Table 3.11-7
Soils Data Summary - Building 57 - Former Metals Fabrication (B57C)
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)	57C-SB-001 0 - 2 2/22/2006	57C-SB-001 Dup 0 - 2 2/22/2006	57C-SB-002 0 - 2 2/22/2006	57C-SB-003 0 - 2 2/22/2006	57C-SB-004 0 - 2 2/22/2006	57C-SB-005 0 - 2 2/22/2006	57C-SB-006 0 - 2 2/22/2006	57C-SB-007 0 - 2 2/22/2006	57C-SB-008 0 - 2 2/22/2006	57C-SB-009 0 - 2 2/22/2006	57C-SB-010 0 - 2 2/22/2006
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000	0.59 U	0.6 U	0.59 U	0.6 U	0.57 U	0.58 U	0.6 U	0.1 B	0.58 U	0.57 U	0.56 U
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.59 U	0.6 U	0.59 U	0.6 U	0.77	0.58 U	0.6 U	0.58 U	0.58 U	0.57 U	0.56 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	0.47 U	0.48 U	0.47 U	0.48 U	0.45 U	0.47 U	0.48 U	0.46 U	0.47 U	0.46 U	0.45 U
Mercury															
Mercury	10	840	190000	24	0.057 J	0.04 J	0.051 J	0.047 J	0.029 JB	0.026 JB	0.056 J	0.031 JB	0.043 J	0.033 JB	0.04 J
Metal															
Antimony	27	1100	190000	410	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	0.68 JB	1.2 U	1.2 U	1.1 U	1.1 U
Arsenic	150	53	190000	1.6	7.5	10	3.4	5.6	3.4	2.5	4.7	3.8	6	5.2	2.8
Beryllium	320	5600	190000	2000	0.61	0.63	0.61	0.6	0.71	0.75	0.51	0.64	0.56	0.74	0.84
Cadmium	38	210	190000	800	0.46 B	0.65	0.32 B	0.5 B	0.31 B	0.22 B	0.51 B	0.3 B	0.56 B	0.44 B	0.36 B
Chromium				1400	16 J	17.6 J	13.5 J	18.3 J	9.5 J	16.3 J	10.3 J	10.7 J	9.4 J	15 J	13.7 J
Copper	36000	100000	190000	41000	9	9.7	8.8	8.8	9	8.3	27.1	6.5	17	9.2	8.6
Lead	450	1000	190000	800	8.7	9.2	10.1	9.6	10.1	8.5	9.2	16.8	23.1	8.8	8.7
Nickel	650	56000	190000	20000	4.8	5.1	5.5	5.3	6.6	6.6	6.5	5.4	7.1	5.5	5.6
Selenium	26	14000	190000	5100	1.3	1.5	0.89	1.7	0.7	0.31 B	0.7	0.72	0.99	0.94	1
Silver	84	14000	190000	5100	0.59 U	0.6 U	0.59 U	0.6 U	0.57 U	0.58 U	0.6 U	0.58 U	0.055 B	0.57 U	0.56 U
Thallium	14	200	190000	66	0.62 B	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U
Zinc	12000	190000	190000	310000	15.4 E	17	18.9	17.5	15.8	20	20.8	14.9	68.1	15.3	14.9
Total Solids															
Percent Solids					84.90%	83.60%	84.70%	83.40%	88.10%	86%	82.80%	86.80%	85.90%	87.50%	88.80%
Volatile Organic Compound															
1,1,1-Trichloroethane	20	10000	10000	39000	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
1,1-Dichloroethane	11	1000	1200	17	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
1,1-Dichloroethene	0.7	33	38	1100	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
2-Butanone	580	10000	10000	190000	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
2-Chloroethyl Vinyl Ether					0.015 U	0.016 U	0.015 U	0.013 U	0.016 U	0.011 U	0.012 U	0.012 U	0.013 U	0.012 U	0.011 U
Acrolein	0.012	1.1	1.2	0.68	0.15 U	0.16 U	0.15 U	0.13 U	0.16 U	0.11 U	0.12 U	0.12 U	0.13 U	0.12 U	0.11 U
Acrylonitrile	0.27	24	28	1.2	0.15 U	0.16 U	0.15 U	0.13 U	0.16 U	0.11 U	0.12 U	0.12 U	0.13 U	0.12 U	0.11 U
Benzene	0.5	210	240	5.6	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Bromodichloromethane	10	45	51	1.4	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Bromoform	10	1500	1700	220	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Bromomethane	1	270	300	35	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Chlorobenzene	10	10000	10000	1500	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Chlorodibromomethane	10	61	70	3.4	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Chloroethane	90	10000	10000	62000	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Chloroform	10	17	19	1.5	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Chloromethane	0.3	920	1000	510	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Ethylbenzene	70	10000	10000	29	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Methylene chloride	0.5	3500	4000	54	0.0073 U	0.0029 J	0.0076 U	0.0031 J	0.0081 U	0.0056 U	0.0061 U	0.0019 J	0.0033 J	0.0061 U	0.0057 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0073 U	0.0078 U	0.0026 J	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Toluene	100	10000	10000	46000	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 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 3.11-7
Soils Data Summary - Building 57 - Former Metals Fabrication (B57C)
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)	57C-SB-001 0 - 2 2/22/2006	57C-SB-001 Dup 0 - 2 2/22/2006	57C-SB-002 0 - 2 2/22/2006	57C-SB-003 0 - 2 2/22/2006	57C-SB-004 0 - 2 2/22/2006	57C-SB-005 0 - 2 2/22/2006	57C-SB-006 0 - 2 2/22/2006	57C-SB-007 0 - 2 2/22/2006	57C-SB-008 0 - 2 2/22/2006	57C-SB-009 0 - 2 2/22/2006	57C-SB-010 0 - 2 2/22/2006
trans-1,2-Dichloroethene	10	3700	4300	500	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 U
Trichloroethene	0.5	970	1100	14	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0036 J	0.0063 U	0.0061 U	0.0057 U
Vinyl Chloride	0.2	53	220	1.7	0.0073 U	0.0078 U	0.0076 U	0.0065 U	0.0081 U	0.0056 U	0.0061 U	0.0059 U	0.0063 U	0.0061 U	0.0057 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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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)	57C-SB-011 0 - 2 2/22/2006
Cyanide, Free					
Cyanide, Free	200	56000	190000	20000	0.57 U
Cyanide, Total					
Cyanide, Total	200	56000	190000	20000	0.57 U
Hexavalent Chromium					
Hexavalent Chromium	190	420	190000	200	0.46 U
Mercury					
Mercury	10	840	190000	24	0.04 J
Metal					
Antimony	27	1100	190000	410	1.1 U
Arsenic	150	53	190000	1.6	7.6
Beryllium	320	5600	190000	2000	0.74
Cadmium	38	210	190000	800	0.62
Chromium				1400	9.4 J
Copper	36000	100000	190000	41000	7.8
Lead	450	1000	190000	800	9.1
Nickel	650	56000	190000	20000	4 B
Selenium	26	14000	190000	5100	1.4
Silver	84	14000	190000	5100	0.57 U
Thallium	14	200	190000	66	1.1 U
Zinc	12000	190000	190000	310000	11.1
Total Solids					
Percent Solids					87.80%
Volatile Organic Compound					
1,1,1-Trichloroethane	20	10000	10000	39000	0.0052 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0052 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0052 U
1,1-Dichloroethane	11	1000	1200	17	0.0052 U
1,1-Dichloroethene	0.7	33	38	1100	0.0052 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0052 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0052 U
2-Butanone	580	10000	10000	190000	0.0052 U
2-Chloroethyl Vinyl Ether					0.01 U
Acrolein	0.012	1.1	1.2	0.68	0.1 U
Acrylonitrile	0.27	24	28	1.2	0.1 U
Benzene	0.5	210	240	5.6	0.0052 U
Bromodichloromethane	10	45	51	1.4	0.0052 U
Bromoform	10	1500	1700	220	0.0052 U
Bromomethane	1	270	300	35	0.0052 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0052 U
Chlorobenzene	10	10000	10000	1500	0.0052 U
Chlorodibromomethane	10	61	70	3.4	0.0052 U
Chloroethane	90	10000	10000	62000	0.0052 U
Chloroform	10	17	19	1.5	0.0052 U
Chloromethane	0.3	920	1000	510	0.0052 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0052 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0052 U
Ethylbenzene	70	10000	10000	29	0.0052 U
Methylene chloride	0.5	3500	4000	54	0.0025 J
Tetrachloroethene	0.5	1500	3300	2.7	0.0052 U
Toluene	100	10000	10000	46000	0.0052 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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trans-1,2-Dichloroethene	10	3700	4300	500	0.0052 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0052 U
Trichloroethene	0.5	970	1100	14	0.0052 U
Vinyl Chloride	0.2	53	220	1.7	0.0052 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.