Table 3.12-1
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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)	BLD2-Tank 6 N 5 1/1/2000	SB 521 5 5/1/2000	SB 521 10 5/1/2000	SB 521 15 5/1/2000	SB 522 2 5/1/2000	SB 523 3 5/1/2000	SB 524 5 5/1/2000	SB 524 10 5/1/2000	SB 524 15 5/1/2000	SB 525 5 5/1/2000	SB 525 9 5/1/2000	SB 525 15 5/1/2000	SB 531 4.1 5/1/2000	SB 532 3 5/1/2000	SB 533 3 5/1/2000
Cyanide																			
Cyanide, Total	200	56000	190000	20000	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Cyanide, Total																			
Cyanide, Total	200	56000	190000	20000															
Mercury																			
Mercury	10	840	190000	24															
Metal																			
Antimony	27	1100	190000	410	0 U	1.2	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Arsenic	150	53	190000	1.6	11	19	1.9	18	29	5.1	2.9	2.2	3	25	17	12	5	8.7	7.3
Beryllium	320	5600	190000	2000	1.2	1.2	0 U	0.88	2.2	0.38	0.67	0.67	0.96	2.5	2.9	2.8	0.55	1.8	1.5
Cadmium	38	210	190000	800	0.93	0 U	0 U	0 U	1.2	0.19	0 U	0.23	0.35	1.8	1.3	1.1	0.33	0.76	0.69
Chromium				1400	320	46	9.8	13	19	9.1	19	16	18	36	17	21	15	26	33
Copper	36000	100000	190000	41000	46	20	8.3	15	34	7.7	10	13	30	36	43	28	8.8	26	15
Lead	450	1000	190000	800	75	21	5.5	10	27	5.8	12	13	14	21	25	32	12	36	18
Mercury	10	840	190000	24	0.081	0.087	0 U	0.066	0.099	0.055	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Nickel	650	56000	190000	20000	1500	31	8.3	23	59	11	8.8	13	11	38	56	43	8.8	26	18
Selenium	26	14000	190000	5100	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Silver	84	14000	190000	5100	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Thallium	14	200	190000	66	7.1	16	2.1	7.5	22	4.8	3.3	3.4	4.7	27	22	15	4.4	11	15
Zinc	12000	190000	190000	310000	150	54	24	93	210	38	30	36	29	120	170	120	23	63	54
Total Solids																			
Percent Solids																			
Petroleum Hydrocarbons																			
Petroleum Hydrocarbons (TPH)					28														
Volatile Organic Compound																			
1,1,1-Trichloroethane	20	10000	10000	39000			0 U						2.2		0 U				
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9															
1,1,2-Trichloroethane	0.5	100	120	5.5															
1,1,2-Trichlorofluoromethane	200	10000	10000	3400															
1,1-Dichloroethane	11	1000	1200	17			0 U						0 U		0 U				
1,1-Dichloroethene	0.7	33	38	1100			0 U						0.11		0 U				
1,2-Dichloroethane	0.5	63	73	2.2															
1,2-Dichloropropane	0.5	160	180	4.7															
2-Chloroethyl Vinyl Ether																			
Acrolein	0.012	1.1	1.2	0.68															
Acrylonitrile	0.27	24	28	1.2															
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															
cis-1,3-Dichloropropene	2.6	410	470	8.4															
Ethylbenzene	70	10000	10000	29	0 U														
Methylene chloride	0.5	3500	4000	54															
Tetrachloroethene	0.5	1500	3300	2.7	0 U		0 U						2.8		0 U				
Toluene	100	10000	10000	46000	0 U														

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

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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)	BLD2-Tank 6 N 5 1/1/2000	SB 521 5 5/1/2000	SB 521 10 5/1/2000	SB 521 15 5/1/2000	SB 522 2 5/1/2000	SB 523 3 5/1/2000	SB 524 5 5/1/2000	SB 524 10 5/1/2000	SB 524 15 5/1/2000	SB 525 5 5/1/2000	SB 525 9 5/1/2000	SB 525 15 5/1/2000	SB 531 4.1 5/1/2000	SB 532 3 5/1/2000	SB 533 3 5/1/2000
trans-1,2-Dichloroethene	10	3700	4300	500															
trans-1,3-Dichloropropene	2.6	410	470	8.4															
Trichloroethene	0.5	970	1100	14	0 U		0.21						54		0 U				
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.

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Cyanide														
Cyanide, Total	200	56000	190000	20000	0 U		0 U	0.33						
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000					0.32 U	0.4		0.3 U	0.33 U	
Mercury														
Mercury	10	840	190000	24					0.063 U	0.074	0.061	0.089	0.1	0.07
Metal														
Antimony	27	1100	190000	410	0 U		0 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.3 U	1.3 U
Arsenic	150	53	190000	1.6	13		6.6	5.2	4.5	10	1.1	8.7	9.9	13
Beryllium	320	5600	190000	2000	2.8		0.96	0.44 U	0.75	1.6	0.49 U	0.87	1	0.51 U
Cadmium	38	210	190000	800	1.2		0.36	1.9	0.24	0.12 U	0.12 U	0.76	1.3	2.2
Chromium				1400	25		16	820	180	1100	17	230	320	1700
Copper	36000	100000	190000	41000	37		19	45	19	32	9.7	25	56	54
Lead	450	1000	190000	800	28		20	57	32	52	12	52	95	250
Mercury	10	840	190000	24	0 U		0.066	0.055 U						
Nickel	650	56000	190000	20000	37		25	9300	880	800	11	810	790	11000
Selenium	26	14000	190000	5100	0 U		0 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.3 U	1.3 U
Silver	84	14000	190000	5100	0 U		0 U	0.22 U	0.24 U	0.24 U	0.24 U	0.21 U	0.25 U	0.25 U
Thallium	14	200	190000	66	25		8.3	3.3	1.2	4.8	1.2 U	5.3	9.1	5.1
Zinc	12000	190000	190000	310000	120		96	320	120	290	19	170	160	280
Total Solids														
Percent Solids									77.70%	74.60%	82.10%	84.20%	74.90%	75.80%
Petroleum Hydrocarbons														
Petroleum Hydrocarbons (TPH)								150	37	120	100	77	21	180
Volatile Organic Compound														
1,1,1-Trichloroethane	20	10000	10000	39000		0 U		0.06 U	0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
1,1,2-Trichloroethane	0.5	100	120	5.5					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
1,1,2-Trichlorofluoromethane	200	10000	10000	3400					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
1,1-Dichloroethane	11	1000	1200	17		0 U		0.11	0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
1,1-Dichloroethene	0.7	33	38	1100		0 U		0.06 U	0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
1,2-Dichloroethane	0.5	63	73	2.2					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
1,2-Dichloropropane	0.5	160	180	4.7					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
2-Chloroethyl Vinyl Ether									0.069 U	0.067 U	1.3 U	1.1 U	1.4 U	2.5 U
Acrolein	0.012	1.1	1.2	0.68					0.87 U	0.84 U	0.82 U	0.68 U	0.9 U	1.6 U
Acrylonitrile	0.27	24	28	1.2					0.35 U	0.34 U	0.33 U	0.27 U	0.36 U	0.63 U
Benzene	0.5	210	240	5.6					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.025 J
Bromodichloromethane	10	45	51	1.4					0.027 J	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Bromoform	10	1500	1700	220					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Bromomethane	1	270	300	35					0.069 U	0.067 U	0.23	0.055 U	0.072 U	0.13 U
Carbon Tetrachloride	0.5	110	120	1.3					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Chlorobenzene	10	10000	10000	1500					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Chlorodibromomethane	10	61	70	3.4					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Chloroethane	90	10000	10000	62000					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Chloroform	10	17	19	1.5					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Chloromethane	0.3	920	1000	510					0.069 U	0.067 U	0.021 J	0.055 U	0.072 U	0.13 U
cis-1,3-Dichloropropene	2.6	410	470	8.4					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Ethylbenzene	70	10000	10000	29					0.069 U	0.067 U	0.066 U	0.055 U	0.0089 J	0.13 U
Methylene chloride	0.5	3500	4000	54					0.012 J	0.022 J	0.013 J	0.055 U	0.072 U	0.13 U
Tetrachloroethene	0.5	1500	3300	2.7		0 U		0.17	0.069 U	0.067 U	0.066 U	0.055 U	0.015 J	0.13 U
Toluene	100	10000	10000	46000					0.069 U	0.067 U	0.066 U	0.055 U	0.011 J	0.017 J

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trans-1,2-Dichloroethene	10	3700	4300	500					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
trans-1,3-Dichloropropene	2.6	410	470	8.4					0.069 U	0.067 U	0.066 U	0.055 U	0.072 U	0.13 U
Trichloroethene	0.5	970	1100	14		0 U		0.38	0.069 U	0.067 U	0.066 U	0.034 J	0.072 U	0.13 U
Vinyl Chloride	0.2	53	220	1.7					0.14 U	0.13 U	0.066 U	0.055 U	0.072 U	0.13 U

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