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TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			*S10(EPA)*	*S07(OEPA)*	*S08(OEPA)*	*TT-16*	*TT-17*	*TT-17*	*TT-18*	*TT-18*
Sample ID:			*S10*	*96-DV-03-S07*	*96-DV-03-S08*	*S-38443-093008-KMV-033*	*S-38443-093008-KMV-034*	*S-38443-093008-KMV-035*	*S-38443-100108-KMV-036*	*S-38443-100108-KMV-037*
Sample Date:	*USEPA Regional Screening Levels [1]*		*10/23/1990*	*7/9/1996*	*7/9/1996*	*9/30/2008*	*9/30/2008*	*9/30/2008*	*10/1/2008*	*10/1/2008*
Sample Depth:			*0-1 ft BWS*	*0-0.2 ft BWS*	*0.2-0.3 ft BWS*	*2 ft BWS*	*5 ft BWS*	*14 ft BWS*	*5 ft BWS*	*12 ft BWS*
Parameter	*Residential Soil Criteria a*	*Industrial Soil Criteria b*								
Volatiles										
1,1,1-Trichloroethane	8700	38000	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,1,2,2-Tetrachloroethane	0.56	2.8	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,1,2-Trichloroethane	1.1	5.3	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,1-Dichloroethane	3.3	17	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,1-Dichloroethene	240	1100	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,2,4-Trichlorobenzene	22	99	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,2-Dibromo-3-chloropropane (DBCP)	0.0054	0.069	-	-	-	0.0094 U	0.01 U	0.012 U	R	0.0098 U
1,2-Dibromoethane (Ethylene dibromide)	0.034	0.17	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,2-Dichlorobenzene	1900	9800	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,2-Dichloroethane	0.43	2.2	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,2-Dichloroethene (total)	700	9200	0.005 U	0.011 U	0.011 U	-	-	-	-	-
1,2-Dichloropropane	0.94	4.7	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,3-Dichlorobenzene	-	-	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
1,4-Dichlorobenzene	2.4	12	-	-	-	0.0047 U	0.005 U	0.0061 U	0.023 J	0.0049 U
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000	0.01 U	0.011 U	0.011 U	0.0047 J	0.02 U	0.024 U	R	0.02 U
2-Hexanone	210	1400	-	0.011 U	0.011 U	0.019 U	0.02 U	0.024 U	R	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000	0.01 U	0.011 U	0.011 U	0.019 U	0.02 U	0.024 U	R	0.02 U
Acetone	61000	630000	0.005 U	0.011 U	0.011 U	0.013 J	0.02 U	0.024 U	R	0.02 U
Benzene	1.1	5.4	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Bromodichloromethane	0.27	1.4	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Bromoform	62	220	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Bromomethane (Methyl bromide)	7.3	32	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Carbon disulfide	820	3700	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Carbon tetrachloride	0.61	3	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Chlorobenzene	290	1400	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Chloroethane	15000	61000	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Chloroform (Trichloromethane)	0.29	1.5	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Chloromethane (Methyl chloride)	120	500	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
cis-1,2-Dichloroethene	160	2000	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
cis-1,3-Dichloropropene	-	-	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Cyclohexane	7000	29000	-	-	-	0.0094 U	0.01 U	0.012 U	0.21 J	0.0098 U
Dibromochloromethane	0.68	3.3	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Dichlorodifluoromethane (CFC-12)	94	400	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Ethylbenzene	5.4	27	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Isopropyl benzene	2100	11000	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Methyl acetate	78000	1000000	-	-	-	0.0094 U	0.01 U	0.012 U	R	0.0098 U
Methyl cyclohexane	-	-	-	-	-	0.0094 U	0.01 U	0.012 U	0.41 J	0.00074 J
Methyl tert butyl ether (MTBE)	43	220	-	-	-	0.019 U	0.02 U	0.024 U	R	0.02 U
Methylene chloride	56	960	-	0.011 JBU	0.016	0.0047 U	0.005 U	0.0061 U	0.5 J	0.0049 U
Styrene	6300	36000	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Tetrachloroethene	22	110	0.005 U	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
Toluene	5000	45000	0.005 U	0.011 U	0.01 J	0.0047 U	0.005 U	0.0061 U	R	0.0049 U
trans-1,2-Dichloroethene	150	690	-	-	-	0.0047 U	0.005 U	0.0061 U	R	0.0049 U

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-	trans-1,3-Dichloropropene	-	-	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U
Trichloroethene	0.91	6.4	Trichloroethene	0.91	6.4	0.005 U	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U
Trichlorofluoromethane (CFC-11)	790	3400	Trichlorofluoromethane (CFC-11)	790	3400	-	-	-	0.0047 U	0.005 U	0.0061 U
Trifluorotrichloroethane (Freon 113)	43000	180000	Trifluorotrichloroethane (Freon 113)	43000	180000	-	-	-	0.0047 U	0.005 U	0.0061 U
Vinyl chloride	0.06	1.7	Vinyl chloride	0.06	1.7	-	0.011 U	0.011 U	0.0047 U	0.005 U	0.0061 U
Xylenes (total)	630	2700	Xylenes (total)	630	2700	0.005 U	0.011 U	0.011 U	0.0094 U	0.01 U	0.012 U
Semi-Volatiles			***Semi-Volatiles***								
1,2,4-Trichlorobenzene	22	99	1,2,4-Trichlorobenzene	22	99	-	0.38 U	0.37 U	-	-	-
1,2-Dichlorobenzene	1900	9800	1,2-Dichlorobenzene	1900	9800	-	0.38 U	0.37 U	-	-	-
1,3-Dichlorobenzene	-	-	1,3-Dichlorobenzene	-	-	-	0.38 U	0.37 U	-	-	-
1,4-Dichlorobenzene	2.4	12	1,4-Dichlorobenzene	2.4	12	-	0.38 U	0.37 U	-	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22	-	-	-	0.24 U	0.11 U	0.5 U
2,4,5-Trichlorophenol	6100	62000	2,4,5-Trichlorophenol	6100	62000	-	0.94 U	0.92 U	0.36 U	0.16 U	0.75 U
2,4,6-Trichlorophenol	44	160	2,4,6-Trichlorophenol	44	160	-	0.38 U	0.37 U	0.36 U	0.16 U	0.75 U
2,4-Dichlorophenol	180	1800	2,4-Dichlorophenol	180	1800	-	0.38 U	0.37 U	0.36 U	0.16 U	0.75 U
2,4-Dimethylphenol	1200	12000	2,4-Dimethylphenol	1200	12000	-	0.38 U	0.37 U	0.36 U	0.16 U	0.75 U
2,4-Dinitrophenol	120	1200	2,4-Dinitrophenol	120	1200	-	0.94 U	0.92 U	0.79 U	0.36 U	1.6 U
2,4-Dinitrotoluene	1.6	5.5	2,4-Dinitrotoluene	1.6	5.5	-	0.38 U	0.37 U	0.48 U	0.22 U	1 U
2,6-Dinitrotoluene	61	620	2,6-Dinitrotoluene	61	620	-	0.38 U	0.37 U	0.48 U	0.22 U	1 U
2-Chloronaphthalene	6300	82000	2-Chloronaphthalene	6300	82000	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
2-Chlorophenol	390	5100	2-Chlorophenol	390	5100	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
2-Methylnaphthalene	230	2200	2-Methylnaphthalene	230	2200	0.33 U	0.38 U	0.39	0.016 U	0.0073 U	0.042
2-Methylphenol	3100	31000	2-Methylphenol	3100	31000	-	0.38 U	0.37 U	0.48 U	0.22 U	1 U
2-Nitroaniline	610	6000	2-Nitroaniline	610	6000	-	0.94 U	0.92 U	0.48 U	0.22 U	1 U
2-Nitrophenol	-	-	2-Nitrophenol	-	-	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
3,3'-Dichlorobenzidine	1.1	3.8	3,3'-Dichlorobenzidine	1.1	3.8	-	-	-	0.24 U	0.11 U	0.5 U
3-Nitroaniline	-	-	3-Nitroaniline	-	-	-	0.94 U	0.92 U	0.48 U	0.22 U	1 U
4,6-Dinitro-2-methylphenol	4.9	49	4,6-Dinitro-2-methylphenol	4.9	49	-	0.94 U	0.92 U	0.36 U	0.16 U	0.75 U
4-Bromophenyl phenyl ether	-	-	4-Bromophenyl phenyl ether	-	-	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
4-Chloro-3-methylphenol	6100	62000	4-Chloro-3-methylphenol	6100	62000	-	0.38 U	0.37 U	0.36 U	0.16 U	0.75 U
4-Chloroaniline	2.4	8.6	4-Chloroaniline	2.4	8.6	-	0.38 U	0.37 U	0.36 U	0.16 U	0.75 U
4-Chlorophenyl phenyl ether	-	-	4-Chlorophenyl phenyl ether	-	-	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
4-Methylphenol	6100	62000	4-Methylphenol	6100	62000	-	0.38 U	0.37 U	0.48 U	0.22 U	1 U
4-Nitroaniline	24	86	4-Nitroaniline	24	86	-	0.94 U	0.92 U	0.48 U	0.22 U	1 U
4-Nitrophenol	-	-	4-Nitrophenol	-	-	-	0.94 U	0.92 U	0.79 U	0.36 U	1.6 U
Acenaphthene	3400	33000	Acenaphthene	3400	33000	0.11 J	0.38 U	0.091 J	0.045	0.0085	0.25
Acenaphthylene	-	-	Acenaphthylene	-	-	-	0.38 U	0.37 U	0.087	0.0073 U	0.033 U
Acetophenone	7800	100000	Acetophenone	7800	100000	-	-	-	0.24 U	0.11 U	0.5 U
Anthracene	17000	170000	Anthracene	17000	170000	0.34 J	0.38 U	0.29 J	0.19	0.018	0.37
Atrazine	2.1	7.5	Atrazine	2.1	7.5	-	-	-	0.48 U	0.22 U	1 U
Benzaldehyde	7800	100000	Benzaldehyde	7800	100000	-	-	-	0.24 U	0.11 U	0.5 U
Benzo(a)anthracene	0.15	2.1	Benzo(a)anthracene	0.15	2.1	1.8[a]	0.058 J	1.1[a]	0.7[a]	0.084	1.2[a]
Benzo(a)pyrene	0.015	0.21	Benzo(a)pyrene	0.015	0.21	1.2[ab]	0.062 J[a]	0.82[ab]	0.87[ab]	0.089[a]	0.99[ab]
Benzo(b)fluoranthene	0.15	2.1	Benzo(b)fluoranthene	0.15	2.1	2.5[ab]	0.38 U	1[a]	1.1[a]	0.12	1.3[a]
Benzo(g,h,i)perylene	-	-	Benzo(g,h,i)perylene	-	-	0.99	0.38 U	0.16 J	0.63	0.067	0.56
Benzo(k)fluoranthene	1.5	21	Benzo(k)fluoranthene	1.5	21	0.4 J	0.38 U	0.95	0.4	0.059	0.6
Biphenyl (1,1-Biphenyl)	51	210	Biphenyl (1,1-Biphenyl)	51	210	-	-	-	0.12 U	0.055 U	0.25 U
bis(2-Chloroethoxy)methane	180	1800	bis(2-Chloroethoxy)methane	180	1800	-	0.38 U	0.37 U	0.24 U	0.11 U	0.5 U
bis(2-Chloroethyl)ether	0.21	1	bis(2-Chloroethyl)ether	0.21	1	-	0.38 U	0.37 U	0.24 U	0.11 U	0.5 U
bis(2-Ethylhexyl)phthalate (DEHP)	35	120	bis(2-Ethylhexyl)phthalate (DEHP)	35	120	0.33 U	0.032 J	0.23 J	0.12 U	0.055 U	0.25 U
Butyl benzylphthalate (BBP)	260	910	Butyl benzylphthalate (BBP)	260	910	0.096 J	0.026 J	0.37 U	0.12 U	0.055 U	0.25 U

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000	Caprolactam	31000	310000	-	-	-	0.79 U	0.36 U	1.6 U
Carbazole	-	-	Carbazole	-	-	-	0.38 J	0.28 J	0.09 J	0.055 U	0.4
Chrysene	15	210	Chrysene	15	210	0.33 U	0.083 J	1.2	0.82	0.11	1.4
Dibenz(a,h)anthracene	0.015	0.21	Dibenz(a,h)anthracene	0.015	0.21	0.11 J[a]	0.38 U	0.31 J[ab]	0.15[a]	0.014	0.14[a]
Dibenzofuran	78	1000	Dibenzofuran	78	1000	0.33 U	0.38 U	0.16 J	0.12 U	0.055 U	0.18 J
Diethyl phthalate	49000	490000	Diethyl phthalate	49000	490000	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
Dimethyl phthalate	-	-	Dimethyl phthalate	-	-	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
Di-n-butylphthalate (DBP)	6100	62000	Di-n-butylphthalate (DBP)	6100	62000	0.33 U	0.028 J	0.37 U	0.12 U	0.055 U	0.25 U
Di-n-octyl phthalate (DnOP)	730	7400	Di-n-octyl phthalate (DnOP)	730	7400	-	0.38 U	0.019 J	0.12 U	0.055 U	0.25 U
Fluoranthene	2300	22000	Fluoranthene	2300	22000	2.5	0.11 J	2	1.7	0.23	3.7
Fluorene	2300	22000	Fluorene	2300	22000	0.12 J	0.38 U	0.087 J	0.064	0.0085	0.25
Hexachlorobenzene	0.3	1.1	Hexachlorobenzene	0.3	1.1	-	0.38 U	0.37 U	0.016 U	0.0073 U	0.033 U
Hexachlorobutadiene	6.2	22	Hexachlorobutadiene	6.2	22	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
Hexachlorocyclopentadiene	370	3700	Hexachlorocyclopentadiene	370	3700	-	0.38 U	0.37 U	0.79 U	0.36 U	1.6 U
Hexachloroethane	12	43	Hexachloroethane	12	43	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
Indeno(1,2,3-cd)pyrene	0.15	2.1	Indeno(1,2,3-cd)pyrene	0.15	2.1	0.97[a]	0.048 J	0.48[a]	0.54[a]	0.055	0.53[a]
Isophorone	510	1800	Isophorone	510	1800	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
Naphthalene	3.6	18	Naphthalene	3.6	18	0.33 U	0.38 U	0.25 J	0.016 U	0.0073 U	0.11
Nitrobenzene	4.8	24	Nitrobenzene	4.8	24	-	0.38 U	0.37 U	0.24 U	0.11 U	0.5 U
N-Nitrosodi-n-propylamine	0.069	0.25	N-Nitrosodi-n-propylamine	0.069	0.25	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
N-Nitrosodiphenylamine	99	350	N-Nitrosodiphenylamine	99	350	0.33 U	0.38 U	0.027 J	0.12 U	0.055 U	0.25 U
Pentachlorophenol	0.89	2.7	Pentachlorophenol	0.89	2.7	-	0.94 U	0.92 U	0.36 U	0.16 U	0.75 U
Phenanthrene	-	-	Phenanthrene	-	-	1.8	0.063 J	1.7	0.85	0.14	3.4
Phenol	18000	180000	Phenol	18000	180000	-	0.38 U	0.37 U	0.12 U	0.055 U	0.25 U
Pyrene	1700	17000	Pyrene	1700	17000	3.4	0.13 J	1.9	1.4	0.18	2.9
Metals			***Metals***								
Aluminum	77000	990000	Aluminum	77000	990000	10600	6890	14300	5270	6830	3180
Antimony	31	410	Antimony	31	410	2.4 U	0.68 U	278[a]	7.2 UJ	6.6 UJ	0.65 J
Arsenic	0.39	1.6	Arsenic	0.39	1.6	8.1[ab]	6.0[ab]	141[ab]	5.5[ab]	6.8[ab]	10.9[ab]
Barium	15000	190000	Barium	15000	190000	120	112	13000	53.8	78.0	73.0
Beryllium	160	2000	Beryllium	160	2000	0.35 B	0.62 B	0.77 B	0.24 J	0.33 J	0.36 J
Cadmium	70	800	Cadmium	70	800	1 U	0.57 B	0.69 B	0.29 J	0.18 J	0.11 J
Calcium	-	-	Calcium	-	-	83700	12900	5410	91200 J	50600 J	27500 J
Chromium	-	-	Chromium	-	-	27.6	17.3	62.0	7.8	10.4	8.1
Cobalt	23	300	Cobalt	23	300	4.7 B	6.6 B	17.5	4.8 J	6.3	2.6 J
Copper	3100	41000	Copper	3100	41000	37.6 EJ	22.5	1830	12.6	12.3	21.3
Iron	55000	720000	Iron	55000	720000	16300	13200	59500[a]	11200	14200	12000
Lead	400	800	Lead	400	800	94.8	31.5	652[a]	18.4 J	14.9 J	7.5 J
Magnesium	-	-	Magnesium	-	-	28000	6100	2480	44300	13800	13400
Manganese	1800	23000	Manganese	1800	23000	446	681	614	624 J	441 J	76.0 J
Mercury	10	43	Mercury	10	43	0.008 U	0.18	0.11 U	0.035 J	0.040 J	0.054 J
Nickel	1500	20000	Nickel	1500	20000	23.1	12.9	78.3	10.7	11.0	7.5
Potassium	-	-	Potassium	-	-	1190 B	886 B	1400	960 J	725 J	399 J
Selenium	390	5100	Selenium	390	5100	2.6	0.90 U	2.1	30.0 U	27.5 U	1.1 J
Silver	390	5100	Silver	390	5100	1.1 B	0.45 B	0.23 B	1.2 U	1.1 U	1.2 U
Sodium	-	-	Sodium	-	-	136 B	207 B	254 B	162 J	550 U	625 U
Thallium	0.78	10	Thallium	0.78	10	2 U	2.2 B[a]	4.0[a]	0.14 U	0.15 U	0.46
Vanadium	390	5200	Vanadium	390	5200	24.3	17.4	18.5	14.5 J	18.1 J	13.8 J
Zinc	23000	310000	Zinc	23000	310000	126	76.9	286	42.4 J	40.0 J	27.3 J
PCBs			***PCBs***								

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21	Aroclor-1016 (PCB-1016)	3.9	21	-	0.038 U	0.037 U	0.04 UJ	0.036 UJ	0.041 U
Aroclor-1221 (PCB-1221)	0.14	0.54	Aroclor-1221 (PCB-1221)	0.14	0.54	-	0.076 U	0.074 U	0.04 UJ	0.036 UJ	0.041 U
Aroclor-1232 (PCB-1232)	0.14	0.54	Aroclor-1232 (PCB-1232)	0.14	0.54	-	0.038 U	0.037 U	0.04 UJ	0.036 UJ	0.041 U
Aroclor-1242 (PCB-1242)	0.22	0.74	Aroclor-1242 (PCB-1242)	0.22	0.74	-	0.038 U	0.037 U	0.04 UJ	0.036 UJ	0.041 U
Aroclor-1248 (PCB-1248)	0.22	0.74	Aroclor-1248 (PCB-1248)	0.22	0.74	1.4 X[ab]	0.038 U	0.037 U	0.04 UJ	0.036 UJ	0.059
Aroclor-1254 (PCB-1254)	0.22	0.74	Aroclor-1254 (PCB-1254)	0.22	0.74	-	0.038 U	0.037 U	0.04 UJ	0.036 UJ	0.041 U
Aroclor-1260 (PCB-1260)	0.22	0.74	Aroclor-1260 (PCB-1260)	0.22	0.74	0.41 X[a]	0.038 U	0.037 U	0.04 UJ	0.036 UJ	0.041 U
Pesticides			***Pesticides***								
4,4'-DDD	2	7.2	4,4'-DDD	2	7.2	-	0.00065 J	0.0037 U	0.1 UJ	0.19 UJ	0.042 UJ
4,4'-DDE	1.4	5.1	4,4'-DDE	1.4	5.1	-	0.0038 U	0.0024 PJ	0.1 U	0.19 U	0.042 U
4,4'-DDT	1.7	7	4,4'-DDT	1.7	7	-	0.0016 PJ	0.0088 P	0.1 UJ	0.19 UJ	0.042 UJ
Aldrin	0.029	0.1	Aldrin	0.029	0.1	-	0.0019 U	0.0019 U	0.1 U	0.19 U	0.042 U
alpha-BHC	0.077	0.27	alpha-BHC	0.077	0.27	-	0.0019 U	0.00071 PJ	0.1 U	0.19 U	0.042 U
alpha-Chlordane	-	-	alpha-Chlordane	-	-	-	0.0019 U	0.0019 U	0.1 U	0.19 U	0.042 U
beta-BHC	0.27	0.96	beta-BHC	0.27	0.96	-	0.0019 U	0.0019 U	0.1 U	0.19 U	0.042 U
delta-BHC	-	-	delta-BHC	-	-	-	0.0019 U	0.0019 U	0.1 U	0.19 U	0.042 U
Dieldrin	0.03	0.11	Dieldrin	0.03	0.11	-	0.0038 U	0.0037 U	0.1 U	0.19 U	0.042 U
Endosulfan I	-	-	Endosulfan I	-	-	-	0.00042 PJ	0.0019 U	0.1 U	0.19 U	0.042 U
Endosulfan II	-	-	Endosulfan II	-	-	-	0.0014 J	0.0054	0.1 U	0.19 U	0.042 U
Endosulfan sulfate	-	-	Endosulfan sulfate	-	-	-	0.0038 U	0.0037 U	0.1 U	0.19 U	0.042 U
Endrin	18	180	Endrin	18	180	-	0.0038 U	0.0037 U	0.1 U	0.19 U	0.042 U
Endrin aldehyde	-	-	Endrin aldehyde	-	-	-	0.0064 P	0.0037 U	0.1 U	0.19 U	0.042 U
Endrin ketone	-	-	Endrin ketone	-	-	-	0.0038 U	0.0037 U	0.1 U	0.19 U	0.042 U
gamma-BHC (lindane)	0.52	2.1	gamma-BHC (lindane)	0.52	2.1	-	0.0019 U	0.0018 J	0.1 U	0.19 U	0.042 U
gamma-Chlordane	-	-	gamma-Chlordane	-	-	-	0.0019 U	0.0019 U	0.1 U	0.19 U	0.042 U
Heptachlor	0.11	0.38	Heptachlor	0.11	0.38	-	0.0019 U	0.0019 U	0.1 U	0.19 U	0.042 U
Heptachlor epoxide	0.053	0.19	Heptachlor epoxide	0.053	0.19	-	0.0019 U	0.0019 U	0.1 U	0.19 U	0.042 U
Methoxychlor	310	3100	Methoxychlor	310	3100	-	0.019 U	0.019 U	0.2 UJ	0.36 UJ	0.082 UJ
Toxaphene	0.44	1.6	Toxaphene	0.44	1.6	-	0.19 U	0.19 U	4 UJ	7.4 UJ	1.7 UJ

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides			***Herbicides***							
2,4,5-TP (Silvex)	490	4900	2,4,5-TP (Silvex)	490	4900	-	-	-	0.024 U	0.022 U	0.025 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700	2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700	-	-	-	0.096 U	0.088 U	0.1 U
General Chemistry			***General Chemistry***							
Cyanide (total)	22	140	Cyanide (total)	22	140	-	0.30 B	2.3	0.60 U	0.55 U	0.25 J
Total solids (%)	-	-	Total solids (%)	-	-	-	-	-	83.3	91.0	80.1

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
B - Compound is found in the associated blank as well as in the sample (Organics)
E - Estimated or not reported due to interference. (Inorganics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument. (Organics)

J - Indicates an estimated value.
concentrations between two GC columns. The lower of the two

R - The parameter was rejected.
U - Compound was analyzed for but not detected.
UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.
component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

- - Not applicable.

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
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TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			***TT-18***	***TT-18***
Sample ID:			***S-38443-100108-KMV-036***	***S-38443-100108-KMV-037***
Sample Date:	***USEPA Regional Screening Levels [1]***		***10/1/2008***	***10/1/2008***
Sample Depth:			***5 ft BWS***	***12 ft BWS***
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***		
Volatiles				
1,1,1-Trichloroethane	8700	38000	R	0.0049 U
1,1,2,2-Tetrachloroethane	0.56	2.8	R	0.0049 U
1,1,2-Trichloroethane	1.1	5.3	R	0.0049 U
1,1-Dichloroethane	3.3	17	R	0.0049 U
1,1-Dichloroethene	240	1100	R	0.0049 U
1,2,4-Trichlorobenzene	22	99	R	0.0049 U
1,2-Dibromo-3-chloropropane (DBCP)	0.0054	0.069	R	0.0098 U
1,2-Dibromoethane (Ethylene dibromide)	0.034	0.17	R	0.0049 U
1,2-Dichlorobenzene	1900	9800	R	0.0049 U
1,2-Dichloroethane	0.43	2.2	R	0.0049 U
1,2-Dichloroethene (total)	700	9200	-	-
1,2-Dichloropropane	0.94	4.7	R	0.0049 U
1,3-Dichlorobenzene	-	-	R	0.0049 U
1,4-Dichlorobenzene	2.4	12	0.023 J	0.0049 U
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000	R	0.02 U
2-Hexanone	210	1400	R	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000	R	0.02 U
Acetone	61000	630000	R	0.02 U
Benzene	1.1	5.4	R	0.0049 U
Bromodichloromethane	0.27	1.4	R	0.0049 U
Bromoform	62	220	R	0.0049 U
Bromomethane (Methyl bromide)	7.3	32	R	0.0049 U
Carbon disulfide	820	3700	R	0.0049 U
Carbon tetrachloride	0.61	3	R	0.0049 U
Chlorobenzene	290	1400	R	0.0049 U
Chloroethane	15000	61000	R	0.0049 U
Chloroform (Trichloromethane)	0.29	1.5	R	0.0049 U
Chloromethane (Methyl chloride)	120	500	R	0.0049 U
cis-1,2-Dichloroethene	160	2000	R	0.0049 U
cis-1,3-Dichloropropene	-	-	R	0.0049 U
Cyclohexane	7000	29000	0.21 J	0.0098 U
Dibromochloromethane	0.68	3.3	R	0.0049 U
Dichlorodifluoromethane (CFC-12)	94	400	R	0.0049 U
Ethylbenzene	5.4	27	R	0.0049 U
Isopropyl benzene	2100	11000	R	0.0049 U
Methyl acetate	78000	1000000	R	0.0098 U
Methyl cyclohexane	-	-	0.41 J	0.00074 J
Methyl tert butyl ether (MTBE)	43	220	R	0.02 U
Methylene chloride	56	960	0.5 J	0.0049 U
Styrene	6300	36000	R	0.0049 U
Tetrachloroethene	22	110	R	0.0049 U
Toluene	5000	45000	R	0.0049 U
trans-1,2-Dichloroethene	150	690	R	0.0049 U

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-	R	0.0049 U
Trichloroethene	0.91	6.4	R	0.0049 U
Trichlorofluoromethane (CFC-11)	790	3400	R	0.0049 U
Trifluorotrichloroethane (Freon 113)	43000	180000	R	0.0049 U
Vinyl chloride	0.06	1.7	R	0.0049 U
Xylenes (total)	630	2700	R	0.0021 J
Semi-Volatiles				
1,2,4-Trichlorobenzene	22	99	-	-
1,2-Dichlorobenzene	1900	9800	-	-
1,3-Dichlorobenzene	-	-	-	-
1,4-Dichlorobenzene	2.4	12	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22	0.14 U	0.11 U
2,4,5-Trichlorophenol	6100	62000	0.2 U	0.16 U
2,4,6-Trichlorophenol	44	160	0.2 U	0.16 U
2,4-Dichlorophenol	180	1800	0.2 U	0.16 U
2,4-Dimethylphenol	1200	12000	0.2 U	0.16 U
2,4-Dinitrophenol	120	1200	0.45 U	0.35 U
2,4-Dinitrotoluene	1.6	5.5	0.27 U	0.21 U
2,6-Dinitrotoluene	61	620	0.27 U	0.21 U
2-Chloronaphthalene	6300	82000	0.068 U	0.053 U
2-Chlorophenol	390	5100	0.068 U	0.053 U
2-Methylnaphthalene	230	2200	0.01	0.062
2-Methylphenol	3100	31000	0.27 U	0.21 U
2-Nitroaniline	610	6000	0.27 U	0.21 U
2-Nitrophenol	-	-	0.068 U	0.053 U
3,3'-Dichlorobenzidine	1.1	3.8	0.14 U	0.11 U
3-Nitroaniline	-	-	0.27 U	0.21 U
4,6-Dinitro-2-methylphenol	4.9	49	0.2 U	0.16 U
4-Bromophenyl phenyl ether	-	-	0.068 U	0.053 U
4-Chloro-3-methylphenol	6100	62000	0.2 U	0.16 U
4-Chloroaniline	2.4	8.6	0.2 U	0.16 U
4-Chlorophenyl phenyl ether	-	-	0.068 U	0.053 U
4-Methylphenol	6100	62000	0.27 U	0.21 U
4-Nitroaniline	24	86	0.27 U	0.21 U
4-Nitrophenol	-	-	0.45 U	0.35 U
Acenaphthene	3400	33000	0.0091 U	0.14
Acenaphthylene	-	-	0.0091 U	0.008
Acetophenone	7800	100000	0.14 U	0.11 U
Anthracene	17000	170000	0.0091 U	0.05
Atrazine	2.1	7.5	0.27 U	0.21 U
Benzaldehyde	7800	100000	0.14 U	0.11 U
Benzo(a)anthracene	0.15	2.1	0.0091 U	0.078
Benzo(a)pyrene	0.015	0.21	0.0091 U	0.073[a]
Benzo(b)fluoranthene	0.15	2.1	0.0091 U	0.1
Benzo(g,h,i)perylene	-	-	0.0091 U	0.05
Benzo(k)fluoranthene	1.5	21	0.0091 U	0.042
Biphenyl (1,1-Biphenyl)	51	210	0.068 U	0.053 U
bis(2-Chloroethoxy)methane	180	1800	0.14 U	0.11 U
bis(2-Chloroethyl)ether	0.21	1	0.14 U	0.11 U
bis(2-Ethylhexyl)phthalate (DEHP)	35	120	0.068 U	0.053 U
Butyl benzylphthalate (BBP)	260	910	0.068 U	0.053 U

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000	0.45 U	0.35 U
Carbazole	-	-	0.068 U	0.053 U
Chrysene	15	210	0.0091 U	0.08
Dibenz(a,h)anthracene	0.015	0.21	0.0091 U	0.011
Dibenzofuran	78	1000	0.068 U	0.084
Diethyl phthalate	49000	490000	0.068 U	0.053 U
Dimethyl phthalate	-	-	0.068 U	0.053 U
Di-n-butylphthalate (DBP)	6100	62000	0.068 U	0.053 U
Di-n-octyl phthalate (DnOP)	730	7400	0.068 U	0.053 U
Fluoranthene	2300	22000	0.0091 U	0.19
Fluorene	2300	22000	0.0091 U	0.1
Hexachlorobenzene	0.3	1.1	0.0091 U	0.0071 U
Hexachlorobutadiene	6.2	22	0.068 U	0.053 U
Hexachlorocyclopentadiene	370	3700	0.45 U	0.35 U
Hexachloroethane	12	43	0.068 U	0.053 U
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.0091 U	0.045
Isophorone	510	1800	0.068 U	0.053 U
Naphthalene	3.6	18	0.0091 U	0.046
Nitrobenzene	4.8	24	0.14 U	0.11 U
N-Nitrosodi-n-propylamine	0.069	0.25	0.068 U	0.053 U
N-Nitrosodiphenylamine	99	350	0.068 U	0.053 U
Pentachlorophenol	0.89	2.7	0.2 U	0.16 U
Phenanthrene	-	-	0.0091 U	0.25
Phenol	18000	180000	0.068 U	0.053 U
Pyrene	1700	17000	0.0091 U	0.16
Metals				
Aluminum	77000	990000	5680	2310
Antimony	31	410	0.78 J	6.4 U
Arsenic	0.39	1.6	17.7[ab]	2.9[ab]
Barium	15000	190000	389	17.8 J
Beryllium	160	2000	0.97	0.099 J
Cadmium	70	800	0.68 U	0.10 J
Calcium	-	-	5650	142000
Chromium	-	-	11.7	4.6
Cobalt	23	300	4.5 J	2.8 J
Copper	3100	41000	17.2	8.6
Iron	55000	720000	9890	6040
Lead	400	800	6.4 J	9.1 J
Magnesium	-	-	1290	53600
Manganese	1800	23000	84.9	297
Mercury	10	43	0.14 U	0.11 U
Nickel	1500	20000	8.8	7.4
Potassium	-	-	1070	365 J
Selenium	390	5100	3.7 J	26.6 U
Silver	390	5100	1.4 U	1.1 U
Sodium	-	-	130 J	177 J
Thallium	0.78	10	0.54	0.11 U
Vanadium	390	5200	28.2	6.2
Zinc	23000	310000	10.3	23.2
PCBs				

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TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21	0.045 UJ	0.035 UJ
Aroclor-1221 (PCB-1221)	0.14	0.54	0.045 UJ	0.035 UJ
Aroclor-1232 (PCB-1232)	0.14	0.54	0.045 UJ	0.035 UJ
Aroclor-1242 (PCB-1242)	0.22	0.74	0.045 UJ	0.035 UJ
Aroclor-1248 (PCB-1248)	0.22	0.74	0.045 UJ	0.035 UJ
Aroclor-1254 (PCB-1254)	0.22	0.74	0.045 UJ	0.035 UJ
Aroclor-1260 (PCB-1260)	0.22	0.74	0.045 UJ	0.035 UJ
Pesticides				
4,4'-DDD	2	7.2	0.023 UJ	0.036 UJ
4,4'-DDE	1.4	5.1	0.023 U	0.036 U
4,4'-DDT	1.7	7	0.023 UJ	0.036 UJ
Aldrin	0.029	0.1	0.023 U	0.036 U
alpha-BHC	0.077	0.27	0.023 U	0.036 U
alpha-Chlordane	-	-	0.023 U	0.036 U
beta-BHC	0.27	0.96	0.023 U	0.036 U
delta-BHC	-	-	0.023 U	0.036 U
Dieldrin	0.03	0.11	0.023 U	0.036 U
Endosulfan I	-	-	0.023 U	0.036 U
Endosulfan II	-	-	0.023 U	0.036 U
Endosulfan sulfate	-	-	0.023 U	0.036 U
Endrin	18	180	0.023 U	0.036 U
Endrin aldehyde	-	-	0.023 U	0.036 U
Endrin ketone	-	-	0.023 U	0.036 U
gamma-BHC (lindane)	0.52	2.1	0.023 U	0.036 U
gamma-Chlordane	-	-	0.023 U	0.036 U
Heptachlor	0.11	0.38	0.023 U	0.036 U
Heptachlor epoxide	0.053	0.19	0.023 U	0.036 U
Methoxychlor	310	3100	0.045 UJ	0.07 UJ
Toxaphene	0.44	1.6	0.91 UJ	1.4 UJ

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides				
2,4,5-TP (Silvex)	490	4900	0.027 U	0.021 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700	0.11 U	0.085 U
General Chemistry				
Cyanide (total)	22	140	0.68 U	0.52 J
Total solids (%)	-	-	73.2	94.1

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
B - Compound is found in the associated blank as well as in the sample (Organics)
E - Estimated or not reported due to interference. (Inorganics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument. (Organics)

J - Indicates an estimated value.
concentrations between two GC columns. The lower of the two

R - The parameter was rejected.

U - Compound was analyzed for but not detected.

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.
component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

- - Not applicable.

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
B - Compound is found in the associated blank as well as in the sample (Organics)
E - Estimated or not reported due to interference. (Inorganics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument. (Organics)

J - Indicates an estimated value.
concentrations between two GC columns. The lower of the two

R - The parameter was rejected.

U - Compound was analyzed for but not detected.

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.
component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

- - Not applicable.

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
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concentrations between two GC columns. The lower of the two

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component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

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TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
B - Compound is found in the associated blank as well as in the sample (Organics)
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concentrations between two GC columns. The lower of the two

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- - Not applicable.

TABLE 2.1

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SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

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SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

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SOUTH DAYTON DUMP AND LANDFILL SITE
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MORAINE, OHIO

Herbicides		
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General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

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SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
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Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
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OPERABLE UNIT 2
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2,4,5-Trichlorophenol	6100	62000
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2,4-Dichlorophenol	180	1800
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2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
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4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
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Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
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Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
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Aroclor-1248 (PCB-1248)	0.22	0.74
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Aroclor-1260 (PCB-1260)	0.22	0.74
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Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
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Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
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2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
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2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
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2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
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4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
B - Compound is found in the associated blank as well as in the sample (Organics)
E - Estimated or not reported due to interference. (Inorganics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument. (Organics)

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concentrations between two GC columns. The lower of the two

R - The parameter was rejected.

U - Compound was analyzed for but not detected.

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component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

- - Not applicable.

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
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TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

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TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
B - Compound is found in the associated blank as well as in the sample (Organics)
E - Estimated or not reported due to interference. (Inorganics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument. (Organics)

J - Indicates an estimated value.
concentrations between two GC columns. The lower of the two

R - The parameter was rejected.

U - Compound was analyzed for but not detected.

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.
component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

- - Not applicable.

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

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concentrations between two GC columns. The lower of the two

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TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
B - Compound is found in the associated blank as well as in the sample (Organics)
E - Estimated or not reported due to interference. (Inorganics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument. (Organics)

J - Indicates an estimated value.
concentrations between two GC columns. The lower of the two

R - The parameter was rejected.

U - Compound was analyzed for but not detected.

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component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

- - Not applicable.

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Sample Location:			
Sample ID:			
Sample Date:	***USEPA Regional Screening Levels [1]***		
Sample Depth:			
Parameter		***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles			
1,1,1-Trichloroethane		8700	38000
1,1,2,2-Tetrachloroethane		0.56	2.8
1,1,2-Trichloroethane		1.1	5.3
1,1-Dichloroethane		3.3	17
1,1-Dichloroethene		240	1100
1,2,4-Trichlorobenzene		22	99
1,2-Dibromo-3-chloropropane (DBCP)		0.0054	0.069
1,2-Dibromoethane (Ethylene dibromide)		0.034	0.17
1,2-Dichlorobenzene		1900	9800
1,2-Dichloroethane		0.43	2.2
1,2-Dichloroethene (total)		700	9200
1,2-Dichloropropane		0.94	4.7
1,3-Dichlorobenzene		-	-
1,4-Dichlorobenzene		2.4	12
2-Butanone (Methyl ethyl ketone) (MEK)		28000	200000
2-Hexanone		210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		5300	53000
Acetone		61000	630000
Benzene		1.1	5.4
Bromodichloromethane		0.27	1.4
Bromoform		62	220
Bromomethane (Methyl bromide)		7.3	32
Carbon disulfide		820	3700
Carbon tetrachloride		0.61	3
Chlorobenzene		290	1400
Chloroethane		15000	61000
Chloroform (Trichloromethane)		0.29	1.5
Chloromethane (Methyl chloride)		120	500
cis-1,2-Dichloroethene		160	2000
cis-1,3-Dichloropropene		-	-
Cyclohexane		7000	29000
Dibromochloromethane		0.68	3.3
Dichlorodifluoromethane (CFC-12)		94	400
Ethylbenzene		5.4	27
Isopropyl benzene		2100	11000
Methyl acetate		78000	1000000
Methyl cyclohexane		-	-
Methyl tert butyl ether (MTBE)		43	220
Methylene chloride		56	960
Styrene		6300	36000
Tetrachloroethene		22	110
Toluene		5000	45000
trans-1,2-Dichloroethene		150	690

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Trichlorofluoromethane (CFC-11)	790	3400
Trifluorotrichloroethane (Freon 113)	43000	180000
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	4.6	22
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100
2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Acetophenone	7800	100000
Anthracene	17000	170000
Atrazine	2.1	7.5
Benzaldehyde	7800	100000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
Biphenyl (1,1-Biphenyl)	51	210
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910

TABLE 2.1

HISTORIC SOIL SAMPLING ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Caprolactam	31000	310000
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000
Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
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Sodium	-	-
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OPERABLE UNIT 2
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Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-
gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6

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SOUTH DAYTON DUMP AND LANDFILL SITE
OPERABLE UNIT 2
MORAINE, OHIO

Herbicides		
2,4,5-TP (Silvex)	490	4900
2,4-Dichlorophenoxyacetic acid (2,4-D)	690	7700
General Chemistry		
Cyanide (total)	22	140
Total solids (%)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.
Screening Levels (RSL) for Chemical Contaminants at Superfund

ft BWS - Feet below water surface
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component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a

- - Not applicable.

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]			*S15(OEPA)*	*S16(OEPA)*	*S17(OEPA)*	*S17(OEPA)*	*S18(OEPA)*	*S19(OEPA)*	*SEDIMENT-1*	*SED-1*	*SEDIMENT-2*	*SED-2*	*SEDIMENT-3*	*SED-3*
Sample ID: [2]			*96-DV-03-S15*	*96-DV-03-S16*	*96-DV-03-S17*	*96-DV-03-D17*	*96-DV-03-S18*	*96-DV-03-S19*	*SEDIMENT-1*	*SED-1*	*SEDIMENT-2*	*SED-2*	*SEDIMENT-3*	*SED-3*
Sample Date:			*7/9/1996*	*7/9/1996*	*7/9/1996*	*7/9/1996*	*7/9/1996*	*7/9/1996*	*4/16/1999*	*5/12/2000*	*4/16/1999*	*5/12/2000*	*4/16/1999*	*5/12/2000*
Sample Depth:			*15-18 ft BWS*	*15-18 ft BWS*	*0-0.5 ft BWS*	*0-0.5 ft BWS*	*0-0.5 ft BWS*	*0-0.5 ft BWS*	*-*	*-*	*-*	*-*	*-*	*-*
Sample Location:	*USEPA Regional Screening Levels [1]*		*Quarry Pond*	*Quarry Pond*	*GMR*	*Duplicate GMR*	*GMR*	*GMR*	*Quarry Pond*	*Quarry Pond*	*Quarry Pond*	*Quarry Pond*	*Quarry Pond*	*Quarry Pond*
Parameter	*Residential Soil Criteria a*	*Industrial Soil Criteria b*												
Volatiles														
1,1,1-Trichloroethane	8700	38000	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,2,2-Tetrachloroethane	0.56	2.8	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,2-Trichloroethane	1.1	5.3	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1-Dichloroethane	3.3	17	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1-Dichloroethene	240	1100	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloroethane	0.43	2.2	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloroethene (total)	700	9200	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloropropane	0.94	4.7	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000	0.026 U	0.01 J	0.015 U	0.014 U	0.005 J	0.018 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2-Hexanone	210	1400	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Acetone	61000	630000	0.047	0.043	0.015 U	0.014 U	0.033	0.019	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.037
Benzene	1.1	5.4	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromodichloromethane	0.27	1.4	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromoform	62	220	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromomethane (Methyl bromide)	7.3	32	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	820	3700	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Carbon tetrachloride	0.61	3	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chlorobenzene	290	1400	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloroethane	15000	61000	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform (Trichloromethane)	0.29	1.5	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloromethane (Methyl chloride)	120	500	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
cis-1,3-Dichloropropene	-	-	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Dibromochloromethane	0.68	3.3	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Ethylbenzene	5.4	27	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Methylene chloride	56	960	0.026 BUJ	0.029 BUJ	0.015 BUJ	0.014 BUJ	0.018 BUJ	0.018 BUJ	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Styrene	6300	36000	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Tetrachloroethene	22	110	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Toluene	5000	45000	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.001 J	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.014
trans-1,3-Dichloropropene	-	-	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Trichloroethene	0.91	6.4	0.0008 J	0.029 U	0.0007 J	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Vinyl chloride	0.06	1.7	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Xylenes (total)	630	2700	0.026 U	0.029 U	0.015 U	0.014 U	0.018 U	0.018 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Semi-Volatiles														
1,2,4-Trichlorobenzene	22	99	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
1,2-Dichlorobenzene	1900	9800	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
1,3-Dichlorobenzene	-	-	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
1,4-Dichlorobenzene	2.4	12	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
2,4,5-Trichlorophenol	6100	62000	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-	-	-
2,4,6-Trichlorophenol	44	160	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
2,4-Dichlorophenol	180	1800	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
2,4-Dimethylphenol	1200	12000	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
2,4-Dinitrophenol	120	1200	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-	-	-
2,4-Dinitrotoluene	1.6	5.5	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
2,6-Dinitrotoluene	61	620	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
2-Chloronaphthalene	6300	82000	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-
2-Chlorophenol	390	5100	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

2-Methylnaphthalene	230	2200	2-Methylnaphthalene	230	2200	0.12 J	0.075 J	0.023 J	0.019 J	0.016 J	0.031 J	-	-	-	-
2-Methylphenol	3100	31000	2-Methylphenol	3100	31000	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
2-Nitroaniline	610	6000	2-Nitroaniline	610	6000	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-
2-Nitrophenol	-	-	2-Nitrophenol	-	-	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
3,3'-Dichlorobenzidine	1.1	3.8	3,3'-Dichlorobenzidine	1.1	3.8	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
3-Nitroaniline	-	-	3-Nitroaniline	-	-	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-
4,6-Dinitro-2-methylphenol	4.9	49	4,6-Dinitro-2-methylphenol	4.9	49	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-
4-Bromophenyl phenyl ether	-	-	4-Bromophenyl phenyl ether	-	-	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
4-Chloro-3-methylphenol	6100	62000	4-Chloro-3-methylphenol	6100	62000	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
4-Chloroaniline	2.4	8.6	4-Chloroaniline	2.4	8.6	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
4-Chlorophenyl phenyl ether	-	-	4-Chlorophenyl phenyl ether	-	-	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
4-Methylphenol	6100	62000	4-Methylphenol	6100	62000	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
4-Nitroaniline	24	86	4-Nitroaniline	24	86	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-
4-Nitrophenol	-	-	4-Nitrophenol	-	-	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-
Acenaphthene	3400	33000	Acenaphthene	3400	33000	0.059 J	0.092 J	0.021 J	0.015 J	0.04 J	0.089 J	-	-	-	-
Acenaphthylene	-	-	Acenaphthylene	-	-	0.85 U	0.061 J	0.16 J	0.15 J	0.014 J	0.022 J	-	-	-	-
Anthracene	17000	170000	Anthracene	17000	170000	0.11 J	0.23 J	0.4 J	0.39 J	0.075 J	0.17 J	-	-	-	-
Benzo(a)anthracene	0.15	2.1	Benzo(a)anthracene	0.15	2.1	**0.49 J[a]**	**1.5[a]**	**2.2[ab]**	**2.1[a]**	**0.6[a]**	**1.3[a]**	-	-	-	-
Benzo(a)pyrene	0.015	0.21	Benzo(a)pyrene	0.015	0.21	**0.46 J[ab]**	**1.8[ab]**	**2.1[ab]**	**2.1[ab]**	**0.58[ab]**	**1.1[ab]**	-	-	-	-
Benzo(b)fluoranthene	0.15	2.1	Benzo(b)fluoranthene	0.15	2.1	**0.8 J[a]**	**2.5[ab]**	**2.7[ab]**	**2.3[ab]**	**1[a]**	**1.8[a]**	-	-	-	-
Benzo(g,h,i)perylene	-	-	Benzo(g,h,i)perylene	-	-	0.49 J	2	2.2	1.6	0.66	1.4	-	-	-	-
Benzo(k)fluoranthene	1.5	21	Benzo(k)fluoranthene	1.5	21	0.3 J	0.95	0.93	0.93	0.41 J	0.69	-	-	-	-
bis(2-Chloroethoxy)methane	180	1800	bis(2-Chloroethoxy)methane	180	1800	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
bis(2-Chloroethyl)ether	0.21	1	bis(2-Chloroethyl)ether	0.21	1	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	35	120	bis(2-Ethylhexyl)phthalate (DEHP)	35	120	0.85 U	0.47 J	0.5 U	0.084 J	0.33 J	0.36 J	-	-	-	-
Butyl benzylphthalate (BBP)	260	910	Butyl benzylphthalate (BBP)	260	910	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.084 J	-	-	-	-
Carbazole	-	-	Carbazole	-	-	0.085 J	0.11 J	0.02 J	0.015 J	0.084 J	0.19 J	-	-	-	-
Chrysene	15	210	Chrysene	15	210	0.55 J	1.5	2.5	2.1	0.71	1.5	-	-	-	-
Dibenz(a,h)anthracene	0.015	0.21	Dibenz(a,h)anthracene	0.015	0.21	**0.12 J[a]**	**0.48 J[ab]**	**0.43 J[ab]**	**0.32 J[ab]**	**0.15 J[a]**	**0.31 J[ab]**	-	-	-	-
Dibenzofuran	78	1000	Dibenzofuran	78	1000	0.07 J	0.095 J	0.011 J	0.007 J	0.034 J	0.1 J	-	-	-	-
Diethyl phthalate	49000	490000	Diethyl phthalate	49000	490000	0.85 U	0.039 J	0.024 J	0.027 J	0.051 J	0.033 J	-	-	-	-
Dimethyl phthalate	-	-	Dimethyl phthalate	-	-	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Di-n-butylphthalate (DBP)	6100	62000	Di-n-butylphthalate (DBP)	6100	62000	0.85 BUJ	0.94 BUJ	0.5 BUJ	0.46 BUJ	0.58 BUJ	0.6 BUJ	-	-	-	-
Di-n-octyl phthalate (DnOP)	730	7400	Di-n-octyl phthalate (DnOP)	730	7400	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Fluoranthene	2300	22000	Fluoranthene	2300	22000	1.1	2.6	2	2	1.4	2.2	-	-	-	-
Fluorene	2300	22000	Fluorene	2300	22000	0.076 J	0.16 J	0.053 J	0.043 J	0.06 J	0.13 J	-	-	-	-
Hexachlorobenzene	0.3	1.1	Hexachlorobenzene	0.3	1.1	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Hexachlorobutadiene	6.2	22	Hexachlorobutadiene	6.2	22	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Hexachlorocyclopentadiene	370	3700	Hexachlorocyclopentadiene	370	3700	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Hexachloroethane	12	43	Hexachloroethane	12	43	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.15	2.1	Indeno(1,2,3-cd)pyrene	0.15	2.1	**0.46 J[a]**	**1.9[a]**	**1.9[a]**	**1.4[a]**	**0.65[a]**	**1.4[a]**	-	-	-	-
Isophorone	510	1800	Isophorone	510	1800	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Naphthalene	3.6	18	Naphthalene	3.6	18	0.07 J	0.077 J	0.031 J	0.025 J	0.018 J	0.063 J	-	-	-	-
Nitrobenzene	4.8	24	Nitrobenzene	4.8	24	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
N-Nitrosodi-n-propylamine	0.069	0.25	N-Nitrosodi-n-propylamine	0.069	0.25	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
N-Nitrosodiphenylamine	99	350	N-Nitrosodiphenylamine	99	350	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Pentachlorophenol	0.89	2.7	Pentachlorophenol	0.89	2.7	2.1 U	2.4 U	1.3 U	1.2 U	1.5 U	1.5 U	-	-	-	-
Phenanthrene	-	-	Phenanthrene	-	-	0.89	1.5	0.7	0.61	0.83	1.9	-	-	-	-
Phenol	18000	180000	Phenol	18000	180000	0.85 U	0.94 U	0.5 U	0.46 U	0.58 U	0.6 U	-	-	-	-
Pyrene	1700	17000	Pyrene	1700	17000	1.3	3	4.7 E	3.7 E	1.4	2.7	-	-	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals			***Metals***												
Aluminum	77000	990000	Aluminum	77000	990000	2750	6590	9750	8450	8940	8600	-	-	-	-
Antimony	31	410	Antimony	31	410	9.1 U	13.5 U	7.9 U	8.1 U	10 U	10.1 U	-	-	-	-
Arsenic	0.39	1.6	Arsenic	0.39	1.6	10.3[ab]	12.6[ab]	9.2[ab]	9.2[ab]	6.0[ab]	9[ab]	-	-	-	-
Barium	15000	190000	Barium	15000	190000	73.0	137	128	125	117	130	-	-	-	-
Beryllium	160	2000	Beryllium	160	2000	0.28 B	0.35 B	0.54 B	0.48 B	0.5 B	0.47 B	-	-	-	-
Cadmium	70	800	Cadmium	70	800	1.0 U	1.5 U	0.89 U	0.91 U	1.1 U	1.1 U	-	-	-	-
Calcium	-	-	Calcium	-	-	53600	11800	61700	58100	81900	74900	-	-	-	-
Chromium	-	-	Chromium	-	-	23.1	17.2	14.9	13.7	18	22.3	-	-	-	-
Cobalt	23	300	Cobalt	23	300	3.7 B	6.7 B	6.6 B	6.2 B	6.5 B	7.2 B	-	-	-	-
Copper	3100	41000	Copper	3100	41000	29.3	24.7	29.3	29.0	26	33.5	-	-	-	-
Iron	55000	720000	Iron	55000	720000	11300	13500	16400	15500	15000	15800	-	-	-	-
Lead	400	800	Lead	400	800	33.7	42.0	51.6	47.2	30.5	47.9	-	-	-	-
Magnesium	-	-	Magnesium	-	-	13600	21600	17200	16100	24200	20600	-	-	-	-
Manganese	1800	23000	Manganese	1800	23000	205	545	299	258	330	420	-	-	-	-
Mercury	10	43	Mercury	10	43	0.08 U	0.12 U	0.63	0.65	0.09 U	0.13 B	-	-	-	-
Nickel	1500	20000	Nickel	1500	20000	13.4	18.7 B	16.2	17.9	19.9	23.7	-	-	-	-
Potassium	-	-	Potassium	-	-	297 B	736 B	812 B	709 B	1090 B	991 B	-	-	-	-
Selenium	390	5100	Selenium	390	5100	1.1 B	0.59 B	0.4 B	0.59 B	0.73 B	0.59 B	-	-	-	-
Silver	390	5100	Silver	390	5100	1.4 U	2.1 U	1.2 U	1.2 U	1.5 U	1.5 U	-	-	-	-
Sodium	-	-	Sodium	-	-	165 B	206 B	144 B	131 B	191 B	183 B	-	-	-	-
Thallium	0.78	10	Thallium	0.78	10	0.68 B	0.98 U	1.0 B[a]	0.66 B	0.84 B[a]	0.9 B[a]	-	-	-	-
Vanadium	390	5200	Vanadium	390	5200	9.6 B	16.8 B	21.8	19.2	20.2	20	-	-	-	-
Zinc	23000	310000	Zinc	23000	310000	80.7	143	93.6 B	80.4	114	132	-	-	-	-
PCBs			***PCBs***												
Aroclor-1016 (PCB-1016)	3.9	21	Aroclor-1016 (PCB-1016)	3.9	21	0.087 U	0.094 U	0.05 U	0.046 U	0.058 U	0.06 U	-	-	-	-
Aroclor-1221 (PCB-1221)	0.14	0.54	Aroclor-1221 (PCB-1221)	0.14	0.54	0.18 U	0.19 U	0.1 U	0.093 U	0.12 U	0.12 U	-	-	-	-
Aroclor-1232 (PCB-1232)	0.14	0.54	Aroclor-1232 (PCB-1232)	0.14	0.54	0.087 U	0.094 U	0.05 U	0.046 U	0.058 U	0.06 U	-	-	-	-
Aroclor-1242 (PCB-1242)	0.22	0.74	Aroclor-1242 (PCB-1242)	0.22	0.74	0.087 U	0.094 U	0.05 U	0.046 U	0.058 U	0.06 U	-	-	-	-
Aroclor-1248 (PCB-1248)	0.22	0.74	Aroclor-1248 (PCB-1248)	0.22	0.74	0.087 U	0.094 U	0.05 U	0.046 U	0.058 U	0.06 U	-	-	-	-
Aroclor-1254 (PCB-1254)	0.22	0.74	Aroclor-1254 (PCB-1254)	0.22	0.74	0.66[a]	0.094 U	0.05 U	0.046 U	0.058 U	0.06 U	-	-	-	-
Aroclor-1260 (PCB-1260)	0.22	0.74	Aroclor-1260 (PCB-1260)	0.22	0.74	0.087 U	0.094 U	0.05 U	0.046 U	0.058 U	0.06 U	-	-	-	-
Pesticides			***Pesticides***												
4,4'-DDD	2	7.2	4,4'-DDD	2	7.2	0.0017 JP	0.0094 U	0.0022 JP	0.0049	0.0034 JP	0.0036 JP	-	-	-	-
4,4'-DDE	1.4	5.1	4,4'-DDE	1.4	5.1	0.0087 U	0.0022 JP	0.0050 U	0.0046 U	0.0026 JP	0.0024 JP	-	-	-	-
4,4'-DDT	1.7	7	4,4'-DDT	1.7	7	0.0044 JP	0.0024 JP	0.0021 JP	0.0022 JP	0.0027 JP	0.0023 JP	-	-	-	-
Aldrin	0.029	0.1	Aldrin	0.029	0.1	0.0045 U	0.0049 U	0.0026 U	0.0024 U	0.0030 U	0.0013 JP	-	-	-	-
alpha-BHC	0.077	0.27	alpha-BHC	0.077	0.27	0.0045 U	0.0049 U	0.0026 U	0.0024 U	0.0030 U	0.0031 U	-	-	-	-
alpha-Chlordane	-	-	alpha-Chlordane	-	-	0.012	0.0018 JP	0.00072 JP	0.0024 U	0.0070 P	0.0066 P	-	-	-	-
beta-BHC	0.27	0.96	beta-BHC	0.27	0.96	0.0045 U	0.0049 U	0.0026 U	0.0024 U	0.0030 U	0.0031 U	-	-	-	-
delta-BHC	-	-	delta-BHC	-	-	0.0045 U	0.0049 U	0.0014 JP	0.0015 JP	0.0030 U	0.0031 U	-	-	-	-
Dieldrin	0.03	0.11	Dieldrin	0.03	0.11	0.0096 P	0.0026 JP	0.00086 JP	0.0046 U	0.0025 JP	0.0040 JP	-	-	-	-
Endosulfan I	-	-	Endosulfan I	-	-	0.0045 U	0.0049 U	0.0026 U	0.0024 U	0.0030 U	0.0031 U	-	-	-	-
Endosulfan II	-	-	Endosulfan II	-	-	0.0087 U	0.0094 U	0.0050 U	0.0046 U	0.0058 U	0.0060 U	-	-	-	-
Endosulfan sulfate	-	-	Endosulfan sulfate	-	-	0.0037 JP	0.0094 U	0.0050 U	0.0046 U	0.0030 JP	0.0060 U	-	-	-	-
Endrin	18	180	Endrin	18	180	0.034	0.0094 U	0.0034 JP	0.0048 P	0.0024 JP	0.0060 U	-	-	-	-
Endrin aldehyde	-	-	Endrin aldehyde	-	-	0.0079 JP	0.0094 U	0.0050 U	0.0046 U	0.0058 U	0.0060 U	-	-	-	-
Endrin ketone	-	-	Endrin ketone	-	-	0.0087 U	0.0049 J	0.0032 JP	0.0040 JP	0.0058 U	0.0025 JP	-	-	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

gamma-BHC (lindane)	0.52	2.1	gamma-BHC (lindane)	0.52	2.1	0.0045 U	0.0049 U	0.0026 U	0.0024 U	0.0030 U	0.0031 U	-	-	-	-
gamma-Chlordane	-	-	gamma-Chlordane	-	-	0.0049 P	0.0032 J	0.0014 J	0.0024 U	0.0069	0.0056 P	-	-	-	-
Heptachlor	0.11	0.38	Heptachlor	0.11	0.38	0.0045 U	0.0049 U	0.0026 U	0.0024 U	0.0030 U	0.0031 U	-	-	-	-
Heptachlor epoxide	0.053	0.19	Heptachlor epoxide	0.053	0.19	0.0045 U	0.0049 U	0.0026 U	0.0024 U	0.0030 U	0.0031 U	-	-	-	-
Methoxychlor	310	3100	Methoxychlor	310	3100	0.018 J	0.017 JP	0.05	0.065	0.0089 JP	0.012 JP	-	-	-	-
Toxaphene	0.44	1.6	Toxaphene	0.44	1.6	0.45 U	0.49 U	0.26 U	0.24 U	0.3 U	0.31 U	-	-	-	-
General Chemistry			***General Chemistry***												
Cyanide (total)	22	140	Cyanide (total)	22	140	0.27 B	0.17 U	0.19 B	0.21 B	0.23 B	0.32 B	-	-	-	-
Percent moisture (%)	-	-	Percent moisture (%)	-	-	-	-	-	-	-	-	13.5	15	15.0	13
Total organic carbon (TOC)	-	-	Total organic carbon (TOC)	-	-	-	-	-	-	-	-	390	-	550	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.

Regional Screening Levels (RSL) for Chemical

[2] - Sample IDs and locations SEDIMENT-1, SEDIMENT-2, SEDIMENT-3 are equivalent to SED-1, SED-2 and SED-3, respectively

ft BWS - Feet below water surface

GMR - Great Miami River

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

J - Indicates an estimated value.

detected concentrations between two GC columns. The

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.

U - Compound was analyzed for but not detected.

- - Not applicable.

Notes:

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HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]			***SEDIMENT-3***	***SED-3***
Sample ID: [2]			***SEDIMENT-3***	***SED-3***
Sample Date:			***4/16/1999***	***5/12/2000***
Sample Depth:			***-***	***-***
Sample Location:	***USEPA Regional Screening Levels [1]***		***Quarry Pond***	***Quarry Pond***
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***		
Volatiles				
1,1,1-Trichloroethane	8700	38000	0.0050 U	0.0050 U
1,1,2,2-Tetrachloroethane	0.56	2.8	0.0050 U	0.0050 U
1,1,2-Trichloroethane	1.1	5.3	0.0050 U	0.0050 U
1,1-Dichloroethane	3.3	17	0.0050 U	0.0050 U
1,1-Dichloroethene	240	1100	0.0050 U	0.0050 U
1,2-Dichloroethane	0.43	2.2	0.0050 U	0.0050 U
1,2-Dichloroethene (total)	700	9200	0.0050 U	0.0050 U
1,2-Dichloropropane	0.94	4.7	0.0050 U	0.0050 U
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000	0.02 U	0.02 U
2-Hexanone	210	1400	0.02 U	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000	0.02 U	0.02 U
Acetone	61000	630000	0.02 U	0.037
Benzene	1.1	5.4	0.0050 U	0.0050 U
Bromodichloromethane	0.27	1.4	0.0050 U	0.0050 U
Bromoform	62	220	0.0050 U	0.0050 U
Bromomethane (Methyl bromide)	7.3	32	0.01 U	0.01 U
Carbon disulfide	820	3700	0.0050 U	0.0050 U
Carbon tetrachloride	0.61	3	0.0050 U	0.0050 U
Chlorobenzene	290	1400	0.0050 U	0.0050 U
Chloroethane	15000	61000	0.01 U	0.01 U
Chloroform (Trichloromethane)	0.29	1.5	0.0050 U	0.0050 U
Chloromethane (Methyl chloride)	120	500	0.01 U	0.01 U
cis-1,3-Dichloropropene	-	-	0.0050 U	0.0050 U
Dibromochloromethane	0.68	3.3	0.0050 U	0.0050 U
Ethylbenzene	5.4	27	0.0050 U	0.0050 U
Methylene chloride	56	960	0.0050 U	0.0050 U
Styrene	6300	36000	0.0050 U	0.0050 U
Tetrachloroethene	22	110	0.0050 U	0.0050 U
Toluene	5000	45000	0.0050 U	0.014
trans-1,3-Dichloropropene	-	-	0.0050 U	0.0050 U
Trichloroethene	0.91	6.4	0.0050 U	0.0050 U
Vinyl chloride	0.06	1.7	0.01 U	0.01 U
Xylenes (total)	630	2700	0.0050 U	0.0050 U
Semi-Volatiles				
1,2,4-Trichlorobenzene	22	99	-	-
1,2-Dichlorobenzene	1900	9800	-	-
1,3-Dichlorobenzene	-	-	-	-
1,4-Dichlorobenzene	2.4	12	-	-
2,4,5-Trichlorophenol	6100	62000	-	-
2,4,6-Trichlorophenol	44	160	-	-
2,4-Dichlorophenol	180	1800	-	-
2,4-Dimethylphenol	1200	12000	-	-
2,4-Dinitrophenol	120	1200	-	-
2,4-Dinitrotoluene	1.6	5.5	-	-
2,6-Dinitrotoluene	61	620	-	-
2-Chloronaphthalene	6300	82000	-	-
2-Chlorophenol	390	5100	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

2-Methylnaphthalene	230	2200	-	-
2-Methylphenol	3100	31000	-	-
2-Nitroaniline	610	6000	-	-
2-Nitrophenol	-	-	-	-
3,3'-Dichlorobenzidine	1.1	3.8	-	-
3-Nitroaniline	-	-	-	-
4,6-Dinitro-2-methylphenol	4.9	49	-	-
4-Bromophenyl phenyl ether	-	-	-	-
4-Chloro-3-methylphenol	6100	62000	-	-
4-Chloroaniline	2.4	8.6	-	-
4-Chlorophenyl phenyl ether	-	-	-	-
4-Methylphenol	6100	62000	-	-
4-Nitroaniline	24	86	-	-
4-Nitrophenol	-	-	-	-
Acenaphthene	3400	33000	-	-
Acenaphthylene	-	-	-	-
Anthracene	17000	170000	-	-
Benzo(a)anthracene	0.15	2.1	-	-
Benzo(a)pyrene	0.015	0.21	-	-
Benzo(b)fluoranthene	0.15	2.1	-	-
Benzo(g,h,i)perylene	-	-	-	-
Benzo(k)fluoranthene	1.5	21	-	-
bis(2-Chloroethoxy)methane	180	1800	-	-
bis(2-Chloroethyl)ether	0.21	1	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	35	120	-	-
Butyl benzylphthalate (BBP)	260	910	-	-
Carbazole	-	-	-	-
Chrysene	15	210	-	-
Dibenz(a,h)anthracene	0.015	0.21	-	-
Dibenzofuran	78	1000	-	-
Diethyl phthalate	49000	490000	-	-
Dimethyl phthalate	-	-	-	-
Di-n-butylphthalate (DBP)	6100	62000	-	-
Di-n-octyl phthalate (DnOP)	730	7400	-	-
Fluoranthene	2300	22000	-	-
Fluorene	2300	22000	-	-
Hexachlorobenzene	0.3	1.1	-	-
Hexachlorobutadiene	6.2	22	-	-
Hexachlorocyclopentadiene	370	3700	-	-
Hexachloroethane	12	43	-	-
Indeno(1,2,3-cd)pyrene	0.15	2.1	-	-
Isophorone	510	1800	-	-
Naphthalene	3.6	18	-	-
Nitrobenzene	4.8	24	-	-
N-Nitrosodi-n-propylamine	0.069	0.25	-	-
N-Nitrosodiphenylamine	99	350	-	-
Pentachlorophenol	0.89	2.7	-	-
Phenanthrene	-	-	-	-
Phenol	18000	180000	-	-
Pyrene	1700	17000	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals				
Aluminum	77000	990000	-	-
Antimony	31	410	-	-
Arsenic	0.39	1.6	-	-
Barium	15000	190000	-	-
Beryllium	160	2000	-	-
Cadmium	70	800	-	-
Calcium	-	-	-	-
Chromium	-	-	-	-
Cobalt	23	300	-	-
Copper	3100	41000	-	-
Iron	55000	720000	-	-
Lead	400	800	-	-
Magnesium	-	-	-	-
Manganese	1800	23000	-	-
Mercury	10	43	-	-
Nickel	1500	20000	-	-
Potassium	-	-	-	-
Selenium	390	5100	-	-
Silver	390	5100	-	-
Sodium	-	-	-	-
Thallium	0.78	10	-	-
Vanadium	390	5200	-	-
Zinc	23000	310000	-	-
PCBs				
Aroclor-1016 (PCB-1016)	3.9	21	-	-
Aroclor-1221 (PCB-1221)	0.14	0.54	-	-
Aroclor-1232 (PCB-1232)	0.14	0.54	-	-
Aroclor-1242 (PCB-1242)	0.22	0.74	-	-
Aroclor-1248 (PCB-1248)	0.22	0.74	-	-
Aroclor-1254 (PCB-1254)	0.22	0.74	-	-
Aroclor-1260 (PCB-1260)	0.22	0.74	-	-
Pesticides				
4,4'-DDD	2	7.2	-	-
4,4'-DDE	1.4	5.1	-	-
4,4'-DDT	1.7	7	-	-
Aldrin	0.029	0.1	-	-
alpha-BHC	0.077	0.27	-	-
alpha-Chlordane	-	-	-	-
beta-BHC	0.27	0.96	-	-
delta-BHC	-	-	-	-
Dieldrin	0.03	0.11	-	-
Endosulfan I	-	-	-	-
Endosulfan II	-	-	-	-
Endosulfan sulfate	-	-	-	-
Endrin	18	180	-	-
Endrin aldehyde	-	-	-	-
Endrin ketone	-	-	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

gamma-BHC (lindane)	0.52	2.1	-	-
gamma-Chlordane	-	-	-	-
Heptachlor	0.11	0.38	-	-
Heptachlor epoxide	0.053	0.19	-	-
Methoxychlor	310	3100	-	-
Toxaphene	0.44	1.6	-	-
General Chemistry				
Cyanide (total)	22	140	-	-
Percent moisture (%)	-	-	20.3	32
Total organic carbon (TOC)	-	-	100 U	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.

Regional Screening Levels (RSL) for Chemical

[2] - Sample IDs and locations SEDIMENT-1, SEDIMENT-2, SEDIMENT-3 are equivalent to SED-1, SED-2 and SED-3, respectively

ft BWS - Feet below water surface

GMR - Great Miami River

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

J - Indicates an estimated value.

detected concentrations between two GC columns. The

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.

U - Compound was analyzed for but not detected.

- - Not applicable.

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HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]
Sample ID: [2]
Sample Date:
Sample Depth:

Sample Location:	***USEPA Regional Screening Levels [1]***	
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles		
1,1,1-Trichloroethane	8700	38000
1,1,2,2-Tetrachloroethane	0.56	2.8
1,1,2-Trichloroethane	1.1	5.3
1,1-Dichloroethane	3.3	17
1,1-Dichloroethene	240	1100
1,2-Dichloroethane	0.43	2.2
1,2-Dichloroethene (total)	700	9200
1,2-Dichloropropane	0.94	4.7
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000
2-Hexanone	210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000
Acetone	61000	630000
Benzene	1.1	5.4
Bromodichloromethane	0.27	1.4
Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
Carbon disulfide	820	3700
Carbon tetrachloride	0.61	3
Chlorobenzene	290	1400
Chloroethane	15000	61000
Chloroform (Trichloromethane)	0.29	1.5
Chloromethane (Methyl chloride)	120	500
cis-1,3-Dichloropropene	-	-
Dibromochloromethane	0.68	3.3
Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Anthracene	17000	170000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		
Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6
General Chemistry		
Cyanide (total)	22	140
Percent moisture (%)	-	-
Total organic carbon (TOC)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.

Regional Screening Levels (RSL) for Chemical

[2] - Sample IDs and locations SEDIMENT-1, SEDIMENT-2, SEDIMENT-3 are equivalent to SED-1, SED-2 and SED-3, respectively

ft BWS - Feet below water surface

GMR - Great Miami River

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

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detected concentrations between two GC columns. The

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.

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- - Not applicable.

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HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]
Sample ID: [2]
Sample Date:
Sample Depth:

Sample Location:	***USEPA Regional Screening Levels [1]***	
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles		
1,1,1-Trichloroethane	8700	38000
1,1,2,2-Tetrachloroethane	0.56	2.8
1,1,2-Trichloroethane	1.1	5.3
1,1-Dichloroethane	3.3	17
1,1-Dichloroethene	240	1100
1,2-Dichloroethane	0.43	2.2
1,2-Dichloroethene (total)	700	9200
1,2-Dichloropropane	0.94	4.7
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000
2-Hexanone	210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000
Acetone	61000	630000
Benzene	1.1	5.4
Bromodichloromethane	0.27	1.4
Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
Carbon disulfide	820	3700
Carbon tetrachloride	0.61	3
Chlorobenzene	290	1400
Chloroethane	15000	61000
Chloroform (Trichloromethane)	0.29	1.5
Chloromethane (Methyl chloride)	120	500
cis-1,3-Dichloropropene	-	-
Dibromochloromethane	0.68	3.3
Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Anthracene	17000	170000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		
Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6
General Chemistry		
Cyanide (total)	22	140
Percent moisture (%)	-	-
Total organic carbon (TOC)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.

Regional Screening Levels (RSL) for Chemical

[2] - Sample IDs and locations SEDIMENT-1, SEDIMENT-2, SEDIMENT-3 are equivalent to SED-1, SED-2 and SED-3, respectively

ft BWS - Feet below water surface

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B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

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detected concentrations between two GC columns. The

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.

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HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]
Sample ID: [2]
Sample Date:
Sample Depth:

Sample Location:	***USEPA Regional Screening Levels [1]***	
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles		
1,1,1-Trichloroethane	8700	38000
1,1,2,2-Tetrachloroethane	0.56	2.8
1,1,2-Trichloroethane	1.1	5.3
1,1-Dichloroethane	3.3	17
1,1-Dichloroethene	240	1100
1,2-Dichloroethane	0.43	2.2
1,2-Dichloroethene (total)	700	9200
1,2-Dichloropropane	0.94	4.7
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000
2-Hexanone	210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000
Acetone	61000	630000
Benzene	1.1	5.4
Bromodichloromethane	0.27	1.4
Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
Carbon disulfide	820	3700
Carbon tetrachloride	0.61	3
Chlorobenzene	290	1400
Chloroethane	15000	61000
Chloroform (Trichloromethane)	0.29	1.5
Chloromethane (Methyl chloride)	120	500
cis-1,3-Dichloropropene	-	-
Dibromochloromethane	0.68	3.3
Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Anthracene	17000	170000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		
Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6
General Chemistry		
Cyanide (total)	22	140
Percent moisture (%)	-	-
Total organic carbon (TOC)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.

Regional Screening Levels (RSL) for Chemical

[2] - Sample IDs and locations SEDIMENT-1, SEDIMENT-2, SEDIMENT-3 are equivalent to SED-1, SED-2 and SED-3, respectively

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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]
Sample ID: [2]
Sample Date:
Sample Depth:

Sample Location:	***USEPA Regional Screening Levels [1]***	
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles		
1,1,1-Trichloroethane	8700	38000
1,1,2,2-Tetrachloroethane	0.56	2.8
1,1,2-Trichloroethane	1.1	5.3
1,1-Dichloroethane	3.3	17
1,1-Dichloroethene	240	1100
1,2-Dichloroethane	0.43	2.2
1,2-Dichloroethene (total)	700	9200
1,2-Dichloropropane	0.94	4.7
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000
2-Hexanone	210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000
Acetone	61000	630000
Benzene	1.1	5.4
Bromodichloromethane	0.27	1.4
Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
Carbon disulfide	820	3700
Carbon tetrachloride	0.61	3
Chlorobenzene	290	1400
Chloroethane	15000	61000
Chloroform (Trichloromethane)	0.29	1.5
Chloromethane (Methyl chloride)	120	500
cis-1,3-Dichloropropene	-	-
Dibromochloromethane	0.68	3.3
Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
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1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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2-Nitrophenol	-	-
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3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Anthracene	17000	170000
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Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
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Carbazole	-	-
Chrysene	15	210
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N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals		
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Cadmium	70	800
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Chromium	-	-
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Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
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Aldrin	0.029	0.1
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Dieldrin	0.03	0.11
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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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Acetone	61000	630000
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Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
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Carbon tetrachloride	0.61	3
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Chloroform (Trichloromethane)	0.29	1.5
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Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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3-Nitroaniline	-	-
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4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
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Acenaphthylene	-	-
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Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000

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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		
Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6
General Chemistry		
Cyanide (total)	22	140
Percent moisture (%)	-	-
Total organic carbon (TOC)	-	-

Notes:

All concentrations are expressed in units of milligrams per kilogram (mg/kg) unless otherwise noted.

Regional Screening Levels (RSL) for Chemical

[2] - Sample IDs and locations SEDIMENT-1, SEDIMENT-2, SEDIMENT-3 are equivalent to SED-1, SED-2 and SED-3, respectively

ft BWS - Feet below water surface

GMR - Great Miami River

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics)
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

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HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]
Sample ID: [2]
Sample Date:
Sample Depth:

Sample Location:	***USEPA Regional Screening Levels [1]***	
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles		
1,1,1-Trichloroethane	8700	38000
1,1,2,2-Tetrachloroethane	0.56	2.8
1,1,2-Trichloroethane	1.1	5.3
1,1-Dichloroethane	3.3	17
1,1-Dichloroethene	240	1100
1,2-Dichloroethane	0.43	2.2
1,2-Dichloroethene (total)	700	9200
1,2-Dichloropropane	0.94	4.7
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000
2-Hexanone	210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000
Acetone	61000	630000
Benzene	1.1	5.4
Bromodichloromethane	0.27	1.4
Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
Carbon disulfide	820	3700
Carbon tetrachloride	0.61	3
Chlorobenzene	290	1400
Chloroethane	15000	61000
Chloroform (Trichloromethane)	0.29	1.5
Chloromethane (Methyl chloride)	120	500
cis-1,3-Dichloropropene	-	-
Dibromochloromethane	0.68	3.3
Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Anthracene	17000	170000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		
Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6
General Chemistry		
Cyanide (total)	22	140
Percent moisture (%)	-	-
Total organic carbon (TOC)	-	-

Notes:

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Regional Screening Levels (RSL) for Chemical

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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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Sample ID: [2]
Sample Date:
Sample Depth:

Sample Location:	***USEPA Regional Screening Levels [1]***	
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Volatiles		
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1,1,2,2-Tetrachloroethane	0.56	2.8
1,1,2-Trichloroethane	1.1	5.3
1,1-Dichloroethane	3.3	17
1,1-Dichloroethene	240	1100
1,2-Dichloroethane	0.43	2.2
1,2-Dichloroethene (total)	700	9200
1,2-Dichloropropane	0.94	4.7
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000
2-Hexanone	210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000
Acetone	61000	630000
Benzene	1.1	5.4
Bromodichloromethane	0.27	1.4
Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
Carbon disulfide	820	3700
Carbon tetrachloride	0.61	3
Chlorobenzene	290	1400
Chloroethane	15000	61000
Chloroform (Trichloromethane)	0.29	1.5
Chloromethane (Methyl chloride)	120	500
cis-1,3-Dichloropropene	-	-
Dibromochloromethane	0.68	3.3
Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
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Xylenes (total)	630	2700
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1,2,4-Trichlorobenzene	22	99
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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
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Mercury	10	43
Nickel	1500	20000
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Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

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2,4,6-Trichlorophenol	44	160
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OU2 RI/FS WORK PLAN
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bis(2-Chloroethyl)ether	0.21	1
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Carbazole	-	-
Chrysene	15	210
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Dimethyl phthalate	-	-
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MORAINE, OHIO

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Chromium	-	-
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Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		
Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
Endrin ketone	-	-

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

gamma-BHC (lindane)	0.52	2.1
gamma-Chlordane	-	-
Heptachlor	0.11	0.38
Heptachlor epoxide	0.053	0.19
Methoxychlor	310	3100
Toxaphene	0.44	1.6
General Chemistry		
Cyanide (total)	22	140
Percent moisture (%)	-	-
Total organic carbon (TOC)	-	-

Notes:

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Regional Screening Levels (RSL) for Chemical

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SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Sample Location: [2]
Sample ID: [2]
Sample Date:
Sample Depth:

Sample Location:	***USEPA Regional Screening Levels [1]***	
Parameter	***Residential Soil Criteria a***	***Industrial Soil Criteria b***
Volatiles		
1,1,1-Trichloroethane	8700	38000
1,1,2,2-Tetrachloroethane	0.56	2.8
1,1,2-Trichloroethane	1.1	5.3
1,1-Dichloroethane	3.3	17
1,1-Dichloroethene	240	1100
1,2-Dichloroethane	0.43	2.2
1,2-Dichloroethene (total)	700	9200
1,2-Dichloropropane	0.94	4.7
2-Butanone (Methyl ethyl ketone) (MEK)	28000	200000
2-Hexanone	210	1400
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5300	53000
Acetone	61000	630000
Benzene	1.1	5.4
Bromodichloromethane	0.27	1.4
Bromoform	62	220
Bromomethane (Methyl bromide)	7.3	32
Carbon disulfide	820	3700
Carbon tetrachloride	0.61	3
Chlorobenzene	290	1400
Chloroethane	15000	61000
Chloroform (Trichloromethane)	0.29	1.5
Chloromethane (Methyl chloride)	120	500
cis-1,3-Dichloropropene	-	-
Dibromochloromethane	0.68	3.3
Ethylbenzene	5.4	27
Methylene chloride	56	960
Styrene	6300	36000
Tetrachloroethene	22	110
Toluene	5000	45000
trans-1,3-Dichloropropene	-	-
Trichloroethene	0.91	6.4
Vinyl chloride	0.06	1.7
Xylenes (total)	630	2700
Semi-Volatiles		
1,2,4-Trichlorobenzene	22	99
1,2-Dichlorobenzene	1900	9800
1,3-Dichlorobenzene	-	-
1,4-Dichlorobenzene	2.4	12
2,4,5-Trichlorophenol	6100	62000
2,4,6-Trichlorophenol	44	160
2,4-Dichlorophenol	180	1800
2,4-Dimethylphenol	1200	12000
2,4-Dinitrophenol	120	1200
2,4-Dinitrotoluene	1.6	5.5
2,6-Dinitrotoluene	61	620
2-Chloronaphthalene	6300	82000
2-Chlorophenol	390	5100

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

2-Methylnaphthalene	230	2200
2-Methylphenol	3100	31000
2-Nitroaniline	610	6000
2-Nitrophenol	-	-
3,3'-Dichlorobenzidine	1.1	3.8
3-Nitroaniline	-	-
4,6-Dinitro-2-methylphenol	4.9	49
4-Bromophenyl phenyl ether	-	-
4-Chloro-3-methylphenol	6100	62000
4-Chloroaniline	2.4	8.6
4-Chlorophenyl phenyl ether	-	-
4-Methylphenol	6100	62000
4-Nitroaniline	24	86
4-Nitrophenol	-	-
Acenaphthene	3400	33000
Acenaphthylene	-	-
Anthracene	17000	170000
Benzo(a)anthracene	0.15	2.1
Benzo(a)pyrene	0.015	0.21
Benzo(b)fluoranthene	0.15	2.1
Benzo(g,h,i)perylene	-	-
Benzo(k)fluoranthene	1.5	21
bis(2-Chloroethoxy)methane	180	1800
bis(2-Chloroethyl)ether	0.21	1
bis(2-Ethylhexyl)phthalate (DEHP)	35	120
Butyl benzylphthalate (BBP)	260	910
Carbazole	-	-
Chrysene	15	210
Dibenz(a,h)anthracene	0.015	0.21
Dibenzofuran	78	1000
Diethyl phthalate	49000	490000
Dimethyl phthalate	-	-
Di-n-butylphthalate (DBP)	6100	62000
Di-n-octyl phthalate (DnOP)	730	7400
Fluoranthene	2300	22000
Fluorene	2300	22000
Hexachlorobenzene	0.3	1.1
Hexachlorobutadiene	6.2	22
Hexachlorocyclopentadiene	370	3700
Hexachloroethane	12	43
Indeno(1,2,3-cd)pyrene	0.15	2.1
Isophorone	510	1800
Naphthalene	3.6	18
Nitrobenzene	4.8	24
N-Nitrosodi-n-propylamine	0.069	0.25
N-Nitrosodiphenylamine	99	350
Pentachlorophenol	0.89	2.7
Phenanthrene	-	-
Phenol	18000	180000
Pyrene	1700	17000

HISTORIC SEDIMENT ANALYTICAL RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
OU2 RI/FS WORK PLAN
MORAINE, OHIO

Metals		
Aluminum	77000	990000
Antimony	31	410
Arsenic	0.39	1.6
Barium	15000	190000
Beryllium	160	2000
Cadmium	70	800
Calcium	-	-
Chromium	-	-
Cobalt	23	300
Copper	3100	41000
Iron	55000	720000
Lead	400	800
Magnesium	-	-
Manganese	1800	23000
Mercury	10	43
Nickel	1500	20000
Potassium	-	-
Selenium	390	5100
Silver	390	5100
Sodium	-	-
Thallium	0.78	10
Vanadium	390	5200
Zinc	23000	310000
PCBs		
Aroclor-1016 (PCB-1016)	3.9	21
Aroclor-1221 (PCB-1221)	0.14	0.54
Aroclor-1232 (PCB-1232)	0.14	0.54
Aroclor-1242 (PCB-1242)	0.22	0.74
Aroclor-1248 (PCB-1248)	0.22	0.74
Aroclor-1254 (PCB-1254)	0.22	0.74
Aroclor-1260 (PCB-1260)	0.22	0.74
Pesticides		
4,4'-DDD	2	7.2
4,4'-DDE	1.4	5.1
4,4'-DDT	1.7	7
Aldrin	0.029	0.1
alpha-BHC	0.077	0.27
alpha-Chlordane	-	-
beta-BHC	0.27	0.96
delta-BHC	-	-
Dieldrin	0.03	0.11
Endosulfan I	-	-
Endosulfan II	-	-
Endosulfan sulfate	-	-
Endrin	18	180
Endrin aldehyde	-	-
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Percent moisture (%)	-	-
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