Table 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	*B-1 1.3 - 2.3 3/15/1995	*B-1 4 - 6 3/15/1995	*B-2 1.5 - 2.5 3/15/1995	*B-2 3 - 4 3/15/1995	*B-3 0.8 - 1.5 3/15/1995	*B-3 2.5 - 6 3/15/1995	*B-4 0.6 - 1.5 3/15/1995	*B-4 3 - 4 3/15/1995	*B-5 1.7 - 2.5 3/16/1995	*B-5 2.9 - 3.4 3/16/1995	*B-6 1.5 - 2 3/16/1995	*B-6 2.9 - 3.3 3/16/1995	*B-7 1.5 - 2.3 3/16/1995
Cyanide, Total																	
Cyanide, Total	200	56000	190000	20000	1.1	U	12	0.49	27	54	5.1	1.5	1.7	2.4	54	10	60
Hexavalent Chromium																	
Hexavalent Chromium	190	420	190000	200	9.2	U	93	490	110	250	82	50	U	U	U	U	38
Mercury																	
Mercury	10	840	190000	24	U	U	U	U	U	U	U	U	U	U	U	U	U
Metal																	
Antimony	27	1100	190000	410	U	U	3.5	4.9	U	U	3.5	U	U	U	U	U	2.3
Arsenic	150	53	190000	1.6	2.9	10	1.4	U	3.6	3.7	U	3.3	5.3	4.6	6.7	4.3	1
Barium	8200	190000	190000	190000													
Beryllium	320	5600	190000	2000	0.6	0.9	0.5	0.7	U	U	0.6	1	0.6	0.7	0.6	0.5	0.5
Cadmium	38	210	190000	800	U	0.2	5.1	0.1	300	390	92	0.4	0.3	0.4	58	17	340
Chromium				1400	130	28	740	1400	490	690	960	300	28	23	95	26	450
Copper	36000	100000	190000	41000	11	8.6	13	9.9	34	54	74	13	14	12	15	16	17
Hexavalent Chromium	190	420	190000	200													
Lead	450	1000	190000	800	11	5.5	6.6	5.6	11	3.6	7.8	23	6.6	14	15	11	6.3
Mercury	10	840	190000	24													
Nickel	650	56000	190000	20000	9.2	11	12	11	5.2	9	15	13	11	11	13	11	11
Selenium	26	14000	190000	5100	U	U	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	U	U
Thallium	14	200	190000	66	3.4	7.5	4.7	4.9	U	U	3.5	U	4.5	U	2.4	2.3	3.4
Vanadium	72000	20000	190000	7200													
Zinc	12000	190000	190000	310000	33	31	65	41	140	46	53	54	38	51	51	34	40
pH																	
pH					6.03 SU	5.03 SU	7.33 SU	6.63 SU	9.84 SU	9.15 SU	8.16 SU	7.55 SU	9.27 SU	8.46 SU	7.64 SU	7.36 SU	7.57 SU
Synthetic Precipitation Leaching Procedure - Mercury																	
Mercury	10	840	190000	24	mg/L U	mg/L U	mg/L U	mg/L U									
Synthetic Precipitation Leaching Procedure - Metal																	
Antimony	27	1100	190000	410	0.02 mg/L	mg/L U	0.04 mg/L	0.15 mg/L									
Arsenic	150	53	190000	1.6	mg/L U	mg/L U	mg/L U	mg/L U									
Beryllium	320	5600	190000	2000	mg/L U	mg/L U	mg/L U	mg/L U									
Cadmium	38	210	190000	800	mg/L U	mg/L U	0.004 mg/L	mg/L U									
Chromium				1400	4.8 mg/L	mg/L U	9.7 mg/L	33 mg/L									
Copper	36000	100000	190000	41000	mg/L U	mg/L U	mg/L U	mg/L U									
Lead	450	1000	190000	800	mg/L U	mg/L U	mg/L U	mg/L U									
Nickel	650	56000	190000	20000	mg/L U	mg/L U	mg/L U	mg/L U									
Selenium	26	14000	190000	5100	mg/L U	mg/L U	mg/L U	mg/L U									
Silver	84	14000	190000	5100	mg/L U	mg/L U	mg/L U	mg/L U									
Thallium	14	200	190000	66	mg/L U	mg/L U	mg/L U	mg/L U									
Zinc	12000	190000	190000	310000	mg/L U	mg/L U	mg/L U	mg/L U									
Toxicity Characteristic Leaching Procedure - Mercury																	
Mercury	10	840	190000	24	mg/L U		mg/L U										
Toxicity Characteristic Leaching Procedure - Metal																	
Arsenic	150	53	190000	1.6	mg/L U		mg/L U										
Barium	8200	190000	190000	190000	mg/L U		mg/L U										
Cadmium	38	210	190000	800	mg/L U		0.04 mg/L										
Chromium				1400	1.1 mg/L		1.9 mg/L										
Lead	450	1000	190000	800	mg/L U		mg/L U										
Selenium	26	14000	190000	5100	mg/L U		mg/L U										
Silver	84	14000	190000	5100	mg/L U		mg/L U										
Total Solids																	

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	*B-1 1.3 - 2.3 3/15/1995	*B-1 4 - 6 3/15/1995	*B-2 1.5 - 2.5 3/15/1995	*B-2 3 - 4 3/15/1995	*B-3 0.8 - 1.5 3/15/1995	*B-3 2.5 - 6 3/15/1995	*B-4 0.6 - 1.5 3/15/1995	*B-4 3 - 4 3/15/1995	*B-5 1.7 - 2.5 3/16/1995	*B-5 2.9 - 3.4 3/16/1995	*B-6 1.5 - 2 3/16/1995	*B-6 2.9 - 3.3 3/16/1995	*B-7 1.5 - 2.3 3/16/1995
Percent Solids																	
Total Dissolved Solids					87%	93%	86%	81%	77%	67%	85%	80%	88%	84%	84%	88%	88%
Volatile Organic Compound																	
1,1,1-Trichloroethane	20	10000	10000	39000													
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9													
1,1,2-Trichloroethane	0.5	100	120	5.5													
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000													
1,1-Dichloroethane	11	1000	1200	17													
1,1-Dichloroethene	0.7	33	38	1100													
1,2-Dichloroethane	0.5	63	73	2.2													
1,2-Dichloropropane	0.5	160	180	4.7													
1,3-Dichloropropene	2.6	410	470	8.4													
2-Chloroethyl Vinyl Ether																	
Benzene	0.5	210	240	5.6													
Bromodichloromethane	10	45	51	1.4													
Bromoform	10	1500	1700	220													
Bromomethane	1	270	300	35													
Carbon Tetrachloride	0.5	110	120	1.3													
Chlorobenzene	10	10000	10000	1500													
Chlorodibromomethane	10	61	70	3.4													
Chloroethane	90	10000	10000	62000													
Chloroform	10	17	19	1.5													
Chloromethane	0.3	920	1000	510													
Ethylbenzene	70	10000	10000	29													
Methylene chloride	0.5	3500	4000	54													
Tetrachloroethene	0.5	1500	3300	2.7													
Toluene	100	10000	10000	46000													
trans-1,2-Dichloroethene	10	3700	4300	500													
Trichloroethene	0.5	970	1100	14													
Vinyl Chloride	0.2	53	220	1.7													

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	*B-7 3.5 - 4 3/16/1995	*B-8 1.5 - 2 3/16/1995	*B-9 1.5 - 2 3/16/1995	B-9 3.2 - 3.7 3/16/1995	B-10 2 3/16/1995	*B-10 2 - 2.5 3/16/1995	*B-10 3.3 - 4 3/16/1995	B4ZP-SB-001 1 - 3 6/29/2007	B4ZP-SB-001 15 - 17 7/6/2007	B4ZP-SB-002 1 - 3 6/29/2007	B4ZP-SB-002 18 - 20 7/6/2007	BLD4-SB-338 13 - 14 5/2/1995
Cyanide, Total																
Cyanide, Total	200	56000	190000	20000	6.3	1.1	2	U		0.3	0.24					
Hexavalent Chromium																
Hexavalent Chromium	190	420	190000	200	28	49	U	U		120	30	0.73	17.1	0.48 U	63.7	
Mercury																
Mercury	10	840	190000	24	U	U	U	U		U	U	0.089	0.065	0.039	0.045	
Metal																
Antimony	27	1100	190000	410	U	U	U	U		U	U	1.2 U	1.2 U	1.2 U	1.2 U	
Arsenic	150	53	190000	1.6	3.9	6.9	4	5.1		5.8	4.7	4.7	3.2	3.7	2.1	
Barium	8200	190000	190000	190000								164	69.5	130	46.6	
Beryllium	320	5600	190000	2000	0.7	0.8	0.7	0.9		0.9	1	1.1 J	1.1 J	0.88 J	0.98 J	
Cadmium	38	210	190000	800	3	2.8	8.7	U		0.4	U	0.44 B	0.6 U	0.19 B	0.11 B	13.2
Chromium				1400	24	130	57	14		140	67	21.9	38.4	13.9	147	1210
Copper	36000	100000	190000	41000	8.5	20	23	5.7		25	9.6	7.3	9.6	10.1	13.1	
Hexavalent Chromium	190	420	190000	200												890
Lead	450	1000	190000	800	15	33	15	U		16	19	23.6	9.8	19.2	11.2	
Mercury	10	840	190000	24												
Nickel	650	56000	190000	20000	12	12	13	9.2		17	12	6.4	9.8	7.4	8.5	
Selenium	26	14000	190000	5100	U	U	U	U		U	U	0.37 B	0.56 B	0.59 U	0.5 B	
Silver	84	14000	190000	5100	U	U	U	U		U	U	0.088 B	0.6 U	0.075 B	0.62 U	
Thallium	14	200	190000	66	U	3.2	3.5	6.9		2.9	U	1.2 U	1.2 U	1.2 U	1.2 U	
Vanadium	72000	20000	190000	7200								20.1	20.8	17.5	17.9	
Zinc	12000	190000	190000	310000	44	44	51	22		590	76	216	30.6	40.1	154	99
pH																
pH					7.51 SU	7.78 SU	7.53 SU	6.37 SU		6.14 SU	6.09 SU					
Synthetic Precipitation Leaching Procedure - Mercury																
Mercury	10	840	190000	24												
Synthetic Precipitation Leaching Procedure - Metal																
Antimony	27	1100	190000	410												
Arsenic	150	53	190000	1.6												
Beryllium	320	5600	190000	2000												
Cadmium	38	210	190000	800												
Chromium				1400												
Copper	36000	100000	190000	41000												
Lead	450	1000	190000	800												
Nickel	650	56000	190000	20000												
Selenium	26	14000	190000	5100												
Silver	84	14000	190000	5100												
Thallium	14	200	190000	66												
Zinc	12000	190000	190000	310000												
Toxicity Characteristic Leaching Procedure - Mercury																
Mercury	10	840	190000	24			mg/L U		0.0018 mg/L							
Toxicity Characteristic Leaching Procedure - Metal																
Arsenic	150	53	190000	1.6			mg/L U		mg/L U							
Barium	8200	190000	190000	190000			mg/L U		0.69 mg/L							
Cadmium	38	210	190000	800			mg/L U		mg/L U							
Chromium				1400			mg/L U		1.2 mg/L							
Lead	450	1000	190000	800			mg/L U		mg/L U							
Selenium	26	14000	190000	5100			mg/L U		mg/L U							
Silver	84	14000	190000	5100			mg/L U		mg/L U							
Total Solids																

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	*B-7 3.5 - 4 3/16/1995	*B-8 1.5 - 2 3/16/1995	*B-9 1.5 - 2 3/16/1995	B-9 3.2 - 3.7 3/16/1995	B-10 2 3/16/1995	*B-10 2 - 2.5 3/16/1995	*B-10 3.3 - 4 3/16/1995	B4ZP-SB-001 1 - 3 6/29/2007	B4ZP-SB-001 15 - 17 7/6/2007	B4ZP-SB-002 1 - 3 6/29/2007	B4ZP-SB-002 18 - 20 7/6/2007	BLD4-SB-338 13 - 14 5/2/1995
Percent Solids												80.60%	82.80%	85.20%	80.20%	
Total Dissolved Solids					82%	95%	86%	87%		69%	83%					
Volatile Organic Compound																
1,1,1-Trichloroethane	20	10000	10000	39000												
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9												
1,1,2-Trichloroethane	0.5	100	120	5.5												
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000												
1,1-Dichloroethane	11	1000	1200	17												
1,1-Dichloroethene	0.7	33	38	1100												
1,2-Dichloroethane	0.5	63	73	2.2												
1,2-Dichloropropane	0.5	160	180	4.7												
1,3-Dichloropropene	2.6	410	470	8.4												
2-Chloroethyl Vinyl Ether																
Benzene	0.5	210	240	5.6												
Bromodichloromethane	10	45	51	1.4												
Bromoform	10	1500	1700	220												
Bromomethane	1	270	300	35												
Carbon Tetrachloride	0.5	110	120	1.3												
Chlorobenzene	10	10000	10000	1500												
Chlorodibromomethane	10	61	70	3.4												
Chloroethane	90	10000	10000	62000												
Chloroform	10	17	19	1.5												
Chloromethane	0.3	920	1000	510												
Ethylbenzene	70	10000	10000	29												
Methylene chloride	0.5	3500	4000	54												
Tetrachloroethene	0.5	1500	3300	2.7												
Toluene	100	10000	10000	46000												
trans-1,2-Dichloroethene	10	3700	4300	500												
Trichloroethene	0.5	970	1100	14												
Vinyl Chloride	0.2	53	220	1.7												

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-338 18 - 19 5/2/1995	BLD4-SB-338 21 - 22 5/2/1995	BLD4-SB-353 5 - 6 5/2/1995	BLD4-SB-353 9 - 10 5/2/1995	BLD4-SB-353 12 - 13 5/2/1995	BLD4-SB-353 15.5 - 16.5 5/2/1995	BLD4-SB-354 4.5 - 5.5 5/2/1995	BLD4-SB-354 10 - 11 5/2/1995	BLD4-SB-354 14 - 15 5/2/1995	BLD4-SB-354 19 - 20 5/2/1995
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000										
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200										
Mercury														
Mercury	10	840	190000	24										
Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	5	9.7	309	1330	17.7	0 U	5.2	5.3	6.2	4.3
Chromium				1400	606	214	930	1230	513	399	2210	676	1480	848
Copper	36000	100000	190000	41000										
Hexavalent Chromium	190	420	190000	200	580	83	580	610	450	570	1400	600	890	760
Lead	450	1000	190000	800										
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	73	93	99	91	32	43	44	51	52	60
pH														
pH														
Synthetic Precipitation Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Synthetic Precipitation Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Total Solids														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-338 18 - 19 5/2/1995	BLD4-SB-338 21 - 22 5/2/1995	BLD4-SB-353 5 - 6 5/2/1995	BLD4-SB-353 9 - 10 5/2/1995	BLD4-SB-353 12 - 13 5/2/1995	BLD4-SB-353 15.5 - 16.5 5/2/1995	BLD4-SB-354 4.5 - 5.5 5/2/1995	BLD4-SB-354 10 - 11 5/2/1995	BLD4-SB-354 14 - 15 5/2/1995	BLD4-SB-354 19 - 20 5/2/1995
Percent Solids														
Total Dissolved Solids														
Volatile Organic Compound														
1,1,1-Trichloroethane	20	10000	10000	39000										
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9										
1,1,2-Trichloroethane	0.5	100	120	5.5										
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000										
1,1-Dichloroethane	11	1000	1200	17										
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
1,2-Dichloropropane	0.5	160	180	4.7										
1,3-Dichloropropene	2.6	410	470	8.4										
2-Chloroethyl Vinyl Ether														
Benzene	0.5	210	240	5.6										
Bromodichloromethane	10	45	51	1.4										
Bromoform	10	1500	1700	220										
Bromomethane	1	270	300	35										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chlorodibromomethane	10	61	70	3.4										
Chloroethane	90	10000	10000	62000										
Chloroform	10	17	19	1.5										
Chloromethane	0.3	920	1000	510										
Ethylbenzene	70	10000	10000	29										
Methylene chloride	0.5	3500	4000	54										
Tetrachloroethene	0.5	1500	3300	2.7										
Toluene	100	10000	10000	46000										
trans-1,2-Dichloroethene	10	3700	4300	500										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-355 6 - 7 5/2/1995	BLD4-SB-355 11 - 12 5/2/1995	BLD4-SB-355 17 - 18 5/2/1995	BLD4-SB-355 19.5 - 20.5 5/2/1995	BLD4-SB-356 5.5 - 6.6 5/2/1995	BLD4-SB-356 11 - 12 5/2/1995	BLD4-SB-356 17 - 18 5/2/1995	BLD4-SB-356 19.5 - 20.5 5/2/1995	BLD4-SB-357 5.5 - 6.5 5/2/1995	BLD4-SB-357 11 - 12 5/2/1995
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000										
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200										
Mercury														
Mercury	10	840	190000	24										
Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	0 U	0 U	0 U	0 U	4.3	0 U	0 U	3.4	26.6	0 U
Chromium				1400	956	224	126	356	545	132	250	139	1760	325
Copper	36000	100000	190000	41000										
Hexavalent Chromium	190	420	190000	200	690	240	210	260	390	92	240	89	640	310
Lead	450	1000	190000	800										
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	15	129	93	47	110	33	88	107	91	40
pH														
pH														
Synthetic Precipitation Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Synthetic Precipitation Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Total Solids														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-355 6 - 7 5/2/1995	BLD4-SB-355 11 - 12 5/2/1995	BLD4-SB-355 17 - 18 5/2/1995	BLD4-SB-355 19.5 - 20.5 5/2/1995	BLD4-SB-356 5.5 - 6.6 5/2/1995	BLD4-SB-356 11 - 12 5/2/1995	BLD4-SB-356 17 - 18 5/2/1995	BLD4-SB-356 19.5 - 20.5 5/2/1995	BLD4-SB-357 5.5 - 6.5 5/2/1995	BLD4-SB-357 11 - 12 5/2/1995
Percent Solids														
Total Dissolved Solids														
Volatile Organic Compound														
1,1,1-Trichloroethane	20	10000	10000	39000										
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9										
1,1,2-Trichloroethane	0.5	100	120	5.5										
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000										
1,1-Dichloroethane	11	1000	1200	17										
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
1,2-Dichloropropane	0.5	160	180	4.7										
1,3-Dichloropropene	2.6	410	470	8.4										
2-Chloroethyl Vinyl Ether														
Benzene	0.5	210	240	5.6										
Bromodichloromethane	10	45	51	1.4										
Bromoform	10	1500	1700	220										
Bromomethane	1	270	300	35										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chlorodibromomethane	10	61	70	3.4										
Chloroethane	90	10000	10000	62000										
Chloroform	10	17	19	1.5										
Chloromethane	0.3	920	1000	510										
Ethylbenzene	70	10000	10000	29										
Methylene chloride	0.5	3500	4000	54										
Tetrachloroethene	0.5	1500	3300	2.7										
Toluene	100	10000	10000	46000										
trans-1,2-Dichloroethene	10	3700	4300	500										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-357 17 - 18 5/2/1995	BLD4-SB-357 21 - 22 5/2/1995	BLD4-SB-358 6 - 7 5/2/1995	BLD4-SB-358 10 - 11 5/2/1995	BLD4-SB-358 15 - 16 5/2/1995	BLD4-SB-358 21 - 22 5/2/1995	BLD4-SB-359 5 - 6 5/2/1995	BLD4-SB-359 11 - 12 5/2/1995	BLD4-SB-359 16 - 17 5/2/1995	BLD4-SB-359 20 - 21 5/2/1995
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000										
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200										
Mercury														
Mercury	10	840	190000	24										
Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	4.9	7.7	9.2	3.1	0 U	3.8	41.1	10	0 U	2.7
Chromium				1400	244	242	412	422	385	102	71.8	16.8	10.4	10.5
Copper	36000	100000	190000	41000										
Hexavalent Chromium	190	420	190000	200	220	240	140	390	320	110	26	0 U	0 U	0 U
Lead	450	1000	190000	800										
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	78	107	48	18	31	54	47	38	26	56
pH														
pH														
Synthetic Precipitation Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Synthetic Precipitation Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Total Solids														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-357 17 - 18 5/2/1995	BLD4-SB-357 21 - 22 5/2/1995	BLD4-SB-358 6 - 7 5/2/1995	BLD4-SB-358 10 - 11 5/2/1995	BLD4-SB-358 15 - 16 5/2/1995	BLD4-SB-358 21 - 22 5/2/1995	BLD4-SB-359 5 - 6 5/2/1995	BLD4-SB-359 11 - 12 5/2/1995	BLD4-SB-359 16 - 17 5/2/1995	BLD4-SB-359 20 - 21 5/2/1995
Percent Solids														
Total Dissolved Solids														
Volatile Organic Compound														
1,1,1-Trichloroethane	20	10000	10000	39000										
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9										
1,1,2-Trichloroethane	0.5	100	120	5.5										
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000										
1,1-Dichloroethane	11	1000	1200	17										
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
1,2-Dichloropropane	0.5	160	180	4.7										
1,3-Dichloropropene	2.6	410	470	8.4										
2-Chloroethyl Vinyl Ether														
Benzene	0.5	210	240	5.6										
Bromodichloromethane	10	45	51	1.4										
Bromoform	10	1500	1700	220										
Bromomethane	1	270	300	35										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chlorodibromomethane	10	61	70	3.4										
Chloroethane	90	10000	10000	62000										
Chloroform	10	17	19	1.5										
Chloromethane	0.3	920	1000	510										
Ethylbenzene	70	10000	10000	29										
Methylene chloride	0.5	3500	4000	54										
Tetrachloroethene	0.5	1500	3300	2.7										
Toluene	100	10000	10000	46000										
trans-1,2-Dichloroethene	10	3700	4300	500										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-360 6 - 7 5/3/1995	BLD4-SB-360 12 - 13 5/3/1995	BLD4-SB-360 15 - 16 5/3/1995	BLD4-SB-360 20 - 21 5/3/1995	BLD4-SB-361 5 - 6 5/3/1995	BLD4-SB-361 9 - 10 5/3/1995	BLD4-SB-361 15 - 16 5/3/1995	BLD4-SB-361 19 - 20 5/3/1995	BLD4-SB-362 5 - 6 5/3/1995	BLD4-SB-362 12 - 13 5/3/1995
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000										
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200										
Mercury														
Mercury	10	840	190000	24										
Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	0 U	0 U	0 U	9.9	0 U	0 U	0 U	0 U	0 U	0 U
Chromium				1400	32.9	371	288	734	16.4	19.3	61.1	78.7	25.7	33.6
Copper	36000	100000	190000	41000										
Hexavalent Chromium	190	420	190000	200	14	300	240	390	0 U	7	43	200	5	32
Lead	450	1000	190000	800										
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	253	73	46	223	44	40	85	52	24	57
pH														
pH														
Synthetic Precipitation Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Synthetic Precipitation Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Total Solids														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-360 6 - 7 5/3/1995	BLD4-SB-360 12 - 13 5/3/1995	BLD4-SB-360 15 - 16 5/3/1995	BLD4-SB-360 20 - 21 5/3/1995	BLD4-SB-361 5 - 6 5/3/1995	BLD4-SB-361 9 - 10 5/3/1995	BLD4-SB-361 15 - 16 5/3/1995	BLD4-SB-361 19 - 20 5/3/1995	BLD4-SB-362 5 - 6 5/3/1995	BLD4-SB-362 12 - 13 5/3/1995
Percent Solids														
Total Dissolved Solids														
Volatile Organic Compound														
1,1,1-Trichloroethane	20	10000	10000	39000										
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9										
1,1,2-Trichloroethane	0.5	100	120	5.5										
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000										
1,1-Dichloroethane	11	1000	1200	17										
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
1,2-Dichloropropane	0.5	160	180	4.7										
1,3-Dichloropropene	2.6	410	470	8.4										
2-Chloroethyl Vinyl Ether														
Benzene	0.5	210	240	5.6										
Bromodichloromethane	10	45	51	1.4										
Bromoform	10	1500	1700	220										
Bromomethane	1	270	300	35										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chlorodibromomethane	10	61	70	3.4										
Chloroethane	90	10000	10000	62000										
Chloroform	10	17	19	1.5										
Chloromethane	0.3	920	1000	510										
Ethylbenzene	70	10000	10000	29										
Methylene chloride	0.5	3500	4000	54										
Tetrachloroethene	0.5	1500	3300	2.7										
Toluene	100	10000	10000	46000										
trans-1,2-Dichloroethene	10	3700	4300	500										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-362 17 - 18 5/3/1995	BLD4-SB-362 21 - 22 5/3/1995	BLD4-SB-363 4 - 5 5/3/1995	BLD4-SB-363 9 - 11 5/3/1995	BLD4-SB-363 12 - 13 5/3/1995	BLD4-SB-363 16.5 - 17.5 5/3/1995	BLD4-SB-364 5 - 6 5/3/1995	BLD4-SB-364 9 - 10 5/3/1995	BLD4-SB-364 14 - 15 5/3/1995	BLD4-SB-364 21 - 22 5/3/1995
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000										
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200										
Mercury														
Mercury	10	840	190000	24										
Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Chromium				1400	32.3	389	17.4	17	22.1	55.1	14.2	17	10.5	12.6
Copper	36000	100000	190000	41000										
Hexavalent Chromium	190	420	190000	200	17	220	0 U	0 U	0 U	41	0 U	0 U	0 U	0 U
Lead	450	1000	190000	800										
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	99	40	24	27	35	73	16	36	136	139
pH														
pH														
Synthetic Precipitation Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Synthetic Precipitation Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Total Solids														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	BLD4-SB-362 17 - 18 5/3/1995	BLD4-SB-362 21 - 22 5/3/1995	BLD4-SB-363 4 - 5 5/3/1995	BLD4-SB-363 9 - 11 5/3/1995	BLD4-SB-363 12 - 13 5/3/1995	BLD4-SB-363 16.5 - 17.5 5/3/1995	BLD4-SB-364 5 - 6 5/3/1995	BLD4-SB-364 9 - 10 5/3/1995	BLD4-SB-364 14 - 15 5/3/1995	BLD4-SB-364 21 - 22 5/3/1995
Percent Solids														
Total Dissolved Solids														
Volatile Organic Compound														
1,1,1-Trichloroethane	20	10000	10000	39000										
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9										
1,1,2-Trichloroethane	0.5	100	120	5.5										
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000										
1,1-Dichloroethane	11	1000	1200	17										
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
1,2-Dichloropropane	0.5	160	180	4.7										
1,3-Dichloropropene	2.6	410	470	8.4										
2-Chloroethyl Vinyl Ether														
Benzene	0.5	210	240	5.6										
Bromodichloromethane	10	45	51	1.4										
Bromoform	10	1500	1700	220										
Bromomethane	1	270	300	35										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chlorodibromomethane	10	61	70	3.4										
Chloroethane	90	10000	10000	62000										
Chloroform	10	17	19	1.5										
Chloromethane	0.3	920	1000	510										
Ethylbenzene	70	10000	10000	29										
Methylene chloride	0.5	3500	4000	54										
Tetrachloroethene	0.5	1500	3300	2.7										
Toluene	100	10000	10000	46000										
trans-1,2-Dichloroethene	10	3700	4300	500										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	CS-101 10 4/27/1995	CS-103 4 4/26/1995	CS-106 8 4/26/1995	CS-108 4 4/22/1995	CS-109 8 4/26/1995	CS-111 4 4/22/1995	CS-114 8 4/22/1995	CS-116 3 4/22/1995	CS-117 8 4/22/1995	CS-119 5 4/22/1995	CS-122 8 4/22/1995	CS-124 5 4/22/1995	CS-125 15 4/22/1995	CS-127 5 4/22/1995
Cyanide, Total																		
Cyanide, Total	200	56000	190000	20000														
Hexavalent Chromium																		
Hexavalent Chromium	190	420	190000	200	1100	2 U	14	2 U	2 U	2 U	40	10	230	9	6	3 U	70	3
Mercury																		
Mercury	10	840	190000	24														
Metal																		
Antimony	27	1100	190000	410														
Arsenic	150	53	190000	1.6														
Barium	8200	190000	190000	190000														
Beryllium	320	5600	190000	2000														
Cadmium	38	210	190000	800	8.3	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.2 U	4	2.3 U	2.5 U	5.2	12.4	2.4 U	2.4 U
Chromium				1400	1320	12.8	56.6	14	14.1	15.3	16.4	31.1	381	26.3	95.1	160	94.9	10.5
Copper	36000	100000	190000	41000														
Hexavalent Chromium	190	420	190000	200														
Lead	450	1000	190000	800														
Mercury	10	840	190000	24														
Nickel	650	56000	190000	20000														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Thallium	14	200	190000	66														
Vanadium	72000	20000	190000	7200														
Zinc	12000	190000	190000	310000	52	27	29	15	19	23	15	27	37	43	85	32	42	24
pH																		
pH																		
Synthetic Precipitation Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Synthetic Precipitation Leaching Procedure - Metal																		
Antimony	27	1100	190000	410														
Arsenic	150	53	190000	1.6														
Beryllium	320	5600	190000	2000														
Cadmium	38	210	190000	800														
Chromium				1400														
Copper	36000	100000	190000	41000														
Lead	450	1000	190000	800														
Nickel	650	56000	190000	20000														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Thallium	14	200	190000	66														
Zinc	12000	190000	190000	310000														
Toxicity Characteristic Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Toxicity Characteristic Leaching Procedure - Metal																		
Arsenic	150	53	190000	1.6														
Barium	8200	190000	190000	190000														
Cadmium	38	210	190000	800														
Chromium				1400														
Lead	450	1000	190000	800														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Total Solids																		

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	CS-101 10 4/27/1995	CS-103 4 4/26/1995	CS-106 8 4/26/1995	CS-108 4 4/22/1995	CS-109 8 4/26/1995	CS-111 4 4/22/1995	CS-114 8 4/22/1995	CS-116 3 4/22/1995	CS-117 8 4/22/1995	CS-119 5 4/22/1995	CS-122 8 4/22/1995	CS-124 5 4/22/1995	CS-125 15 4/22/1995	CS-127 5 4/22/1995
Percent Solids																		
Total Dissolved Solids																		
Volatile Organic Compound																		
1,1,1-Trichloroethane	20	10000	10000	39000														
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9														
1,1,2-Trichloroethane	0.5	100	120	5.5														
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000														
1,1-Dichloroethane	11	1000	1200	17														
1,1-Dichloroethene	0.7	33	38	1100														
1,2-Dichloroethane	0.5	63	73	2.2														
1,2-Dichloropropane	0.5	160	180	4.7														
1,3-Dichloropropene	2.6	410	470	8.4														
2-Chloroethyl Vinyl Ether																		
Benzene	0.5	210	240	5.6														
Bromodichloromethane	10	45	51	1.4														
Bromoform	10	1500	1700	220														
Bromomethane	1	270	300	35														
Carbon Tetrachloride	0.5	110	120	1.3														
Chlorobenzene	10	10000	10000	1500														
Chlorodibromomethane	10	61	70	3.4														
Chloroethane	90	10000	10000	62000														
Chloroform	10	17	19	1.5														
Chloromethane	0.3	920	1000	510														
Ethylbenzene	70	10000	10000	29														
Methylene chloride	0.5	3500	4000	54														
Tetrachloroethene	0.5	1500	3300	2.7														
Toluene	100	10000	10000	46000														
trans-1,2-Dichloroethene	10	3700	4300	500														
Trichloroethene	0.5	970	1100	14														
Vinyl Chloride	0.2	53	220	1.7														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	CS-130 15 4/22/1995	CS-132 5 4/22/1995	*CS-133 8 4/22/1995	CS-135 5 4/22/1995	*CS-138 9.5 4/22/1995	CS-140 3 4/22/1995	CS-141 8 4/22/1995	CS-143 3 4/22/1995	CS-146 3 4/22/1995	CS-148 3 4/22/1995	CS-149 5 4/22/1995	CS-151 3 4/22/1995	CS-233 10 4/26/1995	CS-238 12 4/26/1995
Cyanide, Total																		
Cyanide, Total	200	56000	190000	20000														
Hexavalent Chromium																		
Hexavalent Chromium	190	420	190000	200	250	4	170	2 U	280	2 U	58	7	2 U	2 U	2 U	2 U	3	240
Mercury																		
Mercury	10	840	190000	24														
Metal																		
Antimony	27	1100	190000	410														
Arsenic	150	53	190000	1.6														
Barium	8200	190000	190000	190000														
Beryllium	320	5600	190000	2000														
Cadmium	38	210	190000	800	10.9	2.5 U	2.4 U	2.4 U	2860	3	2140	13.2	2.3 U	2.3 U	2.4 U	2.2 U	2.4	1380
Chromium				1400	318	24	377	16.5	2310	19.7	2220	45.7	25	20.2	13	14.9	14.6	1660
Copper	36000	100000	190000	41000														
Hexavalent Chromium	190	420	190000	200														
Lead	450	1000	190000	800														
Mercury	10	840	190000	24														
Nickel	650	56000	190000	20000														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Thallium	14	200	190000	66														
Vanadium	72000	20000	190000	7200														
Zinc	12000	190000	190000	310000	26	36	32	28	330	32	238	36	28	34	35	17	22	376
pH																		
pH																		
Synthetic Precipitation Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Synthetic Precipitation Leaching Procedure - Metal																		
Antimony	27	1100	190000	410														
Arsenic	150	53	190000	1.6														
Beryllium	320	5600	190000	2000														
Cadmium	38	210	190000	800														
Chromium				1400														
Copper	36000	100000	190000	41000														
Lead	450	1000	190000	800														
Nickel	650	56000	190000	20000														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Thallium	14	200	190000	66														
Zinc	12000	190000	190000	310000														
Toxicity Characteristic Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Toxicity Characteristic Leaching Procedure - Metal																		
Arsenic	150	53	190000	1.6														
Barium	8200	190000	190000	190000														
Cadmium	38	210	190000	800														
Chromium				1400														
Lead	450	1000	190000	800														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Total Solids																		

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	CS-130 15 4/22/1995	CS-132 5 4/22/1995	*CS-133 8 4/22/1995	CS-135 5 4/22/1995	*CS-138 9.5 4/22/1995	CS-140 3 4/22/1995	CS-141 8 4/22/1995	CS-143 3 4/22/1995	CS-146 3 4/22/1995	CS-148 3 4/22/1995	CS-149 5 4/22/1995	CS-151 3 4/22/1995	CS-233 10 4/26/1995	CS-238 12 4/26/1995
Percent Solids																		
Total Dissolved Solids																		
Volatile Organic Compound																		
1,1,1-Trichloroethane	20	10000	10000	39000														
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9														
1,1,2-Trichloroethane	0.5	100	120	5.5														
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000														
1,1-Dichloroethane	11	1000	1200	17														
1,1-Dichloroethene	0.7	33	38	1100														
1,2-Dichloroethane	0.5	63	73	2.2														
1,2-Dichloropropane	0.5	160	180	4.7														
1,3-Dichloropropene	2.6	410	470	8.4														
2-Chloroethyl Vinyl Ether																		
Benzene	0.5	210	240	5.6														
Bromodichloromethane	10	45	51	1.4														
Bromoform	10	1500	1700	220														
Bromomethane	1	270	300	35														
Carbon Tetrachloride	0.5	110	120	1.3														
Chlorobenzene	10	10000	10000	1500														
Chlorodibromomethane	10	61	70	3.4														
Chloroethane	90	10000	10000	62000														
Chloroform	10	17	19	1.5														
Chloromethane	0.3	920	1000	510														
Ethylbenzene	70	10000	10000	29														
Methylene chloride	0.5	3500	4000	54														
Tetrachloroethene	0.5	1500	3300	2.7														
Toluene	100	10000	10000	46000														
trans-1,2-Dichloroethene	10	3700	4300	500														
Trichloroethene	0.5	970	1100	14														
Vinyl Chloride	0.2	53	220	1.7														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	MW-47 0 5/14/1990	*SB-01 7 - 8 4/20/1995	*SB-01 9 - 10 4/20/1995	SB-01 14 - 15 4/20/1995	SB-03 9 - 10 4/20/1995	SB-03 14 - 15 4/20/1995	*SB-06 7 - 8 4/20/1995	SB-08 9 - 10 4/20/1995	SB-08 14 - 15 4/20/1995	SB-09 9 - 10 4/20/1995	SB-09 14 - 15 4/20/1995	SB-11 7 - 8 4/20/1995	*SB-14 7 - 8 4/20/1995	SB-14 9 - 10 4/20/1995
Cyanide, Total																		
Cyanide, Total	200	56000	190000	20000														
Hexavalent Chromium																		
Hexavalent Chromium	190	420	190000	200		1900	3800	1300	3	10	2 U	2 U	2 U	19	80	6	2	3
Mercury																		
Mercury	10	840	190000	24														
Metal																		
Antimony	27	1100	190000	410	10 U													
Arsenic	150	53	190000	1.6	9.3													
Barium	8200	190000	190000	190000														
Beryllium	320	5600	190000	2000	0.5 U													
Cadmium	38	210	190000	800	1 U	8.1					2.5 U					2.3 U	2.2 U	
Chromium				1400	9	2040					25.7					24.5	24.7	
Copper	36000	100000	190000	41000	4													
Hexavalent Chromium	190	420	190000	200														
Lead	450	1000	190000	800	15 U													
Mercury	10	840	190000	24	0.25 U													
Nickel	650	56000	190000	20000	5													
Selenium	26	14000	190000	5100	1 U													
Silver	84	14000	190000	5100	2 U													
Thallium	14	200	190000	66	20 U													
Vanadium	72000	20000	190000	7200														
Zinc	12000	190000	190000	310000	19	21					66					21	18	
pH																		
pH																		
Synthetic Precipitation Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Synthetic Precipitation Leaching Procedure - Metal																		
Antimony	27	1100	190000	410														
Arsenic	150	53	190000	1.6														
Beryllium	320	5600	190000	2000														
Cadmium	38	210	190000	800														
Chromium				1400														
Copper	36000	100000	190000	41000														
Lead	450	1000	190000	800														
Nickel	650	56000	190000	20000														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Thallium	14	200	190000	66														
Zinc	12000	190000	190000	310000														
Toxicity Characteristic Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Toxicity Characteristic Leaching Procedure - Metal																		
Arsenic	150	53	190000	1.6														
Barium	8200	190000	190000	190000														
Cadmium	38	210	190000	800														
Chromium				1400														
Lead	450	1000	190000	800														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Total Solids																		

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	MW-47 0 5/14/1990	*SB-01 7 - 8 4/20/1995	*SB-01 9 - 10 4/20/1995	SB-01 14 - 15 4/20/1995	SB-03 9 - 10 4/20/1995	SB-03 14 - 15 4/20/1995	*SB-06 7 - 8 4/20/1995	SB-08 9 - 10 4/20/1995	SB-08 14 - 15 4/20/1995	SB-09 9 - 10 4/20/1995	SB-09 14 - 15 4/20/1995	SB-11 7 - 8 4/20/1995	*SB-14 7 - 8 4/20/1995	SB-14 9 - 10 4/20/1995
Percent Solids																		
Total Dissolved Solids																		
Volatile Organic Compound																		
1,1,1-Trichloroethane	20	10000	10000	39000	0.005 U													
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.005 U													
1,1,2-Trichloroethane	0.5	100	120	5.5	0.005 U													
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000	0.005 U													
1,1-Dichloroethane	11	1000	1200	17	0.005 U													
1,1-Dichloroethene	0.7	33	38	1100	0.005 U													
1,2-Dichloroethane	0.5	63	73	2.2	0.005 U													
1,2-Dichloropropane	0.5	160	180	4.7	0.005 U													
1,3-Dichloropropene	2.6	410	470	8.4	0.005 U													
2-Chloroethyl Vinyl Ether					0.05 U													
Benzene	0.5	210	240	5.6	0.01 U													
Bromodichloromethane	10	45	51	1.4	0.005 U													
Bromoform	10	1500	1700	220	0.01 U													
Bromomethane	1	270	300	35	0.025 U													
Carbon Tetrachloride	0.5	110	120	1.3	0.005 U													
Chlorobenzene	10	10000	10000	1500	0.005 U													
Chlorodibromomethane	10	61	70	3.4	0.01 U													
Chloroethane	90	10000	10000	62000	0.005 U													
Chloroform	10	17	19	1.5	0.005 U													
Chloromethane	0.3	920	1000	510	0.025 U													
Ethylbenzene	70	10000	10000	29	0.005 U													
Methylene chloride	0.5	3500	4000	54	0.01 U													
Tetrachloroethene	0.5	1500	3300	2.7	0.005 U													
Toluene	100	10000	10000	46000	0.01 U													
trans-1,2-Dichloroethene	10	3700	4300	500	0.01 U													
Trichloroethene	0.5	970	1100	14	0.005 U													
Vinyl Chloride	0.2	53	220	1.7	0.005 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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	SB-14 14 - 15 4/20/1995	SB-17 9 - 10 4/20/1995	SB-17 14 - 15 4/20/1995	*SB-19 4 - 5 4/20/1995	SB-24 7 - 8 4/19/1995	*SB-25 9 - 10 4/20/1995	*SB-25 14 - 15 4/20/1995	SB-27 7 - 8 4/20/1995	SB-27 9 - 10 4/20/1995	SB-27 14 - 15 4/20/1995	*SB-29 9 - 10 4/20/1995	*SB-29 14 - 15 4/20/1995	SB-32 7 - 8 4/19/1995	SB-32 9 - 10 4/19/1995
Cyanide, Total																		
Cyanide, Total	200	56000	190000	20000														
Hexavalent Chromium																		
Hexavalent Chromium	190	420	190000	200	2 U	440	52	3 U	240	850	560	11	9	170	200	160	2 U	10
Mercury																		
Mercury	10	840	190000	24														
Metal																		
Antimony	27	1100	190000	410														
Arsenic	150	53	190000	1.6														
Barium	8200	190000	190000	190000														
Beryllium	320	5600	190000	2000														
Cadmium	38	210	190000	800				2.5 U	16.7			2.5 U					2.2 U	
Chromium				1400				18.3	272			38.9					12.9	
Copper	36000	100000	190000	41000														
Hexavalent Chromium	190	420	190000	200														
Lead	450	1000	190000	800														
Mercury	10	840	190000	24														
Nickel	650	56000	190000	20000														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Thallium	14	200	190000	66														
Vanadium	72000	20000	190000	7200														
Zinc	12000	190000	190000	310000				25	50			28					17	
pH																		
pH																		
Synthetic Precipitation Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Synthetic Precipitation Leaching Procedure - Metal																		
Antimony	27	1100	190000	410														
Arsenic	150	53	190000	1.6														
Beryllium	320	5600	190000	2000														
Cadmium	38	210	190000	800														
Chromium				1400														
Copper	36000	100000	190000	41000														
Lead	450	1000	190000	800														
Nickel	650	56000	190000	20000														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Thallium	14	200	190000	66														
Zinc	12000	190000	190000	310000														
Toxicity Characteristic Leaching Procedure - Mercury																		
Mercury	10	840	190000	24														
Toxicity Characteristic Leaching Procedure - Metal																		
Arsenic	150	53	190000	1.6														
Barium	8200	190000	190000	190000														
Cadmium	38	210	190000	800														
Chromium				1400														
Lead	450	1000	190000	800														
Selenium	26	14000	190000	5100														
Silver	84	14000	190000	5100														
Total Solids																		

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	SB-14 14 - 15 4/20/1995	SB-17 9 - 10 4/20/1995	SB-17 14 - 15 4/20/1995	*SB-19 4 - 5 4/20/1995	SB-24 7 - 8 4/19/1995	*SB-25 9 - 10 4/20/1995	*SB-25 14 - 15 4/20/1995	SB-27 7 - 8 4/20/1995	SB-27 9 - 10 4/20/1995	SB-27 14 - 15 4/20/1995	*SB-29 9 - 10 4/20/1995	*SB-29 14 - 15 4/20/1995	SB-32 7 - 8 4/19/1995	SB-32 9 - 10 4/19/1995
Percent Solids																		
Total Dissolved Solids																		
Volatile Organic Compound																		
1,1,1-Trichloroethane	20	10000	10000	39000														
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9														
1,1,2-Trichloroethane	0.5	100	120	5.5														
1,1,2-Trichlorotrifluoroethane	53000	190000	190000	180000														
1,1-Dichloroethane	11	1000	1200	17														
1,1-Dichloroethene	0.7	33	38	1100														
1,2-Dichloroethane	0.5	63	73	2.2														
1,2-Dichloropropane	0.5	160	180	4.7														
1,3-Dichloropropene	2.6	410	470	8.4														
2-Chloroethyl Vinyl Ether																		
Benzene	0.5	210	240	5.6														
Bromodichloromethane	10	45	51	1.4														
Bromoform	10	1500	1700	220														
Bromomethane	1	270	300	35														
Carbon Tetrachloride	0.5	110	120	1.3														
Chlorobenzene	10	10000	10000	1500														
Chlorodibromomethane	10	61	70	3.4														
Chloroethane	90	10000	10000	62000														
Chloroform	10	17	19	1.5														
Chloromethane	0.3	920	1000	510														
Ethylbenzene	70	10000	10000	29														
Methylene chloride	0.5	3500	4000	54														
Tetrachloroethene	0.5	1500	3300	2.7														
Toluene	100	10000	10000	46000														
trans-1,2-Dichloroethene	10	3700	4300	500														
Trichloroethene	0.5	970	1100	14														
Vinyl Chloride	0.2	53	220	1.7														

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 3.16-1
Soils Data Summary - North End of Building 4 - Zinc Plater Area (B4ZP)
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)	SB-32 14 - 15 4/19/1995	*SB-41 7 - 8 4/19/1995	SB-41 9 - 10 4/19/1995	SB-41 14 - 15 4/19/1995	SB-43 9 - 10 4/19/1995	SB-43 14 - 15 4/19/1995	SB-48 9 - 10 4/19/1995	SB-48 14 - 15 4/19/1995	SB-49 9 - 10 4/19/1995	SB-49 14 - 15 4/19/1995	SB-51 4 - 5 4/19/1995	SB-51 9 - 10 4/19/1995	SB-51 14 - 15 4/19/1995
Cyanide, Total																	
Cyanide, Total	200	56000	190000	20000													
Hexavalent Chromium																	
Hexavalent Chromium	190	420	190000	200	7	38	250	140	31	2 U	2 U	3 U	3 U	2 U	2 U	3 U	3 U
Mercury																	
Mercury	10	840	190000	24													
Metal																	
Antimony	27	1100	190000	410													
Arsenic	150	53	190000	1.6													
Barium	8200	190000	190000	190000													
Beryllium	320	5600	190000	2000													
Cadmium	38	210	190000	800		2.4 U									2.3 U		
Chromium				1400		239									13.4		
Copper	36000	100000	190000	41000													
Hexavalent Chromium	190	420	190000	200													
Lead	450	1000	190000	800													
Mercury	10	840	190000	24													
Nickel	650	56000	190000	20000													
Selenium	26	14000	190000	5100													
Silver	84	14000	190000	5100													
Thallium	14	200	190000	66													
Vanadium	72000	20000	190000	7200													
Zinc	12000	190000	190000	310000		30									25		
pH																	
pH																	
Synthetic Precipitation Leaching Procedure - Mercury																	
Mercury	10	840	190000	24													
Synthetic Precipitation Leaching Procedure - Metal																	
Antimony	27	1100	190000	410													
Arsenic	150	53	190000	1.6													
Beryllium	320	5600	190000	2000													
Cadmium	38	210	190000	800													
Chromium				1400													
Copper	36000	100000	190000	41000													
Lead	450	1000	190000	800													
Nickel	650	56000	190000	20000													
Selenium	26	14000	190000	5100													
Silver	84	14000	190000	5100													
Thallium	14	200	190000	66													
Zinc	12000	190000	190000	310000													
Toxicity Characteristic Leaching Procedure - Mercury																	
Mercury	10	840	190000	24													
Toxicity Characteristic Leaching Procedure - Metal																	
Arsenic	150	53	190000	1.6													
Barium	8200	190000	190000	190000													
Cadmium	38	210	190000	800													
Chromium				1400													
Lead	450	1000	190000	800													
Selenium	26	14000	190000	5100													
Silver	84	14000	190000	5100													
Total Solids																	

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Percent Solids																	
Total Dissolved Solids																	
Volatile Organic Compound																	
1,1,1-Trichloroethane	20	10000	10000	39000													
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9													
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