
2,3,4,6,7,8-HxCDF		NA	78.2			NA	2.3	U		NA	1.8	UJ
2,3,4,7,8-PeCDF		NA	28.2	J		NA	2.5	U		NA	2.8	UJ
2,3,7,8-TCDD		NA	12740	J		NA	28.5			NA	3.7	UJ
2,3,7,8-TCDF		NA	53.1	J		NA	3.1	UJ		NA	3.1	UJ
OCDD		NA	27700	J		NA	726			NA	44.5	UJ
OCDF		NA	1950	J		NA	56.0	J		NA	20.9	J
Total HpCDD		NA	8090	J		NA	223	J		NA	13.9	J
Total HpCDF		NA	2310	J		NA	56.3	J		NA	9.1	J
Total HxCDD		NA	1380	J		NA	7.2	J		NA	9.6	EMPC
Total HxCDF		NA	1370	J		NA	28.2	J		NA	4.8	J
Total PeCDD		NA	104	J		NA	4.1	UJ		NA	3.4	UJ
Total PeCDF		NA	493	J		NA	8.9	EMPC		NA	2.8	UJ
Total TCDD		NA	12870	J		NA	28.5	J		NA	3.7	UJ
Total TCDF		NA	555	J		NA	3.1	UJ		NA	3.1	UJ
Toxicity Equivalency		NA	12900			NA	35.3			NA	0.34	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2018-01F		CMW-SW-2019-01		CMW-SW-2019-01F		CMW-SW-2020-01		CMW-SW-2020-01F		CMW-SW-2021-01	
Sample Location	CMW-SD-2018		CMW-SD-2019		CMW-SD-2019		CMW-SD-2020		CMW-SD-2020		CMW-SD-2021	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/26/99		10/26/99		10/26/99		10/26/99		10/26/99	
QC Identifier	None		None		None		None		None		None	
TAL Metal Analysis (UG/L)	**MAMF67**		**MAMF68**		**MAMF69**		**MAMF64**		**MAMF65**		**MAMF63**	
Aluminum	79.7	U	6190		46.3	U	174		26.0	UJ	82.4	U
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Arsenic	7.8	J	10.9		8.1	J	6.1	J	7.4	J	9.5	J
Barium	23.3	U	91.7		183		17.8		206		22.4	
Beryllium	1.0	U	1.1	UJ	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	18300		23500		22700		15900		15000		14300	
Chromium	1.0	U	23.1		1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U
Copper	12.7		91.4		16.0		16.6		5.7		14.8	
Iron	514		29100		7950		1540		760		3810	
Lead	2.0	U	223		2.0	U	2.0	U	2.0	U	2.0	U
Magnesium	2130		4750		2860		1410		1270		1280	
Manganese	9.6		1030		862		226		272		244	
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	4.0		18.8		8.2		5.5		3.8	J	5.5	
Potassium	2610	J	5370	J	4410	J	1650	J	1690	J	1490	J
Selenium	5.0	U	5.0	U	5.0	U	7.8		5.0	U	5.0	U
Silver	1.0	U	1.5	J	1.0	U	1.0	U	1.0	U	1.0	U
Sodium	21000		39700		47500		19000		23800		15600	
Thallium	7.0	U	8.9	UJ	7.0	U	7.0	U	7.0	U	7.0	U
Vanadium	2.0	U	22.0		2.0	U	2.0	U	2.0	U	2.0	U
Zinc	59.6	J	292		78.2	J	35.4		88.7	J	28.7	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2021-01F		CMW-SW-2022-01		CMW-SW-2022-01F		CMW-SW-2023-01		CMW-DU-102799B	
Sample Location	CMW-SD-2021		CMW-SD-2022		CMW-SD-2022		CMW-SD-2023		CMW-SD-2023	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	None		None		None		Field Dup. CMW-SW-2023-01		Field Dup CMW-SW-2023-01	
Semivolatile Organic Analysis (UG/L)			AQB39				AQB36		AQB38	
1,1'-Biphenyl		NA	10	U		NA	10	U	10	U
2,2'-oxybis(1-Chloropropane)		NA	10	UJ		NA	10	UJ	10	UJ
2,4,5-Trichlorophenol		NA	25	U		NA	25	U	25	U
2,4,6-Trichlorophenol		NA	10	U		NA	10	U	10	U
2,4-Dichlorophenol		NA	10	U		NA	10	U	10	U
2,4-Dimethylphenol		NA	10	UJ		NA	10	UJ	10	UJ
2,4-Dinitrophenol		NA	25	UJ		NA	25	UJ	25	UJ
2,4-Dinitrotoluene		NA	10	U		NA	10	U	10	U
2,6-Dinitrotoluene		NA	10	U		NA	10	U	10	U
2-Chloronaphthalene		NA	10	U		NA	10	U	10	U
2-Chlorophenol		NA	10	U		NA	10	U	10	U
2-Methylnaphthalene		NA	10	U		NA	10	U	10	U
2-Methylphenol		NA	10	U		NA	10	U	10	U
2-Nitroaniline		NA	25	U		NA	25	U	25	U
2-Nitrophenol		NA	10	U		NA	10	U	10	U
3,3'-Dichlorobenzidine		NA	10	U		NA	10	U	10	U
3-Nitroaniline		NA	25	U		NA	25	U	25	U
4,6-Dinitro-2-methylphenol		NA	25	U		NA	25	U	25	U
4-Bromophenyl-phenylether		NA	10	U		NA	10	U	10	U
4-Chloro-3-methylphenol		NA	10	U		NA	10	U	10	U
4-Chloroaniline		NA	10	UJ		NA	10	UJ	10	UJ
4-Chlorophenyl-phenylether		NA	10	U		NA	10	U	10	U
4-Methylphenol		NA	10	U		NA	10	U	10	U
4-Nitroaniline		NA	25	U		NA	25	U	25	U
4-Nitrophenol		NA	25	UJ		NA	25	UJ	25	UJ
Acenaphthene		NA	10	U		NA	10	U	10	U
Acenaphthylene		NA	10	U		NA	10	U	10	U
Acetophenone		NA	10	U		NA	10	U	10	U
Anthracene		NA	10	U		NA	10	U	10	U
Atrazine		NA	10	U		NA	10	U	10	U
Benzaldehyde		NA	10	UJ		NA	10	UJ	10	UJ
Benzo(a)anthracene		NA	10	U		NA	10	U	10	U
Benzo(a)pyrene		NA	10	U		NA	10	U	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2021-01F		CMW-SW-2022-01		CMW-SW-2022-01F		CMW-SW-2023-01		CMW-DU-1027998	
Sample Location	CMW-SD-2021		CMW-SD-2022		CMW-SD-2022		CMW-SD-2023		CMW-SD-2023	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	None		None		None		Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01	
Benzo(b)fluoranthene		NA	10	U		NA	10	U	10	U
Benzo(g,h,i)perylene		NA	10	U		NA	10	U	10	U
Benzo(k)fluoranthene		NA	10	U		NA	10	U	10	U
Bis(2-Chloroethoxy)methane		NA	10	U		NA	10	U	10	U
Bis(2-Chloroethyl)ether		NA	10	U		NA	10	U	10	U
bis(2-Ethylhexyl)phthalate		NA	10	U		NA	10	U	10	U
Butylbenzylphthalate		NA	10	U		NA	10	U	10	U
Caprolactam		NA	10	U		NA	10	U	10	U
Carbazole		NA	10	U		NA	10	U	10	U
Chrysene		NA	10	U		NA	10	U	10	U
Di-n-Butylphthalate		NA	10	U		NA	10	U	10	U
Di-n-octylphthalate		NA	10	UJ		NA	10	UJ	10	UJ
Dibenzo(a,h)anthracene		NA	10	U		NA	10	U	10	U
Dibenzofuran		NA	10	U		NA	10	U	10	U
Diethylphthalate		NA	10	U		NA	10	U	10	U
Dimethylphthalate		NA	10	U		NA	10	U	10	U
Fluoranthene		NA	10	U		NA	10	U	10	U
Fluorene		NA	10	U		NA	10	U	10	U
Hexachlorobenzene		NA	10	U		NA	10	U	10	U
Hexachlorobutadiene		NA	10	U		NA	10	U	10	U
Hexachlorocyclopentadiene		NA	10	U		NA	10	U	10	U
Hexachloroethane		NA	10	U		NA	10	U	10	U
Indeno(1,2,3-cd)pyrene		NA	10	U		NA	10	U	10	U
Isophorone		NA	10	U		NA	10	U	10	U
N-Nitroso-di-n-propylamine		NA	10	U		NA	10	U	10	U
N-Nitroso-diphenylamine		NA	10	UJ		NA	10	UJ	10	UJ
Naphthalene		NA	10	U		NA	10	U	10	U
Nitrobenzene		NA	10	U		NA	10	U	10	U
Pentachlorophenol		NA	25	U		NA	25	U	25	U
Phenanthrene		NA	10	U		NA	10	U	10	U
Phenol		NA	10	U		NA	10	U	10	U
Pyrene		NA	10	U		NA	10	U	10	U
Total PAH		NA	10	U		NA	10	U	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2021-01F		CMW-SW-2022-01		CMW-SW-2022-01F		CMW-SW-2023-01		CMW-DU-102799B	
Sample Location	CMW-SD-2021		CMW-SD-2022		CMW-SD-2022		CMW-SD-2023		CMW-SD-2023	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/26/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	None		None		None		Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01	
Pesticide/PCB Analysis (UG/L)			AQB39				AQB36		AQB38	
4,4'-DDD		NA	0 10	U		NA	0 10	U	0 10	U
4,4'-DDE		NA	0 10	U		NA	0 10	U	0 10	U
4,4'-DDT		NA	0 10	U		NA	0 10	U	0 10	U
Aldrin		NA	0 05	U		NA	0 05	U	0 05	U
alpha-BHC		NA	0 05	U		NA	0 05	U	0 05	U
alpha-Chlordane		NA	0 05	U		NA	0 05	U	0 05	U
Aroclor, Total		NA	2 0	U		NA	2 0	U	2 0	U
Aroclor-1016		NA	1 0	U		NA	1 0	U	1 0	U
Aroclor-1221		NA	2 0	U		NA	2 0	U	2 0	U
Aroclor-1232		NA	1 0	U		NA	1 0	U	1 0	U
Aroclor-1242		NA	1 0	U		NA	1 0	U	1 0	U
Aroclor-1248		NA	1 0	U		NA	1 0	U	1 0	U
Aroclor-1254		NA	1 0	U		NA	1 0	U	1 0	U
Aroclor-1260		NA	1 0	U		NA	1 0	U	1 0	U
beta-BHC		NA	0 05	U		NA	0 05	U	0 05	U
delta-BHC		NA	0 05	U		NA	0 05	U	0 05	U
Dieldrin		NA	0 10	U		NA	0 10	U	0 10	U
Endosulfan I		NA	0 05	U		NA	0 05	U	0 05	U
Endosulfan II		NA	0 10	U		NA	0 10	U	0 10	U
Endosulfan Sulfate		NA	0 10	U		NA	0 10	U	0 10	U
Endrin		NA	0 10	U		NA	0 10	U	0 10	U
Endrin Aldehyde		NA	0 10	U		NA	0 10	U	0 10	U
Endrin Ketone		NA	0 10	U		NA	0 10	U	0 10	U
gamma-BHC		NA	0 05	U		NA	0 05	U	0 05	U
gamma-Chlordane		NA	0 05	U		NA	0 05	U	0 05	U
Heptachlor		NA	0 05	U		NA	0 05	U	0 05	U
Heptachlor Epoxide		NA	0 05	U		NA	0 05	U	0 05	U
Methoxychlor		NA	0 50	U		NA	0 50	U	0 50	U
Toxaphene		NA	5 0	U		NA	5 0	U	5 0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2021-01F		CMW-SW-2022-01		CMW-SW-2022-01F		CMW-SW-2023-01		CMW-DU-102799B	
Sample Location	CMW-SD-2021		CMW-SD-2022		CMW-SD-2022		CMW-SD-2023		CMW-SD-2023	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/26/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	None		None		None		Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01	
Dioxin Analysis (PG/L)							D00915		D00916	
1,2,3,4,6,7,8-HpCDD		NA		NA		NA	53.7		50.9	J
1,2,3,4,6,7,8-HpCDF		NA		NA		NA	14.7	J	13.1	J
1,2,3,4,7,8,9-HpCDF		NA		NA		NA	3.5	U	3.1	U
1,2,3,4,7,8-HxCDD		NA		NA		NA	2.9	U	2.6	U
1,2,3,4,7,8-HxCDF		NA		NA		NA	1.9	U	1.7	U
1,2,3,6,7,8-HxCDD		NA		NA		NA	2.7	U	3.5	J
1,2,3,6,7,8-HxCDF		NA		NA		NA	1.8	U	1.7	U
1,2,3,7,8,9-HxCDD		NA		NA		NA	2.7	U	2.4	U
1,2,3,7,8,9-HxCDF		NA		NA		NA	2.2	U	2.0	U
1,2,3,7,8-PeCDD		NA		NA		NA	3.5	U	2.6	U
1,2,3,7,8-PeCDF		NA		NA		NA	3.2	U	2.2	U
1,2,4,5,7,8-hexachloro(9H)xanthene		NA		NA		NA	0.00	U	0.00	U
2,3,4,6,7,8-HxCDF		NA		NA		NA	1.9	U	1.8	U
2,3,4,7,8-PeCDF		NA		NA		NA	3.2	U	2.2	U
2,3,7,8-TCDD		NA		NA		NA	22.9	J	15.9	J
2,3,7,8-TCDF		NA		NA		NA	3.3	U	2.7	U
OCDD		NA		NA		NA	315		279	
OCDF		NA		NA		NA	31.1	J	29.2	J
Total HpCDD		NA		NA		NA	97.5	J	89.1	J
Total HpCDF		NA		NA		NA	33.0	J	27.2	J
Total HxCDD		NA		NA		NA	6.4	EMPC	10.9	J
Total HxCDF		NA		NA		NA	12.8	J	12.8	J
Total PeCDD		NA		NA		NA	3.5	UJ	2.6	UJ
Total PeCDF		NA		NA		NA	3.2	UJ	2.2	UJ
Total TCDD		NA		NA		NA	22.9	J	15.9	J
Total TCDF		NA		NA		NA	3.3	UJ	2.7	UJ
Toxicity Equivalency		NA		NA		NA	27.1		19.5	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2021-01F		CMW-SW-2022-01		CMW-SW-2022-01F		CMW-SW-2023-01		CMW-DU-102799B	
Sample Location	CMW-SD-2021		CMW-SD-2022		CMW-SD-2022		CMW-SD-2023		CMW-SD-2023	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0.0-0 0		0.0-0 0	
Date Sampled	10/26/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	None		None		None		Field Dup. CMW-SW-2023-01		Field Dup CMW-SW-2023-01	
TAL Metal Analysis (UG/L)	**MAMF62**		**MAMF74**		**MAMF75**		**MAMF70**			
Aluminum	39.0	U	36 2	U	23 4	U	198			NA
Antimony	5 0	U	5 0	U	5 0	U	5.0	U		NA
Arsenic	7 7	J	7.3	J	7.9	J	8 5	J		NA
Barium	8 3	U	33 1		136	U	37 2			NA
Beryllium	2 5	U	1 1	U	1 1	U	1 0	U		NA
Cadmium	1 0	U	1.0	U	1 0	U	1.0	U		NA
Calcium	5380		21000		21300		34100			NA
Chromium	1 0	U	1.0	U	1 0	U	1 0	U		NA
Cobalt	1.0	U	1 0	U	1 0	U	1 0	U		NA
Copper	2 2		2 5		3 2		17.0			NA
Iron	547		1110		877		1430			NA
Lead	2.0	U	2 0	U	2.0	U	11 5			NA
Magnesium	462		2180		2230		5810			NA
Manganese	88.7		172		170		249			NA
Mercury	0 20	U	0 20	U	0 20	U	0 20	U		NA
Nickel	3 4	J	4 4		4 6		4 5			NA
Potassium	613	J	2730	J	3150	J	4440	J		NA
Selenium	5.0	U	5 9		5 0	U	5 0	U		NA
Silver	1 6	J	1 2	J	1 0	U	1 3	J		NA
Sodium	7610	U	37100		41900		22000			NA
Thallium	7 0	U	11 2	J	7 0	J	10 9			NA
Vanadium	2 0	U	2 0	U	2 0	U	2 0	U		NA
Zinc	11 8	UJ	27 9		105		32 6			NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2023-01-MAX		CMW-SW-2023-01F		CMW-SW-DU-102799B		CMW-SW-2023-01F-MAX		CMW-SW-2024-01	
Sample Location	CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0.0		0 0-0 0		0 0-0.0		0 0-0 0		0 0-0 0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		None	
Semivolatile Organic Analysis (UG/L)	AQB36								AQB37	
1,1'-Biphenyl	10	U			NA		NA		NA	10 U
2,2'-oxybis(1-Chloropropane)	10	U			NA		NA		NA	10 UJ
2,4,5-Trichlorophenol	25	U			NA		NA		NA	25 U
2,4,6-Trichlorophenol	10	U			NA		NA		NA	10 U
2,4-Dichlorophenol	10	U			NA		NA		NA	10 U
2,4-Dimethylphenol	10	U			NA		NA		NA	10 UJ
2,4-Dinitrophenol	25	U			NA		NA		NA	25 UJ
2,4-Dinitrotoluene	10	U			NA		NA		NA	10 U
2,6-Dinitrotoluene	10	U			NA		NA		NA	10 U
2-Chloronaphthalene	10	U			NA		NA		NA	10 U
2-Chlorophenol	10	U			NA		NA		NA	10 U
2-Methylnaphthalene	10	U			NA		NA		NA	10 U
2-Methylphenol	10	U			NA		NA		NA	10 U
2-Nitroaniline	25	U			NA		NA		NA	25 U
2-Nitrophenol	10	U			NA		NA		NA	10 U
3,3'-Dichlorobenzidine	10	U			NA		NA		NA	10 U
3-Nitroaniline	25	U			NA		NA		NA	25 U
4,6-Dinitro-2-methylphenol	25	U			NA		NA		NA	25 U
4-Bromophenyl-phenylether	10	U			NA		NA		NA	10 U
4-Chloro-3-methylphenol	10	U			NA		NA		NA	10 U
4-Chloroaniline	10	U			NA		NA		NA	10 UJ
4-Chlorophenyl-phenylether	10	U			NA		NA		NA	10 U
4-Methylphenol	10	U			NA		NA		NA	10 U
4-Nitroaniline	25	U			NA		NA		NA	25 U
4-Nitrophenol	25	U			NA		NA		NA	25 UJ
Acenaphthene	10	U			NA		NA		NA	10 U
Acenaphthylene	10	U			NA		NA		NA	10 U
Acetophenone	10	U			NA		NA		NA	10 U
Anthracene	10	U			NA		NA		NA	10 U
Atrazine	10	U			NA		NA		NA	10 U
Benzaldehyde	10	U			NA		NA		NA	10 U
Benzo(a)anthracene	10	U			NA		NA		NA	10 U
Benzo(a)pyrene	10	U			NA		NA		NA	10 U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2023-01-MAX		CMW-SW-2023-01F		CMW-SW-DU-102799B		CMW-SW-2023-01F-MAX		CMW-SW-2024-01	
Sample Location	CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/27/99		10/27/00	
QC Identifier	Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		None	
Benzo(b)fluoranthene	10	U		NA		NA		NA	10	U
Benzo(g,h,i)perylene	10	U		NA		NA		NA	10	U
Benzo(k)fluoranthene	10	U		NA		NA		NA	10	U
Bis(2-Chloroethoxy)methane	10	U		NA		NA		NA	10	U
Bis(2-Chloroethyl)ether	10	U		NA		NA		NA	10	U
bis(2-Ethylhexyl)phthalate	10	U		NA		NA		NA	10	U
Butylbenzylphthalate	10	U		NA		NA		NA	10	U
Caprolactam	10	U		NA		NA		NA	10	U
Carbazole	10	U		NA		NA		NA	10	U
Chrysene	10	U		NA		NA		NA	10	U
Di-n-Butylphthalate	10	U		NA		NA		NA	10	U
Di-n-octylphthalate	10	U		NA		NA		NA	10	UJ
Dibenzo(a,h)anthracene	10	U		NA		NA		NA	10	U
Dibenzofuran	10	U		NA		NA		NA	10	U
Diethylphthalate	10	U		NA		NA		NA	10	U
Dimethylphthalate	10	U		NA		NA		NA	10	U
Fluoranthene	10	U		NA		NA		NA	10	U
Fluorene	10	U		NA		NA		NA	10	U
Hexachlorobenzene	10	U		NA		NA		NA	10	U
Hexachlorobutadiene	10	U		NA		NA		NA	10	U
Hexachlorocyclopentadiene	10	U		NA		NA		NA	10	U
Hexachloroethane	10	U		NA		NA		NA	10	U
Indeno(1,2,3-cd)pyrene	10	U		NA		NA		NA	10	U
Isophorone	10	U		NA		NA		NA	10	U
N-Nitroso-di-n-propylamine	10	U		NA		NA		NA	10	U
N-Nitroso-diphenylamine	10	U		NA		NA		NA	10	UJ
Naphthalene	10	U		NA		NA		NA	10	U
Nitrobenzene	10	U		NA		NA		NA	10	U
Pentachlorophenol	25	U		NA		NA		NA	25	U
Phenanthrene	10	U		NA		NA		NA	10	U
Phenol	10	U		NA		NA		NA	10	U
Pyrene	10	U		NA		NA		NA	10	U
Total PAH	10	U		NA		NA		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2023-01-MAX		CMW-SW-2023-01F		CMW-SW-DU-102799B		CMW-SW-2023-01F-MAX		CMW-SW-2024-01	
Sample Location	CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0 0		0 0-0 0		0.0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		None	
Pesticide/PCB Analysis (UG/L)	AQB36								AQB37	
4,4'-DDD	0 10	U			NA		NA		0 10	U
4,4'-DDE	0 10	U			NA		NA		0 10	U
4,4'-DDT	0 10	U			NA		NA		0 10	U
Aldrin	0 05	U			NA		NA		0 05	U
alpha-BHC	0 05	U			NA		NA		0 05	U
alpha-Chlordane	0 05	U			NA		NA		0 05	U
Aroclor, Total	2 0	U			NA		NA		2 0	U
Aroclor-1016	1 0	U			NA		NA		1 0	U
Aroclor-1221	2 0	U			NA		NA		2 0	U
Aroclor-1232	1 0	U			NA		NA		1 0	U
Aroclor-1242	1 0	U			NA		NA		1 0	U
Aroclor-1248	1 0	U			NA		NA		1 0	U
Aroclor-1254	1 0	U			NA		NA		1 0	U
Aroclor-1260	1 0	U			NA		NA		1 0	U
beta-BHC	0 05	U			NA		NA		0 05	U
delta-BHC	0 05	U			NA		NA		0 05	U
Dieldrin	0 10	U			NA		NA		0 10	U
Endosulfan I	0 05	U			NA		NA		0 05	U
Endosulfan II	0 10	U			NA		NA		0 10	U
Endosulfan Sulfate	0 10	U			NA		NA		0 10	U
Endrin	0 10	U			NA		NA		0 10	U
Endrin Aldehyde	0 10	U			NA		NA		0 10	U
Endrin Ketone	0 10	U			NA		NA		0 10	U
gamma-BHC	0 05	U			NA		NA		0 05	U
gamma-Chlordane	0 05	U			NA		NA		0 05	U
Heptachlor	0 05	U			NA		NA		0 05	U
Heptachlor Epoxide	0 05	U			NA		NA		0 05	U
Methoxychlor	0 50	U			NA		NA		0 50	U
Toxaphene	5 0	U			NA		NA		5 0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2023-01-MAX		CMW-SW-2023-01F		CMW-SW-DU-102799B		CMW-SW-2023-01F-MAX		CMW-SW-2024-01	
Sample Location	CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2024	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		None	
Dioxin Analysis (PG/L)	D00915								D00917	
1,2,3,4,6,7,8-HpCDD	53 7			NA		NA		NA	442	
1,2,3,4,6,7,8-HpCDF	14 7			NA		NA		NA	172	
1,2,3,4,7,8,9-HpCDF	3 5	U		NA		NA		NA	15 5	J
1,2,3,4,7,8-HxCDD	2 9	U		NA		NA		NA	10 0	J
1,2,3,4,7,8-HxCDF	1 9	U		NA		NA		NA	16 5	J
1,2,3,6,7,8-HxCDD	2 7	U		NA		NA		NA	21 6	J
1,2,3,6,7,8-HxCDF	1 8	U		NA		NA		NA	15 5	EMPC
1,2,3,7,8,9-HxCDD	2 7	U		NA		NA		NA	22 0	J
1,2,3,7,8,9-HxCDF	2 2	U		NA		NA		NA	4 3	U
1,2,3,7,8-PeCDD	3 5	U		NA		NA		NA	5 6	U
1,2,3,7,8-PeCDF	3 2	U		NA		NA		NA	4 8	U
1,2,4,5,7,8-hexachloro(9H)xanthene		NA		NA		NA		NA	271	J
2,3,4,6,7,8-HxCDF	1 9	U		NA		NA		NA	16 1	J
2,3,4,7,8-PeCDF	3 2	U		NA		NA		NA	4 8	U
2,3,7,8-TCDD	22 9			NA		NA		NA	760	
2,3,7,8-TCDF	3 3	U		NA		NA		NA	11 7	
OCDD	315			NA		NA		NA	2990	
OCDF	31 1			NA		NA		NA	300	
Total HpCDD	97 5			NA		NA		NA	802	J
Total HpCDF	33 0			NA		NA		NA	377	J
Total HxCDD	10 9			NA		NA		NA	142	J
Total HxCDF	12 8			NA		NA		NA	218	J
Total PeCDD	3 5	U		NA		NA		NA	8 4	EMPC
Total PeCDF	3 2	U		NA		NA		NA	33 1	J
Total TCDD	22 9			NA		NA		NA	786	J
Total TCDF	3 3	U		NA		NA		NA	78 2	J
Toxicity Equivalency	27 1			NA		NA		NA	782	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2023-01-MAX		CMW-SW-2023-01F		CMW-SW-DU-1027098		CMW-SW-2023-01F-MAX		CMW-SW-2024-01	
Sample Location	CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2023		CMW-SD-2024	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/27/99		10/27/99		10/27/99		10/27/99		10/27/99	
QC Identifier	Field Dup. CMW-SW-2023-01		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		Field Dup. CMW-SW-2023-01F		None	
TAL Metal Analysis (UG/L)	MAMF70		MAMF71		MAMF76		MAMF71		MAMF72	
Aluminum	198		44.1	U	143		143		1220	
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Arsenic	8.5		8.4	J	8.0	J	8.4		9.3	J
Barium	37.2		196		36.9		196		48.7	
Beryllium	1.0	U	1.0	U	1.2	U	1.2	U	1.3	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	34100		37100		36100		37100		13700	
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	11.0	
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Copper	17.0		3.8		4.8		4.8		24.6	
Iron	1430		229		1010		1010		5020	
Lead	11.5		2.0	U	4.1	J	2.0	U	30.2	
Magnesium	5810		6240		5920		6240		2360	
Manganese	249		252		261		261		1100	
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	4.5		3.2		3.3	J	3.2		7.2	
Potassium	4440		4900	J	4550	J	4900		2880	J
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.3		1.8	J	1.8	J	1.8		1.5	J
Sodium	22000		27400		23000		27400		26900	
Thallium	10.9		7.0	U	7.0	U	7.0	U	14.5	
Vanadium	2.0	U	2.0	U	2.1	J	2.0	U	5.2	
Zinc	32.6		78.4		29.6		78.4		104	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2024-01F		CMW-SW-2026-01		CMW-SW-2026-01F		LPX-SW-2045-01		LPX-SW-DU-110899A	
Sample Location	CMW-SD-2024		CMW-SD-2026		CMW-SD-2026		LPX-SD-2045		LPX-SD-2045	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/27/99		10/26/99		10/26/99		11/8/99		11/8/99	
QC Identifier	None		None		None		Field Dup. LPX-SW-2045-01		Field Dup. LPX-SW-2045-01	
Semivolatile Organic Analysis (UG/L)			AQ840				AQ868		AQ867	
1,1'-Biphenyl		NA	10	U		NA	10	U	10	U
2,2'-oxybis(1-Chloropropane)		NA	10	UJ		NA	10	U	10	U
2,4,5-Trichlorophenol		NA	25	U		NA	25	U	25	U
2,4,6-Trichlorophenol		NA	10	U		NA	10	U	10	U
2,4-Dichlorophenol		NA	10	U		NA	10	U	10	U
2,4-Dimethylphenol		NA	10	UJ		NA	10	U	10	U
2,4-Dinitrophenol		NA	25	UJ		NA	25	UJ	25	UJ
2,4-Dinitrotoluene		NA	10	U		NA	10	U	10	U
2,6-Dinitrotoluene		NA	10	U		NA	10	U	10	U
2-Chloronaphthalene		NA	10	U		NA	10	U	10	U
2-Chlorophenol		NA	10	U		NA	10	U	10	U
2-Methylnaphthalene		NA	10	U		NA	10	U	10	U
2-Methylphenol		NA	10	U		NA	10	U	10	U
2-Nitroaniline		NA	25	U		NA	25	U	25	U
2-Nitrophenol		NA	10	U		NA	10	U	10	U
3,3'-Dichlorobenzidine		NA	10	U		NA	10	U	10	U
3-Nitroaniline		NA	25	U		NA	25	U	25	U
4,6-Dinitro-2-methylphenol		NA	25	U		NA	25	U	25	U
4-Bromophenyl-phenylether		NA	10	U		NA	10	U	10	U
4-Chloro-3-methylphenol		NA	10	U		NA	10	U	10	U
4-Chloroaniline		NA	10	UJ		NA	10	U	10	U
4-Chlorophenyl-phenylether		NA	10	U		NA	10	U	10	U
4-Methylphenol		NA	10	U		NA	10	U	10	U
4-Nitroaniline		NA	25	U		NA	25	U	25	U
4-Nitrophenol		NA	25	UJ		NA	25	U	25	U
Acenaphthene		NA	10	U		NA	10	U	10	U
Acenaphthylene		NA	10	U		NA	10	U	10	U
Acetophenone		NA	10	U		NA	10	U	10	U
Anthracene		NA	10	U		NA	10	U	10	U
Atrazine		NA	10	U		NA	10	U	10	U
Benzaldehyde		NA	10	UJ		NA	10	U	10	U
Benzo(a)anthracene		NA	10	U		NA	10	U	10	U
Benzo(a)pyrene		NA	10	U		NA	10	U	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2024-01F		CMW-SW-2026-01		CMW-SW-2026-01F		LPX-SW-2046-01		LPX-SW-DU-110899A	
Sample Location	CMW-SD-2024		CMW-SD-2026		CMW-SD-2026		LPX-SD-2046		LPX-SD-2046	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/27/99		10/28/99		10/28/99		11/8/99		11/8/99	
QC Identifier	None		None		None		Field Dup. LPX-SW-2046-01		Field Dup. LPX-SW-2046-01	
Benzo(b)fluoranthene		NA	10	U		NA	10	U	10	U
Benzo(g,h,i)perylene		NA	10	U		NA	10	U	10	U
Benzo(k)fluoranthene		NA	10	U		NA	10	U	10	U
Bis(2-Chloroethoxy)methane		NA	10	U		NA	10	U	10	U
Bis(2-Chloroethyl)ether		NA	10	U		NA	10	U	10	U
bis(2-Ethylhexyl)phthalate		NA	10	U		NA	10	U	10	U
Butylbenzylphthalate		NA	10	U		NA	10	U	10	U
Caprolactam		NA	10	U		NA	10	U	10	U
Carbazole		NA	10	U		NA	10	U	10	U
Chrysene		NA	10	U		NA	10	U	10	U
Di-n-Butylphthalate		NA	10	U		NA	10	U	10	U
Di-n-octylphthalate		NA	10	UJ		NA	10	U	10	U
Dibenzo(a,h)anthracene		NA	10	U		NA	10	U	10	U
Dibenzofuran		NA	10	U		NA	10	U	10	U
Diethylphthalate		NA	10	U		NA	10	U	10	U
Dimethylphthalate		NA	10	U		NA	10	U	10	U
Fluoranthene		NA	10	U		NA	10	U	10	U
Fluorene		NA	10	U		NA	10	U	10	U
Hexachlorobenzene		NA	10	U		NA	10	U	10	U
Hexachlorobutadiene		NA	10	U		NA	10	U	10	U
Hexachlorocyclopentadiene		NA	10	U		NA	10	U	10	U
Hexachloroethane		NA	10	U		NA	10	U	10	U
Indeno(1,2,3-cd)pyrene		NA	10	U		NA	10	U	10	U
Isophorone		NA	10	U		NA	10	U	10	U
N-Nitroso-di-n-propylamine		NA	10	U		NA	10	U	10	U
N-Nitroso-diphenylamine		NA	10	UJ		NA	10	U	10	U
Naphthalene		NA	10	U		NA	10	U	10	U
Nitrobenzene		NA	10	U		NA	10	U	10	U
Pentachlorophenol		NA	25	U		NA	25	U	25	U
Phenanthrene		NA	10	U		NA	10	U	10	U
Phenol		NA	10	U		NA	10	U	10	U
Pyrene		NA	10	U		NA	10	U	10	U
Total PAH		NA	10	U		NA	10	U	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2024-01F		CMW-SW-2025-01		CMW-SW-2025-01F		LPX-SW-2045-01		LPX-SW-DU-110899A	
Sample Location	CMW-SD-2024		CMW-SD-2025		CMW-SD-2025		LPX-SD-2045		LPX-SD-2045	
Interval	0 0-0 0		0 0-0.0		0.0-0.0		0 0-0.0		0 0-0.0	
Date Sampled	10/27/99		10/28/99		10/28/99		11/8/99		11/8/99	
QC Identifier	None		None		None		Field Dup. LPX-SW-2045-01		Field Dup LPX-SW-2045-01	
Pesticide/PCB Analysis (UG/L)			AQB40				AQB68		AQB67	
4,4'-DDD		NA	0.10	U		NA	0 10	U	0 10	U
4,4'-DDE		NA	0.10	U		NA	0 10	U	0 10	U
4,4'-DDT		NA	0.10	U		NA	0 10	U	0 10	U
Aldrin		NA	0.05	U		NA	0 05	U	0 05	U
alpha-BHC		NA	0.05	U		NA	0.05	U	0 05	U
alpha-Chlordane		NA	0.05	U		NA	0.05	U	0.05	U
Aroclor, Total		NA	2.0	U		NA	2.0	U	2.0	U
Aroclor-1016		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1221		NA	2.0	U		NA	2.0	U	2.0	U
Aroclor-1232		NA	1.0	U		NA		NA		NA
Aroclor-1242		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1248		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1254		NA	1.0	U		NA	1.0	U	1 0	U
Aroclor-1260		NA	1.0	U		NA	1.0	U	1.0	U
beta-BHC		NA	0.05	U		NA	0.05	U	0 05	U
delta-BHC		NA	0.05	U		NA	0 05	U	0.05	U
Dieldrin		NA	0.10	U		NA	0.10	U	0 10	U
Endosulfan I		NA	0.05	U		NA	0.05	U	0.05	U
Endosulfan II		NA	0.10	U		NA	0.10	U	0 10	U
Endosulfan Sulfate		NA	0.10	U		NA	0.10	U	0.10	U
Endrin		NA	0.10	U		NA	0.10	U	0.10	U
Endrin Aldehyde		NA	0.10	U		NA		NA		NA
Endrin Ketone		NA	0.10	U		NA	0 10	U	0.10	U
gamma-BHC		NA	0.05	U		NA	0 05	U	0.05	U
gamma-Chlordane		NA	0.05	U		NA	0.05	U	0.05	U
Heptachlor		NA	0 05	U		NA	0.05	U	0 05	U
Heptachlor Epoxide		NA	0.05	U		NA	0 05	U	0 05	U
Methoxychlor		NA	0.50	U		NA	0 50	U	0.50	U
Toxaphene		NA	5.0	U		NA	5 0	U	5 0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2024-01F		CMW-SW-2025-01		CMW-SW-2026-01F		LPX-SW-2045-01		LPX-SW-DU-110899A	
Sample Location	CMW-SD-2024		CMW-SD-2026		CMW-SD-2026		LPX-SD-2045		LPX-SD-2045	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/27/99		10/28/99		10/28/99		11/8/99		11/8/99	
QC Identifier	None		None		None		Field Dup. LPX-SW-2045-01		Field Dup. LPX-SW-2045-01	
Dioxin Analysis (PG/L)			D00936				D01014		D01013	
1,2,3,4,6,7,8-HpCDD		NA	5.2	U		NA	5.5	U	17.0	U
1,2,3,4,6,7,8-HpCDF		NA	3.9	U		NA	2.6	U	9.7	U
1,2,3,4,7,8,9-HpCDF		NA	0.00	U		NA	2.2	U	12.6	U
1,2,3,4,7,8-HxCDD		NA	3.7	U		NA	1.8	U	10.4	U
1,2,3,4,7,8-HxCDF		NA	2.8	U		NA	1.3	EMPC	6.5	U
1,2,3,6,7,8-HxCDD		NA	3.5	U		NA	1.7	U	9.7	U
1,2,3,6,7,8-HxCDF		NA	2.6	U		NA	1.4	U	6.0	U
1,2,3,7,8,9-HxCDD		NA	3.6	U		NA	1.8	U	10.1	U
1,2,3,7,8,9-HxCDF		NA	3.2	U		NA	1.6	U	7.2	U
1,2,3,7,8-PeCDD		NA	3.1	U		NA	1.6	U	8.1	U
1,2,3,7,8-PeCDF		NA	2.9	U		NA	1.3	U	5.3	U
1,2,4,5,7,8-hexachloro(9H)xanthene		NA	0.00	U		NA	0.00	U	0.00	U
2,3,4,6,7,8-HxCDF		NA	2.8	U		NA	1.4	U	6.4	U
2,3,4,7,8-PeCDF		NA	3.0	U		NA	1.4	U	5.5	U
2,3,7,8-TCDD		NA	4.6	U		NA	7.3	U	6.4	U
2,3,7,8-TCDF		NA	0.00	UJ		NA	1.3	U	5.1	U
OCDD		NA	40.3	J		NA	35.5	U	37.2	UJ
OCDF		NA	6.4	U		NA	2.4	EMPC	25.0	UJ
Total HpCDD		NA	5.2	UJ		NA	8.9	EMPC	17.0	UJ
Total HpCDF		NA	4.4	UJ		NA	2.6	UJ	11.0	UJ
Total HxCDD		NA	3.6	UJ		NA	1.8	UJ	10.0	UJ
Total HxCDF		NA	2.8	UJ		NA	1.3	EMPC	6.5	UJ
Total PeCDD		NA	3.1	UJ		NA	1.6	UJ	18.6	EMPC
Total PeCDF		NA	2.9	UJ		NA	1.3	UJ	5.4	UJ
Total TCDD		NA	4.6	UJ		NA	7.3	UJ	6.4	UJ
Total TCDF		NA	3.7	UJ		NA	1.3	UJ	5.1	UJ
Toxicity Equivalency		NA	5.7			NA	6.5		11.7	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	CMW-SW-2024-01F		CMW-SW-2025-01		CMW-SW-2026-01F		LPX-SW-2045-01		LPX-SW-DU-110899A	
Sample Location	CMW-SD-2024		CMW-SD-2025		CMW-SD-2026		LPX-SD-2045		LPX-SD-2045	
Interval	0 0-0 0		0 0-0 0		0 0-0.0		0 0-0 0		0 0-0 0	
Date Sampled	10/27/99		10/28/99		10/28/99		11/8/99		11/8/99	
QC Identifier	None		None		None		Field Dup. LPX-SW-2045-01		Field Dup. LPX-SW-2045-01	
TAL Metal Analysis (UG/L)	**MAMF73**		**MAMF77**		**MAMF78**		**MALJ10**		**MALJ09**	
Aluminum	51.1	U	36.6	U	16.0	U	46.1	U	25.3	UJ
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Arsenic	11.3		7.2	J	10.7		6.0	U	6.0	U
Barium	254		37.8		211		15.6		15.2	
Beryllium	1.1	U	1.2	U	1.3	U	1.0	U	1.0	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	12100		36800		34900		7620		7750	
Chromium	1.0	U	1.0	U	1.0	U	3.7		1.0	U
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Copper	3.8		2.1		2.6		5.7		5.4	
Iron	525		562		323		307		165	
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Magnesium	2090		5920		5620		1250		1280	
Manganese	977		343		316		62.7		59.0	
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	4.3		4.3		3.8	J	3.5	J	2.0	U
Potassium	2970	J	4650	J	4360	J	1720		1770	
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.4	J	1.8	J	1.4	J	1.0	U	1.0	U
Sodium	31800		26100		27100		19700		20200	
Thallium	7.4	J	7.5	J	10.6	J	7.0	U	7.0	U
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Zinc	121		26.7		77.0		20.8		17.8	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2045-01-MAX		LPX-SW-2045-01F		LPX-SW-2046-01		LPX-SW-2046-01F		LPX-SW-2047-01		LPX-SW-2047-01F	
Sample Location	LPX-SD-2045		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046		LPX-SD-2047		LPX-SD-2047	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/8/99		11/8/99		11/8/99		11/8/99		11/8/99		11/8/99	
QC Identifier	Field Dup. LPX-SW-2045-01		None		None		None		None		None	
Semivolatile Organic Analysis (UG/L)	AQB67				AQB69				AQB64			
1,1'-Biphenyl	10	U		NA	10	UJ		NA	10	U		NA
2,2'-oxybis(1-Chloropropane)	10	U		NA	10	UJ		NA	10	U		NA
2,4,5-Trichlorophenol	25	U		NA	25	UJ		NA	25	U		NA
2,4,6-Trichlorophenol	10	U		NA	10	UJ		NA	10	U		NA
2,4-Dichlorophenol	10	U		NA	10	UJ		NA	10	U		NA
2,4-Dimethylphenol	10	U		NA	10	UJ		NA	10	U		NA
2,4-Dinitrophenol	25	U		NA	25	UJ		NA	25	UJ		NA
2,4-Dinitrotoluene	10	U		NA	10	UJ		NA	10	U		NA
2,6-Dinitrotoluene	10	U		NA	10	UJ		NA	10	U		NA
2-Chloronaphthalene	10	U		NA	10	UJ		NA	10	U		NA
2-Chlorophenol	10	U		NA	10	UJ		NA	10	U		NA
2-Methylnaphthalene	10	U		NA	10	UJ		NA	10	U		NA
2-Methylphenol	10	U		NA	10	UJ		NA	10	U		NA
2-Nitroaniline	25	U		NA	25	UJ		NA	25	U		NA
2-Nitrophenol	10	U		NA	10	UJ		NA	10	U		NA
3,3'-Dichlorobenzidine	10	U		NA	10	UJ		NA	10	U		NA
3-Nitroaniline	25	U		NA	25	UJ		NA	25	U		NA
4,6-Dinitro-2-methylphenol	25	U		NA	25	UJ		NA	25	U		NA
4-Bromophenyl-phenylether	10	U		NA	10	UJ		NA	10	U		NA
4-Chloro-3-methylphenol	10	U		NA	10	UJ		NA	10	U		NA
4-Chloroaniline	10	U		NA	10	UJ		NA	10	U		NA
4-Chlorophenyl-phenylether	10	U		NA	10	UJ		NA	10	U		NA
4-Methylphenol	10	U		NA	10	UJ		NA	10	U		NA
4-Nitroaniline	25	U		NA	25	UJ		NA	25	U		NA
4-Nitrophenol	25	U		NA	25	UJ		NA	25	U		NA
Acenaphthene	10	U		NA	10	UJ		NA	10	U		NA
Acenaphthylene	10	U		NA	10	UJ		NA	10	U		NA
Acetophenone	10	U		NA	10	UJ		NA	10	U		NA
Anthracene	10	U		NA	10	UJ		NA	10	U		NA
Atrazine	10	U		NA	10	UJ		NA	10	U		NA
Benzaldehyde	10	U		NA	10	UJ		NA	10	U		NA
Benzo(a)anthracene	10	U		NA	10	UJ		NA	10	U		NA
Benzo(a)pyrene	10	U		NA	10	UJ		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2046-01-MAX		LPX-SW-2046-01F		LPX-SW-2046-01		LPX-SW-2046-01F		LPX-SW-2047-01		LPX-SW-2047-01F	
Sample Location	LPX-SD-2046		LPX-SD-2046		LPX-SD-2046		LPX-SD-2046		LPX-SD-2047		LPX-SD-2047	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/8/99		11/8/99		11/8/99		11/8/99		11/8/99		11/8/99	
QC Identifier	Field Dup. LPX-SW-2046-01		None		None		None		None		None	
Benzo(b)fluoranthene	10	U		NA	10	UJ		NA	10	U		NA
Benzo(g,h,i)perylene	10	U		NA	10	UJ		NA	10	U		NA
Benzo(k)fluoranthene	10	U		NA	10	UJ		NA	10	U		NA
Bis(2-Chloroethoxy)methane	10	U		NA	10	UJ		NA	10	U		NA
Bis(2-Chloroethyl)ether	10	U		NA	10	UJ		NA	10	U		NA
bis(2-Ethylhexyl)phthalate	10	U		NA	10	UJ		NA	10	U		NA
Butylbenzylphthalate	10	U		NA	10	UJ		NA	10	U		NA
Caprolactam	10	U		NA	10	UJ		NA	10	U		NA
Carbazole	10	U		NA	10	UJ		NA	10	U		NA
Chrysene	10	U		NA	10	UJ		NA	10	U		NA
Di-n-Butylphthalate	10	U		NA	10	UJ		NA	10	U		NA
Di-n-octylphthalate	10	U		NA	10	UJ		NA	10	U		NA
Dibenzo(a,h)anthracene	10	U		NA	10	UJ		NA	10	U		NA
Dibenzofuran	10	U		NA	10	UJ		NA	10	U		NA
Diethylphthalate	10	U		NA	10	UJ		NA	10	U		NA
Dimethylphthalate	10	U		NA	10	UJ		NA	10	U		NA
Fluoranthene	10	U		NA	10	UJ		NA	10	U		NA
Fluorene	10	U		NA	10	UJ		NA	10	U		NA
Hexachlorobenzene	10	U		NA	10	UJ		NA	10	U		NA
Hexachlorobutadiene	10	U		NA	10	UJ		NA	10	U		NA
Hexachlorocyclopentadiene	10	U		NA	10	UJ		NA	10	U		NA
Hexachloroethane	10	U		NA	10	UJ		NA	10	U		NA
Indeno(1,2,3-cd)pyrene	10	U		NA	10	UJ		NA	10	U		NA
Isophorone	10	U		NA	10	UJ		NA	10	U		NA
N-Nitroso-di-n-propylamine	10	U		NA	10	UJ		NA	10	U		NA
N-Nitroso-diphenylamine	10	U		NA	10	UJ		NA	10	U		NA
Naphthalene	10	U		NA	10	UJ		NA	10	U		NA
Nitrobenzene	10	U		NA	10	UJ		NA	10	U		NA
Pentachlorophenol	25	U		NA	25	UJ		NA	25	U		NA
Phenanthrene	10	U		NA	10	UJ		NA	10	U		NA
Phenol	10	U		NA	10	UJ		NA	10	U		NA
Pyrene	10	U		NA	10	UJ		NA	10	U		NA
Total PAH	10	U		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2045-01-MAX		LPX-SW-2045-01F		LPX-SW-2046-01		LPX-SW-2046-01F		LPX-SW-2047-01		LPX-SW-2047-01F	
Sample Location	LPX-SD-2045		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046		LPX-SD-2047		LPX-SD-2047	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/8/99		11/8/99		11/8/99		11/8/99		11/8/99		11/8/99	
QC Identifier	Field Dup. LPX-SW-2045-01		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)	AQB67				AQB69				AQB64			
4,4'-DDD	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
4,4'-DDE	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
4,4'-DDT	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
Aldrin	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
alpha-BHC	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
alpha-Chlordane	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
Aroclor, Total	2.0	U		NA	2.0	U		NA	2.0	U		NA
Aroclor-1016	1.0	U		NA	1.0	UJ		NA	1.0	U		NA
Aroclor-1221	2.0	U		NA	2.0	UJ		NA	2.0	U		NA
Aroclor-1232		NA		NA		NA		NA		NA		NA
Aroclor-1242	1.0	U		NA	1.0	UJ		NA	1.0	U		NA
Aroclor-1248	1.0	U		NA	1.0	UJ		NA	1.0	U		NA
Aroclor-1254	1.0	U		NA	1.0	UJ		NA	1.0	U		NA
Aroclor-1260	1.0	U		NA	1.0	UJ		NA	1.0	U		NA
beta-BHC	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
delta-BHC	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
Dieldrin	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
Endosulfan I	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
Endosulfan II	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
Endosulfan Sulfate	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
Endrin	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
Endrin Aldehyde		NA		NA		NA		NA		NA		NA
Endrin Ketone	0.10	U		NA	0.10	UJ		NA	0.10	U		NA
gamma-BHC	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
gamma-Chlordane	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
Heptachlor	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
Heptachlor Epoxide	0.05	U		NA	0.05	UJ		NA	0.05	U		NA
Methoxychlor	0.50	U		NA	0.50	UJ		NA	0.50	U		NA
Toxaphene	5.0	U		NA	5.0	UJ		NA	5.0	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2045-01-MAX		LPX-SW-2045-01F		LPX-SW-2046-01		LPX-SW-2046-01F		LPX-SW-2047-01		LPX-SW-2047-01F	
Sample Location	LPX-SD-2045		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046		LPX-SD-2047		LPX-SD-2047	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/8/99		11/8/99		11/8/99		11/8/99		11/8/00		11/8/00	
QC Identifier	Field Dup. LPX-SW-2045-01		None		None		None		None		None	
Dioxin Analysis (PG/L)	D01014				D01015				D01012			
1,2,3,4,6,7,8-HpCDD	17.0	U		NA	31.7	J		NA	10.9	U		NA
1,2,3,4,6,7,8-HpCDF	9.7	U		NA	21.6	J		NA	6.6	U		NA
1,2,3,4,7,8,9-HpCDF	12.6	U		NA	11.2	U		NA	8.5	U		NA
1,2,3,4,7,8-HxCDD	10.4	U		NA	8.9	U		NA	6.2	U		NA
1,2,3,4,7,8-HxCDF	6.5	U		NA	6.4	U		NA	4.2	U		NA
1,2,3,6,7,8-HxCDD	9.7	U		NA	8.4	U		NA	5.8	U		NA
1,2,3,6,7,8-HxCDF	6.0	U		NA	6.0	U		NA	3.9	U		NA
1,2,3,7,8,9-HxCDD	10.1	U		NA	8.7	U		NA	6.0	U		NA
1,2,3,7,8,9-HxCDF	7.2	U		NA	7.1	U		NA	4.6	U		NA
1,2,3,7,8-PeCDD	8.1	U		NA	5.9	U		NA	4.1	U		NA
1,2,3,7,8-PeCDF	5.3	U		NA	4.1	U		NA	2.8	U		NA
1,2,4,5,7,8-hexachloro(9H)xanthene		NA		NA	0.00	U		NA	0.00	U		NA
2,3,4,6,7,8-HxCDF	6.4	U		NA	6.3	U		NA	4.1	U		NA
2,3,4,7,8-PeCDF	5.5	U		NA	4.3	U		NA	2.9	U		NA
2,3,7,8-TCDD	7.3	U		NA	137			NA	7.3	U		NA
2,3,7,8-TCDF	5.1	U		NA	4.3	U		NA	2.5	U		NA
OCDD	35.5	U		NA	240			NA	19.3	U		NA
OCDF	2.4			NA	24.7	EMPC		NA	16.4	U		NA
Total HpCDD	8.9			NA	72.8	J		NA	10.9	UJ		NA
Total HpCDF	11.0	U		NA	37.7	J		NA	7.4	UJ		NA
Total HxCDD	10.0	U		NA	8.7	UJ		NA	6.0	UJ		NA
Total HxCDF	1.3			NA	6.4	UJ		NA	4.2	UJ		NA
Total PeCDD	18.6			NA	5.9	UJ		NA	4.1	UJ		NA
Total PeCDF	5.4	U		NA	4.2	UJ		NA	2.9	UJ		NA
Total TCDD	7.3	U		NA	137	J		NA	7.3	UJ		NA
Total TCDF	5.1	U		NA	4.3	UJ		NA	2.5	UJ		NA
Toxicity Equivalency	11.7			NA	144			NA	8.3			NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2045-01-MAX		LPX-SW-2045-01F		LPX-SW-2046-01		LPX-SW-2046-01F		LPX-SW-2047-01		LPX-SW-2047-01F	
Sample Location	LPX-SD-2045		LPX-SD-2045		LPX-SD-2046		LPX-SD-2046		LPX-SD-2047		LPX-SD-2047	
Interval	0 0-0.0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/8/99		11/8/99		11/8/99		11/8/99		11/8/99		11/8/00	
QC Identifier	Field Dup. LPX-SW-2045-01		None		None		None		None		None	
TAL Metal Analysis (UG/L)	MALJ10		MALJ11		MALJ12		MALJ13		MAMB99		MAMC00	
Aluminum	46.1	U	22.8	UJ	293		31.0	U	54.3	U	21.8	UJ
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Arsenic	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U
Barium	15.6		15.6	U	22.5		194		17.8		15.4	U
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	7750		8170		9230		8210		8700		8020	
Chromium	3.7		1.0	U	2.8		1.0	U	1.0	U	1.0	U
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Copper	5.7		4.4		18.3		5.1		6.5		5.7	
Iron	307		164		861		206		334		174	
Lead	2.0	U	2.0	U	10.2		2.0	U	2.0	U	2.0	U
Magnesium	1280		1340		1500		1370		1410		1300	
Manganese	62.7		61.7		94.4		75.8		93.3		61.6	
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	2.0	U	2.0	U	2.4	J	2.0	U	2.0	U	2.0	U
Potassium	1770		1870		1960		1930		1940		1800	
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.0	U	1.0	U	1.1	UJ	1.0	U	1.0	U	1.0	U
Sodium	20200		21300		20700		24600		22500		20900	
Thallium	7.0	U	7.3	J	7.0	U	9.0		7.7	J	7.8	J
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Zinc	20.8		23.1		44.2		95.6		22.4		20.9	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2048-01			LPX-SW-2048-01F			LPX-SW-2049-01			LPX-SW-2049-01F			LPX-SW-2050-01			LPX-SW-2050-01F		
Sample Location	LPX-SD-2048			LPX-SD-2048			LPX-SD-2049			LPX-SD-2049			LPX-SD-2050			LPX-SD-2050		
Interval	0 0-0 0			0 0-0 0			0 0-0 0			0 0-0 0			0 0-0 0			0 0-0 0		
Date Sampled	11/9/99			11/9/99			11/5/99			11/5/99			11/4/99			11/4/99		
QC Identifier	None			None			None			None			None			None		
Semivolatile Organic Analysis (UG/L)	AQB71						AQB62						AQB61					
1,1'-Biphenyl	10	U			NA		10	U			NA		10	U			NA	
2,2'-oxybis(1-Chloropropane)	10	U			NA		10	U			NA		10	U			NA	
2,4,5-Trichlorophenol	25	U			NA		25	U			NA		25	U			NA	
2,4,6-Trichlorophenol	10	U			NA		10	U			NA		10	U			NA	
2,4-Dichlorophenol	10	U			NA		10	U			NA		10	U			NA	
2,4-Dimethylphenol	10	U			NA		10	U			NA		10	U			NA	
2,4-Dinitrophenol	25	UJ			NA		25	UJ			NA		25	UJ			NA	
2,4-Dinitrotoluene	10	U			NA		10	U			NA		10	U			NA	
2,6-Dinitrotoluene	10	U			NA		10	U			NA		10	U			NA	
2-Chloronaphthalene	10	U			NA		10	U			NA		10	U			NA	
2-Chlorophenol	10	U			NA		10	U			NA		10	U			NA	
2-Methylnaphthalene	10	U			NA		10	U			NA		10	U			NA	
2-Methylphenol	10	U			NA		10	U			NA		10	U			NA	
2-Nitroaniline	25	U			NA		25	U			NA		25	U			NA	
2-Nitrophenol	10	U			NA		10	U			NA		10	U			NA	
3,3'-Dichlorobenzidine	10	U			NA		10	UJ			NA		10	UJ			NA	
3-Nitroaniline	25	U			NA		25	U			NA		25	U			NA	
4,6-Dinitro-2-methylphenol	25	U			NA		25	U			NA		25	U			NA	
4-Bromophenyl-phenylether	10	U			NA		10	U			NA		10	U			NA	
4-Chloro-3-methylphenol	10	U			NA		10	U			NA		10	U			NA	
4-Chloroaniline	10	U			NA		10	U			NA		10	U			NA	
4-Chlorophenyl-phenylether	10	U			NA		10	U			NA		10	U			NA	
4-Methylphenol	10	U			NA		10	U			NA		10	U			NA	
4-Nitroaniline	25	U			NA		25	U			NA		25	U			NA	
4-Nitrophenol	25	U			NA		25	U			NA		25	U			NA	
Acenaphthene	10	U			NA		10	U			NA		10	U			NA	
Acenaphthylene	10	U			NA		10	U			NA		10	U			NA	
Acetophenone	10	U			NA		10	U			NA		10	U			NA	
Anthracene	10	U			NA		10	U			NA		10	U			NA	
Atrazine	10	U			NA		10	U			NA		10	U			NA	
Benzaldehyde	10	U			NA		10	U			NA		10	U			NA	
Benzo(a)anthracene	10	U			NA		10	U			NA		10	U			NA	
Benzo(a)pyrene	10	U			NA		10	U			NA		10	UJ			NA	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2048-01		LPX-SW-2048-01F		LPX-SW-2049-01		LPX-SW-2049-01F		LPX-SW-2050-01		LPX-SW-2050-01F	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2049		LPX-SD-2050		LPX-SD-2050	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/9/99		11/9/99		11/5/99		11/5/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		None		None	
Benzo(b)fluoranthene	10	U		NA	10	U		NA	10	UJ		NA
Benzo(g,h,i)perylene	10	U		NA	10	U		NA	10	UJ		NA
Benzo(k)fluoranthene	10	U		NA	10	U		NA	10	UJ		NA
Bis(2-Chloroethoxy)methane	10	U		NA	10	U		NA	10	U		NA
Bis(2-Chloroethyl)ether	10	U		NA	10	U		NA	10	U		NA
bis(2-Ethylhexyl)phthalate	10	U		NA	10	U		NA	10	U		NA
Butylbenzylphthalate	10	U		NA	10	U		NA	10	U		NA
Caprolactam	10	U		NA	10	U		NA	10	U		NA
Carbazole	10	U		NA	10	U		NA	10	U		NA
Chrysene	10	U		NA	10	U		NA	10	U		NA
Di-n-Butylphthalate	10	U		NA	10	U		NA	10	U		NA
Di-n-octylphthalate	10	U		NA	10	U		NA	10	UJ		NA
Dibenzo(a,h)anthracene	10	U		NA	10	U		NA	10	UJ		NA
Dibenzofuran	10	U		NA	10	U		NA	10	U		NA
Diethylphthalate	10	U		NA	10	U		NA	10	U		NA
Dimethylphthalate	10	U		NA	10	U		NA	10	U		NA
Fluoranthene	10	U		NA	10	U		NA	10	U		NA
Fluorene	10	U		NA	10	U		NA	10	U		NA
Hexachlorobenzene	10	U		NA	10	U		NA	10	U		NA
Hexachlorobutadiene	10	U		NA	10	UJ		NA	10	U		NA
Hexachlorocyclopentadiene	10	U		NA	10	U		NA	10	U		NA
Hexachloroethane	10	U		NA	10	U		NA	10	U		NA
Indeno(1,2,3-cd)pyrene	10	U		NA	10	U		NA	10	UJ		NA
Isophorone	10	U		NA	10	U		NA	10	U		NA
N-Nitroso-di-n-propylamine	10	U		NA	10	U		NA	10	U		NA
N-Nitroso-diphenylamine	10	U		NA	10	U		NA	10	U		NA
Naphthalene	10	U		NA	10	U		NA	10	U		NA
Nitrobenzene	10	U		NA	10	U		NA	10	U		NA
Pentachlorophenol	25	U		NA	25	U		NA	25	U		NA
Phenanthrene	10	U		NA	10	U		NA	10	U		NA
Phenol	10	U		NA	10	U		NA	10	U		NA
Pyrene	10	U		NA	10	U		NA	10	U		NA
Total PAH	10	U		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2048-01		LPX-SW-2048-01F		LPX-SW-2049-01		LPX-SW-2049-01F		LPX-SW-2050-01		LPX-SW-2050-01F	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2049		LPX-SD-2050		LPX-SD-2050	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0 0 0	
Date Sampled	11/9/99		11/9/99		11/5/99		11/5/99		11/4/99		11/4/99	
QC Identifier	None		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)	AQB71				AQB62				AQB61			
4,4'-DDD	0 10	U		NA	0 10	U		NA	0.10	U		NA
4,4'-DDE	0 10	U		NA	0 10	U		NA	0 10	U		NA
4,4'-DDT	0.10	U		NA	0.10	U		NA	0 01	J		NA
Aldrin	0 05	U		NA	0.069			NA	0 05	U		NA
alpha-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
alpha-Chlordane	0.05	U		NA	0.05	U		NA	0.05	U		NA
Aroclor, Total	2.0	U		NA	2.0	U		NA	2.0	U		NA
Aroclor-1016	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1221	2.0	U		NA	2.0	U		NA	2.0	U		NA
Aroclor-1232		NA		NA	1.0	U		NA	1.0	U		NA
Aroclor-1242	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1248	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1254	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1260	1.0	U		NA	1.0	U		NA	1.0	U		NA
beta-BHC	0 05	U		NA	0 05	U		NA	0 05	U		NA
delta-BHC	0 05	U		NA	0.05	U		NA	0.05	U		NA
Dieldrin	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endosulfan I	0.05	U		NA	0.05	U		NA	0.05	U		NA
Endosulfan II	0 10	U		NA	0.10	U		NA	0 10	U		NA
Endosulfan Sulfate	0.10	U		NA	0.10	U		NA	0 10	U		NA
Endrin	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endrin Aldehyde		NA		NA	0.10	U		NA	0.0013	J		NA
Endrin Ketone	0.10	U		NA	0.10	U		NA	0 10	U		NA
gamma-BHC	0.05	U		NA	0 05	U		NA	0.05	U		NA
gamma-Chlordane	0 05	U		NA	0 05	U		NA	0 05	U		NA
Heptachlor	0 05	U		NA	0 05	U		NA	0 05	U		NA
Heptachlor Epoxide	0 05	U		NA	0 05	U		NA	0 05	U		NA
Methoxychlor	0 50	U		NA	0 50	U		NA	0 50	U		NA
Toxaphene	5 0	U		NA	5 0	U		NA	5 0	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2048-01		LPX-SW-2048-01F		LPX-SW-2049-01		LPX-SW-2049-01F		LPX-SW-2050-01		LPX-SW-2050-01F	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2049		LPX-SD-2050		LPX-SD-2050	
Interval	0 0-0.0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/9/99		11/9/99		11/5/99		11/5/99		11/4/00		11/4/00	
QC Identifier	None		None		None		None		None		None	
Dioxin Analysis (PG/L)	D01023				D01006				D01005			
1,2,3,4,6,7,8-HpCDD	88.9			NA	3.0	EMPC		NA	3.4	U		NA
1,2,3,4,6,7,8-HpCDF	24.0	J		NA	0.70	U		NA	1.2	UJ		NA
1,2,3,4,7,8,9-HpCDF	6.1	EMPC		NA	1.0	U		NA	1.8	UJ		NA
1,2,3,4,7,8-HxCDD	1.6	J		NA	0.80	U		NA	1.2	U		NA
1,2,3,4,7,8-HxCDF	4.3	U		NA	0.69	U		NA	0.90	U		NA
1,2,3,6,7,8-HxCDD	3.3	U		NA	0.70	U		NA	1.1	U		NA
1,2,3,6,7,8-HxCDF	1.9	EMPC		NA	0.50	U		NA	0.80	U		NA
1,2,3,7,8,9-HxCDD	3.9	J		NA	0.80	U		NA	1.2	U		NA
1,2,3,7,8,9-HxCDF	0.20	U		NA	0.60	U		NA	1.0	U		NA
1,2,3,7,8-PeCDD	0.50	U		NA	1.4	U		NA	2.0	U		NA
1,2,3,7,8-PeCDF	0.30	U		NA	0.90	U		NA	1.3	U		NA
1,2,4,5,7,8-hexachloro(9H)xanthene	0.00	U		NA	0.00	U		NA	0.00	U		NA
2,3,4,6,7,8-HxCDF	5.9	J		NA	0.50	U		NA	0.80	U		NA
2,3,4,7,8-PeCDF	0.30	U		NA	0.90	U		NA	1.3	U		NA
2,3,7,8-TCDD	4.0	U		NA	38.0			NA	2.9	EMPC		NA
2,3,7,8-TCDF	0.30	U		NA	0.70	U		NA	1.2	UJ		NA
OCDD	623			NA	17.1	U		NA	18.6	EMPC		NA
OCDF	31.6	U		NA	2.0	U		NA	2.4	EMPC		NA
Total HpCDD	157	J		NA	5.3	EMPC		NA	5.6	EMPC		NA
Total HpCDF	24.0	J		NA	1.7	EMPC		NA	1.4	UJ		NA
Total HxCDD	29.3	J		NA	0.80	UJ		NA	1.2	UJ		NA
Total HxCDF	13.7	EMPC		NA	0.69	UJ		NA	0.90	UJ		NA
Total PeCDD	0.50	UJ		NA	1.4	UJ		NA	2.0	UJ		NA
Total PeCDF	5.2	EMPC		NA	0.90	UJ		NA	1.3	UJ		NA
Total TCDD	4.0	UJ		NA	38.0	J		NA	2.9	EMPC		NA
Total TCDF	1.2	EMPC		NA	0.70	UJ		NA	1.2	UJ		NA
Toxicity Equivalency	5.3			NA	39.2			NA	4.7			NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2048-01		LPX-SW-2048-01F		LPX-SW-2049-01		LPX-SW-2049-01F		LPX-SW-2050-01		LPX-SW-2050-01F	
Sample Location	LPX-SD-2048		LPX-SD-2048		LPX-SD-2049		LPX-SD-2049		LPX-SD-2050		LPX-SD-2050	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/9/99		11/9/99		11/5/99		11/5/99		11/4/00		11/4/00	
QC Identifier	None		None		None		None		None		None	
TAL Metal Analysis (UG/L)	**MALJ14**		**MALJ15**		**MAMB95**		**MAMB96**		**MAMB93**		**MAMB94**	
Aluminum	33.6	U	23.4	UJ	117		46.1	J	90.0		100	
Antimony	5.0	U	5.0	U	2.1	UJ	2.1	UJ	2.1	UJ	2.1	UJ
Arsenic	6.0	U	6.0	U	2.2	U	2.2	U	2.2	U	2.2	U
Barium	16.6		16.9	U	24.0		184		19.1		22.8	
Beryllium	1.0	U	1.0	U	0.10	UJ	0.10	U	0.10	U	0.10	U
Cadmium	1.0	U	1.0	U	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	8320		8940		10100		10800		8160		8270	
Chromium	1.0	U	1.0	U	0.50	UJ	0.30	UJ	0.70	U	0.80	U
Cobalt	1.0	U	1.0	U	0.60	U	0.60	U	0.60	U	0.60	U
Copper	5.4		8.1		1.6		2.4		9.9		10.0	
Iron	241		158		762		376		406		282	
Lead	2.0	U	2.0	U	1.6	UJ	2.5	UJ	3.3	U	2.2	UJ
Magnesium	1350		1450		1450		1590		1320		1340	
Manganese	76.6		79.2		436		436		101		87.6	
Mercury	0.20	U	0.20	U	0.10	U	0.10	U	0.10	U	0.10	U
Nickel	2.0	U	2.0	U	1.6	J	1.3	U	1.3	U	1.3	U
Potassium	1870		2030		2420		2570		2270		2330	
Selenium	5.0	U	5.0	U	1.8	U	1.8	U	1.8	U	1.8	U
Silver	1.0	U	1.0	U	0.40	U	0.40	U	0.40	U	0.40	U
Sodium	20600		21900		25200		30500		21000		24500	
Thallium	7.0	U	7.0	U	2.1	U	2.1	U	2.1	U	2.1	U
Vanadium	2.0	U	2.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Zinc	19.3		27.1		21.4	J	74.6		13.2	J	86.2	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2051-01		LPX-DU-110499B		LPX-SW-2051-01-MAX		LPX-SW-2051-01A		LPX-SW-2051-01F	
Sample Location	LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/4/99	
QC Identifier	Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		None		None	
Semivolatile Organic Analysis (UG/L)							AQ870			
1,1'-Biphenyl		NA		NA		NA	10	U		NA
2,2'-oxybis(1-Chloropropane)		NA		NA		NA	10	U		NA
2,4,5-Trichlorophenol		NA		NA		NA	25	U		NA
2,4,6-Trichlorophenol		NA		NA		NA	10	U		NA
2,4-Dichlorophenol		NA		NA		NA	10	U		NA
2,4-Dimethylphenol		NA		NA		NA	10	U		NA
2,4-Dinitrophenol		NA		NA		NA	25	UJ		NA
2,4-Dinitrotoluene		NA		NA		NA	10	U		NA
2,6-Dinitrotoluene		NA		NA		NA	10	U		NA
2-Chloronaphthalene		NA		NA		NA	10	U		NA
2-Chlorophenol		NA		NA		NA	10	U		NA
2-Methylnaphthalene		NA		NA		NA	10	U		NA
2-Methylphenol		NA		NA		NA	10	U		NA
2-Nitroaniline		NA		NA		NA	25	U		NA
2-Nitrophenol		NA		NA		NA	10	U		NA
3,3'-Dichlorobenzidine		NA		NA		NA	10	U		NA
3-Nitroaniline		NA		NA		NA	25	U		NA
4,6-Dinitro-2-methylphenol		NA		NA		NA	25	U		NA
4-Bromophenyl-phenylether		NA		NA		NA	10	U		NA
4-Chloro-3-methylphenol		NA		NA		NA	10	U		NA
4-Chloroaniline		NA		NA		NA	10	U		NA
4-Chlorophenyl-phenylether		NA		NA		NA	10	U		NA
4-Methylphenol		NA		NA		NA	10	U		NA
4-Nitroaniline		NA		NA		NA	25	U		NA
4-Nitrophenol		NA		NA		NA	25	U		NA
Acenaphthene		NA		NA		NA	10	U		NA
Acenaphthylene		NA		NA		NA	10	U		NA
Acetophenone		NA		NA		NA	10	U		NA
Anthracene		NA		NA		NA	10	U		NA
Atrazine		NA		NA		NA	10	U		NA
Benzaldehyde		NA		NA		NA	10	U		NA
Benzo(a)anthracene		NA		NA		NA	10	U		NA
Benzo(a)pyrene		NA		NA		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX SW-2051-01		LPX DU-1104998		LPX-SW-2051-01-MAX		LPX-SW-2051-01A		LPX-SW-2051-01F	
Sample Location	LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/9/99		11/4/99	
QC Identifier	Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		None		None	
Benzo(b)fluoranthene		NA		NA		NA	10	U		NA
Benzo(g,h,i)perylene		NA		NA		NA	10	U		NA
Benzo(k)fluoranthene		NA		NA		NA	10	U		NA
Bis(2-Chloroethoxy)methane		NA		NA		NA	10	U		NA
Bis(2-Chloroethyl)ether		NA		NA		NA	10	U		NA
bis(2-Ethylhexyl)phthalate		NA		NA		NA	10	U		NA
Butylbenzylphthalate		NA		NA		NA	10	U		NA
Caprolactam		NA		NA		NA	10	U		NA
Carbazole		NA		NA		NA	10	U		NA
Chrysene		NA		NA		NA	10	U		NA
Di-n-Butylphthalate		NA		NA		NA	10	U		NA
Di-n-octylphthalate		NA		NA		NA	10	U		NA
Dibenzo(a,h)anthracene		NA		NA		NA	10	U		NA
Dibenzofuran		NA		NA		NA	10	U		NA
Diethylphthalate		NA		NA		NA	10	U		NA
Dimethylphthalate		NA		NA		NA	10	U		NA
Fluoranthene		NA		NA		NA	10	U		NA
Fluorene		NA		NA		NA	10	U		NA
Hexachlorobenzene		NA		NA		NA	10	U		NA
Hexachlorobutadiene		NA		NA		NA	10	U		NA
Hexachlorocyclopentadiene		NA		NA		NA	10	U		NA
Hexachloroethane		NA		NA		NA	10	U		NA
Indeno(1,2,3-cd)pyrene		NA		NA		NA	10	U		NA
Isophorone		NA		NA		NA	10	U		NA
N-Nitroso-di-n-propylamine		NA		NA		NA	10	U		NA
N-Nitroso-diphenylamine		NA		NA		NA	10	U		NA
Naphthalene		NA		NA		NA	10	U		NA
Nitrobenzene		NA		NA		NA	10	U		NA
Pentachlorophenol		NA		NA		NA	25	U		NA
Phenanthrene		NA		NA		NA	10	U		NA
Phenol		NA		NA		NA	10	U		NA
Pyrene		NA		NA		NA	10	U		NA
Total PAH		NA		NA		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2051-01		LPX DU 1104999		LPX-SW-2051-01-MAX		LPX-SW-2051-01A		LPX-SW-2051-01F	
Sample Location	LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051	
Interval	0 0-0 0		0 0-0 0		0 0-0.0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/9/99		11/4/99	
QC Identifier	Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		None		None	
Pesticide/PCB Analysis (UG/L)							AQ870			
4,4'-DDD		NA		NA		NA	0 10	U		NA
4,4'-DDE		NA		NA		NA	0 10	U		NA
4,4'-DDT		NA		NA		NA	0 10	U		NA
Aldrin		NA		NA		NA	0 05	U		NA
alpha-BHC		NA		NA		NA	0 05	U		NA
alpha-Chlordane		NA		NA		NA	0 05	U		NA
Aroclor, Total		NA		NA		NA	2 0	U		NA
Aroclor-1016		NA		NA		NA	1 0	U		NA
Aroclor-1221		NA		NA		NA	2 0	U		NA
Aroclor-1232		NA		NA		NA		NA		NA
Aroclor-1242		NA		NA		NA	1 0	U		NA
Aroclor-1248		NA		NA		NA	1 0	U		NA
Aroclor-1254		NA		NA		NA	1 0	U		NA
Aroclor-1260		NA		NA		NA	1 0	U		NA
beta-BHC		NA		NA		NA	0 05	U		NA
delta-BHC		NA		NA		NA	0 05	U		NA
Dieldrin		NA		NA		NA	0 10	U		NA
Endosulfan I		NA		NA		NA	0 05	U		NA
Endosulfan II		NA		NA		NA	0 10	U		NA
Endosulfan Sulfate		NA		NA		NA	0 10	U		NA
Endrin		NA		NA		NA	0 10	U		NA
Endrin Aldehyde		NA		NA		NA		NA		NA
Endrin Ketone		NA		NA		NA	0 10	U		NA
gamma-BHC		NA		NA		NA	0 05	U		NA
gamma-Chlordane		NA		NA		NA	0 05	U		NA
Heptachlor		NA		NA		NA	0 05	U		NA
Heptachlor Epoxide		NA		NA		NA	0 05	U		NA
Methoxychlor		NA		NA		NA	0 50	U		NA
Toxaphene		NA		NA		NA	5 0	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2051-01		LPX-DU-1104998		LPX-SW-2051-01-MAX		LPX-SW-2051-01A		LPX-SW-2051-01F	
Sample Location	LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051	
Interval	0 0-0 0		0 0-0 0		0 0-0.0		0 0-0.0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/9/99		11/4/99	
QC Identifier	Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		None		None	
Dioxin Analysis (PG/L)	D01002				D01002					
1,2,3,4,6,7,8-HpCDD	3.4	UJ		NA	3.4	U		NA		NA
1,2,3,4,6,7,8-HpCDF	1 6	UJ		NA	1 6	U		NA		NA
1,2,3,4,7,8,9-HpCDF	2.4	UJ		NA	2 4	U		NA		NA
1,2,3,4,7,8-HxCDD	1.6	UJ		NA	1 6	U		NA		NA
1,2,3,4,7,8-HxCDF	1.0	UJ		NA	1 0	U		NA		NA
1,2,3,6,7,8-HxCDD	1.4	UJ		NA	1 4	U		NA		NA
1,2,3,6,7,8-HxCDF	1.4	UJ		NA	1.4	U		NA		NA
1,2,3,7,8,9-HxCDD	1.6	UJ		NA	1.6	U		NA		NA
1,2,3,7,8,9-HxCDF	1.3	UJ		NA	1.3	U		NA		NA
1,2,3,7,8-PeCDD	2.3	UJ		NA	2.3	U		NA		NA
1,2,3,7,8-PeCDF	1.7	UJ		NA	1.7	U		NA		NA
1,2,4,5,7,8-hexachloro(9H)xanthene	0 00	U		NA		NA		NA		NA
2,3,4,6,7,8-HxCDF	1.0	UJ		NA	1 0	U		NA		NA
2,3,4,7,8-PeCDF	1.7	UJ		NA	1 7	U		NA		NA
2,3,7,8-TCDD	4 1	EMPC		NA	4 1			NA		NA
2,3,7,8-TCDF	1.6	UJ		NA	1 6	U		NA		NA
OCDD	18.6	EMPC		NA	18 6			NA		NA
OCDF	4.2	UJ		NA	4 2	U		NA		NA
Total HpCDD	3.4	UJ		NA	3 4	U		NA		NA
Total HpCDF	1 9	UJ		NA	1.9	U		NA		NA
Total HxCDD	1.5	UJ		NA	1 5	U		NA		NA
Total HxCDF	1.4	UJ		NA	1.4	U		NA		NA
Total PeCDD	2 3	UJ		NA	2.3	U		NA		NA
Total PeCDF	1.7	UJ		NA	1 7	U		NA		NA
Total TCDD	4 1	EMPC		NA	4 1			NA		NA
Total TCDF	1 6	UJ		NA	1 6	U		NA		NA
Toxicity Equivalency	6 2			NA	6 2			NA		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2051-01		LPX-DU-1104998		LPX-SW-2051-01-MAX		LPX-SW-2051-01A		LPX-SW-2051-01F	
Sample Location	LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051		LPX-SD-2051	
Interval	0 0-0 0		0 0-0.0		0 0-0.0		0 0-0 0		0 0 0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/9/99		11/4/00	
QC Identifier	Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		Field Dup. LPX-SW-2051-01		None		None	
TAL Metal Analysis (UG/L)	MAMB90		MAMB92		MAMB92				MAMB91	
Aluminum	86.6		79.0		86.6			NA	83.6	
Antimony	2.1	UJ	2.8	UJ	2.8	U		NA	2.1	UJ
Arsenic	2.2	U	2.2	U	2.2	U		NA	2.2	U
Barium	20.2		20.5		20.5			NA	187	
Beryllium	0.10	U	0.10	U	0.10	U		NA	0.10	UJ
Cadmium	0.30	U	0.30	U	0.30	U		NA	0.30	U
Calcium	8770		8840		8840			NA	8840	
Chromium	1.2	U	1.2	U	1.2	U		NA	0.60	U
Cobalt	0.60	U	0.60	J	0.60	U		NA	0.60	U
Copper	2.0		2.1		2.1			NA	3.6	
Iron	439		512		512			NA	334	
Lead	2.1	UJ	1.9	UJ	2.1	U		NA	1.1	U
Magnesium	1400		1430		1430			NA	1410	
Manganese	122		120		122			NA	108	
Mercury	0.10	U	0.10	U	0.10	U		NA	0.10	U
Nickel	1.4	J	5.4		5.4			NA	1.5	J
Potassium	2350		2370		2370			NA	2350	
Selenium	1.8	U	1.8	U	1.8	U		NA	1.8	U
Silver	0.40	U	0.40	U	0.40	U		NA	0.40	U
Sodium	22700		23000		23000			NA	25400	
Thallium	2.1	U	2.1	U	2.1	U		NA	2.1	U
Vanadium	0.50	U	0.90	J	0.50	U		NA	0.50	U
Zinc	13.4	J	12.9	U	12.9	U		NA	70.1	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2062-01		LPX-SW-2062-01F		LPX-SW-2063-01		LPX-SW-2063-01F		RAB-SW-3004-01		RAB-SW-3004-01F		RCC-SW-3001-01	
Sample Location	LPX-SD-2062		LPX-SD-2062		LPX-SD-2063		LPX-SD-2063		RAB-SD-3004		RAB-SD-3004		RCC-SD-3001	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None		None		None		None	
Semivolatile Organic Analysis (UG/L)	AQB58				AQB59				AQB76				AQB75	
1,1'-Biphenyl	10	U			10	U		NA	10	U		NA	10	U
2,2'-oxybis(1-Chloropropane)	10	U			10	U		NA	10	U		NA	10	U
2,4,5-Trichlorophenol	25	U			25	U		NA	25	U		NA	25	U
2,4,6-Trichlorophenol	10	U			10	U		NA	10	U		NA	10	U
2,4-Dichlorophenol	10	U			10	U		NA	10	U		NA	10	U
2,4-Dimethylphenol	10	U			10	U		NA	10	U		NA	10	U
2,4-Dinitrophenol	25	U			25	U		NA	25	UJ		NA	25	UJ
2,4-Dinitrotoluene	10	U			10	U		NA	10	U		NA	10	U
2,6-Dinitrotoluene	10	U			10	U		NA	10	U		NA	10	U
2-Chloronaphthalene	10	U			10	U		NA	10	U		NA	10	U
2-Chlorophenol	10	U			10	U		NA	10	U		NA	10	U
2-Methylnaphthalene	10	U			10	U		NA	10	U		NA	10	U
2-Methylphenol	10	U			10	U		NA	10	U		NA	10	U
2-Nitroaniline	25	U			25	U		NA	25	U		NA	25	U
2-Nitrophenol	10	U			10	U		NA	10	U		NA	10	U
3,3'-Dichlorobenzidine	10	U			10	U		NA	10	U		NA	10	U
3-Nitroaniline	25	U			25	U		NA	25	U		NA	25	U
4,6-Dinitro-2-methylphenol	25	U			25	U		NA	25	U		NA	25	U
4-Bromophenyl-phenylether	10	U			10	U		NA	10	U		NA	10	U
4-Chloro-3-methylphenol	10	U			10	U		NA	10	U		NA	10	U
4-Chloroaniline	10	U			10	U		NA	10	U		NA	10	U
4-Chlorophenyl-phenylether	10	U			10	U		NA	10	U		NA	10	U
4-Methylphenol	10	U			10	U		NA	10	U		NA	10	U
4-Nitroaniline	25	U			25	U		NA	25	U		NA	25	U
4-Nitrophenol	25	U			25	U		NA	25	U		NA	25	U
Acenaphthene	10	U			10	U		NA	10	U		NA	10	U
Acenaphthylene	10	U			10	U		NA	10	U		NA	10	U
Acetophenone	10	U			10	U		NA	10	U		NA	10	U
Anthracene	10	U			10	U		NA	10	U		NA	10	U
Atrazine	10	U			10	U		NA	10	U		NA	10	U
Benzaldehyde	10	U			10	U		NA	10	U		NA	10	U
Benzo(a)anthracene	10	U			10	U		NA	10	U		NA	10	U
Benzo(a)pyrene	10	U			10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2052-01		LPX-SW-2052-01F		LPX-SW-2053-01		LPX-SW-2053-01F		RAB-SW-3004-01		RAB-SW-3004-01F		RCC-SW-3001-01	
Sample Location	LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004		RAB-SD-3004		RCC-SD-3001	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None		None		None		None	
Benzo(b)fluoranthene	10	U		NA	10	U		NA	10	U		NA	10	U
Benzo(g,h,i)perylene	10	U		NA	10	U		NA	10	U		NA	10	U
Benzo(k)fluoranthene	10	U		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethoxy)methane	10	U		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethyl)ether	10	U		NA	10	U		NA	10	U		NA	10	U
bis(2-Ethylhexyl)phthalate	10	U		NA	10	U		NA	1	J		NA	10	U
Butylbenzylphthalate	10	U		NA	10	U		NA	10	U		NA	10	U
Caprolactam	10	U		NA	10	U		NA	10	U		NA	10	U
Carbazole	10	U		NA	10	U		NA	10	U		NA	10	U
Chrysene	10	U		NA	10	U		NA	10	U		NA	10	U
Di-n-Butylphthalate	10	U		NA	10	U		NA	10	U		NA	10	U
Di-n-octylphthalate	10	U		NA	10	U		NA	10	U		NA	10	U
Dibenzo(a,h)anthracene	10	U		NA	10	U		NA	10	U		NA	10	U
Dibenzofuran	10	U		NA	10	U		NA	10	U		NA	10	U
Diethylphthalate	10	U		NA	10	U		NA	10	U		NA	10	U
Dimethylphthalate	10	U		NA	10	U		NA	10	U		NA	10	U
Fluoranthene	10	U		NA	10	U		NA	10	U		NA	10	U
Fluorene	10	U		NA	10	U		NA	10	U		NA	10	U
Hexachlorobenzene	10	U		NA	10	U		NA	10	U		NA	10	U
Hexachlorobutadiene	10	U		NA	10	U		NA	10	U		NA	10	U
Hexachlorocyclopentadiene	10	U		NA	10	U		NA	10	U		NA	10	U
Hexachloroethane	10	U		NA	10	U		NA	10	U		NA	10	U
Indeno(1,2,3-cd)pyrene	10	U		NA	10	U		NA	10	U		NA	10	U
Isophorone	10	U		NA	10	U		NA	10	U		NA	10	U
N-Nitroso-di-n-propylamine	10	U		NA	10	U		NA	10	U		NA	10	U
N-Nitroso-diphenylamine	10	U		NA	10	U		NA	10	U		NA	10	U
Naphthalene	10	U		NA	10	U		NA	10	U		NA	10	U
Nitrobenzene	10	U		NA	10	U		NA	10	U		NA	10	U
Pentachlorophenol	25	U		NA	25	U		NA	25	U		NA	25	U
Phenanthrene	10	U		NA	10	U		NA	10	U		NA	10	U
Phenol	10	U		NA	10	U		NA	10	U		NA	10	U
Pyrene	10	U		NA	10	U		NA	10	U		NA	10	U
Total PAH	10	U		NA	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2052-01		LPX-SW-2052-01F		LPX-SW-2053-01		LPX-SW-2053-01F		RAB-SW-3004-01		RAB-SW-3004-01F		RCC-SW-3001-01	
Sample Location	LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004		RAB-SD-3004		RCC SD-3001	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0.0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/10/99		11/10/99		11/10/00	
QC Identifier	None		None		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)	**AQB58**				**AQB59**				**AQB76**				**AQB75**	
4,4'-DDD	0.10	U		NA	0.10	U		NA	0.10	U		NA	0 10	U
4,4'-DDE	0 10	U		NA	0.10	U		NA	0 10	U		NA	0 10	U
4,4'-DDT	0.10	U		NA	0.10	U		NA	0 10	U		NA	0 10	U
Aldrin	0.0088	J		NA	0.05	U		NA	0 05	U		NA	0 05	U
alpha-BHC	0.05	U		NA	0 05	U		NA	0.05	U		NA	0 05	U
alpha-Chlordane	0.05	U		NA	0.05	U		NA	0.05	U		NA	0 05	U
Aroclor, Total	2.0	U		NA	2 0	U		NA	2.0	U		NA	2 0	U
Aroclor-1016	1.0	U		NA	1.0	U		NA	1.0	U		NA	1 0	U
Aroclor-1221	2.0	U		NA	2.0	U		NA	2.0	U		NA	2 0	U
Aroclor-1232	1.0	U		NA	1.0	U		NA		NA		NA		NA
Aroclor-1242	1.0	U		NA	1.0	U		NA	1.0	U		NA	1 0	U
Aroclor-1248	1.0	U		NA	1.0	U		NA	1.0	U		NA	1.0	U
Aroclor-1254	1.0	U		NA	1.0	U		NA	1.0	U		NA	1.0	U
Aroclor-1260	1.0	U		NA	1.0	U		NA	1.0	U		NA	1.0	U
beta-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA	0 05	U
delta-BHC	0.05	U		NA	0 05	U		NA	0.05	U		NA	0.05	U
Dieldrin	0.10	U		NA	0.10	U		NA	0 10	U		NA	0 10	U
Endosulfan I	0 05	U		NA	0.05	U		NA	0.05	U		NA	0 05	U
Endosulfan II	0.10	U		NA	0 10	U		NA	0.10	U		NA	0 10	U
Endosulfan Sulfate	0.10	U		NA	0 10	U		NA	0.10	U		NA	0 10	U
Endrin	0.10	U		NA	0.10	U		NA	0.10	U		NA	0 10	U
Endrin Aldehyde	0.10	U		NA	0.10	U		NA		NA		NA		NA
Endrin Ketone	0.10	U		NA	0.10	U		NA	0.10	U		NA	0.10	U
gamma-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA	0.05	U
gamma-Chlordane	0.05	U		NA	0.05	U		NA	0.05	U		NA	0 05	U
Heptachlor	0 05	U		NA	0 05	U		NA	0 05	U		NA	0 05	U
Heptachlor Epoxide	0 05	U		NA	0 05	U		NA	0 05	U		NA	0 05	U
Methoxychlor	0.50	U		NA	0.50	U		NA	0 50	U		NA	0 50	U
Toxaphene	5 0	U		NA	5 0	U		NA	5 0	U		NA	5 0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2052-01		LPX-SW-2052-01F		LPX-SW-2053-01		LPX-SW-2053-01F		RAB-SW-3004-01		RAB-SW-3004-01F		RCC-SW-3001-01	
Sample Location	LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004		RAB-SD-3004		RCC-SD-3001	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None		None		None		None	
Dioxin Analysis (PG/L)	D00969				D00990				D01048				D01049	
1,2,3,4,6,7,8-HpCDD	6 4	U		NA	5 9	J		NA	6.0	U		NA	12 4	J
1,2,3,4,6,7,8-HpCDF	5 0	U		NA	5.3	UJ		NA	3 6	U		NA	5 3	U
1,2,3,4,7,8,9-HpCDF	7.6	U		NA	0.00	UJ		NA	4 6	U		NA	4 9	U
1,2,3,4,7,8-HxCDD	4.4	U		NA	5.0	UJ		NA	4 0	U		NA	4 2	U
1,2,3,4,7,8-HxCDF	3.1	U		NA	3.6	UJ		NA	2.6	U		NA	2.7	U
1,2,3,6,7,8-HxCDD	4.5	U		NA	5.0	UJ		NA	3.7	U		NA	4 0	U
1,2,3,6,7,8-HxCDF	3.1	U		NA	3.6	UJ		NA	2 4	U		NA	2 5	U
1,2,3,7,8,9-HxCDD	4.7	U		NA	5.4	UJ		NA	3.9	U		NA	4 1	U
1,2,3,7,8,9-HxCDF	4.0	U		NA	4.6	UJ		NA	2.8	U		NA	3 0	U
1,2,3,7,8-PeCDD	3.7	U		NA	4.4	UJ		NA	3 5	U		NA	3 4	U
1,2,3,7,8-PeCDF	3.1	U		NA	4.1	UJ		NA	2.4	U		NA	2 6	U
1,2,4,5,7,8-hexachloro(9H)xanthene	0.00	U		NA	0.00	U		NA	0.00	U		NA	0.00	U
2,3,4,6,7,8-HxCDF	3.3	U		NA	3.8	UJ		NA	2.5	U		NA	2 7	U
2,3,4,7,8-PeCDF	3.3	U		NA	4.4	UJ		NA	2.5	U		NA	2 8	U
2,3,7,8-TCDD	4.7	U		NA	6.5	UJ		NA	3.2	U		NA	3.4	U
2,3,7,8-TCDF	4.0	U		NA	0.00	UJ		NA	2.8	U		NA	2.7	U
OCDD	29.7			NA	24.2	J		NA	14.0	U		NA	79.9	U
OCDF	9.1	U		NA	9.9	UJ		NA	8.1	U		NA	11 1	U
Total HpCDD	6.4	UJ		NA	5.9	J		NA	6.0	UJ		NA	24.6	J
Total HpCDF	6.0	UJ		NA	6.4	UJ		NA	4.0	UJ		NA	5 3	UJ
Total HxCDD	4.5	UJ		NA	5.1	UJ		NA	3.9	UJ		NA	4 1	UJ
Total HxCDF	3.4	UJ		NA	3.9	UJ		NA	2.6	UJ		NA	2 7	UJ
Total PeCDD	3 7	UJ		NA	4.4	UJ		NA	3.5	UJ		NA	3 4	UJ
Total PeCDF	3.2	UJ		NA	4.2	UJ		NA	2.4	UJ		NA	2.7	UJ
Total TCDD	4.7	UJ		NA	6.5	UJ		NA	3.2	UJ		NA	3 4	UJ
Total TCDF	4.0	UJ		NA	7.4	UJ		NA	2.8	UJ		NA	2 7	UJ
Toxicity Equivalency	6 6			NA	8 1			NA	0.03			NA	0.12	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	LPX-SW-2052-01		LPX-SW-2052-01F		LPX-SW-2053-01		LPX-SW-2053-01F		RAB-SW-3004-01		RAB-SW-3004-01F		RCC-SW-3001-01	
Sample Location	LPX-SD-2052		LPX-SD-2052		LPX-SD-2053		LPX-SD-2053		RAB-SD-3004		RAB-SD-3004		RCC-SD-3001	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/4/99		11/4/99		11/4/99		11/4/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		None		None		None		None		None		None	
TAL Metal Analysis (UG/L)	**MAMB86**		**MAMB87**		**MAMB88**		**MAMB89**		**MALJ26**		**MALJ27**		**MALJ23**	
Aluminum	85.4		41.0	J	58.6	J	42.2	J	263		68.8	U	166	
Antimony	2.1	UJ	2.1	UJ	2.1	UJ	2.1	UJ	5.0	U	5.0	U	5.0	U
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U	6.0	U	6.0	U	6.0	U
Barium	20.6		218		19.1		201		25.0		21.6	U	22.6	
Beryllium	0.10	UJ	0.10	U	0.10	U	0.10	U	1.0	U	1.0	U	1.0	U
Cadmium	0.30	U	0.30	U	0.30	U	0.30	U	1.0	U	1.0	U	1.0	U
Calcium	9180		8050		8630		8070		8650		8590		9310	
Chromium	0.40	UJ	0.40	UJ	0.30	UJ	0.40	UJ	1.0	U	1.0	U	2.5	
Cobalt	0.60	U	0.60	U	0.60	U	0.60	U	1.0	U	1.0	U	1.0	U
Copper	3.0		1.8		1.3		2.1		3.5		3.4		12.6	
Iron	414		244		356		274		1110		496		657	
Lead	1.4	UJ	1.5	UJ	1.1	UJ	1.1	U	2.0	U	2.0	U	6.8	
Magnesium	1420		1310		1330		1330		1650		1610		1430	J
Manganese	95.6		54.4		87.5		74.8		166		127		126	
Mercury	0.10	U	0.10	U	0.10	U	0.10	U	0.20	U	0.20	U	0.20	U
Nickel	1.3	U	1.3	U	1.3	U	1.3	U	2.1	J	2.0	U	3.5	J
Potassium	2440		2160		2270		2110		1540		1530		1890	
Selenium	1.8	U	1.8	U	1.8	U	1.8	U	5.0	U	5.0	U	5.0	U
Silver	0.40	U	0.40	U	0.40	U	0.40	U	1.0	U	1.0	U	1.1	UJ
Sodium	22900		23600		21100		24000		18600		18600	U	21600	
Thallium	2.1	U	2.1	U	2.1	U	2.1	U	7.0	U	7.0	U	7.0	U
Vanadium	0.50	U	0.50	U	0.50	U	0.50	U	2.0	U	2.0	U	2.2	
Zinc	23.0	J	70.8		16.3	J	88.3		66.5		20.6		48.2	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3001-01F		RCC-SW-3002-01		RCC-SW-DU-111099A		RCC-SW-3002-01-MAX		RCC-SW-3002-01F	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002	
Interval	0-0-0		0-0-0		0-0-0		0-0-0		0-0-0	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		None	
Semivolatile Organic Analysis (UG/L)			AQB73				AQB73			
1,1'-Biphenyl		NA	10	U		NA	10	U		NA
2,2'-oxybis(1-Chloropropane)		NA	10	U		NA	10	U		NA
2,4,5-Trichlorophenol		NA	25	U		NA	25	U		NA
2,4,6-Trichlorophenol		NA	10	U		NA	10	U		NA
2,4-Dichlorophenol		NA	10	U		NA	10	U		NA
2,4-Dimethylphenol		NA	10	U		NA	10	U		NA
2,4-Dinitrophenol		NA	25	UJ		NA	25	U		NA
2,4-Dinitrotoluene		NA	10	U		NA	10	U		NA
2,6-Dinitrotoluene		NA	10	U		NA	10	U		NA
2-Chloronaphthalene		NA	10	U		NA	10	U		NA
2-Chlorophenol		NA	10	U		NA	10	U		NA
2-Methylnaphthalene		NA	10	U		NA	10	U		NA
2-Methylphenol		NA	10	U		NA	10	U		NA
2-Nitroaniline		NA	25	U		NA	25	U		NA
2-Nitrophenol		NA	10	U		NA	10	U		NA
3,3'-Dichlorobenzidine		NA	10	U		NA	10	U		NA
3-Nitroaniline		NA	25	U		NA	25	U		NA
4,6-Dinitro-2-methylphenol		NA	25	U		NA	25	U		NA
4-Bromophenyl-phenylether		NA	10	U		NA	10	U		NA
4-Chloro-3-methylphenol		NA	10	U		NA	10	U		NA
4-Chloroaniline		NA	10	U		NA	10	U		NA
4-Chlorophenyl-phenylether		NA	10	U		NA	10	U		NA
4-Methylphenol		NA	10	U		NA	10	U		NA
4-Nitroaniline		NA	25	U		NA	25	U		NA
4-Nitrophenol		NA	25	U		NA	25	U		NA
Acenaphthene		NA	10	U		NA	10	U		NA
Acenaphthylene		NA	10	U		NA	10	U		NA
Acetophenone		NA	10	U		NA	10	U		NA
Anthracene		NA	10	U		NA	10	U		NA
Atrazine		NA	10	U		NA	10	U		NA
Benzaldehyde		NA	10	U		NA	10	U		NA
Benzo(a)anthracene		NA	10	U		NA	10	U		NA
Benzo(a)pyrene		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3001-01F		RCC-SW-3002-01		RCC-SW-DU-111099A		RCC-SW-3002-01-MAX		RCC-SW-3002-01F	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC SD-3002		RCC-SD-3002	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		Field Dup RCC-SW-3002-01		None	
Benzo(b)fluoranthene		NA	10	U		NA	10	U		NA
Benzo(g,h,i)perylene		NA	10	U		NA	10	U		NA
Benzo(k)fluoranthene		NA	10	U		NA	10	U		NA
Bis(2-Chloroethoxy)methane		NA	10	U		NA	10	U		NA
Bis(2-Chloroethyl)ether		NA	10	U		NA	10	U		NA
bis(2-Ethylhexyl)phthalate		NA	10	U		NA	10	U		NA
Butylbenzylphthalate		NA	10	U		NA	10	U		NA
Caprolactam		NA	10	U		NA	10	U		NA
Carbazole		NA	10	U		NA	10	U		NA
Chrysene		NA	10	U		NA	10	U		NA
Di-n-Butylphthalate		NA	10	U		NA	10	U		NA
Di-n-octylphthalate		NA	10	U		NA	10	U		NA
Dibenzo(a,h)anthracene		NA	10	U		NA	10	U		NA
Dibenzofuran		NA	10	U		NA	10	U		NA
Diethylphthalate		NA	10	U		NA	10	U		NA
Dimethylphthalate		NA	10	U		NA	10	U		NA
Fluoranthene		NA	10	U		NA	10	U		NA
Fluorene		NA	10	U		NA	10	U		NA
Hexachlorobenzene		NA	10	U		NA	10	U		NA
Hexachlorobutadiene		NA	10	U		NA	10	U		NA
Hexachlorocyclopentadiene		NA	10	U		NA	10	U		NA
Hexachloroethane		NA	10	U		NA	10	U		NA
Indeno(1,2,3-cd)pyrene		NA	10	U		NA	10	U		NA
Isophorone		NA	10	U		NA	10	U		NA
N-Nitroso-di-n-propylamine		NA	10	U		NA	10	U		NA
N-Nitroso-diphenylamine		NA	10	U		NA	10	U		NA
Naphthalene		NA	10	U		NA	10	U		NA
Nitrobenzene		NA	10	U		NA	10	U		NA
Pentachlorophenol		NA	25	U		NA	25	U		NA
Phenanthrene		NA	10	U		NA	10	U		NA
Phenol		NA	10	U		NA	10	U		NA
Pyrene		NA	10	U		NA	10	U		NA
Total PAH		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3001-01F		RCC-SW-3002-01		RCC-SW-DU-111099A		RCC-SW-3002-01-MAX		RCC-SW-3002-01F	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		None	
Pesticide/PCB Analysis (UG/L)			AQB73				AQB73			
4,4'-DDD		NA	0 10	U		NA	0 10	U		NA
4,4'-DDE		NA	0 10	U		NA	0 10	U		NA
4,4'-DDT		NA	0 10	U		NA	0 10	U		NA
Aldrin		NA	0 05	U		NA	0 05	U		NA
alpha-BHC		NA	0 05	U		NA	0 05	U		NA
alpha-Chlordane		NA	0 05	U		NA	0 05	U		NA
Aroclor, Total		NA	2 0	U		NA	2 0	U		NA
Aroclor-1016		NA	1 0	U		NA	1 0	U		NA
Aroclor-1221		NA	2 0	U		NA	2 0	U		NA
Aroclor-1232		NA		NA		NA		NA		NA
Aroclor-1242		NA	1 0	U		NA	1 0	U		NA
Aroclor-1248		NA	1 0	U		NA	1 0	U		NA
Aroclor-1254		NA	1 0	U		NA	1 0	U		NA
Aroclor-1260		NA	1 0	U		NA	1 0	U		NA
beta-BHC		NA	0 05	U		NA	0 05	U		NA
delta-BHC		NA	0 05	U		NA	0 05	U		NA
Dieldrin		NA	0 10	U		NA	0 10	U		NA
Endosulfan I		NA	0 05	U		NA	0 05	U		NA
Endosulfan II		NA	0 10	U		NA	0 10	U		NA
Endosulfan Sulfate		NA	0 10	U		NA	0 10	U		NA
Endrin		NA	0 10	U		NA	0 10	U		NA
Endrin Aldehyde		NA		NA		NA		NA		NA
Endrin Ketone		NA	0 10	U		NA	0 10	U		NA
gamma-BHC		NA	0 05	U		NA	0 05	U		NA
gamma-Chlordane		NA	0 05	U		NA	0 05	U		NA
Heptachlor		NA	0 05	U		NA	0 05	U		NA
Heptachlor Epoxide		NA	0 05	U		NA	0 05	U		NA
Methoxychlor		NA	0 50	U		NA	0 50	U		NA
Toxaphene		NA	5 0	U		NA	5 0	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3001-01F		RCC-SW-3002-01		RCC-SW-DU-111099A		RCC-SW-3002-01-MAX		RCC-SW-3002-01F	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		None	
Dioxin Analysis (PG/L)			D01037				D01037			
1,2,3,4,6,7,8-HpCDD		NA	8.4	U		NA	8.4	U		NA
1,2,3,4,6,7,8-HpCDF		NA	5.3	U		NA	5.3	U		NA
1,2,3,4,7,8,9-HpCDF		NA	6.8	U		NA	6.8	U		NA
1,2,3,4,7,8-HxCDD		NA	5.4	U		NA	5.4	U		NA
1,2,3,4,7,8-HxCDF		NA	4.4	U		NA	4.4	U		NA
1,2,3,6,7,8-HxCDD		NA	5.1	U		NA	5.1	U		NA
1,2,3,6,7,8-HxCDF		NA	4.1	U		NA	4.1	U		NA
1,2,3,7,8,9-HxCDD		NA	5.3	U		NA	5.3	U		NA
1,2,3,7,8,9-HxCDF		NA	4.8	U		NA	4.8	U		NA
1,2,3,7,8-PeCDD		NA	4.8	U		NA	4.8	U		NA
1,2,3,7,8-PeCDF		NA	3.6	U		NA	3.6	U		NA
1,2,4,5,7,8-hexachloro(9H)xanthene		NA	0.00	U		NA		NA		NA
2,3,4,6,7,8-HxCDF		NA	4.3	U		NA	4.3	U		NA
2,3,4,7,8-PeCDF		NA	3.8	U		NA	3.8	U		NA
2,3,7,8-TCDD		NA	5.3	U		NA	5.3	U		NA
2,3,7,8-TCDF		NA	4.8	U		NA	4.8	U		NA
OCDD		NA	29.5	U		NA	29.5	U		NA
OCDF		NA	10.1	U		NA	10.1	U		NA
Total HpCDD		NA	8.4	UJ		NA	8.4	U		NA
Total HpCDF		NA	5.9	UJ		NA	5.9	U		NA
Total HxCDD		NA	5.3	UJ		NA	5.3	U		NA
Total HxCDF		NA	4.4	UJ		NA	4.4	U		NA
Total PeCDD		NA	4.8	UJ		NA	4.8	U		NA
Total PeCDF		NA	3.7	UJ		NA	3.7	U		NA
Total TCDD		NA	5.3	UJ		NA	5.3	U		NA
Total TCDF		NA	4.8	UJ		NA	4.8	U		NA
Toxicity Equivalency		NA	0.042			NA	0.042			NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3001-01F		RCC-SW-3002-01		RCC-SW-DU-111099A		RCC-SW-3002-01-MAX		RCC-SW-3002-01F	
Sample Location	RCC-SD-3001		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002		RCC-SD-3002	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/10/99		11/10/99		11/10/99		11/10/99		11/10/99	
QC Identifier	None		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		Field Dup. RCC-SW-3002-01		None	
TAL Metal Analysis (UG/L)	MALJ24		MALJ18		MALJ20		MALJ18		MALJ18	
Aluminum	14 0	U	548		583		583		25 0	UJ
Antimony	5 0	U	5 0	U	5 0	U	5 0	U	5 0	U
Arsenic	6 0	U	6 0	U	6 0	U	6 0	U	6 0	U
Barium	15 5	U	27 2		26 8		27 2		17 2	U
Beryllium	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U
Cadmium	4 0		1 0	U	1 0	U	1 0	U	1 0	U
Calcium	7500		8770		8340		8770		7210	
Chromium	1 0	U	8 0		8 3		8 3		1 0	U
Cobalt	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U
Copper	3 1		25 8		23 5		25 8		5 5	
Iron	193		1410		1590		1590		173	
Lead	2 0	U	19 6		21 4		21 4		2 0	U
Magnesium	1220		1470		1410		1470		1220	
Manganese	45 7		142		146		146		112	
Mercury	0 20	U	0 20	U	0 20	U	0 20	U	0 20	U
Nickel	23 2		6 0		6 3		6 3		3 6	J
Potassium	1750		1930		1830		1930		1740	
Selenium	5 0	U	5 0	U	5 0	U	5 0	U	5 0	U
Silver	1 0	U	1 0	U	1 3	UJ	1 0	U	1 0	U
Sodium	21200		21200		20000		21200		20600	
Thallium	7 0	U	7 0	U	7 0	U	7 0	U	7 0	U
Vanadium	2 0	U	4 0		4 2		4 2		2 0	U
Zinc	28 0		76 0		63 6		76 0		34 3	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3003-01		RCC-SW-3003-01F		WRC-SW-2009-01		WRC-SW-2009-01F		WRC-SW-2010-01		WRC-SW-2010-01F	
Sample Location	RCC-SD-3003		RCC-SD-3003		WRC-SD-2009		WRC-SD-2009		WRC-SD-2010		WRC-SD-2010	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/10/99		11/10/99		11/1/99		11/1/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None		None	
Semivolatile Organic Analysis (UG/L)	AQB74				AQB44				AQB48			
1,1'-Biphenyl	10	U		NA	10	U		NA	10	U		NA
2,2'-oxybis(1-Chloropropane)	10	U		NA	10	U		NA	10	UJ		NA
2,4,5-Trichlorophenol	25	U		NA	25	U		NA	25	U		NA
2,4,6-Trichlorophenol	10	U		NA	10	U		NA	10	U		NA
2,4-Dichlorophenol	10	U		NA	10	U		NA	10	U		NA
2,4-Dimethylphenol	10	U		NA	10	U		NA	10	U		NA
2,4-Dinitrophenol	25	UJ		NA	25	UJ		NA	25	U		NA
2,4-Dinitrotoluene	10	U		NA	10	U		NA	10	U		NA
2,6-Dinitrotoluene	10	U		NA	10	U		NA	10	U		NA
2-Chloronaphthalene	10	U		NA	10	U		NA	10	U		NA
2-Chlorophenol	10	U		NA	10	U		NA	10	U		NA
2-Methylnaphthalene	10	U		NA	10	U		NA	10	U		NA
2-Methylphenol	10	U		NA	10	U		NA	10	U		NA
2-Nitroaniline	25	U		NA	25	U		NA	25	U		NA
2-Nitrophenol	10	U		NA	10	U		NA	10	U		NA
3,3'-Dichlorobenzidine	10	U		NA	10	U		NA	10	U		NA
3-Nitroaniline	25	U		NA	25	U		NA	25	U		NA
4,6-Dinitro-2-methylphenol	25	U		NA	25	UJ		NA	25	U		NA
4-Bromophenyl-phenylether	10	U		NA	10	U		NA	10	U		NA
4-Chloro-3-methylphenol	10	U		NA	10	U		NA	10	U		NA
4-Chloroaniline	10	U		NA	10	U		NA	10	U		NA
4-Chlorophenyl-phenylether	10	U		NA	10	U		NA	10	U		NA
4-Methylphenol	10	U		NA	10	U		NA	10	U		NA
4-Nitroaniline	25	U		NA	25	U		NA	25	UJ		NA
4-Nitrophenol	25	U		NA	25	U		NA	25	U		NA
Acenaphthene	10	U		NA	10	U		NA	10	U		NA
Acenaphthylene	10	U		NA	10	U		NA	10	U		NA
Acetophenone	10	U		NA	10	U		NA	10	U		NA
Anthracene	10	U		NA	10	U		NA	10	U		NA
Atrazine	10	U		NA	10	U		NA	10	U		NA
Benzaldehyde	10	U		NA	10	UJ		NA	10	UJ		NA
Benzo(a)anthracene	10	U		NA	10	U		NA	10	U		NA
Benzo(a)pyrene	10	U		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3003-01		RCC-SW-3003-01F		WRC-SW-2009-01		WRC-SW-2009-01F		WRC-SW-2010-01		WRC-SW-2010-01F	
Sample Location	RCC-SD-3003		RCC-SD-3003		WRC-SD-2009		WRC-SD-2009		WRC-SD-2010		WRC-SD-2010	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/10/99		11/10/99		11/1/99		11/1/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None		None	
Benzo(b)fluoranthene	10	U		NA	10	U		NA	10	U		NA
Benzo(g,h,i)perylene	10	U		NA	10	U		NA	10	U		NA
Benzo(k)fluoranthene	10	U		NA	10	U		NA	10	U		NA
Bis(2-Chloroethoxy)methane	10	U		NA	10	U		NA	10	U		NA
Bis(2-Chloroethyl)ether	10	U		NA	10	U		NA	10	UJ		NA
bis(2-Ethylhexyl)phthalate	10	U		NA	10	U		NA	10	U		NA
Butylbenzylphthalate	10	U		NA	10	U		NA	10	U		NA
Caprolactam	10	U		NA	10	U		NA	10	U		NA
Carbazole	10	U		NA	10	U		NA	10	U		NA
Chrysene	10	U		NA	10	U		NA	10	U		NA
Di-n-Butylphthalate	10	U		NA	10	U		NA	10	U		NA
Di-n-octylphthalate	10	U		NA	10	U		NA	10	U		NA
Dibenzo(a,h)anthracene	10	U		NA	10	U		NA	10	U		NA
Dibenzofuran	10	U		NA	10	U		NA	10	U		NA
Diethylphthalate	10	U		NA	10	U		NA	10	U		NA
Dimethylphthalate	10	U		NA	10	U		NA	10	U		NA
Fluoranthene	10	U		NA	10	U		NA	10	U		NA
Fluorene	10	U		NA	10	U		NA	10	U		NA
Hexachlorobenzene	10	U		NA	10	U		NA	10	U		NA
Hexachlorobutadiene	10	U		NA	10	U		NA	10	U		NA
Hexachlorocyclopentadiene	10	U		NA	10	U		NA	10	U		NA
Hexachloroethane	10	U		NA	10	U		NA	10	U		NA
Indeno(1,2,3-cd)pyrene	10	U		NA	10	U		NA	10	U		NA
Isophorone	10	U		NA	10	U		NA	10	U		NA
N-Nitroso-di-n-propylamine	10	U		NA	10	U		NA	10	U		NA
N-Nitroso-diphenylamine	10	U		NA	10	U		NA	10	U		NA
Naphthalene	10	U		NA	10	U		NA	10	U		NA
Nitrobenzene	10	U		NA	10	U		NA	10	U		NA
Pentachlorophenol	25	U		NA	25	U		NA	25	UJ		NA
Phenanthrene	10	U		NA	10	U		NA	10	U		NA
Phenol	10	U		NA	10	U		NA	10	U		NA
Pyrene	10	U		NA	10	U		NA	10	U		NA
Total PAH	10	U		NA	10	U		NA	10	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3003-01		RCC-SW-3003-01F		WRC-SW-2009-01		WRC-SW-2009-01F		WRC-SW-2010-01		WRC-SW-2010-01F	
Sample Location	RCC-SD-3003		RCC-SD-3003		WRC-SD-2009		WRC-SD-2009		WRC-SD-2010		WRC-SD-2010	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/10/99		11/10/99		11/1/99		11/1/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)	AQB74				AQB44				AQB48			
4,4'-DDD	0.10	U		NA	0.10	U		NA	0.10	U		NA
4,4'-DDE	0.10	U		NA	0.10	U		NA	0.10	U		NA
4,4'-DDT	0.10	U		NA	0.10	U		NA	0.10	U		NA
Aldrin	0.05	U		NA	0.05	U		NA	0.05	U		NA
alpha-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
alpha-Chlordane	0.05	U		NA	0.05	U		NA	0.05	U		NA
Aroclor, Total	2.0	U		NA	2.0	U		NA	2.0	U		NA
Aroclor-1016	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1221	2.0	U		NA	2.0	U		NA	2.0	U		NA
Aroclor-1232		NA		NA	1.0	U		NA	1.0	U		NA
Aroclor-1242	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1248	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1254	1.0	U		NA	1.0	U		NA	1.0	U		NA
Aroclor-1260	1.0	U		NA	1.0	U		NA	1.0	U		NA
beta-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
delta-BHC	0.05	U		NA	0.0017	J		NA	0.05	U		NA
Dieldrin	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endosulfan I	0.05	U		NA	0.05	U		NA	0.05	U		NA
Endosulfan II	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endosulfan Sulfate	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endrin	0.10	U		NA	0.10	U		NA	0.10	U		NA
Endrin Aldehyde		NA		NA	0.0028	J		NA	0.10	U		NA
Endrin Ketone	0.10	U		NA	0.10	U		NA	0.10	U		NA
gamma-BHC	0.05	U		NA	0.05	U		NA	0.05	U		NA
gamma-Chlordane	0.05	U		NA	0.05	U		NA	0.05	U		NA
Heptachlor	0.05	U		NA	0.05	U		NA	0.05	U		NA
Heptachlor Epoxide	0.05	U		NA	0.05	U		NA	0.05	U		NA
Methoxychlor	0.50	U		NA	0.50	U		NA	0.50	U		NA
Toxaphene	5.0	U		NA	5.0	U		NA	5.0	U		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC SW-3003-01		RCC SW-3003-01F		WRC-SW-2009-01		WRC-SW-2009-01F		WRC-SW-2010-01		WRC-SW-2010-01F	
Sample Location	RCC-SD-3003		RCC SD-3003		WRC-SD-2009		WRC-SD-2009		WRC-SD-2010		WRC-SD-2010	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/10/99		11/10/99		11/1/99		11/1/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None		None	
Dioxin Analysis (PG/L)	D01041				D00955				D00963			
1,2,3,4,6,7,8-HpCDD	7 2	U		NA	6 8	UJ		NA	31 8	J		NA
1,2,3,4,6,7,8-HpCDF	4 4	U		NA	4 6	UJ		NA	11 4	J		NA
1,2,3,4,7,8,9-HpCDF	5 6	U		NA	6 0	UJ		NA	7 8	U		NA
1,2,3,4,7,8-HxCDD	4 8	U		NA	4 6	UJ		NA	4 7	U		NA
1,2,3,4,7,8-HxCDF	3 3	U		NA	3 9	UJ		NA	3 6	U		NA
1,2,3,6,7,8-HxCDD	4 5	U		NA	4 3	UJ		NA	4 7	U		NA
1,2,3,6,7,8-HxCDF	3 1	U		NA	3 7	UJ		NA	3 6	U		NA
1,2,3,7,8,9-HxCDD	4 6	U		NA	4 5	UJ		NA	5 0	U		NA
1,2,3,7,8,9-HxCDF	3 7	U		NA	4 4	UJ		NA	4 5	U		NA
1,2,3,7,8-PeCDD	4 1	U		NA	4 2	UJ		NA	3 8	U		NA
1,2,3,7,8-PeCDF	2 9	U		NA	4 4	UJ		NA	3 5	U		NA
1,2,4,5,7,8-hexachloro(9H)xanthene	0 00	U		NA	0 00	U		NA	0 00	U		NA
2,3,4,6,7,8-HxCDF	3 3	U		NA	3 9	UJ		NA	3 8	U		NA
2,3,4,7,8-PeCDF	3 0	U		NA	4 6	UJ		NA	3 8	U		NA
2,3,7,8-TCDD	4 0	U		NA	7 2	UJ		NA	10 3	J		NA
2,3,7,8-TCDF	3 5	U		NA	8 6	UJ		NA	4 6	U		NA
OCDD	11 9	U		NA	9 7	UJ		NA	212			NA
OCDF	10 1	U		NA	8 3	UJ		NA	28 6	J		NA
Total HpCDD	7 2	UJ		NA	6 8	UJ		NA	53 0	J		NA
Total HpCDF	4 9	UJ		NA	5 2	UJ		NA	28 2	J		NA
Total HxCDD	4 6	UJ		NA	4 5	UJ		NA	4 8	UJ		NA
Total HxCDF	3 3	UJ		NA	4 0	UJ		NA	4 2	J		NA
Total PeCDD	4 1	UJ		NA	4 2	UJ		NA	3 8	UJ		NA
Total PeCDF	2 9	UJ		NA	4 5	UJ		NA	3 7	UJ		NA
Total TCDD	4 0	UJ		NA	7 2	UJ		NA	10 3	J		NA
Total TCDF	3 5	UJ		NA	8 6	UJ		NA	4 6	UJ		NA
Toxicity Equivalency	0 038			NA	8 7			NA	15 2			NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	RCC-SW-3003-01		RCC-SW-3003-01P		WRC-SW-2009-01		WRC-SW-2009-01P		WRC-SW-2010-01		WRC-SW-2010-01P	
Sample Location	RCC-SD-3003		RCC-SD-3003		WRC-SD-2009		WRC-SD-2009		WRC-SD-2010		WRC-SD-2010	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/10/99		11/10/99		11/1/99		11/1/99		11/2/99		11/2/99	
QC Identifier	None		None		None		None		None		None	
TAL Metal Analysis (UG/L)	MALJ21		MALJ22		MAMF82		MAMF83		MAMF90		MAMI01	
Aluminum	21.4	UJ	14.0	U	44.2	J	46.3	J	182		49.0	J
Antimony	5.0	U	5.0	U	2.1	UJ	2.1	UJ	2.1	UJ	2.1	UJ
Arsenic	6.0	U	6.0	U	2.2	U	5.9		2.2	U	2.2	U
Barium	35.7		34.0	U	18.0		233		20.9		198	
Beryllium	1.0	U	1.0	U	0.10	U	0.10	U	0.10	U	0.10	U
Cadmium	1.0	U	1.0	U	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	38100		38300		8140		8460		8150		8850	
Chromium	1.0	U	1.0	U	0.60	U	0.60	U	1.6		0.70	U
Cobalt	1.0	U	1.0	U	0.60	U	0.60	U	0.60	U	0.60	U
Copper	5.5		1.0	U	1.8		3.3		3.2		1.7	
Iron	826		267		229		232		571		201	
Lead	2.0	U	2.0	U	1.1	U	1.9	UJ	6.7	J	1.1	U
Magnesium	6780		6820		1340		1410		1340		1460	
Manganese	531		451		49.4		34.8		117		55.0	
Mercury	0.20	U	0.20	U	0.10	U	0.10	U	0.10	U	0.10	U
Nickel	2.0	U	2.0	U	1.8	J	1.3	U	1.6	J	1.3	U
Potassium	5210		5270		2470		2520		2230		2380	
Selenium	5.0	U	5.0	U	2.8	UJ	1.8	U	1.8	U	2.0	UJ
Silver	1.3	UJ	1.0	U	0.40	U	0.40	U	0.40	U	0.40	U
Sodium	16800		17000	U	22600		28000		22000		28400	
Thallium	7.0	U	7.0	U	4.1	UJ	2.1	U	2.8	UJ	2.1	U
Vanadium	2.0	U	2.0	U	0.50	U	0.50	U	0.80	J	0.50	U
Zinc	16.1		16.7		12.9	U	86.9		15.6	J	69.6	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2011-01		WRC-SW-DU-110299A		WRC-SW-2011-01-MAX		01F		WRC-SW-2012-01	
Sample Location	WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0 0-0.0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/2/99		11/2/99		11/2/99		11/2/99		11/2/00	
QC Identifier	01		01		01		None		None	
Semivolatile Organic Analysis (UG/L)	AQB49				AQB49				AQB50	
1,1'-Biphenyl	10	U		NA	10	U		NA	10	U
2,2'-oxybis(1-Chloropropane)	10	U		NA	10	U		NA	10	U
2,4,5-Trichlorophenol	25	U		NA	25	U		NA	25	U
2,4,6-Trichlorophenol	10	U		NA	10	U		NA	10	U
2,4-Dichlorophenol	10	U		NA	10	U		NA	10	U
2,4-Dimethylphenol	10	U		NA	10	U		NA	10	U
2,4-Dinitrophenol	25	UJ		NA	25	U		NA	25	UJ
2,4-Dinitrotoluene	10	U		NA	10	U		NA	10	U
2,6-Dinitrotoluene	10	U		NA	10	U		NA	10	U
2-Chloronaphthalene	10	U		NA	10	U		NA	10	U
2-Chlorophenol	10	U		NA	10	U		NA	10	U
2-Methylnaphthalene	10	U		NA	10	U		NA	10	U
2-Methylphenol	10	U		NA	10	U		NA	10	U
2-Nitroaniline	25	U		NA	25	U		NA	25	U
2-Nitrophenol	10	U		NA	10	U		NA	10	U
3,3'-Dichlorobenzidine	10	U		NA	10	U		NA	10	U
3-Nitroaniline	25	U		NA	25	U		NA	25	U
4,6-Dinitro-2-methylphenol	25	UJ		NA	25	U		NA	25	UJ
4-Bromophenyl-phenylether	10	U		NA	10	U		NA	10	U
4-Chloro-3-methylphenol	10	U		NA	10	U		NA	10	U
4-Chloroaniline	10	U		NA	10	U		NA	10	U
4-Chlorophenyl-phenylether	10	U		NA	10	U		NA	10	U
4-Methylphenol	10	U		NA	10	U		NA	10	U
4-Nitroaniline	25	U		NA	25	U		NA	25	U
4-Nitrophenol	25	U		NA	25	U		NA	25	U
Acenaphthene	10	U		NA	10	U		NA	10	U
Acenaphthylene	10	U		NA	10	U		NA	10	U
Acetophenone	10	U		NA	10	U		NA	10	U
Anthracene	10	U		NA	10	U		NA	10	U
Atrazine	10	U		NA	10	U		NA	10	U
Benzaldehyde	10	UJ		NA	10	U		NA	10	U
Benzo(a)anthracene	10	U		NA	10	U		NA	10	U
Benzo(a)pyrene	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC SW-2011-01		WRC SW-DU-110299A		WRC-SW-2011-01-MAX		01F		WRC-SW-2012-01	
Sample Location	WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/2/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	01		01		01		None		None	
Benzo(b)fluoranthene	10	U			NA	10	U		NA	10 U
Benzo(g,h,i)perylene	10	U			NA	10	U		NA	10 U
Benzo(k)fluoranthene	10	U			NA	10	U		NA	10 U
Bis(2-Chloroethoxy)methane	10	U			NA	10	U		NA	10 U
Bis(2-Chloroethyl)ether	10	U			NA	10	U		NA	10 U
bis(2-Ethylhexyl)phthalate	10	U			NA	10	U		NA	10 U
Butylbenzylphthalate	10	U			NA	10	U		NA	10 U
Caprolactam	10	U			NA	10	U		NA	10 U
Carbazole	10	U			NA	10	U		NA	10 U
Chrysene	10	U			NA	10	U		NA	10 U
Di-n-Butylphthalate	10	U			NA	10	U		NA	10 U
Di-n-octylphthalate	10	U			NA	10	U		NA	10 U
Dibenzo(a,h)anthracene	10	U			NA	10	U		NA	10 U
Dibenzofuran	10	U			NA	10	U		NA	10 U
Diethylphthalate	10	U			NA	10	U		NA	10 U
Dimethylphthalate	10	U			NA	10	U		NA	10 U
Fluoranthene	10	U			NA	10	U		NA	10 U
Fluorene	10	U			NA	10	U		NA	10 U
Hexachlorobenzene	10	U			NA	10	U		NA	10 U
Hexachlorobutadiene	10	U			NA	10	U		NA	10 U
Hexachlorocyclopentadiene	10	U			NA	10	U		NA	10 U
Hexachloroethane	10	U			NA	10	U		NA	10 U
Indeno(1,2,3-cd)pyrene	10	U			NA	10	U		NA	10 U
Isophorone	10	U			NA	10	U		NA	10 U
N-Nitroso-di-n-propylamine	10	U			NA	10	U		NA	10 U
N-Nitroso-diphenylamine	10	U			NA	10	U		NA	10 U
Naphthalene	10	U			NA	10	U		NA	10 U
Nitrobenzene	10	U			NA	10	U		NA	10 U
Pentachlorophenol	25	U			NA	25	U		NA	25 U
Phenanthrene	10	U			NA	10	U		NA	10 U
Phenol	10	U			NA	10	U		NA	10 U
Pyrene	10	U			NA	10	U		NA	10 U
Total PAH	10	U			NA	10	U		NA	10 U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC SW-2011-01		WRC SW DU-110299A		WRC SW-2011-01-MAX		01F		WRC SW-2012-01	
Sample Location	WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/2/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	01		01		01		None		None	
Pesticide/PCB Analysis (UG/L)	AQB49				AQB49				AQB50	
4,4'-DDD	0 10	U		NA	0 10	U		NA	0 10	U
4,4'-DDE	0 10	U		NA	0 10	U		NA	0 10	U
4,4'-DDT	0 10	U		NA	0 10	U		NA	0 10	U
Aldrin	0 05	U		NA	0 05	U		NA	0 05	U
alpha-BHC	0 05	U		NA	0 05	U		NA	0 05	U
alpha-Chlordane	0 05	U		NA	0 05	U		NA	0 05	U
Aroclor, Total	2 0	U		NA	2 0	U		NA	2 0	U
Aroclor-1016	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1221	2 0	U		NA	2 0	U		NA	2 0	U
Aroclor-1232	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1242	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1248	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1254	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1260	1 0	U		NA	1 0	U		NA	1 0	U
beta-BHC	0 05	U		NA	0 05	U		NA	0 05	U
delta-BHC	0 0022	J		NA	0 0022			NA	0 05	U
Dieldrin	0 10	U		NA	0 10	U		NA	0 10	U
Endosulfan I	0 05	U		NA	0 05	U		NA	0 05	U
Endosulfan II	0 10	U		NA	0 10	U		NA	0 10	U
Endosulfan Sulfate	0 10	U		NA	0 10	U		NA	0 10	U
Endrin	0 10	U		NA	0 10	U		NA	0 10	U
Endrin Aldehyde	0 10	U		NA	0 10	U		NA	0 10	U
Endrin Ketone	0 10	U		NA	0 10	U		NA	0 10	U
gamma-BHC	0 05	U		NA	0 05	U		NA	0 05	U
gamma-Chlordane	0 05	U		NA	0 05	U		NA	0 05	U
Heptachlor	0 05	U		NA	0 05	U		NA	0 05	U
Heptachlor Epoxide	0 05	U		NA	0 05	U		NA	0 05	U
Methoxychlor	0 50	U		NA	0 50	U		NA	0 50	U
Toxaphene	5 0	U		NA	5 0	U		NA	5 0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC SW-2011-01		WRC SW-DU-110299A		WRC-SW-2011-01-MAX		01F		WRC-SW-2012-01	
Sample Location	WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/2/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	01		01		01		None		None	
Dioxin Analysis (PG/L)	D00964				D00964				D00964	
1,2,3,4,6,7,8-HpCDD	7 2	U		NA	7 2	U		NA	6 1	UJ
1,2,3,4,6,7,8-HpCDF	5 6	U		NA	5 6	U		NA	4 3	UJ
1,2,3,4,7,8,9-HpCDF	8 6	U		NA	8 6	U		NA	6 6	UJ
1,2,3,4,7,8-HxCDD	5 3	U		NA	5 3	U		NA	3 8	UJ
1,2,3,4,7,8-HxCDF	4 0	U		NA	4 0	U		NA	3 3	UJ
1,2,3,6,7,8-HxCDD	5 3	U		NA	5 3	U		NA	3 9	UJ
1,2,3,6,7,8-HxCDF	4 0	U		NA	4 0	U		NA	3 3	UJ
1,2,3,7,8,9-HxCDD	5 7	U		NA	5 7	U		NA	4 1	UJ
1,2,3,7,8,9-HxCDF	5 0	U		NA	5 0	U		NA	4 2	UJ
1,2,3,7,8-PeCDD	4 4	U		NA	4 4	U		NA	3 6	UJ
1,2,3,7,8-PeCDF	3 9	U		NA	3 9	U		NA	3 2	UJ
1,2,4,5,7,8-hexachloro(9H)xanthene	0 00	U		NA		NA		NA	0 00	U
2,3,4,6,7,8-HxCDF	4 2	U		NA	4 2	U		NA	3 5	UJ
2,3,4,7,8-PeCDF	4 1	U		NA	4 1	U		NA	3 4	UJ
2,3,7,8-TCDD	5 2	UJ		NA	5 2	U		NA	4 9	UJ
2,3,7,8-TCDF	4 8	U		NA	4 8	U		NA	5 9	UJ
OCDD	12 7	EMPC		NA	12 7			NA	10 6	EMPC
OCDF	9 0	U		NA	9 0	U		NA	8 3	UJ
Total HpCDD	7 2	UJ		NA	7 2	U		NA	6 1	UJ
Total HpCDF	6 8	UJ		NA	6 8	U		NA	5 2	UJ
Total HxCDD	5 4	UJ		NA	5 4	U		NA	3 9	UJ
Total HxCDF	4 2	UJ		NA	4 2	U		NA	3 6	UJ
Total PeCDD	4 4	UJ		NA	4 4	U		NA	3 6	UJ
Total PeCDF	4 0	UJ		NA	4 0	U		NA	3 3	UJ
Total TCDD	5 2	UJ		NA	5 2	U		NA	4 9	UJ
Total TCDF	4 8	UJ		NA	4 8	U		NA	5 9	UJ
Toxicity Equivalency	7 7			NA	7 7			NA	6 7	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2011-01		WRC-SW-DU-110299A		WRC-SW-2011-01-MAX		01F		WRC-SW-2012-01	
Sample Location	WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2011		WRC-SD-2012	
Interval	0 0-0.0		0 0-0.0		0 0-0.0		0 0-0.0		0 0-0 0	
Date Sampled	11/2/99		11/2/99		11/2/99		11/2/99		11/2/99	
QC Identifier	01		01		01		None		None	
TAL Metal Analysis (UG/L)	**MAMF92**		**MAMF96**		**MAMF96**		**MAMF93**		**MAMF04**	
Aluminum	56 0	J	70 2		70 2		140		67 6	J
Antimony	2 1	UJ	2 1	UJ	2 1	U	2 1	UJ	2 1	UJ
Arsenic	2 2	U	2 2	U	2 2	U	2.2	U	2 2	U
Barium	19 2		18 8		19 2		188		19 3	
Beryllium	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
Cadmium	0 30	U	0 30	U	0 30	U	0.30	U	0 30	U
Calcium	8700		8380		8700		8790		8330	
Chromium	0 80	U	0 30	U	0 80	U	0 30	U	1 0	U
Cobalt	0 60	U	0 60	U	0 60	U	0 60	U	0 60	U
Copper	2 4		4 1		4 1		11 2		1 9	
Iron	242		242		242		189		335	
Lead	2 0	UJ	2 0	UJ	2 0	U	1 4	UJ	1 7	UJ
Magnesium	1410		1350		1410		1430		1340	
Manganese	49 3		122		122		36 2		92 6	
Mercury	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
Nickel	1 8	J	1 3	U	1 3	U	1 3	U	1 3	U
Potassium	2330		2220		2330		2330		2260	
Selenium	2 3	UJ	1 8	U	1 8	U	3 9	J	1 8	U
Silver	0 40	U	0 40	U	0 40	U	0 40	U	0 40	U
Sodium	23700		22700		23700		26200		22500	
Thallium	4 3	U	2 5	UJ	4 3	U	2 1	U	2 2	UJ
Vanadium	0 50	U	0 50	U	0 50	U	0 50	U	0 50	U
Zinc	12 9	U	12 9	U	12 9	U	107		12 9	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC SW-2012-01F		WRC SW-2013-01		WRC SW-2013-01F		WRC SW-2014-01		WRC SW-2014-01F		WRC SW-2015-01	
Sample Location	WRC-SD-2012		WRC-SD-2013		WRC-SD-2013		WRC-SD-2014		WRC-SD-2014		WRC-SD-2015	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/2/99		11/1/99		11/1/99		11/1/99		11/1/99		11/1/99	
QC Identifier	None		None		None		None		None		None	
Semivolatile Organic Analysis (UG/L)			AQB45				AQB46				AQB47	
1,1'-Biphenyl		NA	10	U		NA	10	U		NA	10	U
2,2'-oxybis(1-Chloropropane)		NA	10	U		NA	10	UJ		NA	10	U
2,4,5-Trichlorophenol		NA	25	U		NA	25	U		NA	25	U
2,4,6-Trichlorophenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dichlorophenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dimethylphenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dinitrophenol		NA	25	UJ		NA	25	U		NA	25	UJ
2,4-Dinitrotoluene		NA	10	U		NA	10	U		NA	10	U
2,6-Dinitrotoluene		NA	10	U		NA	10	U		NA	10	U
2-Chloronaphthalene		NA	10	U		NA	10	U		NA	10	U
2-Chlorophenol		NA	10	U		NA	10	U		NA	10	U
2-Methylnaphthalene		NA	10	U		NA	10	U		NA	10	U
2-Methylphenol		NA	10	U		NA	10	U		NA	10	U
2-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
2-Nitrophenol		NA	10	U		NA	10	U		NA	10	U
3,3'-Dichlorobenzidine		NA	10	U		NA	10	U		NA	10	U
3-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
4,6-Dinitro-2-methylphenol		NA	25	UJ		NA	25	U		NA	25	UJ
4-Bromophenyl-phenylether		NA	10	U		NA	10	U		NA	10	U
4-Chloro-3-methylphenol		NA	10	U		NA	10	U		NA	10	U
4-Chloroaniline		NA	10	U		NA	10	U		NA	10	U
4-Chlorophenyl-phenylether		NA	10	U		NA	10	U		NA	10	U
4-Methylphenol		NA	10	U		NA	10	U		NA	10	U
4-Nitroaniline		NA	25	U		NA	25	UJ		NA	25	U
4-Nitrophenol		NA	25	U		NA	25	U		NA	25	U
Acenaphthene		NA	10	U		NA	10	U		NA	10	U
Acenaphthylene		NA	10	U		NA	10	U		NA	10	U
Acetophenone		NA	10	U		NA	10	U		NA	10	U
Anthracene		NA	10	U		NA	10	U		NA	10	U
Atrazine		NA	10	U		NA	10	U		NA	10	U
Benzaldehyde		NA	10	UJ		NA	10	UJ		NA	10	UJ
Benzo(a)anthracene		NA	10	U		NA	10	U		NA	10	U
Benzo(a)pyrene		NA	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2012-01F		WRC-SW-2013-01		WRC-SW-2013-01F		WRC-SW-2014-01		WRC-SW-2014-01F		WRC-SW-2015-01	
Sample Location	WRC-SD-2012		WRC-SD-2013		WRC-SD-2013		WRC-SD-2014		WRC-SD-2014		WRC-SD-2015	
Interval	0 0-0.0		0 0-0 0		0 0-0.0		0 0-0 0		0 0-0 0		0 0-0.0	
Date Sampled	11/2/99		11/1/99		11/1/99		11/1/99		11/1/99		11/1/99	
QC Identifier	None		None		None		None		None		None	
Benzo(b)fluoranthene		NA	10	U		NA	10	U		NA	10	U
Benzo(g,h,i)perylene		NA	10	U		NA	10	U		NA	10	U
Benzo(k)fluoranthene		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethoxy)methane		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethyl)ether		NA	10	U		NA	10	UJ		NA	10	U
bis(2-Ethylhexyl)phthalate		NA	10	U		NA	10	U		NA	10	U
Butylbenzylphthalate		NA	10	U		NA	10	U		NA	10	U
Caprolactam		NA	10	U		NA	10	U		NA	10	U
Carbazole		NA	10	U		NA	10	U		NA	10	U
Chrysene		NA	10	U		NA	10	U		NA	10	U
Di-n-Butylphthalate		NA	10	U		NA	10	U		NA	10	U
Di-n-octylphthalate		NA	10	U		NA	10	U		NA	10	U
Dibenzo(a,h)anthracene		NA	10	U		NA	10	U		NA	10	U
Dibenzofuran		NA	10	U		NA	10	U		NA	10	U
Diethylphthalate		NA	10	U		NA	10	U		NA	10	U
Dimethylphthalate		NA	10	U		NA	10	U		NA	10	U
Fluoranthene		NA	10	U		NA	10	U		NA	10	U
Fluorene		NA	10	U		NA	10	U		NA	10	U
Hexachlorobenzene		NA	10	U		NA	10	U		NA	10	U
Hexachlorobutadiene		NA	10	U		NA	10	U		NA	10	U
Hexachlorocyclopentadiene		NA	10	U		NA	10	U		NA	10	U
Hexachloroethane		NA	10	U		NA	10	U		NA	10	U
Indeno(1,2,3-cd)pyrene		NA	10	U		NA	10	U		NA	10	U
Isophorone		NA	10	U		NA	10	U		NA	10	U
N-Nitroso-di-n-propylamine		NA	10	U		NA	10	U		NA	10	U
N-Nitroso-diphenylamine		NA	10	U		NA	10	U		NA	10	U
Naphthalene		NA	10	U		NA	10	U		NA	10	U
Nitrobenzene		NA	10	U		NA	10	U		NA	10	U
Pentachlorophenol		NA	25	U		NA	25	UJ		NA	25	U
Phenanthrene		NA	10	U		NA	10	U		NA	10	U
Phenol		NA	10	U		NA	10	U		NA	10	U
Pyrene		NA	10	U		NA	10	U		NA	10	U
Total PAH		NA	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2012-01F		WRC-SW-2013-01		WRC-SW-2013-01F		WRC-SW-2014-01		WRC-SW-2014-01F		WRC-SW-2015-01	
Sample Location	WRC-SD-2012		WRC-SD-2013		WRC-SD-2013		WRC-SD-2014		WRC-SD-2014		WRC-SD-2015	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/2/99		11/1/99		11/1/99		11/1/99		11/1/99		11/1/99	
QC Identifier	None		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)			AQB45				AQB46				AQB47	
4,4'-DDD		NA	0 10	U		NA	0 10	U		NA	0 10	U
4,4'-DDE		NA	0 10	U		NA	0 10	U		NA	0 10	U
4,4'-DDT		NA	0 10	U		NA	0 10	U		NA	0 10	U
Aldrin		NA	0 05	U		NA	0 003	J		NA	0 05	U
alpha-BHC		NA	0 05	U		NA	0 05	U		NA	0 05	U
alpha-Chlordane		NA	0 05	U		NA	0 05	U		NA	0 05	U
Aroclor, Total		NA	2 0	U		NA	2 0	U		NA	2 0	U
Aroclor-1016		NA	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1221		NA	2 0	U		NA	2 0	U		NA	2 0	U
Aroclor-1232		NA	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1242		NA	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1248		NA	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1254		NA	1 0	U		NA	1 0	U		NA	1 0	U
Aroclor-1260		NA	1 0	U		NA	1 0	U		NA	1 0	U
beta-BHC		NA	0 05	U		NA	0 05	U		NA	0 05	U
delta-BHC		NA	0 0096	J		NA	0 05	U		NA	0 05	U
Dieldrin		NA	0 10	U		NA	0 10	U		NA	0 10	U
Endosulfan I		NA	0 05	U		NA	0 05	U		NA	0 05	U
Endosulfan II		NA	0 10	U		NA	0 10	U		NA	0 10	U
Endosulfan Sulfate		NA	0 10	U		NA	0 10	U		NA	0 10	U
Endrin		NA	0 10	U		NA	0 10	U		NA	0 10	U
Endrin Aldehyde		NA	0 10	U		NA	0 10	U		NA	0 10	U
Endrin Ketone		NA	0 10	U		NA	0 10	U		NA	0 10	U
gamma-BHC		NA	0 05	U		NA	0 05	U		NA	0 05	U
gamma-Chlordane		NA	0 05	U		NA	0 05	U		NA	0 05	U
Heptachlor		NA	0 05	U		NA	0 05	U		NA	0 05	U
Heptachlor Epoxide		NA	0 05	U		NA	0 05	U		NA	0 05	U
Methoxychlor		NA	0 50	U		NA	0 50	U		NA	0 50	U
Toxaphene		NA	5 0	U		NA	5 0	U		NA	5 0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2012-01F		WRC-SW-2013-01		WRC-SW-2013-01F		WRC-SW-2014-01		WRC-SW-2014-01F		WRC-SW-2015-01	
Sample Location	WRC-SD-2012		WRC-SD-2013		WRC-SD-2013		WRC-SD-2014		WRC-SD-2014		WRC-SD-2015	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/2/99		11/1/99		11/1/99		11/1/99		11/1/99		11/1/99	
QC Identifier	None		None		None		None		None		None	
Dioxin Analysis (PG/L)			D00956				D00957				D00958	
1,2,3,4,6,7,8-HpCDD		NA	8.3	U		NA	5.7	UJ		NA	8.3	UJ
1,2,3,4,6,7,8-HpCDF		NA	14.2	EMPC		NA	5.2	UJ		NA	6.7	UJ
1,2,3,4,7,8,9-HpCDF		NA	10.2	U		NA	8.0	UJ		NA	10.2	UJ
1,2,3,4,7,8-HxCDD		NA	5.9	U		NA	4.0	UJ		NA	5.5	UJ
1,2,3,4,7,8-HxCDF		NA	4.4	U		NA	3.3	UJ		NA	4.7	UJ
1,2,3,6,7,8-HxCDD		NA	5.9	U		NA	4.0	UJ		NA	5.6	UJ
1,2,3,6,7,8-HxCDF		NA	4.4	U		NA	3.3	UJ		NA	4.7	UJ
1,2,3,7,8,9-HxCDD		NA	6.3	U		NA	4.3	UJ		NA	5.9	UJ
1,2,3,7,8,9-HxCDF		NA	5.5	U		NA	4.2	UJ		NA	6.0	UJ
1,2,3,7,8-PeCDD		NA	4.4	U		NA	3.5	UJ		NA	4.7	UJ
1,2,3,7,8-PeCDF		NA	4.2	U		NA	3.1	UJ		NA	4.4	UJ
1,2,4,5,7,8-hexachloro(9H)xanthene		NA	0.00	U		NA	0.00	U		NA	0.00	U
2,3,4,6,7,8-HxCDF		NA	4.6	U		NA	3.5	UJ		NA	5.0	UJ
2,3,4,7,8-PeCDF		NA	4.5	U		NA	3.3	UJ		NA	4.7	UJ
2,3,7,8-TCDD		NA	5.9	U		NA	5.4	UJ		NA	44.4	J
2,3,7,8-TCDF		NA	5.9	U		NA	5.8	UJ		NA	8.3	UJ
OCDD		NA	32.7	J		NA	9.3	EMPC		NA	13.7	EMPC
OCDF		NA	10.0	U		NA	7.3	UJ		NA	9.6	UJ
Total HpCDD		NA	8.3	UJ		NA	5.7	UJ		NA	8.3	UJ
Total HpCDF		NA	14.2	EMPC		NA	6.3	UJ		NA	8.1	UJ
Total HxCDD		NA	6.0	UJ		NA	4.1	UJ		NA	5.7	UJ
Total HxCDF		NA	8.8	J		NA	3.6	UJ		NA	5.1	UJ
Total PeCDD		NA	4.4	UJ		NA	3.5	UJ		NA	4.7	UJ
Total PeCDF		NA	4.3	UJ		NA	3.2	UJ		NA	4.6	UJ
Total TCDD		NA	5.9	UJ		NA	5.4	UJ		NA	44.4	J
Total TCDF		NA	5.9	UJ		NA	5.8	UJ		NA	8.3	UJ
Toxicity Equivalency		NA	8.6			NA	6.9			NA	50.1	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2012-01F		WRC-SW-2013-01		WRC-SW-2013-01F		WRC-SW-2014-01		WRC-SW-2014-01F		WRC-SW-2015-01	
Sample Location	WRC-SD-2012		WRC-SD-2013		WRC-SD-2013		WRC-SD-2014		WRC-SD-2014		WRC-SD-2015	
Interval	0 0-0 0		0 0-0 0		0 0-0.0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/2/99		11/1/99		11/1/99		11/1/99		11/1/99		11/1/99	
QC Identifier	None		None		None		None		None		None	
TAL Metal Analysis (UG/L)	MAMF95		MAMF84		MAMF85		MAMF86		MAMF87		MAMF88	
Aluminum	34 9	U	76 1		34 9	U	37 0	J	45 4	J	35 8	J
Antimony	2 1	UJ	2 1	UJ	2 1	UJ	2 1	UJ	2 1	UJ	2 1	UJ
Arsenic	2 2	U	2 2	U	2 2	U	2 2	U	2 2	U	2 2	U
Barium	134	U	19 0		186		18 0		201		271	
Beryllium	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
Cadmium	0 30	U	0 30	U	0 30	U	0 30	U	0 30	U	0 30	U
Calcium	8060		8560		7620		7600		8470		9280	
Chromium	0 50	U	0 80	U	1 1	U	1 0	U	0 40	UJ	0 40	UJ
Cobalt	0 60	U	0 60	U	0 60	U	0 60	U	0 60	U	0 60	U
Copper	1 8		1 6		1 0	U	1 6		1 7		3 2	
Iron	157		313		186		236		154		243	
Lead	1 1	U	3 4	J	1 1	U	2 9	UJ	1 5	UJ	1 9	UJ
Magnesium	1310		1390		1240		1240		1370		1550	
Manganese	32 0		74 3		28 0		37 4		26 4		108	
Mercury	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
Nickel	1 3	U	1 3	U	1 3	U	1 3	U	1 3	U	1 8	J
Potassium	2190		2470		2180		2180		2390		2770	
Selenium	1 8	U	1 8	U	1 8	U	1 8	U	1 8	U	3 0	UJ
Silver	0 40	U	0 40	U	0 40	U	0 60	UJ	0 40	U	0 40	U
Sodium	24000		23500		22800		20800		25900		29700	
Thallium	2 1	U	2 1	U	2 1	U	2 1	U	2 1	U	2 1	U
Vanadium	0 50	U	0 50	U	0 50	U	0 50		0 50	U	0 50	U
Zinc	50 6		12 9	U	54 3		12 9	U	62 0		121	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2018-01F		WRL-SW-2039-01		WRL-SW-2039-01F		WRL-SW-2040-01		WRL-DU-102899B	
Sample Location	WRC-SD-2018		WRL-SD-2039		WRL-SD-2039		WRL-SD-2040		WRL-SD-2040	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/1/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	None		None		None		Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01	
Semivolatile Organic Analysis (UG/L)			AQB29				AQB26		AQB27	
1,1'-Biphenyl		NA	10	U		NA	10	U	10	U
2,2'-oxybis(1-Chloropropane)		NA	10	UJ		NA	10	UJ	10	UJ
2,4,5-Trichlorophenol		NA	25	U		NA	25	U	25	U
2,4,6-Trichlorophenol		NA	10	U		NA	10	U	10	U
2,4-Dichlorophenol		NA	10	U		NA	10	U	10	U
2,4-Dimethylphenol		NA	10	UJ		NA	10	UJ	10	UJ
2,4-Dinitrophenol		NA	25	UJ		NA	25	UJ	25	UJ
2,4-Dinitrotoluene		NA	10	U		NA	10	U	10	U
2,6-Dinitrotoluene		NA	10	U		NA	10	U	10	U
2-Chloronaphthalene		NA	10	U		NA	10	U	10	U
2-Chlorophenol		NA	10	U		NA	10	U	10	U
2-Methylnaphthalene		NA	10	U		NA	10	U	10	U
2-Methylphenol		NA	10	U		NA	10	U	10	U
2-Nitroaniline		NA	25	U		NA	25	U	25	U
2-Nitrophenol		NA	10	U		NA	10	U	10	U
3,3'-Dichlorobenzidine		NA	10	U		NA	10	U	10	U
3-Nitroaniline		NA	25	U		NA	25	U	25	U
4,6-Dinitro-2-methylphenol		NA	25	U		NA	25	U	25	U
4-Bromophenyl-phenylether		NA	10	U		NA	10	U	10	U
4-Chloro-3-methylphenol		NA	10	U		NA	10	U	10	U
4-Chloroaniline		NA	10	UJ		NA	10	UJ	10	UJ
4-Chlorophenyl-phenylether		NA	10	U		NA	10	U	10	U
4-Methylphenol		NA	10	U		NA	10	U	10	U
4-Nitroaniline		NA	25	U		NA	25	U	25	U
4-Nitrophenol		NA	25	UJ		NA	25	UJ	25	UJ
Acenaphthene		NA	10	U		NA	10	U	10	U
Acenaphthylene		NA	10	U		NA	10	U	10	U
Acetophenone		NA	10	U		NA	10	U	10	U
Anthracene		NA	10	U		NA	10	U	10	U
Atrazine		NA	10	U		NA	10	U	10	U
Benzaldehyde		NA	10	UJ		NA	10	UJ	10	UJ
Benzo(a)anthracene		NA	10	U		NA	10	U	10	U
Benzo(a)pyrene		NA	10	U		NA	10	U	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2015-01F		WRL-SW-2039-01		WRL-SW-2039-01F		WRL-SW-2040-01		WRL-DU-1025995	
Sample Location	WRC-SD-2015		WRL-SD-2039		WRL-SD-2039		WRL-SD-2040		WRL-SD-2040	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/1/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	None		None		None		Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01	
Benzo(b)fluoranthene		NA	10	U		NA	10	U	10	U
Benzo(g,h,i)perylene		NA	10	U		NA	10	U	10	U
Benzo(k)fluoranthene		NA	10	U		NA	10	U	10	U
Bis(2-Chloroethoxy)methane		NA	10	U		NA	10	U	10	U
Bis(2-Chloroethyl)ether		NA	10	U		NA	10	U	10	U
bis(2-Ethylhexyl)phthalate		NA	10	U		NA	10	U	10	U
Butylbenzylphthalate		NA	10	U		NA	10	U	10	U
Caprolactam		NA	10	U		NA	10	U	10	U
Carbazole		NA	10	U		NA	10	U	10	U
Chrysene		NA	10	U		NA	10	U	10	U
Di-n-Butylphthalate		NA	10	U		NA	10	U	10	U
Di-n-octylphthalate		NA	10	UJ		NA	10	UJ	10	UJ
Dibenzo(a,h)anthracene		NA	10	U		NA	10	U	10	U
Dibenzofuran		NA	10	U		NA	10	U	10	U
Diethylphthalate		NA	10	U		NA	10	U	10	U
Dimethylphthalate		NA	10	U		NA	10	U	10	U
Fluoranthene		NA	10	U		NA	10	U	10	U
Fluorene		NA	10	U		NA	10	U	10	U
Hexachlorobenzene		NA	10	U		NA	10	U	10	U
Hexachlorobutadiene		NA	10	U		NA	10	U	10	U
Hexachlorocyclopentadiene		NA	10	U		NA	10	U	10	U
Hexachloroethane		NA	10	U		NA	10	U	10	U
Indeno(1,2,3-cd)pyrene		NA	10	U		NA	10	U	10	U
Isophorone		NA	10	U		NA	10	U	10	U
N-Nitroso-di-n-propylamine		NA	10	U		NA	10	U	10	U
N-Nitroso-diphenylamine		NA	10	UJ		NA	10	UJ	10	UJ
Naphthalene		NA	10	U		NA	10	U	10	U
Nitrobenzene		NA	10	U		NA	10	U	10	U
Pentachlorophenol		NA	25	U		NA	25	U	25	U
Phenanthrene		NA	10	U		NA	10	U	10	U
Phenol		NA	10	U		NA	10	U	10	U
Pyrene		NA	10	U		NA	10	U	10	U
Total PAH		NA	10	U		NA	10	U	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2016-01F		WRL-SW-2039-01		WRL-SW-2039-01F		WRL-SW-2040-01		WRL-DU-1026998	
Sample Location	WRC-SD-2016		WRL-SD-2039		WRL-SD-2039		WRL-SD-2040		WRL-SD-2040	
Interval	0 0-0.0		0 0-0 0		0.0-0.0		0.0-0.0		0.0-0 0	
Date Sampled	11/1/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	None		None		None		Field Dup. WRL-SW-2040-01		Field Dup WRL-SW-2040 01	
Pesticide/PCB Analysis (UG/L)			AQB29				AQB26		AQB27	
4,4'-DDD		NA	0 10	U		NA	0 10	U	0 10	U
4,4'-DDE		NA	0 10	U		NA	0 10	U	0 10	U
4,4'-DDT		NA	0 10	U		NA	0 10	U	0 10	U
Aldrin		NA	0.05	U		NA	0 05	U	0 05	U
alpha-BHC		NA	0.05	U		NA	0 05	U	0.05	U
alpha-Chlordane		NA	0.05	U		NA	0.05	U	0.05	U
Aroclor, Total		NA	2.0	U		NA	2.0	U	2.0	U
Aroclor-1016		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1221		NA	2.0	U		NA	2.0	U	2.0	U
Aroclor-1232		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1242		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1248		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1254		NA	1.0	U		NA	1.0	U	1.0	U
Aroclor-1260		NA	1.0	U		NA	1.0	U	1.0	U
beta-BHC		NA	0.05	U		NA	0.05	U	0.05	U
delta-BHC		NA	0.05	U		NA	0.05	U	0.05	U
Dieldrin		NA	0.10	U		NA	0.10	U	0.10	U
Endosulfan I		NA	0.05	U		NA	0.05	U	0.05	U
Endosulfan II		NA	0.10	U		NA	0.10	U	0.10	U
Endosulfan Sulfate		NA	0.10	U		NA	0.10	U	0.10	U
Endrin		NA	0.10	U		NA	0.10	U	0.10	U
Endrin Aldehyde		NA	0.10	U		NA	0.10	U	0.10	U
Endrin Ketone		NA	0.10	U		NA	0.10	U	0.10	U
gamma-BHC		NA	0.05	U		NA	0.05	U	0.05	U
gamma-Chlordane		NA	0.05	U		NA	0.05	U	0.05	U
Heptachlor		NA	0.05	U		NA	0.05	U	0.05	U
Heptachlor Epoxide		NA	0.05	U		NA	0.05	U	0.05	U
Methoxychlor		NA	0.50	U		NA	0.50	U	0.50	U
Toxaphene		NA	5.0	U		NA	5.0	U	5.0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2015-01F		WRL-SW-2039-01		WRL-SW-2039-01F		WRL-SW-2040-01		WRL-DU-1025099	
Sample Location	WRC-SD-2015		WRL-SD-2039		WRL-SD-2039		WRL-SD-2040		WRL-SD-2040	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	11/1/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	None		None		None		Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01	
Dioxin Analysis (PG/L)			D00893				D00890		D00891	
1,2,3,4,6,7,8-HpCDD		NA	10.9	UJ		NA	8.4	UJ	5.0	J
1,2,3,4,6,7,8-HpCDF		NA	7.5	UJ		NA	5.4	UJ	5.6	UJ
1,2,3,4,7,8,9-HpCDF		NA	10.0	UJ		NA	7.2	UJ	7.5	UJ
1,2,3,4,7,8-HxCDD		NA	8.2	UJ		NA	6.1	UJ	5.9	UJ
1,2,3,4,7,8-HxCDF		NA	5.8	UJ		NA	4.4	UJ	4.4	UJ
1,2,3,6,7,8-HxCDD		NA	7.7	UJ		NA	5.7	UJ	5.5	UJ
1,2,3,6,7,8-HxCDF		NA	5.5	UJ		NA	4.2	UJ	4.2	UJ
1,2,3,7,8,9-HxCDD		NA	7.7	UJ		NA	5.7	UJ	5.5	UJ
1,2,3,7,8,9-HxCDF		NA	6.7	UJ		NA	5.0	UJ	5.1	UJ
1,2,3,7,8-PeCDD		NA	10.9	UJ		NA	8.7	UJ	8.3	UJ
1,2,3,7,8-PeCDF		NA	6.3	UJ		NA	5.4	UJ	5.4	UJ
1,2,4,5,7,8-hexachloro(9H)xanthene		NA	0.00	U		NA	0.00	U	0.00	U
2,3,4,6,7,8-HxCDF		NA	5.9	UJ		NA	4.5	UJ	4.5	UJ
2,3,4,7,8-PeCDF		NA	6.4	UJ		NA	5.4	UJ	5.4	UJ
2,3,7,8-TCDD		NA	9.2	UJ		NA	2.9	EMPC	5.0	EMPC
2,3,7,8-TCDF		NA	8.7	UJ		NA	7.9	UJ	7.5	UJ
OCDD		NA	24.8	UJ		NA	15.6	UJ	30.0	UJ
OCDF		NA	15.2	UJ		NA	11.3	UJ	10.8	J
Total HpCDD		NA	10.9	UJ		NA	8.4	UJ	10.2	J
Total HpCDF		NA	8.6	UJ		NA	6.2	UJ	4.5	EMPC
Total HxCDD		NA	7.9	UJ		NA	5.8	UJ	5.6	UJ
Total HxCDF		NA	6.0	UJ		NA	4.5	UJ	4.5	UJ
Total PeCDD		NA	10.9	UJ		NA	8.7	UJ	8.3	UJ
Total PeCDF		NA	6.4	UJ		NA	5.4	UJ	5.4	UJ
Total TCDD		NA	9.2	UJ		NA	2.9	EMPC	5.0	EMPC
Total TCDF		NA	8.7	UJ		NA	7.9	UJ	7.5	UJ
Toxicity Equivalency		NA	14.4			NA	10.8		12.6	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRC-SW-2016-01F		WRL-SW-2039-01		WRL-SW-2039-01F		WRL-SW-2040-01		WRL-DU-102599B	
Sample Location	WRC-SD-2016		WRL-SD-2039		WRL-SD-2039		WRL-SD-2040		WRL-SD-2040	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	11/1/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	None		None		None		Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01	
TAL Metal Analysis (UG/L)	**MAMF89**		**MAMF58**		**MAMF59**		**MAMF53**		**MAMF54**	
Aluminum	38 8	J	30 4	U	41 5	U	49 7	U	43 9	U
Antimony	2 1	UJ	5 0	U	5 0	U	5 0	U	5 0	U
Arsenic	2.2	U	8.9	J	6.0	U	6 2	J	6 0	U
Barium	221		16 1		16.0	U	17.0		16 9	
Beryllium	0.10	U	1 3	U	2.3	U	1 9	U	1 8	U
Cadmium	0.30	U	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	8250		9070		8280		8580		8720	
Chromium	1 6		1.0	J	1.0	U	1 0	U	1.0	U
Cobalt	1 0	J	1.0	U	1.0	U	1 0	U	1 0	U
Copper	2.1		3.4		4.8		5 8		5 3	
Iron	155		318		126		219		212	
Lead	1.1	U	2.0	U	2.0	U	2.0	U	2.0	U
Magnesium	1360		1370		1390		1420		1410	
Manganese	29.0		73.6		48.2		59.0		57.4	
Mercury	0.10	U	0 20	U	0.20	U	0.20	U	0.20	U
Nickel	1.3	J	3.4	J	3.6	J	3.4	J	3.6	J
Potassium	2300		1710	J	1960	J	1920	J	1890	J
Selenium	1.8	U	5.0	U	5.0	U	5.0	U	5.0	U
Silver	0.70	UJ	1.6	J	1.1	J	1 2	J	1.6	J
Sodium	25600		21500		23600		23500		23200	
Thallium	3.0	UJ	7.0	U	7.0	UJ	7 0	U	7 0	U
Vanadium	0.80	J	4.8	U	2.0	U	2.0	U	2.0	U
Zinc	61.5		28 1		22.9	J	23 7		25 5	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2040-01-MAX		WRL-SW-2040-01F		WRL-DU-10259[illegible]		WRL-SW-2040-01F-MAX		WRL-SW-2041-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2041	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/25/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		None	
Semivolatile Organic Analysis (UG/L)	AQ826								AQ[illegible]26	
1,1'-Biphenyl	10	U			NA		NA		10	U
2,2'-oxybis(1-Chloropropane)	10	U			NA		NA		10	UJ
2,4,5-Trichlorophenol	25	U			NA		NA		25	U
2,4,6-Trichlorophenol	10	U			NA		NA		10	U
2,4-Dichlorophenol	10	U			NA		NA		10	U
2,4-Dimethylphenol	10	U			NA		NA		10	UJ
2,4-Dinitrophenol	25	U			NA		NA		25	UJ
2,4-Dinitrotoluene	10	U			NA		NA		10	U
2,6-Dinitrotoluene	10	U			NA		NA		10	U
2-Chloronaphthalene	10	U			NA		NA		10	U
2-Chlorophenol	10	U			NA		NA		10	U
2-Methylnaphthalene	10	U			NA		NA		10	U
2-Methylphenol	10	U			NA		NA		10	U
2-Nitroaniline	25	U			NA		NA		25	U
2-Nitrophenol	10	U			NA		NA		10	U
3,3'-Dichlorobenzidine	10	U			NA		NA		10	U
3-Nitroaniline	25	U			NA		NA		25	U
4,6-Dinitro-2-methylphenol	25	U			NA		NA		25	U
4-Bromophenyl-phenylether	10	U			NA		NA		10	U
4-Chloro-3-methylphenol	10	U			NA		NA		10	U
4-Chloroaniline	10	U			NA		NA		10	UJ
4-Chlorophenyl-phenylether	10	U			NA		NA		10	U
4-Methylphenol	10	U			NA		NA		10	U
4-Nitroaniline	25	U			NA		NA		25	U
4-Nitrophenol	25	U			NA		NA		25	UJ
Acenaphthene	10	U			NA		NA		10	U
Acenaphthylene	10	U			NA		NA		10	U
Acetophenone	10	U			NA		NA		10	U
Anthracene	10	U			NA		NA		10	U
Atrazine	10	U			NA		NA		10	U
Benzaldehyde	10	U			NA		NA		10	U
Benzo(a)anthracene	10	U			NA		NA		10	U
Benzo(a)pyrene	10	U			NA		NA		10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2040-01-MAX		WRL-SW-2040-01F		WRL-DU-102699SP		WRL-SW-2040-01F-MAX		WRL-SW-2041-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2041	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/25/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		None	
Benzo(b)fluoranthene	10	U			NA		NA		10	U
Benzo(g,h,i)perylene	10	U			NA		NA		10	U
Benzo(k)fluoranthene	10	U			NA		NA		10	U
Bis(2-Chloroethoxy)methane	10	U			NA		NA		10	U
Bis(2-Chloroethyl)ether	10	U			NA		NA		10	U
bis(2-Ethylhexyl)phthalate	10	U			NA		NA		10	U
Butylbenzylphthalate	10	U			NA		NA		10	U
Caprolactam	10	U			NA		NA		10	U
Carbazole	10	U			NA		NA		10	U
Chrysene	10	U			NA		NA		10	U
Di-n-Butylphthalate	10	U			NA		NA		10	U
Di-n-octylphthalate	10	U			NA		NA		10	UJ
Dibenzo(a,h)anthracene	10	U			NA		NA		10	U
Dibenzofuran	10	U			NA		NA		10	U
Diethylphthalate	10	U			NA		NA		10	U
Dimethylphthalate	10	U			NA		NA		10	U
Fluoranthene	10	U			NA		NA		10	U
Fluorene	10	U			NA		NA		10	U
Hexachlorobenzene	10	U			NA		NA		10	U
Hexachlorobutadiene	10	U			NA		NA		10	U
Hexachlorocyclopentadiene	10	U			NA		NA		10	U
Hexachloroethane	10	U			NA		NA		10	U
Indeno(1,2,3-cd)pyrene	10	U			NA		NA		10	U
Isophorone	10	U			NA		NA		10	U
N-Nitroso-di-n-propylamine	10	U			NA		NA		10	U
N-Nitroso-diphenylamine	10	U			NA		NA		10	UJ
Naphthalene	10	U			NA		NA		10	U
Nitrobenzene	10	U			NA		NA		10	U
Pentachlorophenol	25	U			NA		NA		25	U
Phenanthrene	10	U			NA		NA		10	U
Phenol	10	U			NA		NA		10	U
Pyrene	10	U			NA		NA		10	U
Total PAH	10	U			NA		NA		10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2040-01-MAX		WRL-SW-2040-01F		WRL-DU-102699SF		WRL-SW-2040-01F-MAX		WRL-SW-2041-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2041	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/25/99		10/25/99		10/25/99		10/25/99		10/26/99	
QC Identifier	Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		None	
Pesticide/PCB Analysis (UG/L)	AQB26								AQB26	
4,4'-DDD	0.10	U			NA		NA		NA	0.10 U
4,4'-DDE	0.10	U			NA		NA		NA	0.10 U
4,4'-DDT	0.10	U			NA		NA		NA	0.10 U
Aldrin	0.05	U			NA		NA		NA	0.05 U
alpha-BHC	0.05	U			NA		NA		NA	0.05 U
alpha-Chlordane	0.05	U			NA		NA		NA	0.05 U
Aroclor, Total	2.0	U			NA		NA		NA	2.0 U
Aroclor-1016	1.0	U			NA		NA		NA	1.0 U
Aroclor-1221	2.0	U			NA		NA		NA	2.0 U
Aroclor-1232	1.0	U			NA		NA		NA	1.0 U
Aroclor-1242	1.0	U			NA		NA		NA	1.0 U
Aroclor-1248	1.0	U			NA		NA		NA	1.0 U
Aroclor-1254	1.0	U			NA		NA		NA	1.0 U
Aroclor-1260	1.0	U			NA		NA		NA	1.0 U
beta-BHC	0.05	U			NA		NA		NA	0.05 U
delta-BHC	0.05	U			NA		NA		NA	0.05 U
Dieldrin	0.10	U			NA		NA		NA	0.10 U
Endosulfan I	0.05	U			NA		NA		NA	0.05 U
Endosulfan II	0.10	U			NA		NA		NA	0.10 U
Endosulfan Sulfate	0.10	U			NA		NA		NA	0.10 U
Endrin	0.10	U			NA		NA		NA	0.10 U
Endrin Aldehyde	0.10	U			NA		NA		NA	0.10 U
Endrin Ketone	0.10	U			NA		NA		NA	0.10 U
gamma-BHC	0.05	U			NA		NA		NA	0.05 U
gamma-Chlordane	0.05	U			NA		NA		NA	0.05 U
Heptachlor	0.05	U			NA		NA		NA	0.05 U
Heptachlor Epoxide	0.05	U			NA		NA		NA	0.05 U
Methoxychlor	0.50	U			NA		NA		NA	0.50 U
Toxaphene	5.0	U			NA		NA		NA	5.0 U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2040-01-MAX		WRL-SW-2040-01F		WRL-DU-102899BF		WRL-SW-2040-01F-MAX		WRL-SW-2041-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2041	
Interval	0 0-0.0		0 0-0.0		0.0-0.0		0 0-0 0		0 0 0 0	
Date Sampled	10/25/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		None	
Dioxin Analysis (PG/L)	D00890								D00892	
1,2,3,4,6,7,8-HpCDD	5.0			NA		NA		NA	24.3	J
1,2,3,4,6,7,8-HpCDF	5.6	U		NA		NA		NA	10.2	J
1,2,3,4,7,8,9-HpCDF	7.5	U		NA		NA		NA	4.2	U
1,2,3,4,7,8-HxCDD	6.1	U		NA		NA		NA	3.5	U
1,2,3,4,7,8-HxCDF	4.4	U		NA		NA		NA	2.4	EMPC
1,2,3,6,7,8-HxCDD	5.7	U		NA		NA		NA	3.3	U
1,2,3,6,7,8-HxCDF	4.2	U		NA		NA		NA	2.4	U
1,2,3,7,8,9-HxCDD	5.7	U		NA		NA		NA	2.8	EMPC
1,2,3,7,8,9-HxCDF	5.1	U		NA		NA		NA	2.9	U
1,2,3,7,8-PeCDD	8.7	U		NA		NA		NA	4.6	UJ
1,2,3,7,8-PeCDF	5.4	U		NA		NA		NA	2.9	U
1,2,4,5,7,8-hexachloro(9H)xanthene		NA		NA		NA		NA	22.1	J
2,3,4,6,7,8-HxCDF	4.5	U		NA		NA		NA	2.6	U
2,3,4,7,8-PeCDF	5.4	U		NA		NA		NA	2.9	U
2,3,7,8-TCDD	5.0			NA		NA		NA	53.0	J
2,3,7,8-TCDF	7.9	U		NA		NA		NA	4.1	UJ
OCDD	30.0	U		NA		NA		NA	155	
OCDF	10.8			NA		NA		NA	22.9	EMPC
Total HpCDD	10.2			NA		NA		NA	44.0	J
Total HpCDF	4.5			NA		NA		NA	21.9	J
Total HxCDD	5.8	U		NA		NA		NA	3.1	J
Total HxCDF	4.5	U		NA		NA		NA	7.8	J
Total PeCDD	8.7	U		NA		NA		NA	4.6	UJ
Total PeCDF	5.4	U		NA		NA		NA	2.9	UJ
Total TCDD	5.0			NA		NA		NA	53.0	J
Total TCDF	7.9	U		NA		NA		NA	4.1	UJ
Toxicity Equivalency	12.6			NA		NA		NA	57.8	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2040-01-MAX		WRL-SW-2040-01F		WRL-DU-1028[illegible]F		WRL-SW-2040-01F-MAX		WRL-SW-2041-01	
Sample Location	WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2040		WRL-SD-2041	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/25/99		10/25/99		10/25/99		10/25/99		10/25/99	
QC Identifier	Field Dup. WRL-SW-2040-01		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		Field Dup. WRL-SW-2040-01F		None	
TAL Metal Analysis (UG/L)	MAMF54		MAMF52		MAMF55		MAMF56		MAMF51	
Aluminum	49.7	U	57.6	U	14.0	U	57.6	U	55.4	U
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Arsenic	6.0	U	8.6	J	8.0	J	8.6		9.2	J
Barium	17.0		286		35.9	U	286		16.5	
Beryllium	1.9	U	1.9	U	1.4	U	1.9	U	1.5	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	8720		8190		9410		9410		9050	
Chromium	1.0	U	22.1	J	1.0	U	1.0	U	1.0	U
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Copper	5.8		9.4		5.1		9.4		3.8	
Iron	219		206		154		206		251	
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Magnesium	1420		1360		1480		1480		1410	
Manganese	59.0		44.2		48.8		48.8		59.2	
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	3.6		5.1		3.4	J	5.1		3.3	J
Potassium	1920		1870	J	1930	J	1930		1800	J
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.6		1.4	J	1.6	J	1.6		1.4	J
Sodium	23500		25000		27200		27200		22500	
Thallium	7.0	U	7.0	U	7.0	U	7.0	U	7.0	U
Vanadium	2.0	U	2.0	U	3.7	UJ	2.0	U	3.6	UJ
Zinc	25.5		105	J	47.0	J	105		25.5	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2041-01F		WRL-SW-2042-01		WRL-SW-2042-01F		WRL-SW-2043-01		WRL-SW-2043-01F		WRL-SW-2044-01	
Sample Location	WRL-SD-2041		WRL-SD-2042		WRL-SD-2042		WRL-SD-2043		WRL-SD-2043		WRL-SD-2044	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/25/99		11/2/99		11/2/99		11/8/99		11/8/99		11/0/00	
QC Identifier	None		None		None		None		None		None	
Semivolatile Organic Analysis (UG/L)			AQB53				AQB63				AQB72	
1,1'-Biphenyl		NA	10	U		NA	10	U		NA	10	U
2,2'-oxybis(1-Chloropropane)		NA	10	UJ		NA	10	U		NA	10	U
2,4,5-Trichlorophenol		NA	25	U		NA	25	U		NA	25	U
2,4,6-Trichlorophenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dichlorophenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dimethylphenol		NA	10	U		NA	10	U		NA	10	U
2,4-Dinitrophenol		NA	25	UJ		NA	25	U		NA	25	UJ
2,4-Dinitrotoluene		NA	10	U		NA	10	U		NA	10	U
2,6-Dinitrotoluene		NA	10	U		NA	10	U		NA	10	U
2-Chloronaphthalene		NA	10	U		NA	10	U		NA	10	U
2-Chlorophenol		NA	10	U		NA	10	U		NA	10	U
2-Methylnaphthalene		NA	10	U		NA	10	U		NA	10	U
2-Methylphenol		NA	10	U		NA	10	U		NA	10	U
2-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
2-Nitrophenol		NA	10	U		NA	10	U		NA	10	U
3,3'-Dichlorobenzidine		NA	10	U		NA	10	U		NA	10	UJ
3-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
4,6-Dinitro-2-methylphenol		NA	25	U		NA	25	U		NA	25	U
4-Bromophenyl-phenylether		NA	10	U		NA	10	U		NA	10	U
4-Chloro-3-methylphenol		NA	10	U		NA	10	U		NA	10	U
4-Chloroaniline		NA	10	U		NA	10	U		NA	10	U
4-Chlorophenyl-phenylether		NA	10	U		NA	10	U		NA	10	U
4-Methylphenol		NA	10	U		NA	10	U		NA	10	U
4-Nitroaniline		NA	25	U		NA	25	U		NA	25	U
4-Nitrophenol		NA	25	U		NA	25	U		NA	25	UJ
Acenaphthene		NA	10	U		NA	10	U		NA	10	U
Acenaphthylene		NA	10	U		NA	10	U		NA	10	U
Acetophenone		NA	10	U		NA	10	U		NA	10	U
Anthracene		NA	10	U		NA	10	U		NA	10	U
Atrazine		NA	10	U		NA	10	U		NA	10	U
Benzaldehyde		NA	10	UJ		NA	10	U		NA	10	U
Benzo(a)anthracene		NA	10	U		NA	10	U		NA	10	U
Benzo(a)pyrene		NA	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2041-01F		WRL-SW-2042-01		WRL-SW-2042-01F		WRL-SW-2043-01		WRL-SW-2043-01F		WRL-SW-2044-01	
Sample Location	WRL-SD-2041		WRL-SD-2042		WRL-SD-2042		WRL-SD-2043		WRL-SD-2043		WRL-SD-2044	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/25/99		11/2/99		11/2/99		11/8/99		11/8/99		11/0/99	
QC Identifier	None		None		None		None		None		None	
Benzo(b)fluoranthene		NA	10	U		NA	10	U		NA	10	U
Benzo(g,h,i)perylene		NA	10	U		NA	10	U		NA	10	U
Benzo(k)fluoranthene		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethoxy)methane		NA	10	U		NA	10	U		NA	10	U
Bis(2-Chloroethyl)ether		NA	10	UJ		NA	10	U		NA	10	U
bis(2-Ethylhexyl)phthalate		NA	10	U		NA	160			NA	10	UJ
Butylbenzylphthalate		NA	10	U		NA	10	U		NA	10	UJ
Caprolactam		NA	10	U		NA	10	U		NA		R
Carbazole		NA	10	U		NA	10	U		NA	10	U
Chrysene		NA	10	U		NA	10	U		NA	10	U
Di-n-Butylphthalate		NA	10	U		NA	10	U		NA	10	U
Di-n-octylphthalate		NA	10	U		NA	10	U		NA	10	UJ
Dibenzo(a,h)anthracene		NA	10	U		NA	10	U		NA	10	U
Dibenzofuran		NA	10	U		NA	10	U		NA	10	U
Diethylphthalate		NA	10	U		NA	10	U		NA	10	U
Dimethylphthalate		NA	10	U		NA	10	U		NA	10	U
Fluoranthene		NA	10	U		NA	10	U		NA	10	U
Fluorene		NA	10	U		NA	10	U		NA	10	U
Hexachlorobenzene		NA	10	U		NA	10	U		NA	10	U
Hexachlorobutadiene		NA	10	UJ		NA	10	U		NA	10	U
Hexachlorocyclopentadiene		NA	10	U		NA	10	U		NA	10	U
Hexachloroethane		NA	10	U		NA	10	U		NA	10	U
Indeno(1,2,3-cd)pyrene		NA	10	U		NA	10	U		NA	10	U
Isophorone		NA	10	UJ		NA	10	U		NA	10	U
N-Nitroso-di-n-propylamine		NA	10	U		NA	10	U		NA	10	U
N-Nitroso-diphenylamine		NA	10	U		NA	10	U		NA	10	U
Naphthalene		NA	10	U		NA	10	U		NA	10	U
Nitrobenzene		NA	10	U		NA	10	U		NA	10	U
Pentachlorophenol		NA	25	UJ		NA	25	U		NA	25	U
Phenanthrene		NA	10	U		NA	10	U		NA	10	U
Phenol		NA	10	U		NA	10	U		NA	10	U
Pyrene		NA	10	U		NA	10	U		NA	10	U
Total PAH		NA	10	U		NA	10	U		NA	10	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2041-01F		WRL-SW-2042-01		WRL-SW-2042-01F		WRL-SW-2043-01		WRL-SW-2043-01F		WRL-SW-2044-01	
Sample Location	WRL-SD-2041		WRL-SD-2042		WRL-SD-2042		WRL-SD-2043		WRL-SD-2043		WRL-SD-2044	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/25/99		11/2/99		11/2/99		11/8/99		11/8/99		11/9/99	
QC Identifier	None		None		None		None		None		None	
Pesticide/PCB Analysis (UG/L)			AQB53				AQB63				AQB72	
4,4'-DDD		NA	0.10	UJ		NA	0.10	U		NA	0.10	U
4,4'-DDE		NA	0 0043	J		NA	0.10	U		NA	0 10	U
4,4'-DDT		NA	0.10	UJ		NA	0.10	U		NA	0 10	U
Aldrin		NA	0.015	J		NA	0 05	U		NA	0 05	U
alpha-BHC		NA	0.05	UJ		NA	0 05	U		NA	0 05	U
alpha-Chlordane		NA	0.019	J		NA	0 05	U		NA	0.05	U
Aroclor, Total		NA	2.0	U		NA	2.0	U		NA	2.0	U
Aroclor-1016		NA	1.0	UJ		NA	1.0	U		NA	1.0	U
Aroclor-1221		NA	2.0	UJ		NA	2.0	U		NA	2.0	U
Aroclor-1232		NA	1.0	UJ		NA		NA		NA		NA
Aroclor-1242		NA	1.0	UJ		NA	1.0	U		NA	1.0	U
Aroclor-1248		NA	1.0	UJ		NA	1.0	U		NA	1.0	U
Aroclor-1254		NA	1.0	UJ		NA	1.0	U		NA	1.0	U
Aroclor-1260		NA	1.0	UJ		NA	1.0	U		NA	1.0	U
beta-BHC		NA	0.05	UJ		NA	0.05	U		NA	0.05	U
delta-BHC		NA	0.05	UJ		NA	0.05	U		NA	0.05	U
Dieldrin		NA	0.10	UJ		NA	0.10	U		NA	0.10	U
Endosulfan I		NA	0.05	UJ		NA	0.05	U		NA	0.05	U
Endosulfan II		NA	0.10	UJ		NA	0.10	U		NA	0.10	U
Endosulfan Sulfate		NA	0.0032	J		NA	0.10	U		NA	0.10	U
Endrin		NA	0.10	UJ		NA	0.10	U		NA	0 10	U
Endrin Aldehyde		NA	0.005	J		NA		NA		NA		NA
Endrin Ketone		NA	0.10	UJ		NA	0.10	U		NA	0.10	U
gamma-BHC		NA	0.05	UJ		NA	0.05	U		NA	0.05	U
gamma-Chlordane		NA	0.021	J		NA	0.05	U		NA	0 05	U
Heptachlor		NA	0 05	UJ		NA	0 05	U		NA	0.05	U
Heptachlor Epoxide		NA	0 05	UJ		NA	0.05	U		NA	0 05	U
Methoxychlor		NA	0.50	UJ		NA	0.50	U		NA	0 50	U
Toxaphene		NA	5.0	UJ		NA	5.0	U		NA	5.0	U

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2041-01F		WRL-SW-2042-01		WRL-SW-2042-01F		WRL-SW-2043-01		WRL-SW-2043-01F		WRL-SW-2044-01	
Sample Location	WRL-SD-2041		WRL-SD-2042		WRL-SD-2042		WRL-SD-2043		WRL-SD-2043		WRL-SD-2044	
Interval	0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0		0 0-0 0	
Date Sampled	10/25/99		11/2/99		11/2/99		11/8/99		11/8/99		11/9/99	
QC Identifier	None		None		None		None		None		None	
Dioxin Analysis (PG/L)			D00973				D01011				D01031	
1,2,3,4,6,7,8-HpCDD		NA	149			NA	39.4	J		NA	9.7	U
1,2,3,4,6,7,8-HpCDF		NA	58.3			NA	15.6	J		NA	6.2	U
1,2,3,4,7,8,9-HpCDF		NA	4.2	U		NA	1.9	U		NA	8.1	U
1,2,3,4,7,8-HxCDD		NA	3.5	U		NA	1.3	U		NA	6.5	U
1,2,3,4,7,8-HxCDF		NA	2.3	U		NA	2.4	U		NA	4.6	U
1,2,3,6,7,8-HxCDD		NA	6.1	J		NA	1.2	U		NA	6.0	U
1,2,3,6,7,8-HxCDF		NA	2.0	U		NA	0.60	U		NA	4.2	U
1,2,3,7,8,9-HxCDD		NA	6.1	J		NA	1.8	EMPC		NA	6.3	U
1,2,3,7,8,9-HxCDF		NA	2.4	U		NA	1.1	U		NA	5.1	U
1,2,3,7,8-PeCDD		NA	4.5	U		NA	2.3	U		NA	5.0	U
1,2,3,7,8-PeCDF		NA	3.3	U		NA	1.3	U		NA	3.8	U
1,2,4,5,7,8-hexachloro(9H)xanthene		NA	80.93	J		NA	18.76	J		NA	0.00	U
2,3,4,6,7,8-HxCDF		NA	2.1	U		NA	0.90	U		NA	4.5	U
2,3,4,7,8-PeCDF		NA	3.4	U		NA	1.3	U		NA	4.0	U
2,3,7,8-TCDD		NA	853			NA	157			NA	8.6	U
2,3,7,8-TCDF		NA	7.7	J		NA	1.0	U		NA	4.5	UJ
OCDD		NA	1110			NA	291			NA	23.6	U
OCDF		NA	83.3	J		NA	27.5	U		NA	14.3	U
Total HpCDD		NA	281	J		NA	106	J		NA	9.7	UJ
Total HpCDF		NA	124	J		NA	15.6	UJ		NA	7.1	UJ
Total HxCDD		NA	36.8	J		NA	7.4	EMPC		NA	6.2	UJ
Total HxCDF		NA	51.9	J		NA	16.4	UJ		NA	4.6	UJ
Total PeCDD		NA	4.5	UJ		NA	2.3	UJ		NA	5.0	UJ
Total PeCDF		NA	14.6	J		NA	1.3	EMPC		NA	3.9	UJ
Total TCDD		NA	871	J		NA	157	J		NA	8.6	UJ
Total TCDF		NA	40.4	J		NA	4.7	J		NA	4.5	UJ
Toxicity Equivalency		NA	661			NA	160			NA	9.6	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2041-01F		WRL-SW-2042-01		WRL-SW-2042-01F		WRL-SW-2043-01		WRL-SW-2043-01F		WRL-SW-2044-01	
Sample Location	WRL-SD-2041		WRL-SD-2042		WRL-SD-2042		WRL-SD-2043		WRL-SD-2043		WRL-SD-2044	
Interval	0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0		0.0-0.0	
Date Sampled	10/25/99		11/2/99		11/2/99		11/8/99		11/8/99		11/0/99	
QC Identifier	None		None		None		None		None		None	
TAL Metal Analysis (UG/L)	**MAMF57**		**MAMF98**		**MAMF99**		**MAMB97**		**MAMB98**		**MALJ16**	
Aluminum	22.5	UJ	917		60.6	J	343		28.0	U	58.2	U
Antimony	5.0	U	2.1	UJ	2.1	UJ	5.0	U	5.0	U	5.0	U
Arsenic	10.5		2.2	U	2.2	U	6.0	U	6.0	U	6.0	U
Barium	16.2	U	31.1		16.1	U	22.3		177	U	37.0	
Beryllium	1.5	U	0.20		0.10	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	U	0.30	U	0.30	U	1.0	U	1.0	U	1.0	U
Calcium	8990		9730		7660		10500		8300		17000	
Chromium	1.0	U	6.3		0.50	UJ	3.6		1.0	U	1.0	U
Cobalt	1.0	U	1.0	J	0.60	U	1.0	U	1.0	U	1.0	U
Copper	6.3		29.4		1.4		20.5		7.8		4.3	
Iron	146		1560		305		852		217		3710	
Lead	2.0	U	21.8		2.8	UJ	10.2		4.7		2.0	U
Magnesium	1400		1720		1240		1550		1370	J	2400	
Manganese	51.7		152		46.4		84.3		47.2		1490	
Mercury	0.20	U	0.10	U	0.10	U	0.20	U	0.20	U	0.20	U
Nickel	3.2	J	4.1		1.3	U	3.8	J	2.0	U	2.0	U
Potassium	2060	J	2760		2060		1910		1890		2720	
Selenium	5.0	U	1.8	U	2.3	UJ	5.0	U	5.0	U	5.0	U
Silver	1.2	J	0.40	U	0.40	U	1.0	U	1.0	U	1.0	U
Sodium	23300		24900		20800		21000		23000		31800	
Thallium	7.0	U	2.1	U	2.1	U	7.0	U	7.0	U	7.0	U
Vanadium	3.0	UJ	2.7		0.50	U	2.0	U	2.0	U	2.0	U
Zinc	23.4	J	53.5		12.9	U	75.7		65.0		25.1	

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2044-01F	
Sample Location	WRL-SD-2044	
Interval	0.0-0.0	
Date Sampled	11/9/99	
QC Identifier	None	
Semivolatile Organic Analysis (UG/L)		
1,1'-Biphenyl		NA
2,2'-oxybis(1-Chloropropane)		NA
2,4,5-Trichlorophenol		NA
2,4,6-Trichlorophenol		NA
2,4-Dichlorophenol		NA
2,4-Dimethylphenol		NA
2,4-Dinitrophenol		NA
2,4-Dinitrotoluene		NA
2,6-Dinitrotoluene		NA
2-Chloronaphthalene		NA
2-Chlorophenol		NA
2-Methylnaphthalene		NA
2-Methylphenol		NA
2-Nitroaniline		NA
2-Nitrophenol		NA
3,3'-Dichlorobenzidine		NA
3-Nitroaniline		NA
4,6-Dinitro-2-methylphenol		NA
4-Bromophenyl-phenylether		NA
4-Chloro-3-methylphenol		NA
4-Chloroaniline		NA
4-Chlorophenyl-phenylether		NA
4-Methylphenol		NA
4-Nitroaniline		NA
4-Nitrophenol		NA
Acenaphthene		NA
Acenaphthylene		NA
Acetophenone		NA
Anthracene		NA
Atrazine		NA
Benzaldehyde		NA
Benzo(a)anthracene		NA
Benzo(a)pyrene		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2044-01F	
Sample Location	WRL-SD-2044	
Interval	0.0-0.0	
Date Sampled	11/9/99	
QC Identifier	None	
Benzo(b)fluoranthene		NA
Benzo(g,h,i)perylene		NA
Benzo(k)fluoranthene		NA
Bis(2-Chloroethoxy)methane		NA
Bis(2-Chloroethyl)ether		NA
bis(2-Ethylhexyl)phthalate		NA
Butylbenzylphthalate		NA
Caprolactam		NA
Carbazole		NA
Chrysene		NA
Di-n-Butylphthalate		NA
Di-n-octylphthalate		NA
Dibenzo(a,h)anthracene		NA
Dibenzofuran		NA
Diethylphthalate		NA
Dimethylphthalate		NA
Fluoranthene		NA
Fluorene		NA
Hexachlorobenzene		NA
Hexachlorobutadiene		NA
Hexachlorocyclopentadiene		NA
Hexachloroethane		NA
Indeno(1,2,3-cd)pyrene		NA
Isophorone		NA
N-Nitroso-di-n-propylamine		NA
N-Nitroso-diphenylamine		NA
Naphthalene		NA
Nitrobenzene		NA
Pentachlorophenol		NA
Phenanthrene		NA
Phenol		NA
Pyrene		NA
Total PAH		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2044-01P	
Sample Location	WRL-SD-2044	
Interval	0.0-0.0	
Date Sampled	11/9/99	
QC Identifier	None	
Pesticide/PCB Analysis (UG/L)		
4,4'-DDD		NA
4,4'-DDE		NA
4,4'-DDT		NA
Aldrin		NA
alpha-BHC		NA
alpha-Chlordane		NA
Aroclor, Total		NA
Aroclor-1016		NA
Aroclor-1221		NA
Aroclor-1232		NA
Aroclor-1242		NA
Aroclor-1248		NA
Aroclor-1254		NA
Aroclor-1260		NA
beta-BHC		NA
delta-BHC		NA
Dieldrin		NA
Endosulfan I		NA
Endosulfan II		NA
Endosulfan Sulfate		NA
Endrin		NA
Endrin Aldehyde		NA
Endrin Ketone		NA
gamma-BHC		NA
gamma-Chlordane		NA
Heptachlor		NA
Heptachlor Epoxide		NA
Methoxychlor		NA
Toxaphene		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2044-01F	
Sample Location	WRL-SD-2044	
Interval	0.0-0.0	
Date Sampled	11/9/99	
QC Identifier	None	
Dioxin Analysis (PG/L)		
1,2,3,4,6,7,8-HpCDD		NA
1,2,3,4,6,7,8-HpCDF		NA
1,2,3,4,7,8,9-HpCDF		NA
1,2,3,4,7,8-HxCDD		NA
1,2,3,4,7,8-HxCDF		NA
1,2,3,6,7,8-HxCDD		NA
1,2,3,6,7,8-HxCDF		NA
1,2,3,7,8,9-HxCDD		NA
1,2,3,7,8,9-HxCDF		NA
1,2,3,7,8-PeCDD		NA
1,2,3,7,8-PeCDF		NA
1,2,4,5,7,8-hexachloro(9H)xanthene		NA
2,3,4,6,7,8-HxCDF		NA
2,3,4,7,8-PeCDF		NA
2,3,7,8-TCDD		NA
2,3,7,8-TCDF		NA
OCDD		NA
OCDF		NA
Total HpCDD		NA
Total HpCDF		NA
Total HxCDD		NA
Total HxCDF		NA
Total PeCDD		NA
Total PeCDF		NA
Total TCDD		NA
Total TCDF		NA
Toxicity Equivalency		NA

US EPA ARCHIVE DOCUMENT

Summary of Surface Water Analytical Results
Centredale Manor
North Providence, Rhode Island

Sample Number	WRL-SW-2044-01F	
Sample Location	WRL-SD-2044	
Interval	0 0-0.0	
Date Sampled	11/9/99	
QC Identifier	None	
TAL Metal Analysis (UG/L)	**MALJ17**	
Aluminum	16.0	UJ
Antimony	5.0	U
Arsenic	6.0	U
Barium	36.0	U
Beryllium	1.0	U
Cadmium	1.0	U
Calcium	17300	
Chromium	1.0	U
Cobalt	1.0	U
Copper	6.0	
Iron	2960	
Lead	2.0	U
Magnesium	2420	
Manganese	1550	
Mercury	0.20	U
Nickel	2.2	J
Potassium	2760	
Selenium	5.0	U
Silver	1.6	UJ
Sodium	31900	
Thallium	7.6	J
Vanadium	2.0	U
Zinc	22.4	