Table 3.14-1
Soils Data Summary - Building 2 - Former Bomb Line Area Settling Tanks (B2BL)
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)	B2BL-SB-001 1 - 3 6/10/2007	B2BL-SB-001 10 - 12 6/10/2007	B2BL-SB-002 0 - 2 7/24/2007	B2BL-SB-002 0 - 2 7/15/2007	B2BL-SB-003 1 - 3 6/23/2007	B2BL-SB-003 13 - 15 6/23/2007	B2BL-SB-004 6 - 8 6/6/2007	B2BL-SB-004 13 - 15 6/6/2007	B2BL-SB-005 1 - 3 6/6/2007	B2BL-SB-005 10 - 12 6/6/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.62 U	0.6 U	0.63 U	0.57 U	0.6 U	0.63 U	0.58 U	0.6 U	0.66 U	0.75 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.17 B J	0.23 B J	0.63 U	0.57 U	0.6 U	0.17 B	0.14 B J	0.17 B J	0.27 B J	0.4 B J
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200				0.45 U						
Mercury														
Mercury	10	840	190000	24	0.071	0.096	0.22	0.07	0.21	0.077	0.069	0.084	0.031 B	0.23
Metal														
Antimony	27	1100	190000	410	0.12 B J	2.4 U	2.5 U	1.1 U	1.2 U	6.3 U	0.17 B J	2.4 U	1.3 U	7.5 U
Arsenic	150	53	190000	1.6	2.8	6.1	9.6	3.2	3.7	6 B	3.4	4.8	3.7	3.8 B
Barium	8200	190000	190000	190000	26	25 B	68.3	42.5	42.7 J	15.3 B J	14.8 B E	110	27.5	27.8 B
Beryllium	320	5600	190000	2000	1.5 J	1.9 J	2 J	0.5 J	0.82 J	2.5 J	1.2 J	1.9 J	1.4 J	3.2 J
Cadmium	38	210	190000	800	1.2 U	1.2 U	0.87 B	0.092 B	0.6 U	3.1 U	0.58 U	1.2 U	0.66 U	3.7 U
Chromium				1400	20.4	6.4	28.7	11.2	7.5	7.3	4.7	6.7	4.5	15.3
Copper	36000	100000	190000	41000	21.7	18.9	24.1	7.3	12.8	15.3 B	10.1	27.4	19.6	20.7
Lead	450	1000	190000	800	11.6	11.7	23.5	8.7	10.8	10.1	5.6	16.4	9	23.1
Nickel	650	56000	190000	20000	19.3	31.1	35	5.8	10.1	47.1	14.2 E	28	13.9	45.5
Selenium	26	14000	190000	5100	0.79 B	1.2 U	2.6	0.57 U	0.6 U	3.1 U	0.58 U	1.2 U	0.66 U	3.7 U
Silver	84	14000	190000	5100	0.62 U	1.2 U	0.23 B	0.57 U	0.6 U	3.1 U	0.58 U	1.2 U	0.66 U	3.7 U
Thallium	14	200	190000	66	1.2 U	2.4 U	2.5 U	1.1 U	0.42 B	6.3 U	1.1 B	0.78 B	1 B	4.2 B
Vanadium	72000	20000	190000	7200	18.6	13.1	51.2	18.2	16.9	10.3 B	8	10.2 B	9.8	21.1 B
Zinc	12000	190000	190000	310000	46	79.9	59.8 J	22.5 J	34.6	139	39.4 E	92	32.9	154
Total Solids														
Percent Solids					81.30%	83%	78.90%	87.60%	83.30%	79.50%	85.50%	83%	75.30%	66.80%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0055 U	0.0052 U	0.0056 U	0.0056	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,1-Dichloroethane	11	1000	1200	17	0.0055 U	0.0052 U	0.0056 U	0.0032 J	0.005 U	0.0019 J	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,1-Dichloroethene	0.7	33	38	1100	0.0055 U	0.0052 U	0.0056 U	0.0017 J	0.005 U	0.0023 J	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1 U	1.1 U	0.99 U	1 U	1.1 U	0.99 U	1 U	1.1 U	1.5 U
2-Butanone	580	10000	10000	190000	0.022 U	0.021 U	0.022 U	0.02 U	0.02 U	0.022 U	0.02 U	0.021 U	0.0016 J	0.03 U
2-Hexanone					0.022 U	0.021 U	0.022 U	0.02 U	0.02 U	0.022 U	0.02 U	0.021 U	0.022 U	0.03 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.022 U	0.021 U	0.022 U	0.02 U	0.02 U	0.022 U	0.02 U	0.021 U	0.022 U	0.03 U
Acetone	1000	10000	10000	610000	0.022 U	0.021 U	0.017 J	0.022	0.02 U	0.022 U	0.02 U	0.021 U	0.011 J	0.03 U
Acrylonitrile	0.27	24	28	1.2	0.11 U	0.1 U	0.11 U	0.099 U	0.1 U	0.11 U	0.099 U	0.1 U	0.11 U	0.15 U
Benzene	0.5	210	240	5.6	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Bromochloromethane	9	10000	10000		0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Bromodichloromethane	10	45	51	1.4	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Bromoform	10	1500	1700	220	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Bromomethane	1	270	300	35	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Carbon Disulfide	410	10000	10000	3000	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Chlorobenzene	10	10000	10000	1500	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Chlorodibromomethane	10	61	70	3.4	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Chloroethane	90	10000	10000	62000	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 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.

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Soils Data Summary - Building 2 - Former Bomb Line Area Settling Tanks (B2BL)
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)	B2BL-SB-001 1 - 3 6/10/2007	B2BL-SB-001 10 - 12 6/10/2007	B2BL-SB-002 0 - 2 7/24/2007	B2BL-SB-002 0 - 2 7/15/2007	B2BL-SB-003 1 - 3 6/23/2007	B2BL-SB-003 13 - 15 6/23/2007	B2BL-SB-004 6 - 8 6/6/2007	B2BL-SB-004 13 - 15 6/6/2007	B2BL-SB-005 1 - 3 6/6/2007	B2BL-SB-005 10 - 12 6/6/2007
Chloroform	10	17	19	1.5	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Chloromethane	0.3	920	1000	510	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0012 J	0.0074	0.0056 U	0.0066	0.005 U	0.0061	0.005 U	0.0052 U	0.0056 U	0.0075 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Ethylbenzene	70	10000	10000	29	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Methyl tert-butyl ether	2	3200	3700	190	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Methylene chloride	0.5	3500	4000	54	0.002 J	0.002 J B	0.0052 J B	0.0023 J B	0.002 J B	0.0016 J B	0.0016 J	0.0018 J	0.0019 J	0.0023 J
Styrene	24	10000	10000	38000	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Toluene	100	10000	10000	46000	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Trichloroethene	0.5	970	1100	14	0.0055 U	0.0052 U	0.0056 U	0.0013 J	0.005 U	0.0094	0.005 U	0.0052 U	0.0056 U	0.0075 U
Vinyl Chloride	0.2	53	220	1.7	0.0055 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.0052 U	0.0056 U	0.0075 U
Xylenes (Total)	1000	10000	10000	2600	0.016 U	0.016 U	0.017 U	0.015 U	0.015 U	0.016 U	0.015 U	0.016 U	0.017 U	0.022 U

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Cyanide, Free						
Cyanide, Free	200	56000	190000	20000	0.65 U	0.71 U
Cyanide, Total						
Cyanide, Total	200	56000	190000	20000	0.2 B J	0.29 B J
Hexavalent Chromium						
Hexavalent Chromium	190	420	190000	200		
Mercury						
Mercury	10	840	190000	24	0.044	0.028 B
Metal						
Antimony	27	1100	190000	410	0.22 B J	2.8 U
Arsenic	150	53	190000	1.6	2.6	9.3
Barium	8200	190000	190000	190000	11.2 B	14.2 B
Beryllium	320	5600	190000	2000	1.7 J	2.3 J
Cadmium	38	210	190000	800	0.65 U	1.4 U
Chromium				1400	4.8	3.9
Copper	36000	100000	190000	41000	11.8	24.3
Lead	450	1000	190000	800	9.8	23.4
Nickel	650	56000	190000	20000	22.8	16.5
Selenium	26	14000	190000	5100	0.65 U	1.4 U
Silver	84	14000	190000	5100	0.65 U	1.4 U
Thallium	14	200	190000	66	1.1 B	2.8 U
Vanadium	72000	20000	190000	7200	9.9	4.8 B
Zinc	12000	190000	190000	310000	35	42.6
Total Solids						
Percent Solids					76.60%	70.40%
Volatile Organic Compound						
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0061 U	0.007 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0061 U	0.007 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0061 U	0.007 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0061 U	0.007 U
1,1-Dichloroethane	11	1000	1200	17	0.0061 U	0.007 U
1,1-Dichloroethene	0.7	33	38	1100	0.0061 U	0.007 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0061 U	0.007 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0061 U	0.007 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0061 U	0.007 U
1,4-Dioxane	2.4	210	240	160	1.2 U	1.4 U
2-Butanone	580	10000	10000	190000	0.0021 J	0.028 U
2-Hexanone					0.024 U	0.028 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.024 U	0.028 U
Acetone	1000	10000	10000	610000	0.015 J	0.028 U
Acrylonitrile	0.27	24	28	1.2	0.12 U	0.14 U
Benzene	0.5	210	240	5.6	0.0061 U	0.007 U
Bromochloromethane	9	10000	10000		0.0061 U	0.007 U
Bromodichloromethane	10	45	51	1.4	0.0061 U	0.007 U
Bromoform	10	1500	1700	220	0.0061 U	0.007 U
Bromomethane	1	270	300	35	0.0061 U	0.007 U
Carbon Disulfide	410	10000	10000	3000	0.0061 U	0.007 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0061 U	0.007 U
Chlorobenzene	10	10000	10000	1500	0.0061 U	0.007 U
Chlorodibromomethane	10	61	70	3.4	0.0061 U	0.007 U
Chloroethane	90	10000	10000	62000	0.0061 U	0.007 U

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Chloroform	10	17	19	1.5	0.0061 U	0.007 U
Chloromethane	0.3	920	1000	510	0.0061 U	0.007 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0061 U	0.007 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0061 U	0.007 U
Ethylbenzene	70	10000	10000	29	0.0061 U	0.007 U
Methyl tert-butyl ether	2	3200	3700	190	0.0061 U	0.007 U
Methylene chloride	0.5	3500	4000	54	0.002 J	0.0024 J
Styrene	24	10000	10000	38000	0.0061 U	0.007 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0061 U	0.007 U
Toluene	100	10000	10000	46000	0.0061 U	0.007 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0061 U	0.007 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0061 U	0.007 U
Trichloroethene	0.5	970	1100	14	0.0061 U	0.007 U
Vinyl Chloride	0.2	53	220	1.7	0.0061 U	0.007 U
Xylenes (Total)	1000	10000	10000	2600	0.018 U	0.021 U

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