Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	ERB-01 16 4/17/2002	ERB-02 6 4/16/2002	ERB-03 18 4/15/2002	ERB-04 14 4/16/2002	ERB-05 10 4/16/2002	ERB-06 15 - 15.5 4/16/2002	ERB-07 12 - 12.5 4/17/2002	ERB-08 18 - 18.5 4/16/2002	ERB-09 11 - 11.5 4/16/2002	ERB-10 12 - 12.5 4/16/2002	ERB-11 12 - 12.5 4/17/2002	ERB-12 20 - 20.5 4/18/2002	ERB-13 14 - 14.5 4/18/2002
Cyanide																	
Cyanide, Free	200	56000	190000	20000													
Cyanide, Total	200	56000	190000	20000			0 U										
Cyanide, Free																	
Cyanide, Free	200	56000	190000	20000													
Cyanide, Total																	
Cyanide, Total	200	56000	190000	20000	0.29 U	0.31 U	0.26 U	0.3 U	0.26 U	0.27 U	0.29 U	0.28 U	0.31 U	0.26 U	0.31 U	0.29	0.3 U
Mercury																	
Mercury	10	840	190000	24	0.058 U	0.06 U		1.1	0.053 U	0.053 U	0.056 U	0.055 U	0.062 U	0.049 U	0.06 U	0.058	0.059 U
Metal																	
Antimony	27	1100	190000	410	1.1 U	0.98 U	0 U	1.1 U	0.93 U	0.95 U	1.1 U	1 U	1.1 U	0.93 U	1.2 U	1 U	1.2 U
Arsenic	150	53	190000	1.6	5.7	4.9	0 U	5.8	7.5	5.8	4.4	2 U	4.4	12	3.6	6.2	3.6
Beryllium	320	5600	190000	2000	1.1 U	0.98 U	0 U	1.1 U	0.93 U	0.95 U	1.1 U	1 U	1.1 U	0.93 U	1.2 U	1 U	1.2 U
Cadmium	38	210	190000	800	0.57 U	0.49 U	0 U	0.58 U	0.46 U	0.48 U	0.56 U	0.51 U	0.55 U	0.46 U	0.6 U	0.51 U	0.59 U
Chromium				1400	18	25	8.4	41	36	22	15	3	21	29	17	20	14
Copper	36000	100000	190000	41000	14	45	14	38	19	9.5	13	3	20	31	16	28	13
Hexavalent Chromium	190	420	190000	200													
Lead	450	1000	190000	800	11	47	15	31	20	5.8	8.9	2	14	16	11	28	11
Mercury	10	840	190000	24			0.11										
Nickel	650	56000	190000	20000	21	15	6.3	20	15	6.7	7.8	2 U	19	14	16	37	13
Selenium	26	14000	190000	5100	2.3 U	2 U	0 U	2.3 U	1.9 U	1.9 U	2.2 U	2 U	2.2 U	1.9 U	2.4 U	2.1 U	2.4 U
Silver	84	14000	190000	5100	0.57 U	0.49 U	0 U	0.58 U	0.46 U	0.48 U	0.56 U	0.51 U	0.55 U	0.46 U	0.6 U	0.51 U	0.59 U
Thallium	14	200	190000	66	5.7	2.9 U	0 U	3.5 U	2.8 U	2.9 U	3.4 U	3 U	3.2 U	2.7 U	3.6 U	3 U	3.6 U
Titanium																	
Zinc	12000	190000	190000	310000	86	140	41	80	59	19	26	12	55	46	45	95	37
Polychlorinated Biphenols																	
Arochlor-1016	200	200	10000	21													
Arochlor-1221	2.5	160	10000	0.62													
Arochlor-1232	2	160	10000	0.62													
Arochlor-1242	62	160	10000	0.74													
Arochlor-1248	67	44	10000	0.74													
Arochlor-1254	280	44	10000	0.74													
Arochlor-1260	1900	130	190000	0.74													
PCBs (Total)				0.74													
Pesticides and Herbicides																	
4,4'-DDD	30	330	190000	7.2													
4,4'-DDE	170	230	190000	5.1													
4,4'-DDT	330	230	190000	7													
Aldrin	0.44	4.7	190000	0.1													
Alpha-BHC	0.19	13	190000	0.27													
Alpha-Endosulfan	260	17000	190000	3700													
Beta-BHC	0.82	44	190000	0.96													
Beta-Endosulfan	260	17000	190000														
Chlordane	49	230	190000														
Delta-BHC	30	1700	190000	0.27													
Dieldrin	0.44	5	10000	0.11													
Endosulfan Sulfate	70	17000	190000														
Endrin	5.5	840	190000	180													
Endrin Aldehyde																	
Heptachlor	0.68	18	190000	0.38													
Heptachlor Epoxide	1.1	8.7	190000	0.19													

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	ERB-01 16 4/17/2002	ERB-02 6 4/16/2002	ERB-03 18 4/15/2002	ERB-04 14 4/16/2002	ERB-05 10 4/16/2002	ERB-06 15 - 15.5 4/16/2002	ERB-07 12 - 12.5 4/17/2002	ERB-08 18 - 18.5 4/16/2002	ERB-09 11 - 11.5 4/16/2002	ERB-10 12 - 12.5 4/16/2002	ERB-11 12 - 12.5 4/17/2002	ERB-12 20 - 20.5 4/18/2002	ERB-13 14 - 14.5 4/18/2002
Lindane (Gamma-BHC)	0.072	61	190000	2.1													
Toxaphene	1.2	72	190000	1.6													
Semi Volatile Organic Compound																	
1,2,4-Trichlorobenzene	27	10000	10000	400													
1,2-Dichlorobenzene	60	10000	10000	10000													
1,3-Dichlorobenzene	61	10000	10000														
1,4-Dichlorobenzene	10	3300	190000	13			0 U										
2,4-Dinitrotoluene	0.84	260	190000	5.5													
2-Methylnaphthalene	8000	10000	10000	4100													
Acenaphthene	4700	170000	190000	33000													
Acenaphthylene	6900	170000	190000	33000													
Anthracene	350	190000	190000	170000													
Benzo (A) Anthracene	320	110	190000	2.1													
Benzo (a) Pyrene	46	11	190000	0.21													
Benzo (b) Fluoranthene	170	110	190000	2.1													
Benzo (g,h,i) Perylene	180	170000	190000														
Benzo (k) Fluoranthene	610	1100	190000	21													
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120													
Carbazole	83	4000	190000														
Chrysene	230	11000	190000	210													
Dibenzo (a,h) Anthracene	160	11	190000	0.21													
Dibenzofuran																	
Di-n-octylphthalate	10000	10000	10000														
Fluoranthene	3200	110000	190000	22000													
Fluorene	3800	110000	190000	22000													
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1													
Naphthalene	25	56000	190000	20													
Phenanthrene	10000	190000	190000														
Pyrene	2200	84000	190000	17000													
Total Solids																	
Percent Solids					85.60%	79.40%		83.30%	94.90%	93.60%	85.70%	88.90%	80.20%	94.70%	80.40%	85.70%	84.20%
Petroleum Hydrocarbons																	
Petroleum Hydrocarbons (TPH)																	
Volatile Organic Compound																	
1,1,1-Trichloroethane	20	10000	10000	39000	0.054 U	0.054 U	0 U	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.054 U	0.054 U	0 U	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.054 U	0.054 U	0 U	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,1-Dichloroethane	11	1000	1200	17	0.054 U	0.054 U	0.062	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,1-Dichloroethene	0.7	33	38	1100	0.054 U	0.054 U	0 U	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,2-Dichloroethane	0.5	63	73	2.2	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,2-Dichloroethene	7	1900	2100	9200			0 U										
1,2-Dichloropropane	0.5	160	180	4.7	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
1,3-Dichloropropene	2.6	410	470	8.4													
2-Butanone	580	10000	10000	190000			0 U										
2-Chloroethyl Vinyl Ether					0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Acetone	1000	10000	10000	610000			0 U										
Acrolein	0.012	1.1	1.2	0.68	0.54 U	0.54 U		0.47 U	0.5 U	0.47 U	0.51 U	0.46 U	0.52 U	0.57 U	0.52 U	0.46 U	0.5 U
Acrylonitrile	0.27	24	28	1.2	0.22 U	0.22 U		0.85	0.2 U	0.19 U	0.2 U	0.018 U	0.21 U	0.23 U	0.21 U	0.18 U	0.2 U
Benzene	0.5	210	240	5.6	0.054 U	0.054 U	0 U	0.085	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Bromodichloromethane	10	45	51	1.4	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	ERB-01 16 4/17/2002	ERB-02 6 4/16/2002	ERB-03 18 4/15/2002	ERB-04 14 4/16/2002	ERB-05 10 4/16/2002	ERB-06 15 - 15.5 4/16/2002	ERB-07 12 - 12.5 4/17/2002	ERB-08 18 - 18.5 4/16/2002	ERB-09 11 - 11.5 4/16/2002	ERB-10 12 - 12.5 4/16/2002	ERB-11 12 - 12.5 4/17/2002	ERB-12 20 - 20.5 4/18/2002	ERB-13 14 - 14.5 4/18/2002
Bromoform	10	1500	1700	220	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Bromomethane	1	270	300	35	0.11 U	0.11 U		0.093 U	0.1 U	0.095 U	0.1 U	0.092 U	0.1 U	0.11 U	0.1 U	0.091 U	0.1 U
Carbon Tetrachloride	0.5	110	120	1.3	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Chlorobenzene	10	10000	10000	1500	0.054 U	0.054 U	0 U	1.1	32	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Chlorodibromomethane	10	61	70	3.4	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Chloroethane	90	10000	10000	62000	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Chloroform	10	17	19	1.5	0.054 U	0.054 U	0 U	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Chloromethane	0.3	920	1000	510	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.054 U	0.012 J	0 U	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.098	0.05 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Ethylbenzene	70	10000	10000	29	0.054 U	0.054 U	0 U	0.079	0.094	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 J	0.046 U	0.05 U
Methylene chloride	0.5	3500	4000	54	0.04 J	0.11 U	0 U	0.093 U	0.1 U	0.095 U	0.06 J	0.092 U	0.1 U	0.11 U	0.037 J	0.019 J	0.1 U
Tetrachloroethene	0.5	1500	3300	2.7	0.054 U	0.054 U	0.14	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.1	0.046 U	0.05 U
Toluene	100	10000	10000	46000	0.0082 J	0.054 U	0 U	0.019 J	0.05 U	0.047 U	0.0082 J	0.046 U	0.052 U	0.057 U	0.0096 J	0.046 U	0.05 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.054 U	0.054 U	0 U	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.054 U	0.054 U		0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.046 U	0.05 U
Trichloroethene	0.5	970	1100	14	0.054 U	0.054 U	0.032 J	0.047 U	0.05 U	0.047 U	0.051 U	0.046 U	0.052 U	0.057 U	0.052 U	0.083	0.019 J
Vinyl Chloride	0.2	53	220	1.7	0.11 U	0.11 U	0 U	0.093 U	0.1 U	0.095 U	0.1 U	0.092 U	0.1 U	0.11 U	0.1 U	0.091 U	0.1 U
Xylenes (Total)	1000	10000	10000	2600			0 U										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL TP-1a 4 - 4.5 11/26/1999	WPL TP-1b 6 - 6.5 11/26/1999	WPL TP-2 6 - 6.5 11/26/1999	WPL TP-3 4 - 4.5 11/26/1999	WPL TP-4a 4 - 4.5 11/26/1999	WPL TP-4b 5 - 5.5 11/26/1999	WPL TP-5 3 - 3.5 11/26/1999	WPL TP-6 5.5 - 6 11/26/1999	WPL TP-7a 4 - 4.5 11/26/1999	WPL TP-7b 4.5 - 5 11/26/1999	WPL-15-B-1 0 7/23/1991	WPL-15-B-3 6 7/23/1991
Cyanide																
Cyanide, Free	200	56000	190000	20000											0 U	0 U
Cyanide, Total	200	56000	190000	20000	1.04	0 U	0 U	1.39	0 U	0 U	0 U	0.553	3.66	2.46	0 U	0.68
Cyanide, Free																
Cyanide, Free	200	56000	190000	20000												
Cyanide, Total																
Cyanide, Total	200	56000	190000	20000												
Mercury																
Mercury	10	840	190000	24												
Metal																
Antimony	27	1100	190000	410	33	0 U	0 U	6.58	2.07	0 U	5.82	17.3	39.1	0 U	0.6	0 U
Arsenic	150	53	190000	1.6	7.95	6.06	17.7	13	2.7	4.93	15.3	20.1	36.8	7.14	6.9	6.1
Beryllium	320	5600	190000	2000	0.619	0.825	0.206	0.374	0 U	0.544	0.36	0.304	0.276	0.493	0 U	0 U
Cadmium	38	210	190000	800	7.52	0 U	7.78	15.7	1.27	0 U	3.7	26.2	4.99	0 U	29	11
Chromium				1400	77.6	13.7	377	535	27.3	21	103	3380	30200	25.3	450	8200
Copper	36000	100000	190000	41000	414	13.5	531	417	77.7	20.3	819	1880	0 U	40.6	170	120
Hexavalent Chromium	190	420	190000	200	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	778	0 U		
Lead	450	1000	190000	800	905	20.2	122	478	137	10.9	801	1180	2880	17	1000	700
Mercury	10	840	190000	24	0.8	0 U	6.9	2.29	0 U	0 U	0 U	0 U	2.51	0 U	1.2	0.65
Nickel	650	56000	190000	20000	38.8	8.58	205	230	33.2	12.3	152	347	2210	16.2	26	10
Selenium	26	14000	190000	5100	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Silver	84	14000	190000	5100	0 U	0 U	0 U	4.23	0 U	0 U	0 U	4.07	10	0 U	0 U	10
Thallium	14	200	190000	66	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Titanium																
Zinc	12000	190000	190000	310000	983	41.4	555	1090	662	45	1790	1710	3540	47.8	1300	37000
Polychlorinated Biphenols																
Arochlor-1016	200	200	10000	21											0 U	0 U
Arochlor-1221	2.5	160	10000	0.62											0 U	0 U
Arochlor-1232	2	160	10000	0.62											0 U	0 U
Arochlor-1242	62	160	10000	0.74											0 U	0 U
Arochlor-1248	67	44	10000	0.74											0 U	0 U
Arochlor-1254	280	44	10000	0.74											7.2	0 U
Arochlor-1260	1900	130	190000	0.74											0 U	0 U
PCBs (Total)				0.74											7.2	0 U
Pesticides and Herbicides																
4,4'-DDD	30	330	190000	7.2												
4,4'-DDE	170	230	190000	5.1												
4,4'-DDT	330	230	190000	7												
Aldrin	0.44	4.7	190000	0.1												
Alpha-BHC	0.19	13	190000	0.27												
Alpha-Endosulfan	260	17000	190000	3700												
Beta-BHC	0.82	44	190000	0.96												
Beta-Endosulfan	260	17000	190000													
Chlordane	49	230	190000													
Delta-BHC	30	1700	190000	0.27												
Dieldrin	0.44	5	10000	0.11												
Endosulfan Sulfate	70	17000	190000													
Endrin	5.5	840	190000	180												
Endrin Aldehyde																
Heptachlor	0.68	18	190000	0.38												
Heptachlor Epoxide	1.1	8.7	190000	0.19												

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL TP-1a 4 - 4.5 11/26/1999	WPL TP-1b 6 - 6.5 11/26/1999	WPL TP-2 6 - 6.5 11/26/1999	WPL TP-3 4 - 4.5 11/26/1999	WPL TP-4a 4 - 4.5 11/26/1999	WPL TP-4b 5 - 5.5 11/26/1999	WPL TP-5 3 - 3.5 11/26/1999	WPL TP-6 5.5 - 6 11/26/1999	WPL TP-7a 4 - 4.5 11/26/1999	WPL TP-7b 4.5 - 5 11/26/1999	WPL-15-B-1 0 7/23/1991	WPL-15-B-3 6 7/23/1991
Lindane (Gamma-BHC)	0.072	61	190000	2.1												
Toxaphene	1.2	72	190000	1.6												
Semi Volatile Organic Compound																
1,2,4-Trichlorobenzene	27	10000	10000	400	0.898	0 U	0.62	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
1,2-Dichlorobenzene	60	10000	10000	10000	1.42	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
1,3-Dichlorobenzene	61	10000	10000		0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
1,4-Dichlorobenzene	10	3300	190000	13	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
2,4-Dinitrotoluene	0.84	260	190000	5.5	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
2-Methylnaphthalene	8000	10000	10000	4100	3.97	0 U	2.3	0 U	4.64	1.12	1.2	0 U	0 U	0 U		
Acenaphthene	4700	170000	190000	33000	12.5	0 U	1.5	2.4	8.02	0.623	8.2	0 U	1.44	0 U		
Acenaphthylene	6900	170000	190000	33000	1.84	0 U	0 U	0 U	0 U	0 U	2.6	0 U	0 U	0 U		
Anthracene	350	190000	190000	170000	16.8	0 U	1.6	4.2	8.44	0 U	13	0.674	2.61	0 U		
Benzo (A) Anthracene	320	110	190000	2.1	19.5	0 U	3	5	28.5	0 U	54	2.99	6.87	0 U		
Benzo (a) Pyrene	46	11	190000	0.21	10.5	0 U	1.4	3.1	28.5	0 U	74	1.59	2.45	0 U		
Benzo (b) Fluoranthene	170	110	190000	2.1	14	0 U	2.9	4.2	39.1	0 U	95	3.07	5.26	0 U		
Benzo (g,h,i) Perylene	180	170000	190000		11	0 U	0.88	1.8	18.8	0 U	43	1.21	1.72	0 U		
Benzo (k) Fluoranthene	610	1100	190000	21	8.91	0 U	0.86	1.8	13.9	0 U	16	0.877	2.08	0 U		
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	9.11	0 U	6.7	8.4	1.23	1.48	0 U	7.04	2.94	0.61		
Carbazole	83	4000	190000		4.64	1.1	1.8	0 U	6.16	1.47	9.6	1.4	0 U	0 U		
Chrysene	230	11000	190000	210	15.8	0 U	3.8	5.4	29.5	0 U	54	3.25	7.64	0 U		
Dibenzo (a,h) Anthracene	160	11	190000	0.21	3.08	0 U	0.57	0 U	5.14	0 U	15	0 U	0 U	0 U		
Dibenzofuran					4.08	0 U	1.3	1.3	1.8	0 U	4.4	0 U	1.01	0 U		
Di-n-octylphthalate	10000	10000	10000		0 U	0 U	1.9	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Fluoranthene	3200	110000	190000	22000	60.9	0 U	8.3	15	49.6	2.33	110	6.45	12.5	0 U		
Fluorene	3800	110000	190000	22000	14.4	0 U	2.4	3.7	8.03	0.876	12	0.736	2.83	0 U		
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	13.1	0 U	1.2	2.3	22	0 U	43	1.41	2.33	0 U		
Naphthalene	25	56000	190000	20	6.6	0 U	2	0 U	2.46	0.729	2.1	0 U	0 U	0 U		
Phenanthrene	10000	190000	190000		66.2	0 U	6.6	13	35.5	3.97	61	4.95	10.4	0.84		
Pyrene	2200	84000	190000	17000	44.8	0 U	6.6	12	42.8	1.55	120	7.24	10.4	0 U		
Total Solids																
Percent Solids																
Petroleum Hydrocarbons																
Petroleum Hydrocarbons (TPH)																
Volatile Organic Compound																
1,1,1-Trichloroethane	20	10000	10000	39000	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400												
1,1-Dichloroethane	11	1000	1200	17	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
1,1-Dichloroethene	0.7	33	38	1100	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
1,2-Dichloroethane	0.5	63	73	2.2												
1,2-Dichloroethene	7	1900	2100	9200	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
1,2-Dichloropropane	0.5	160	180	4.7												
1,3-Dichloropropene	2.6	410	470	8.4												
2-Butanone	580	10000	10000	190000	0.0697	0.084	0.111	0 U	0 U	0.0416	0.0535	0.15	0 U	0 U		
2-Chloroethyl Vinyl Ether																
Acetone	1000	10000	10000	610000	0.238	0.31	0.463	0.0779	0.171	0.252	0.38	0.813	0.0958	0.2		
Acrolein	0.012	1.1	1.2	0.68												
Acrylonitrile	0.27	24	28	1.2												
Benzene	0.5	210	240	5.6	0 U	0 U	0 U	0 U	0 U	0 U	0.0728	0 U	0 U	0 U	0 U	0 U
Bromodichloromethane	10	45	51	1.4												

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL TP-1a 4 - 4.5 11/26/1999	WPL TP-1b 6 - 6.5 11/26/1999	WPL TP-2 6 - 6.5 11/26/1999	WPL TP-3 4 - 4.5 11/26/1999	WPL TP-4a 4 - 4.5 11/26/1999	WPL TP-4b 5 - 5.5 11/26/1999	WPL TP-5 3 - 3.5 11/26/1999	WPL TP-6 5.5 - 6 11/26/1999	WPL TP-7a 4 - 4.5 11/26/1999	WPL TP-7b 4.5 - 5 11/26/1999	WPL-15-B-1 0 7/23/1991	WPL-15-B-3 6 7/23/1991
Bromoform	10	1500	1700	220												
Bromomethane	1	270	300	35												
Carbon Tetrachloride	0.5	110	120	1.3												
Chlorobenzene	10	10000	10000	1500	0 U	0 U	0.0572	0 U	0 U	0 U	0 U	0.2	0 U	0 U	0 U	0 U
Chlorodibromomethane	10	61	70	3.4												
Chloroethane	90	10000	10000	62000												
Chloroform	10	17	19	1.5	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Chloromethane	0.3	920	1000	510												
cis-1,2-Dichloroethene	7	1900	2100	10000	0.144	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	
cis-1,3-Dichloropropene	2.6	410	470	8.4												
Ethylbenzene	70	10000	10000	29	0 U	0 U	0.227	0 U	0 U	0 U	0.0699	0 U	0 U	0 U	0.625	9.375
Methylene chloride	0.5	3500	4000	54	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Tetrachloroethene	0.5	1500	3300	2.7	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Toluene	100	10000	10000	46000	0 U	0 U	0 U	0 U	0 U	0 U	0.0397	0 U	0 U	0 U	8.125	131.25
trans-1,2-Dichloroethene	10	3700	4300	500											0 U	0 U
trans-1,3-Dichloropropene	2.6	410	470	8.4												
Trichloroethene	0.5	970	1100	14	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Vinyl Chloride	0.2	53	220	1.7	0.327	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Xylenes (Total)	1000	10000	10000	2600	0.109	0 U	0.999	0.0829	0.207	0.273	0.339	0.101	0 U	0.181		

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-15-B-4 3.5 7/23/1991	WPL-SB-1 0 9/9/1991	WPL-SB-2 0 9/10/1991	WPL-SB-3 0 9/10/1991	WPL-SB-4 0 9/10/1991	WPL-SB-5 0 9/12/1991	WPL-SG-29a 2 - 2.5 12/28/1999	WPL-SG-29b 18 - 18.5 12/28/1999	WPL-SG-32a 10 - 10.5 12/28/1999	WPL-SG-32b 20.5 - 21 12/28/1999	WPL-SG-33a 2 - 2.5 12/29/1999
Cyanide															
Cyanide, Free	200	56000	190000	20000	0 U										
Cyanide, Total	200	56000	190000	20000	0.048						0 U	0 U	0 U	0 U	0 U
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000			U	U	U	U					
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000		U	0.024	U	0.028	0.8					
Mercury															
Mercury	10	840	190000	24											
Metal															
Antimony	27	1100	190000	410	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	122
Arsenic	150	53	190000	1.6	4.6		5.7	2.9	5	4.6	5.35	2.06	5.45	2.09	221
Beryllium	320	5600	190000	2000	0 U	U	1.3	U	U	U	0.421	0.191	0.398	0.315	225
Cadmium	38	210	190000	800	3		U	U	U	U	0 U	0.179	0.214	0.232	224
Chromium				1400	82		17	9	10	7	16.3	3.32	16.4	6.05	249
Copper	36000	100000	190000	41000	58		16	6	6	9	17.3	9.04	11.4	9.28	258
Hexavalent Chromium	190	420	190000	200							0 U	0 U	0 U	0 U	0 U
Lead	450	1000	190000	800	57		31	17	27	19	9.27	4.56	14.1	6.69	233
Mercury	10	840	190000	24	0.13		0.42	0.39	0.65	0.27	0 U	0 U	0 U	0 U	0 U
Nickel	650	56000	190000	20000	26	U	14	U	5	13	11.1	4.23	9.85	6.06	240
Selenium	26	14000	190000	5100	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	194
Silver	84	14000	190000	5100	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	225
Thallium	14	200	190000	66	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	212
Titanium															
Zinc	12000	190000	190000	310000	180		33	8	27	16	16	17	27.8	18.8	268
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0 U	U	U	U	U	U					
Arochlor-1221	2.5	160	10000	0.62	0 U	U	U	U	U	U					
Arochlor-1232	2	160	10000	0.62	0 U	U	U	U	U	U					
Arochlor-1242	62	160	10000	0.74	0 U	U	U	U	U	U					
Arochlor-1248	67	44	10000	0.74	0 U	U	U	U	U	U					
Arochlor-1254	280	44	10000	0.74	0 U	U	U	U	U	U					
Arochlor-1260	1900	130	190000	0.74	0 U	U	U	U	U	U					
PCBs (Total)				0.74	0 U										
Pesticides and Herbicides															
4,4'-DDD	30	330	190000	7.2		U	U	U	U	U					
4,4'-DDE	170	230	190000	5.1		U	U	U	U	U					
4,4'-DDT	330	230	190000	7		U	U	U	U	U					
Aldrin	0.44	4.7	190000	0.1		U	U	U	U	U					
Alpha-BHC	0.19	13	190000	0.27		U	U	U	U	U					
Alpha-Endosulfan	260	17000	190000	3700		U	U	U	U	U					
Beta-BHC	0.82	44	190000	0.96		U	U	U	U	U					
Beta-Endosulfan	260	17000	190000			U	U	U	U	U					
Chlordane	49	230	190000			U	U	U	U	U					
Delta-BHC	30	1700	190000	0.27		U	U	U	U	U					
Dieldrin	0.44	5	10000	0.11		U	U	U	U	U					
Endosulfan Sulfate	70	17000	190000			U	U	U	U	U					
Endrin	5.5	840	190000	180		U	U	U	U	U					
Endrin Aldehyde						U	U	U	U	U					
Heptachlor	0.68	18	190000	0.38		U	U	U	U	U					
Heptachlor Epoxide	1.1	8.7	190000	0.19		U	U	U	U	U					

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-15-B-4 3.5 7/23/1991	WPL-SB-1 0 9/9/1991	WPL-SB-2 0 9/10/1991	WPL-SB-3 0 9/10/1991	WPL-SB-4 0 9/10/1991	WPL-SB-5 0 9/12/1991	WPL-SG-29a 2 - 2.5 12/28/1999	WPL-SG-29b 18 - 18.5 12/28/1999	WPL-SG-32a 10 - 10.5 12/28/1999	WPL-SG-32b 20.5 - 21 12/28/1999	WPL-SG-33a 2 - 2.5 12/29/1999
Lindane (Gamma-BHC)	0.072	61	190000	2.1		U	U	U	U	U					
Toxaphene	1.2	72	190000	1.6		U	U	U	U	U					
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400							0 U	0 U	0 U	0 U	0 U
1,2-Dichlorobenzene	60	10000	10000	10000							0 U	0 U	0 U	0 U	0 U
1,3-Dichlorobenzene	61	10000	10000								0 U	0 U	0 U	0 U	0 U
1,4-Dichlorobenzene	10	3300	190000	13							0 U	0 U	0 U	0 U	0 U
2,4-Dinitrotoluene	0.84	260	190000	5.5							0 U	0 U	0 U	0 U	0 U
2-Methylnaphthalene	8000	10000	10000	4100							0 U	0 U	0 U	0 U	0 U
Acenaphthene	4700	170000	190000	33000							0 U	0 U	0 U	0 U	0 U
Acenaphthylene	6900	170000	190000	33000							0 U	0 U	0 U	0 U	0 U
Anthracene	350	190000	190000	170000							0 U	0 U	0 U	0 U	0 U
Benzo (A) Anthracene	320	110	190000	2.1							0 U	0 U	0 U	0 U	0 U
Benzo (a) Pyrene	46	11	190000	0.21							0 U	0 U	0 U	0 U	0 U
Benzo (b) Fluoranthene	170	110	190000	2.1							0 U	0 U	0 U	0 U	0 U
Benzo (g,h,i) Perylene	180	170000	190000								0 U	0 U	0 U	0 U	0 U
Benzo (k) Fluoranthene	610	1100	190000	21							0 U	0 U	0 U	0 U	0 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120							0 U	0 U	0 U	0 U	0 U
Carbazole	83	4000	190000								0 U	0 U	0 U	0 U	0 U
Chrysene	230	11000	190000	210							0 U	0 U	0 U	0 U	0 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21							0 U	0 U	0 U	0 U	0 U
Dibenzofuran											0 U	0 U	0 U	0 U	0 U
Di-n-octylphthalate	10000	10000	10000								0 U	0 U	0 U	0 U	0 U
Fluoranthene	3200	110000	190000	22000							0 U	0 U	0 U	0 U	0 U
Fluorene	3800	110000	190000	22000							0 U	0 U	0 U	0 U	0 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1							0 U	0 U	0 U	0 U	0 U
Naphthalene	25	56000	190000	20							0 U	0 U	0 U	0 U	0 U
Phenanthrene	10000	190000	190000								0 U	0 U	0 U	0 U	0 U
Pyrene	2200	84000	190000	17000							0 U	0 U	0 U	0 U	0 U
Total Solids															
Percent Solids															
Petroleum Hydrocarbons															
Petroleum Hydrocarbons (TPH)															
Volatile Organic Compound															
1,1,1-Trichloroethane	20	10000	10000	39000	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400											
1,1-Dichloroethane	11	1000	1200	17	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
1,1-Dichloroethene	0.7	33	38	1100	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
1,2-Dichloroethane	0.5	63	73	2.2		U	U	U	U	U					
1,2-Dichloroethene	7	1900	2100	9200							0.00654	0.0179	0 U	0 U	0 U
1,2-Dichloropropane	0.5	160	180	4.7		U	U	U	U	U					
1,3-Dichloropropene	2.6	410	470	8.4		U	U	U	U	U					
2-Butanone	580	10000	10000	190000							0 U	0 U	0 U	0 U	0.0186
2-Chloroethyl Vinyl Ether						U	U	U	U	U					
Acetone	1000	10000	10000	610000							0.0162	0.0129	0.0156	0.0165	0.0921
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2		U	U	U	U	U					
Benzene	0.5	210	240	5.6	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
Bromodichloromethane	10	45	51	1.4		U	U	U	U	U					

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-15-B-4 3.5 7/23/1991	WPL-SB-1 0 9/9/1991	WPL-SB-2 0 9/10/1991	WPL-SB-3 0 9/10/1991	WPL-SB-4 0 9/10/1991	WPL-SB-5 0 9/12/1991	WPL-SG-29a 2 - 2.5 12/28/1999	WPL-SG-29b 18 - 18.5 12/28/1999	WPL-SG-32a 10 - 10.5 12/28/1999	WPL-SG-32b 20.5 - 21 12/28/1999	WPL-SG-33a 2 - 2.5 12/29/1999
Bromoform	10	1500	1700	220		U	U	U	U	U					
Bromomethane	1	270	300	35		U	U	U	U	U					
Carbon Tetrachloride	0.5	110	120	1.3		U	U	U	U	U					
Chlorobenzene	10	10000	10000	1500	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
Chlorodibromomethane	10	61	70	3.4		U	U	U	U	U					
Chloroethane	90	10000	10000	62000		U	U	U	U	U					
Chloroform	10	17	19	1.5		U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
Chloromethane	0.3	920	1000	510		U	U	U	U	U					
cis-1,2-Dichloroethene	7	1900	2100	10000							0 U	0 U	0 U	0 U	0 U
cis-1,3-Dichloropropene	2.6	410	470	8.4											
Ethylbenzene	70	10000	10000	29	0 U	U	U	0.013	U	0.45	0 U	0 U	0 U	0 U	0 U
Methylene chloride	0.5	3500	4000	54	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
Tetrachloroethene	0.5	1500	3300	2.7	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
Toluene	100	10000	10000	46000	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
trans-1,2-Dichloroethene	10	3700	4300	500	0 U	U	U	U	U	U					
trans-1,3-Dichloropropene	2.6	410	470	8.4											
Trichloroethene	0.5	970	1100	14	0 U	U	0.005	U	U	U	0 U	0 U	0 U	0 U	0 U
Vinyl Chloride	0.2	53	220	1.7	0 U	U	U	U	U	U	0 U	0 U	0 U	0 U	0 U
Xylenes (Total)	1000	10000	10000	2600							0 U	0 U	0 U	0 U	0 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SG-33b 8 - 8.5 12/29/1999	WPL-SG-47a 8 - 8.5 12/28/1999	WPL-SG-47b 12 - 12.5 12/28/1999	WPL-SG-64a 9 - 9.5 11/29/1999	WPL-SG-64b 16 - 16.5 11/29/1999	WPLSS-1 4 - 6 6/20/1991	WPLSS-2 0 - 0.5 6/21/1991	WPLSS-2 Dup 0 - 0.5 6/21/1991	WPLSS-2 2 - 4 6/21/1991	WPLSS-3 6 - 8 6/21/1991	WPLSS-5 2 - 4 6/21/1991
Cyanide															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total	200	56000	190000	20000	0 U	2.2	0 U	0.51							
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000						U			0.028	U	U
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000						U	0.048	U	0.14	0.072	0.056
Mercury															
Mercury	10	840	190000	24											
Metal															
Antimony	27	1100	190000	410	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
Arsenic	150	53	190000	1.6	4.89	6.89	4.95	6.79	2.82	U	2.7	3.6	4.5	4.1	U
Beryllium	320	5600	190000	2000	0.537	0.426	0.338	0.44	0.357	U	U	0.6	U	0.5	0.6
Cadmium	38	210	190000	800	0 U	2.86	0.388	0 U	0.834	U	2	U	8	3	U
Chromium				1400	16.6	1230	20.9	299	141	17	16	21	140	42	15
Copper	36000	100000	190000	41000	11.2	354	20.8	40.8	18.5	10	9	14	990	78	610
Hexavalent Chromium	190	420	190000	200	0 U	0 U	0 U	0 U							
Lead	450	1000	190000	800	11.1	113	21.2	46.9	9.11	U	18	20	320	170	35
Mercury	10	840	190000	24	0 U	0 U	0 U	0 U	0 U	U	U	U	0.4	U	U
Nickel	650	56000	190000	20000	7.16	63.8	15.8	28.3	7.83	14	8	11	41	17	12
Selenium	26	14000	190000	5100	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
Silver	84	14000	190000	5100	0 U	3.52	0 U	0 U	0 U	3	U	U	U	U	U
Thallium	14	200	190000	66	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
Titanium															
Zinc	12000	190000	190000	310000	23.4	604	39.8	40.3	70	36	53	64	1400	380	88
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21							U	U	U		U
Arochlor-1221	2.5	160	10000	0.62							U	U	U		U
Arochlor-1232	2	160	10000	0.62							U	U	U		U
Arochlor-1242	62	160	10000	0.74							U	U	U		U
Arochlor-1248	67	44	10000	0.74							U	U	U		U
Arochlor-1254	280	44	10000	0.74							U	U	12		14
Arochlor-1260	1900	130	190000	0.74							U	U	U		U
PCBs (Total)				0.74											
Pesticides and Herbicides															
4,4'-DDD	30	330	190000	7.2							U	U			
4,4'-DDE	170	230	190000	5.1							U	U			
4,4'-DDT	330	230	190000	7							U	U			
Aldrin	0.44	4.7	190000	0.1							U	U			
Alpha-BHC	0.19	13	190000	0.27							U	U			
Alpha-Endosulfan	260	17000	190000	3700							U	U			
Beta-BHC	0.82	44	190000	0.96							U	U			
Beta-Endosulfan	260	17000	190000								U	U			
Chlordane	49	230	190000								U	U			
Delta-BHC	30	1700	190000	0.27							U	U			
Dieldrin	0.44	5	10000	0.11							U	U			
Endosulfan Sulfate	70	17000	190000								U	U			
Endrin	5.5	840	190000	180							U	U			
Endrin Aldehyde											U	U			
Heptachlor	0.68	18	190000	0.38							U	U			
Heptachlor Epoxide	1.1	8.7	190000	0.19							U	U			

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SG-33b 8 - 8.5 12/29/1999	WPL-SG-47a 8 - 8.5 12/28/1999	WPL-SG-47b 12 - 12.5 12/28/1999	WPL-SG-64a 9 - 9.5 11/29/1999	WPL-SG-64b 16 - 16.5 11/29/1999	WPLSS-1 4 - 6 6/20/1991	WPLSS-2 0 - 0.5 6/21/1991	WPLSS-2 Dup 0 - 0.5 6/21/1991	WPLSS-2 2 - 4 6/21/1991	WPLSS-3 6 - 8 6/21/1991	WPLSS-5 2 - 4 6/21/1991
Lindane (Gamma-BHC)	0.072	61	190000	2.1							U	U			
Toxaphene	1.2	72	190000	1.6							U	U			
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0 U	0.707	0 U	0 U	0 U						
1,2-Dichlorobenzene	60	10000	10000	10000	0 U	0.475	0 U	0 U	0 U						
1,3-Dichlorobenzene	61	10000	10000		0 U	1.93	0 U	0 U	0 U						
1,4-Dichlorobenzene	10	3300	190000	13	0 U	8.82	0 U	0 U	0 U						
2,4-Dinitrotoluene	0.84	260	190000	5.5	0 U	0.502	0 U	0 U	0 U						
2-Methylnaphthalene	8000	10000	10000	4100	1.32	0.409	0 U	0 U	0 U						
Acenaphthene	4700	170000	190000	33000	0 U	0 U	0 U	0 U	0 U						
Acenaphthylene	6900	170000	190000	33000	0 U	0 U	0 U	0 U	0 U						
Anthracene	350	190000	190000	170000	0 U	0 U	0 U	0 U	0 U						
Benzo (A) Anthracene	320	110	190000	2.1	0 U	0 U	0 U	0 U	0 U						
Benzo (a) Pyrene	46	11	190000	0.21	0 U	0 U	0 U	0 U	0 U						
Benzo (b) Fluoranthene	170	110	190000	2.1	0 U	0 U	0 U	0 U	0 U						
Benzo (g,h,i) Perylene	180	170000	190000		0 U	0 U	0 U	0 U	0 U						
Benzo (k) Fluoranthene	610	1100	190000	21	0 U	0 U	0 U	0 U	0 U						
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	1.91	8.29	0 U	0.55	0 U						
Carbazole	83	4000	190000		0 U	0 U	0 U	0.788	0 U						
Chrysene	230	11000	190000	210	0 U	0 U	0 U	0 U	0 U						
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0 U	0 U	0 U	0 U	0 U						
Dibenzofuran					0 U	0 U	0 U	0 U	0 U						
Di-n-octylphthalate	10000	10000	10000		0 U	6.86	0 U	0 U	0 U						
Fluoranthene	3200	110000	190000	22000	0 U	0.719	0 U	0.778	0 U						
Fluorene	3800	110000	190000	22000	0 U	0 U	0 U	0 U	0 U						
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0 U	0 U	0 U	0 U	0 U						
Naphthalene	25	56000	190000	20	1.23	0.792	0 U	0 U	0 U						
Phenanthrene	10000	190000	190000		0 U	0.513	0 U	0.563	0 U						
Pyrene	2200	84000	190000	17000	0 U	0.736	0 U	0.565	0 U						
Total Solids															
Percent Solids															
Petroleum Hydrocarbons															
Petroleum Hydrocarbons (TPH)															
Volatile Organic Compound															
1,1,1-Trichloroethane	20	10000	10000	39000	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
1,1,2-Trichloroethane	0.5	100	120	5.5	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400											
1,1-Dichloroethane	11	1000	1200	17	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
1,1-Dichloroethene	0.7	33	38	1100	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
1,2-Dichloroethane	0.5	63	73	2.2						U	U	U	U	U	U
1,2-Dichloroethene	7	1900	2100	9200	0 U	0 U	0 U	0 U	0 U						
1,2-Dichloropropane	0.5	160	180	4.7						U	U	U	U	U	U
1,3-Dichloropropene	2.6	410	470	8.4						U	U	U	U	U	U
2-Butanone	580	10000	10000	190000	0 U	0 U	0 U	0.0127	0 U						
2-Chloroethyl Vinyl Ether										U	U	U	U	U	U
Acetone	1000	10000	10000	610000	0 U	0.0839	0.0935	0.0518	0.0117						
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2						U	U	U	U	U	U
Benzene	0.5	210	240	5.6	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
Bromodichloromethane	10	45	51	1.4						U	U	U	U	U	U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SG-33b 8 - 8.5 12/29/1999	WPL-SG-47a 8 - 8.5 12/28/1999	WPL-SG-47b 12 - 12.5 12/28/1999	WPL-SG-64a 9 - 9.5 11/29/1999	WPL-SG-64b 16 - 16.5 11/29/1999	WPLSS-1 4 - 6 6/20/1991	WPLSS-2 0 - 0.5 6/21/1991	WPLSS-2 Dup 0 - 0.5 6/21/1991	WPLSS-2 2 - 4 6/21/1991	WPLSS-3 6 - 8 6/21/1991	WPLSS-5 2 - 4 6/21/1991
Bromoform	10	1500	1700	220						U	U	U	U	U	U
Bromomethane	1	270	300	35						U	U	U	U	U	U
Carbon Tetrachloride	0.5	110	120	1.3						U	U	U	U	U	U
Chlorobenzene	10	10000	10000	1500	0 U	3630	3140	0 U	0 U	U	U	U	U	U	U
Chlorodibromomethane	10	61	70	3.4						U	U	U	U	U	U
Chloroethane	90	10000	10000	62000						U	U	U	U	U	U
Chloroform	10	17	19	1.5	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
Chloromethane	0.3	920	1000	510						U	U	U	U	U	U
cis-1,2-Dichloroethene	7	1900	2100	10000	0 U	0 U	0 U	0 U	0 U						
cis-1,3-Dichloropropene	2.6	410	470	8.4											
Ethylbenzene	70	10000	10000	29	3.85	0.228	0.0671	0 U	0 U	U	U	U	U	U	U
Methylene chloride	0.5	3500	4000	54	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
Tetrachloroethene	0.5	1500	3300	2.7	0 U	0 U	0 U	0 U	0 U	U	0.012	0.055	0.32	U	U
Toluene	100	10000	10000	46000	0.381	0 U	0 U	0 U	0 U	U	U	U	U	U	U
trans-1,2-Dichloroethene	10	3700	4300	500						U	U	U	U	U	U
trans-1,3-Dichloropropene	2.6	410	470	8.4											
Trichloroethene	0.5	970	1100	14	0 U	0 U	0 U	0 U	0 U	U	U	U	0.03	U	U
Vinyl Chloride	0.2	53	220	1.7	0 U	0 U	0 U	0 U	0 U	U	U	U	U	U	U
Xylenes (Total)	1000	10000	10000	2600	0 U	0 U	0 U	0 U	0 U						

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLSS-6 2 - 4 6/21/1991	WPLSS-7 6 - 8 6/17/1991	WPLSS-8 4 - 6 6/20/1991	WPLSS-9 2 - 4 6/20/1991	WPLSS-10 2 - 4 6/19/1991	*WPLSS-11 0 - 2 6/19/1991	WPLSS-12 6 - 8 6/19/1991	WPLSS-13 0 - 0.5 6/19/1991	WPLSS-13 6 - 8 6/19/1991	WPLSS-14 6 - 8 6/19/1991	WPLSS-15 6 - 7 6/19/1991	WPLSS-16 Dup 0 6/20/1991
Cyanide																
Cyanide, Free	200	56000	190000	20000												
Cyanide, Total	200	56000	190000	20000												
Cyanide, Free																
Cyanide, Free	200	56000	190000	20000	U	U	U	U	U	U	U		U	U	U	U
Cyanide, Total																
Cyanide, Total	200	56000	190000	20000	U	U	U	U	0.036	0.2	0.88		U	U	0.4	U
Mercury																
Mercury	10	840	190000	24												
Metal																
Antimony	27	1100	190000	410	U	U	U	U	U	32	U		U	U	U	U
Arsenic	150	53	190000	1.6	U	9.9	U	U	U	42	4.8		U	U	7	U
Beryllium	320	5600	190000	2000	0.6	0.6	0.7		0.5	2	U		0.6	U	U	U
Cadmium	38	210	190000	800	1	U	U	U	U	5	1		1	1	14	U
Chromium				1400	110	23	25	45	20	2700	21		26	19	1100	33
Copper	36000	100000	190000	41000	37	14	16	25	9	1800	12		22	14	340	25
Hexavalent Chromium	190	420	190000	200												
Lead	450	1000	190000	800	120	23	23	62	24	100	19		30	20	480	37
Mercury	10	840	190000	24	U	U	U	U	U	0.33	U		U	U	U	U
Nickel	650	56000	190000	20000	13	12	16	27	10	900	10		12	12	110	24
Selenium	26	14000	190000	5100	U	U	U	U	U	U	U		U	U	U	U
Silver	84	14000	190000	5100	U	U	U	U	U	U	U		U	U	U	U
Thallium	14	200	190000	66	24	U	U	63	U	U	U		U	U	U	U
Titanium																
Zinc	12000	190000	190000	310000	650	41	50	76	29	1500	35		51	40	1500	66
Polychlorinated Biphenols																
Arochlor-1016	200	200	10000	21	U	U		U			U				U	
Arochlor-1221	2.5	160	10000	0.62	U	U		U			U				U	
Arochlor-1232	2	160	10000	0.62	U	U		U			U				U	
Arochlor-1242	62	160	10000	0.74	U	U		U			U				U	
Arochlor-1248	67	44	10000	0.74	U	U		U			U				U	
Arochlor-1254	280	44	10000	0.74	U	U		2.2			U				U	
Arochlor-1260	1900	130	190000	0.74	U	U		U			5.3				U	
PCBs (Total)				0.74												
Pesticides and Herbicides																
4,4'-DDD	30	330	190000	7.2							U				U	
4,4'-DDE	170	230	190000	5.1							U				U	
4,4'-DDT	330	230	190000	7							U				U	
Aldrin	0.44	4.7	190000	0.1							U				U	
Alpha-BHC	0.19	13	190000	0.27							U				U	
Alpha-Endosulfan	260	17000	190000	3700							U				U	
Beta-BHC	0.82	44	190000	0.96							U				U	
Beta-Endosulfan	260	17000	190000								U				U	
Chlordane	49	230	190000								U				U	
Delta-BHC	30	1700	190000	0.27							U				U	
Dieldrin	0.44	5	10000	0.11							U				U	
Endosulfan Sulfate	70	17000	190000								U				U	
Endrin	5.5	840	190000	180							U				U	
Endrin Aldehyde											U				U	
Heptachlor	0.68	18	190000	0.38							U				U	
Heptachlor Epoxide	1.1	8.7	190000	0.19							U				U	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLSS-6 2 - 4 6/21/1991	WPLSS-7 6 - 8 6/17/1991	WPLSS-8 4 - 6 6/20/1991	WPLSS-9 2 - 4 6/20/1991	WPLSS-10 2 - 4 6/19/1991	*WPLSS-11 0 - 2 6/19/1991	WPLSS-12 6 - 8 6/19/1991	WPLSS-13 0 - 0.5 6/19/1991	WPLSS-13 6 - 8 6/19/1991	WPLSS-14 6 - 8 6/19/1991	WPLSS-15 6 - 7 6/19/1991	WPLSS-16 Dup 0 6/20/1991
Lindane (Gamma-BHC)	0.072	61	190000	2.1							U				U	
Toxaphene	1.2	72	190000	1.6							U				U	
Semi Volatile Organic Compound																
1,2,4-Trichlorobenzene	27	10000	10000	400												
1,2-Dichlorobenzene	60	10000	10000	10000												
1,3-Dichlorobenzene	61	10000	10000													
1,4-Dichlorobenzene	10	3300	190000	13							1.5					
2,4-Dinitrotoluene	0.84	260	190000	5.5												
2-Methylnaphthalene	8000	10000	10000	4100												
Acenaphthene	4700	170000	190000	33000												
Acenaphthylene	6900	170000	190000	33000												
Anthracene	350	190000	190000	170000												
Benzo (A) Anthracene	320	110	190000	2.1												
Benzo (a) Pyrene	46	11	190000	0.21												
Benzo (b) Fluoranthene	170	110	190000	2.1												
Benzo (g,h,i) Perylene	180	170000	190000													
Benzo (k) Fluoranthene	610	1100	190000	21												
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120												
Carbazole	83	4000	190000													
Chrysene	230	11000	190000	210												
Dibenzo (a,h) Anthracene	160	11	190000	0.21												
Dibenzofuran																
Di-n-octylphthalate	10000	10000	10000													
Fluoranthene	3200	110000	190000	22000												
Fluorene	3800	110000	190000	22000												
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1												
Naphthalene	25	56000	190000	20												
Phenanthrene	10000	190000	190000													
Pyrene	2200	84000	190000	17000												
Total Solids																
Percent Solids																
Petroleum Hydrocarbons																
Petroleum Hydrocarbons (TPH)																
Volatile Organic Compound																
1,1,1-Trichloroethane	20	10000	10000	39000	U	U	U	U	U	U	U	0 U	U	U	U	U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	U	U	U	U	U	U	U	0 U	U	U	U	U
1,1,2-Trichloroethane	0.5	100	120	5.5	U	U	U	U	U	U	U	0 U	U	U	U	U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400												
1,1-Dichloroethane	11	1000	1200	17	U	U	U	U	U	U	U	0 U	U	U	U	U
1,1-Dichloroethene	0.7	33	38	1100	U	U	U	U	U	U	U	0 U	U	U	U	U
1,2-Dichloroethane	0.5	63	73	2.2	U	U	U	U	U	U	U		U	U	U	U
1,2-Dichloroethene	7	1900	2100	9200												
1,2-Dichloropropane	0.5	160	180	4.7	U	U	U	U	U	U	U		U	U	U	U
1,3-Dichloropropene	2.6	410	470	8.4	U	U	U	U	U	U	U		U	U	U	U
2-Butanone	580	10000	10000	190000												
2-Chloroethyl Vinyl Ether					U	U	U	U	U	U	U		U	U	U	U
Acetone	1000	10000	10000	610000												
Acrolein	0.012	1.1	1.2	0.68												
Acrylonitrile	0.27	24	28	1.2	U	U	U	U	U	U	U		U	U	U	U
Benzene	0.5	210	240	5.6	U	U	U	U	U	U	U	0 U	U	U	U	U
Bromodichloromethane	10	45	51	1.4	U	U	U	U	U	U	U		U	U	U	U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLSS-6 2 - 4 6/21/1991	WPLSS-7 6 - 8 6/17/1991	WPLSS-8 4 - 6 6/20/1991	WPLSS-9 2 - 4 6/20/1991	WPLSS-10 2 - 4 6/19/1991	*WPLSS-11 0 - 2 6/19/1991	WPLSS-12 6 - 8 6/19/1991	WPLSS-13 0 - 0.5 6/19/1991	WPLSS-13 6 - 8 6/19/1991	WPLSS-14 6 - 8 6/19/1991	WPLSS-15 6 - 7 6/19/1991	WPLSS-16 Dup 0 6/20/1991
Bromoform	10	1500	1700	220	U	U	U	U	U	U	U		U	U	U	U
Bromomethane	1	270	300	35	U	U	U	U	U	U	U		U	U	U	U
Carbon Tetrachloride	0.5	110	120	1.3	U	U	U	U	U	U	U		U	U	U	U
Chlorobenzene	10	10000	10000	1500	U	U	U	U	U	U	U	0 U	U	U	U	U
Chlorodibromomethane	10	61	70	3.4	U	U	U	U	U	U	U		U	U	U	U
Chloroethane	90	10000	10000	62000	U	U	U	U	U	U	U		U	U	U	U
Chloroform	10	17	19	1.5	U	U	U	U	U	U	U	0 U	U	U	U	U
Chloromethane	0.3	920	1000	510	U	U	U	U	U	U	U		U	U	U	U
cis-1,2-Dichloroethene	7	1900	2100	10000												
cis-1,3-Dichloropropene	2.6	410	470	8.4												
Ethylbenzene	70	10000	10000	29	U	U	U	U	U	0.14	U	0 U	U	U	0.325	U
Methylene chloride	0.5	3500	4000	54	U	U	U	U	U	U	U	0 U	U	U	U	U
Tetrachloroethene	0.5	1500	3300	2.7	U	U	U	U	U	U	U	0 U	U	U	U	U
Toluene	100	10000	10000	46000	U	U	U	U	U	0.02	U	0 U	U	U	0.05	U
trans-1,2-Dichloroethene	10	3700	4300	500	U	U	U	U	U	U	U	0 U	U	U	U	U
trans-1,3-Dichloropropene	2.6	410	470	8.4												
Trichloroethene	0.5	970	1100	14	U	U	U	U	0.014	U	3.2	0 U	U	U	U	U
Vinyl Chloride	0.2	53	220	1.7	U	U	U	U	U	U	U	0.02	U	U	U	U
Xylenes (Total)	1000	10000	10000	2600						1					6	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLSS-16 6 - 8 6/20/1991	WPLSS-17 0 - 2 6/19/1991	WPLSS-18 4 - 6 6/17/1991	WPLSS-19 6 - 8 6/17/1991	WPLSS-20 10 - 12 6/17/1991	WPLTP-2 Gray to Amber Grease 7/22/1991	WPLTP-2 Black Ooze 7/22/1991	WPLTP-2 White Powder 7/22/1991	WPLTP-2 Gray-Black Ooze 7/22/1991
Cyanide													
Cyanide, Free	200	56000	190000	20000									
Cyanide, Total	200	56000	190000	20000									
Cyanide, Free													
Cyanide, Free	200	56000	190000	20000	U	U	U	U	U				
Cyanide, Total													
Cyanide, Total	200	56000	190000	20000	U	U	0.056	U	U			0.3	1
Mercury													
Mercury	10	840	190000	24									
Metal													
Antimony	27	1100	190000	410	U	U	U	U	U	U	U	U	U
Arsenic	150	53	190000	1.6	U	U	6.4	U	2.6	U	2.5	8	3.3
Beryllium	320	5600	190000	2000	0.5	0.7	0.7	0.6	U	U	U	2.1	U
Cadmium	38	210	190000	800	2	3	U	U	U	U	3	13	7
Chromium				1400	21	83	21	24	8	4	83	210	87
Copper	36000	100000	190000	41000	9	160	17	19	6	77	56	3900	220
Hexavalent Chromium	190	420	190000	200									
Lead	450	1000	190000	800	21	160	28	24	U	33	79	670	370
Mercury	10	840	190000	24	U	U	0.13	U	U	U	0.25	0.38	0.58
Nickel	650	56000	190000	20000	9	38	16	16	7	U	59	48	57
Selenium	26	14000	190000	5100	U	U	U	U	U	U	U	U	U
Silver	84	14000	190000	5100	U	62	U	U	U	U	U	U	U
Thallium	14	200	190000	66	U	U	U	U	U	U	U	U	U
Titanium													
Zinc	12000	190000	190000	310000	24	190	59	50	25	130	300	8500	910
Polychlorinated Biphenols													
Arochlor-1016	200	200	10000	21				U		U	U	U	U
Arochlor-1221	2.5	160	10000	0.62				U		U	U	U	U
Arochlor-1232	2	160	10000	0.62				U		U	U	U	U
Arochlor-1242	62	160	10000	0.74				U		U	U	U	U
Arochlor-1248	67	44	10000	0.74				U		U	U	U	U
Arochlor-1254	280	44	10000	0.74				U		7.2	2.2	36	U
Arochlor-1260	1900	130	190000	0.74				U		U	U	U	U
PCBs (Total)				0.74									
Pesticides and Herbicides													
4,4'-DDD	30	330	190000	7.2									
4,4'-DDE	170	230	190000	5.1									
4,4'-DDT	330	230	190000	7									
Aldrin	0.44	4.7	190000	0.1									
Alpha-BHC	0.19	13	190000	0.27									
Alpha-Endosulfan	260	17000	190000	3700									
Beta-BHC	0.82	44	190000	0.96									
Beta-Endosulfan	260	17000	190000										
Chlordane	49	230	190000										
Delta-BHC	30	1700	190000	0.27									
Dieldrin	0.44	5	10000	0.11									
Endosulfan Sulfate	70	17000	190000										
Endrin	5.5	840	190000	180									
Endrin Aldehyde													
Heptachlor	0.68	18	190000	0.38									
Heptachlor Epoxide	1.1	8.7	190000	0.19									

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLSS-16 6 - 8 6/20/1991	WPLSS-17 0 - 2 6/19/1991	WPLSS-18 4 - 6 6/17/1991	WPLSS-19 6 - 8 6/17/1991	WPLSS-20 10 - 12 6/17/1991	WPLTP-2 Gray to Amber Grease 7/22/1991	WPLTP-2 Black Ooze 7/22/1991	WPLTP-2 White Powder 7/22/1991	WPLTP-2 Gray-Black Ooze 7/22/1991
Lindane (Gamma-BHC)	0.072	61	190000	2.1									
Toxaphene	1.2	72	190000	1.6									
Semi Volatile Organic Compound													
1,2,4-Trichlorobenzene	27	10000	10000	400									
1,2-Dichlorobenzene	60	10000	10000	10000									
1,3-Dichlorobenzene	61	10000	10000										
1,4-Dichlorobenzene	10	3300	190000	13									
2,4-Dinitrotoluene	0.84	260	190000	5.5									
2-Methylnaphthalene	8000	10000	10000	4100									
Acenaphthene	4700	170000	190000	33000									
Acenaphthylene	6900	170000	190000	33000									
Anthracene	350	190000	190000	170000									
Benzo (A) Anthracene	320	110	190000	2.1									
Benzo (a) Pyrene	46	11	190000	0.21									
Benzo (b) Fluoranthene	170	110	190000	2.1									
Benzo (g,h,i) Perylene	180	170000	190000										
Benzo (k) Fluoranthene	610	1100	190000	21									
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120									
Carbazole	83	4000	190000										
Chrysene	230	11000	190000	210									
Dibenzo (a,h) Anthracene	160	11	190000	0.21									
Dibenzofuran													
Di-n-octylphthalate	10000	10000	10000										
Fluoranthene	3200	110000	190000	22000									
Fluorene	3800	110000	190000	22000									
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1									
Naphthalene	25	56000	190000	20									
Phenanthrene	10000	190000	190000										
Pyrene	2200	84000	190000	17000									
Total Solids													
Percent Solids													
Petroleum Hydrocarbons													
Petroleum Hydrocarbons (TPH)										1900000	360000	970	160000
Volatile Organic Compound													
1,1,1-Trichloroethane	20	10000	10000	39000	U	U	0.011	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	0.5	100	120	5.5	U	U	U	U	U	U	U	U	U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400									
1,1-Dichloroethane	11	1000	1200	17	U	U	0.026	U	U	U	U	U	U
1,1-Dichloroethene	0.7	33	38	1100	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	0.5	63	73	2.2	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene	7	1900	2100	9200									
1,2-Dichloropropane	0.5	160	180	4.7	U	U	U	U	U	U	U	U	U
1,3-Dichloropropene	2.6	410	470	8.4	U	U	U	U	U	U	U	U	U
2-Butanone	580	10000	10000	190000									
2-Chloroethyl Vinyl Ether					U	U	U	U	U	U	U	U	U
Acetone	1000	10000	10000	610000									
Acrolein	0.012	1.1	1.2	0.68									
Acrylonitrile	0.27	24	28	1.2	U	U	U	U	U	U	U	U	U
Benzene	0.5	210	240	5.6	U	U	U	U	U	U	1.875	U	U
Bromodichloromethane	10	45	51	1.4	U	U	U	U	U	U	U	U	U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLSS-16 6 - 8 6/20/1991	WPLSS-17 0 - 2 6/19/1991	WPLSS-18 4 - 6 6/17/1991	WPLSS-19 6 - 8 6/17/1991	WPLSS-20 10 - 12 6/17/1991	WPLTP-2 Gray to Amber Grease 7/22/1991	WPLTP-2 Black Ooze 7/22/1991	WPLTP-2 White Powder 7/22/1991	WPLTP-2 Gray-Black Ooze 7/22/1991
Bromoform	10	1500	1700	220	U	U	U	U	U	U	U	U	U
Bromomethane	1	270	300	35	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	0.5	110	120	1.3	U	U	U	U	U	U	U	U	U
Chlorobenzene	10	10000	10000	1500	U	U	U	U	U	U	U	U	U
Chlorodibromomethane	10	61	70	3.4	U	U	U	U	U	U	U		
Chloroethane	90	10000	10000	62000	U	U	U	U	U	U	U	U	U
Chloroform	10	17	19	1.5	U	U	U	U	U	U	U	U	U
Chloromethane	0.3	920	1000	510	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	7	1900	2100	10000			0.127		0.04				
cis-1,3-Dichloropropene	2.6	410	470	8.4									
Ethylbenzene	70	10000	10000	29	U	U	U	U	U	0.075	18.75	U	12.5
Methylene chloride	0.5	3500	4000	54	U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.5	1500	3300	2.7	U	U	0.25	U	U	U	U	U	U
Toluene	100	10000	10000	46000	U	U	U	U	U	0.325	15.625	1.555	U
trans-1,2-Dichloroethene	10	3700	4300	500	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	2.6	410	470	8.4									
Trichloroethene	0.5	970	1100	14	U	0.047	0.111	U	0.017	0.15	U	0.03	U
Vinyl Chloride	0.2	53	220	1.7	U	U	0.012	U	U	U	U	U	U
Xylenes (Total)	1000	10000	10000	2600									

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLTP-2 Jet Black Ooze 7/22/1991	*WPLTP-11 Lard 7/23/1991	WPLTP-11 Black Sludge 7/23/1991	*WPLTP-11 2 7/23/1991	*WPLTP-11 3 7/23/1991	WPLTP-15 Orange Semi-Solid 7/23/1991	WPLTP-15 Orange Semi-Solid 7/23/1991	WPLTP-15 Blue Powder 7/23/1991	WPLTP-18 3 - 3.5 1/1/1991
Cyanide													
Cyanide, Free	200	56000	190000	20000									0 U
Cyanide, Total	200	56000	190000	20000	0 U								0 U
Cyanide, Free													
Cyanide, Free	200	56000	190000	20000					U				
Cyanide, Total													
Cyanide, Total	200	56000	190000	20000			20	0.1	0.64				
Mercury													
Mercury	10	840	190000	24									
Metal													
Antimony	27	1100	190000	410	0 U	U	U	U	U	U	U	U	0 U
Arsenic	150	53	190000	1.6	0 U	2.2	26	13	15	U	U	2.8	7.8
Beryllium	320	5600	190000	2000	0 U	U	U	U	U	U	U	U	0 U
Cadmium	38	210	190000	800	0 U	U	18	2	4	U	U	U	0 U
Chromium				1400	0 U	170	550	2500	15000	31000	9	25000	46
Copper	36000	100000	190000	41000	7	86	2700	1300	1700	16	9	21	400
Hexavalent Chromium	190	420	190000	200									
Lead	450	1000	190000	800	0 U	40	450	710	320	95000	88	110000	47
Mercury	10	840	190000	24	0 U	U	0.98	0.83	0.63	U	U	0.33	0 U
Nickel	650	56000	190000	20000	0 U	51	360	630	890	6	U	8	180
Selenium	26	14000	190000	5100	0 U	U	U	U	U	U	U	U	0 U
Silver	84	14000	190000	5100	0 U	U	42	31	U	U	U	U	0 U
Thallium	14	200	190000	66	0 U	U	U	U	U	U	U	U	0 U
Titanium										260	140	240	0 U
Zinc	12000	190000	190000	310000	130	120	1300	1200	570	24000	37	10000	3500
Polychlorinated Biphenols													
Arochlor-1016	200	200	10000	21	0 U		U	U	U				0 U
Arochlor-1221	2.5	160	10000	0.62	0 U		U	U	U				0 U
Arochlor-1232	2	160	10000	0.62	0 U		U	U	U				0 U
Arochlor-1242	62	160	10000	0.74	0 U		U	U	U				0 U
Arochlor-1248	67	44	10000	0.74	0 U		U	U	U				0 U
Arochlor-1254	280	44	10000	0.74	0 U		14	12	1.5				0 U
Arochlor-1260	1900	130	190000	0.74	0 U		U	U	U				1.6
PCBs (Total)				0.74	0 U								1.6
Pesticides and Herbicides													
4,4'-DDD	30	330	190000	7.2									
4,4'-DDE	170	230	190000	5.1									
4,4'-DDT	330	230	190000	7									
Aldrin	0.44	4.7	190000	0.1									
Alpha-BHC	0.19	13	190000	0.27									
Alpha-Endosulfan	260	17000	190000	3700									
Beta-BHC	0.82	44	190000	0.96									
Beta-Endosulfan	260	17000	190000										
Chlordane	49	230	190000										
Delta-BHC	30	1700	190000	0.27									
Dieldrin	0.44	5	10000	0.11									
Endosulfan Sulfate	70	17000	190000										
Endrin	5.5	840	190000	180									
Endrin Aldehyde													
Heptachlor	0.68	18	190000	0.38									
Heptachlor Epoxide	1.1	8.7	190000	0.19									

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLTP-2 Jet Black Ooze 7/22/1991	*WPLTP-11 Lard 7/23/1991	WPLTP-11 Black Sludge 7/23/1991	*WPLTP-11 2 7/23/1991	*WPLTP-11 3 7/23/1991	WPLTP-15 Orange Semi-Solid 7/23/1991	WPLTP-15 Orange Semi-Solid 7/23/1991	WPLTP-15 Blue Powder 7/23/1991	WPLTP-18 3 - 3.5 1/1/1991
Lindane (Gamma-BHC)	0.072	61	190000	2.1									
Toxaphene	1.2	72	190000	1.6									
Semi Volatile Organic Compound													
1,2,4-Trichlorobenzene	27	10000	10000	400									
1,2-Dichlorobenzene	60	10000	10000	10000									
1,3-Dichlorobenzene	61	10000	10000										
1,4-Dichlorobenzene	10	3300	190000	13									
2,4-Dinitrotoluene	0.84	260	190000	5.5									
2-Methylnaphthalene	8000	10000	10000	4100									
Acenaphthene	4700	170000	190000	33000									
Acenaphthylene	6900	170000	190000	33000									
Anthracene	350	190000	190000	170000									
Benzo (A) Anthracene	320	110	190000	2.1									
Benzo (a) Pyrene	46	11	190000	0.21									
Benzo (b) Fluoranthene	170	110	190000	2.1									
Benzo (g,h,i) Perylene	180	170000	190000										
Benzo (k) Fluoranthene	610	1100	190000	21									
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120									
Carbazole	83	4000	190000										
Chrysene	230	11000	190000	210									
Dibenzo (a,h) Anthracene	160	11	190000	0.21									
Dibenzofuran													
Di-n-octylphthalate	10000	10000	10000										
Fluoranthene	3200	110000	190000	22000									
Fluorene	3800	110000	190000	22000									
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1									
Naphthalene	25	56000	190000	20									
Phenanthrene	10000	190000	190000										
Pyrene	2200	84000	190000	17000									
Total Solids													
Percent Solids													
Petroleum Hydrocarbons													
Petroleum Hydrocarbons (TPH)						450	170000	5400	39000	42000	4900	5700	
Volatile Organic Compound													
1,1,1-Trichloroethane	20	10000	10000	39000	0 U	U	U	U	U	U	U	U	0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	2.175	U	U	U	U	U	U	U	0 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.025	U	U	U	U	U	U	U	0 U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400									
1,1-Dichloroethane	11	1000	1200	17	0 U	U	U	U	U	U	U	U	0 U
1,1-Dichloroethene	0.7	33	38	1100	0.025	U	U	U	U	U	U	U	0 U
1,2-Dichloroethane	0.5	63	73	2.2		U	U	U	U	U	U	U	
1,2-Dichloroethene	7	1900	2100	9200									
1,2-Dichloropropane	0.5	160	180	4.7		U	U	U	U	U	U	U	
1,3-Dichloropropene	2.6	410	470	8.4		U	U	U	U	U	U	U	
2-Butanone	580	10000	10000	190000									
2-Chloroethyl Vinyl Ether						U	U	U	U	U	U	U	
Acetone	1000	10000	10000	610000									
Acrolein	0.012	1.1	1.2	0.68									
Acrylonitrile	0.27	24	28	1.2		U	U	U	U	U	U	U	
Benzene	0.5	210	240	5.6	0.025	U	U	U	U	U	U	U	0 U
Bromodichloromethane	10	45	51	1.4		U	U	U	U	U	U	U	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPLTP-2 Jet Black Ooze 7/22/1991	*WPLTP-11 Lard 7/23/1991	WPLTP-11 Black Sludge 7/23/1991	*WPLTP-11 2 7/23/1991	*WPLTP-11 3 7/23/1991	WPLTP-15 Orange Semi-Solid 7/23/1991	WPLTP-15 Orange Semi-Solid 7/23/1991	WPLTP-15 Blue Powder 7/23/1991	WPLTP-18 3 - 3.5 1/1/1991
Bromoform	10	1500	1700	220		U	U	U	U	U	U	U	
Bromomethane	1	270	300	35		U	U	U	U	U	U	U	
Carbon Tetrachloride	0.5	110	120	1.3		U	U	U	U	U	U	U	
Chlorobenzene	10	10000	10000	1500	0 U	U	U	U	U	U	U	U	0 U
Chlorodibromomethane	10	61	70	3.4		U	U	U	U	U	U	U	
Chloroethane	90	10000	10000	62000		U	U	U	U	U	U	U	
Chloroform	10	17	19	1.5		U	U	U	U	U	U	U	
Chloromethane	0.3	920	1000	510		U	U	U	U	U	U	U	
cis-1,2-Dichloroethene	7	1900	2100	10000	0 U								0.02
cis-1,3-Dichloropropene	2.6	410	470	8.4									
Ethylbenzene	70	10000	10000	29	0.025	U	0.02	0.037	0.1	35.8	U	U	0 U
Methylene chloride	0.5	3500	4000	54	0 U	U	U	U	U	U	U	U	0 U
Tetrachloroethene	0.5	1500	3300	2.7	0.125	U	U	U	U	U	U	U	0 U
Toluene	100	10000	10000	46000	0.075	U	0.02	0.01	0.02	U	U	U	0 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.75	U	U	U	U	U	U	U	0 U
trans-1,3-Dichloropropene	2.6	410	470	8.4									
Trichloroethene	0.5	970	1100	14	1	U	U	U	U	U	U	U	0.009
Vinyl Chloride	0.2	53	220	1.7	4.95	U	U	U	U	U	U	U	0 U
Xylenes (Total)	1000	10000	10000	2600									

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.