Table 3.11-6
Soils Data Summary - Electrical Transformer H Bank (ETAH)
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)	PMS-16 0 - 0.5 11/25/2003	PMS-16 3 - 3.5 11/25/2003	PMS-16 (SIDEWALL) 3 - 3.5 1/7/2004	Trans H: 0 - 0.5 11/26/2003	Trans H: 3.5 - 4 11/26/2003	Trans H:50 0 - 0.5 11/25/2003	Trans H:50 3.5 - 4 11/26/2003	Trans H:100 0 - 0.5 11/25/2003	Trans H:100 3.5 - 4 11/26/2003	Trans H:150 0 - 0.5 11/25/2003	Trans H:150 3.5 - 4 11/26/2003
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000	0.31 U	0.28 U		0.29 U	0.31 U	0.32 U	0.31 U	0.31 U	0.32 U	0.3 U	0.27 U
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.31 U	0.28 U		0.29 U	0.31 U	0.32 U	0.31 U	0.31 U	0.32	0.3 U	0.27 U
Mercury															
Mercury	10	840	190000	24	0.07	0.02 J	0.05 U	0.02 J	0.05 J	0.05 J	0.02 J	0.07	0.05 J	0.04 J	0.05 U
Metal															
Antimony	27	1100	190000	410	1 J	0.9 J	2 U	0.6 J	2 U	1 J	0.7 J	1 J	2 U	1 J	0.5 J
Arsenic	150	53	190000	1.6	4	5	5	5	7	4	8	7	7	5	2 U
Beryllium	320	5600	190000	2000	0.6 J	0.5 J	1.1 U	0.6 J	0.5 J	0.6 J	0.6 J	1 J	0.5 J	0.5 J	1.1 U
Cadmium	38	210	190000	800	0.6 J	0.5 U	0.6 U	0.5 U	0.6 U	0.5 U	0.6 U	0.6 U	0.6 U	0.3 J	0.5 U
Chromium				1400	30.5	12	24.4	17.8	22.3	20.1	26.4	19.3	23.7	24.8	10.5
Copper	36000	100000	190000	41000	32	7	10	8	10	28	27	42	49	19	3
Lead	450	1000	190000	800	67	9	9	8	10	53	17	43	41	27	1
Nickel	650	56000	190000	20000	22	5	7	7	9	12	14	12	16	27	0.5 J
Selenium	26	14000	190000	5100	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	84	14000	190000	5100	0.7	0.8	0.6 U	0.5 U	0.6 U	0.7	0.6 U	0.5 J	0.6 U	0.8	0.5 U
Thallium	14	200	190000	66	4 U	3 U	3 U	3 U	4 U	3 U	4 U	4 U	4 U	3 U	3 U
Zinc	12000	190000	190000	310000	111	11	20	29	33	63	57	107	91	94	2
Total Solids															
Moisture					19.90%	11%	12.30%	14%	18.10%	20.80%	18.40%	19.20%	21%	17.40%	8.70%
Percent Solids					80.10%	89%	87.70%	86%	81.90%	79.20%	81.60%	80.80%	79%	82.60%	91.30%
Volatile Organic Compound															
1,1,1-Trichloroethane	20	10000	10000	39000	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
1,1-Dichloroethane	11	1000	1200	17	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
1,1-Dichloroethene	0.7	33	38	1100	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
1,3-Dichloropropene	2.6	410	470	8.4	0.0042 U	0.0035 U	0.0037 U	0.0039 U	0.0039 U	0.0046 U	0.0043 U	0.0043 U	0.0043 U	0.0048 U	0.0042 U
2-Butanone	580	10000	10000	190000	0.0034 J	0.007 U	0.0075 U	0.0028 J	0.0079 U	0.0092 U	0.0094	0.0087 U	0.0117	0.0095 U	0.0083 U
2-Chloroethyl Vinyl Ether					0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Acrolein	0.012	1.1	1.2	0.68	0.021 U	0.017 U	0.019 U	0.019 U	0.02 U	0.023 U	0.021 U	0.022 U	0.021 U	0.024 U	0.021 U
Acrylonitrile	0.27	24	28	1.2	0.0084 U	0.007 U	0.0075 U	0.0078 U	0.0079 U	0.0092 U	0.0085 U	0.0087 U	0.0085 U	0.0095 U	0.0083 U
Benzene	0.5	210	240	5.6	0.00017 J	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.00066 J	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Bromodichloromethane	10	45	51	1.4	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Bromoform	10	1500	1700	220	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Bromomethane	1	270	300	35	0.0042 U	0.0035 U	0.0019 U	0.0039 U	0.0039 U	0.0046 U	0.0043 U	0.0043 U	0.0043 U	0.0024 U	0.0042 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Chlorobenzene	10	10000	10000	1500	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Chlorodibromomethane	10	61	70	3.4	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Chloroethane	90	10000	10000	62000	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Chloroform	10	17	19	1.5	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Chloromethane	0.3	920	1000	510	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Ethylbenzene	70	10000	10000	29	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Methylene chloride	0.5	3500	4000	54	0.0042 U	0.0035 U	0.0037 U	0.0039 U	0.0039 U	0.0046 U	0.0043 U	0.0043 U	0.0043 U	0.0048 U	0.0042 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Toluene	100	10000	10000	46000	0.0003 J	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.00016 J	0.0015 J	0.0022 U	0.0021 U	0.0024 U	0.0021 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 U
Trichloroethene	0.5	970	1100	14	0.0021 U	0.0017 U	0.0019 U	0.0019 U	0.002 U	0.0023 U	0.0021 U	0.0022 U	0.0021 U	0.0024 U	0.0021 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 3.11-6
Soils Data Summary - Electrical Transformer H Bank (ETAH)
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)	PMS-16 0 - 0.5 11/25/2003	PMS-16 3 - 3.5 11/25/2003	PMS-16 (SIDEWALL) 3 - 3.5 1/7/2004	Trans H: 0 - 0.5 11/26/2003	Trans H: 3.5 - 4 11/26/2003	Trans H:50 0 - 0.5 11/25/2003	Trans H:50 3.5 - 4 11/26/2003	Trans H:100 0 - 0.5 11/25/2003	Trans H:100 3.5 - 4 11/26/2003	Trans H:150 0 - 0.5 11/25/2003	Trans H:150 3.5 - 4 11/26/2003
Vinyl Chloride	0.2	53	220	1.7	0.0042 U	0.0035 U	0.0019 U	0.0039 U	0.0039 U	0.0046 U	0.0043 U	0.0043 U	0.0043 U	0.0024 U	0.0042 U

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Cyanide, Free						
Cyanide, Free	200	56000	190000	20000	0.29 U	0.3 U
Cyanide, Total						
Cyanide, Total	200	56000	190000	20000	0.29 U	0.3 U
Mercury						
Mercury	10	840	190000	24	0.04 J	0.02 J
Metal						
Antimony	27	1100	190000	410	0.6 J	0.4 J
Arsenic	150	53	190000	1.6	4	5
Beryllium	320	5600	190000	2000	0.5 J	0.5 J
Cadmium	38	210	190000	800	0.6 U	0.6 U
Chromium				1400	17.4	20.7
Copper	36000	100000	190000	41000	23	172
Lead	450	1000	190000	800	26	32
Nickel	650	56000	190000	20000	9	14
Selenium	26	14000	190000	5100	2 U	2 U
Silver	84	14000	190000	5100	0.5 J	0.6 U
Thallium	14	200	190000	66	3 U	3 U
Zinc	12000	190000	190000	310000	47	63
Total Solids						
Moisture					14.40%	15.60%
Percent Solids					85.60%	84.40%
Volatile Organic Compound						
1,1,1-Trichloroethane	20	10000	10000	39000	0.0019 U	0.0018 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0019 U	0.0018 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0019 U	0.0018 U
1,1-Dichloroethane	11	1000	1200	17	0.0019 U	0.0018 U
1,1-Dichloroethene	0.7	33	38	1100	0.0019 U	0.0018 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0019 U	0.0018 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0019 U	0.0018 U
1,3-Dichloropropene	2.6	410	470	8.4	0.0039 U	0.0036 U
2-Butanone	580	10000	10000	190000	0.0077 U	0.0068 J
2-Chloroethyl Vinyl Ether					0.0019 U	0.0018 U
Acrolein	0.012	1.1	1.2	0.68	0.019 U	0.018 U
Acrylonitrile	0.27	24	28	1.2	0.0077 U	0.0072 U
Benzene	0.5	210	240	5.6	0.0019 U	0.00018 J
Bromodichloromethane	10	45	51	1.4	0.0019 U	0.0018 U
Bromoform	10	1500	1700	220	0.0019 U	0.0018 U
Bromomethane	1	270	300	35	0.0039 U	0.0036 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0019 U	0.0018 U
Chlorobenzene	10	10000	10000	1500	0.0019 U	0.0018 U
Chlorodibromomethane	10	61	70	3.4	0.0019 U	0.0018 U
Chloroethane	90	10000	10000	62000	0.0019 U	0.0018 U
Chloroform	10	17	19	1.5	0.0019 U	0.0018 U
Chloromethane	0.3	920	1000	510	0.0019 U	0.0018 U
Ethylbenzene	70	10000	10000	29	0.0019 U	0.0018 U
Methylene chloride	0.5	3500	4000	54	0.0039 U	0.0036 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0019 U	0.0018 U
Toluene	100	10000	10000	46000	0.00021 J	0.0005 J
trans-1,2-Dichloroethene	10	3700	4300	500	0.0019 U	0.0018 U
Trichloroethene	0.5	970	1100	14	0.0019 U	0.0018 U

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Vinyl Chloride	0.2	53	220	1.7	0.0039 U	0.0036 U

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