Appendix H-3
Analytical Results for Groundwater
Pierson's Creek Superfund Site
Newark, New Jersey

				Location	GLOBAL METALS		GLOBAL METALS		MW-103		MW-103		MW-103		MW-103		T1-PZ	
				Sample #	GLOBE METALS WELL		LOBE METALS WELL-		MW-103-R1		MW-103-R1-F		MW-103-R2		MW-103-R2-F		T1-PZ-GW	
				Start Depth	1		1		5		5		5		5		5	
				End Depth	11		11		15		15		15		15		6	
				Depth Unit	ft bgs		ft bgs		ft		ft		ft bgs		ft bgs		ft	
				Sample Type	N		N		N		N		N		N		N	
				Parent Sample #														
				Sample Date	12/12/2019		12/12/2019		8/20/2019		8/20/2019		12/9/2019		12/9/2019		8/29/2019	
Method Group	Analyte	CAS #	Units	RI Groundwater Screening Criteria	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
001-VOCs-Piers	1,1,1-Trichloroethane	71-55-6	µg/L	**30**	0.5	U			0.5	U			0.5	U			2.7	
001-VOCs-Piers	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	1	0.5	U			1	U			0.5	U			1	U
001-VOCs-Piers	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/L	20000	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,1,2-Trichloroethane	79-00-5	µg/L	**3**	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,1-Dichloroethane	75-34-3	µg/L	**50**	0.84				0.5	U			0.5	U			5.1	
001-VOCs-Piers	1,1-Dichloroethene	75-35-4	µg/L	**1**	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,2,3-Trichlorobenzene	87-61-6	µg/L	7	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,2,4-Trichlorobenzene	120-82-1	µg/L	9	0.5	U			1	U			0.5	U			1	U
001-VOCs-Piers	1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.02	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,2-Dibromoethane	106-93-4	µg/L	0.03	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,2-Dichlorobenzene	95-50-1	µg/L	600	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,2-Dichloroethane	107-06-2	µg/L	2	0.58				0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,2-Dichloropropane	78-87-5	µg/L	1	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,3-Dichlorobenzene	541-73-1	µg/L	600	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	1,4-Dichlorobenzene	106-46-7	µg/L	75	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	2-Butanone	78-93-3	µg/L	300	5	U			5	U			5	U			5	UJ
001-VOCs-Piers	2-Hexanone	591-78-6	µg/L	40	5	U			5	U			5	U			5	U
001-VOCs-Piers	4-Methyl-2-pentanone	108-10-1	µg/L	6300	5	U			5	U			5	U			5	U
001-VOCs-Piers	Acetone	67-64-1	µg/L	6000	5	U			5	U			5	U			5	U
001-VOCs-Piers	Benzene	71-43-2	µg/L	**1**	0.5	U			0.5	U			0.5	U			0.57	
001-VOCs-Piers	Bromochloromethane	74-97-5	µg/L	83	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Bromodichloromethane	75-27-4	µg/L	1	0.5	U			0.5	U			0.5	U			0.5	UL
001-VOCs-Piers	Bromoform	75-25-2	µg/L	4	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Bromomethane	74-83-9	µg/L	10	0.5	U			1	U			0.5	U			1	UL
001-VOCs-Piers	Carbon Disulfide	75-15-0	µg/L	700	0.5	U			0.5	U			0.5	U			0.5	UL
001-VOCs-Piers	Carbon Tetrachloride	56-23-5	µg/L	1	0.5	U			0.5	U			0.5	U			0.5	UL
001-VOCs-Piers	Chlorobenzene	108-90-7	µg/L	**50**	0.5	U			13	L			7.9				2.7	
001-VOCs-Piers	Chloroethane	75-00-3	µg/L	**5**	0.5	U			0.5	U			0.5	U			1.6	
001-VOCs-Piers	Chloroform	67-66-3	µg/L	**70**	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Chloromethane	74-87-3	µg/L	190	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	cis-1,2-Dichloroethene	156-59-2	µg/L	**70**	0.47	J-			0.5	U			0.5	U			8.6	
001-VOCs-Piers	cis-1,3-Dichloropropene	10061-01-5	µg/L	1	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Cyclohexane	110-82-7	µg/L	13000	0.5	U			0.5	U			0.5	U			0.5	UL
001-VOCs-Piers	Dibromochloromethane	124-48-1	µg/L	1	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Dichlorodifluoromethane	75-71-8	µg/L	1000	0.5	U			0.5	U			0.5	U			0.5	UL

Appendix H-3
Analytical Results for Groundwater
Pierson's Creek Superfund Site
Newark, New Jersey

				Location	GLOBAL METALS		GLOBAL METALS		MW-103		MW-103		MW-103		MW-103		T1-PZ	
				Sample #	GLOBE METALS WELL		LOBE METALS WELL-		MW-103-R1		MW-103-R1-F		MW-103-R2		MW-103-R2-F		T1-PZ-GW	
				Start Depth	1		1		5		5		5		5		5	
				End Depth	11		11		15		15		15		15		6	
				Depth Unit	ft bgs		ft bgs		ft		ft		ft bgs		ft bgs		ft	
				Sample Type	N		N		N		N		N		N		N	
				Parent Sample #														
				Sample Date	12/12/2019		12/12/2019		8/20/2019		8/20/2019		12/9/2019		12/9/2019		8/29/2019	
Method Group	Analyte	CAS #	Units	RI Groundwater Screening Criteria	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
001-VOCs-Piers	Ethylbenzene	100-41-4	µg/L	700	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Isopropylbenzene	98-82-8	µg/L	700	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	m,p-Xylene	179601-23-1	µg/L		0.5	UJ							0.5	U				
001-VOCs-Piers	M,P-XYLENE (SUM OF ISOMERS)	XYLMP	µg/L	1000					0.5	U							0.5	U
001-VOCs-Piers	Methyl acetate	79-20-9	µg/L	7000	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Methyl tert-Butyl Ether	1634-04-4	µg/L	70	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Methylcyclohexane	108-87-2	µg/L	100	0.5	U			0.5	UL			0.5	U			0.5	UL
001-VOCs-Piers	Methylene Chloride	75-09-2	µg/L	**3**	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	o-Xylene	95-47-6	µg/L	1000	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Styrene	100-42-5	µg/L	100	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Tetrachloroethene	127-18-4	µg/L	**1**	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Toluene	108-88-3	µg/L	**600**	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	trans-1,2-Dichloroethene	156-60-5	µg/L	**100**	0.5	UJ			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	trans-1,3-Dichloropropene	10061-02-6	µg/L	1	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Trichloroethene	79-01-6	µg/L	**1**	0.12	J-			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Trichlorofluoromethane	75-69-4	µg/L	2000	0.5	U			0.5	U			0.5	U			0.5	U
001-VOCs-Piers	Vinyl Chloride	75-01-4	µg/L	**1**	0.19	J			0.5	UJ			0.19	J			**1.8**	J
002-SVOCs-Piers	1,1'-Biphenyl	92-52-4	µg/L	400	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	1,2,4,5-Tetrachlorobenzene	95-94-3	µg/L	**1.7**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	1,4-Dioxane	123-91-1	µg/L	**0.4**	2	U			1.9	U			2	U			**7.1**	
002-SVOCs-Piers	2,2'-Oxybis(1-chloropropane)	108-60-1	µg/L	300	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	2,3,4,6-Tetrachlorophenol	58-90-2	µg/L	200	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2,4,5-Trichlorophenol	95-95-4	µg/L	700	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2,4,6-Trichlorophenol	88-06-2	µg/L	20	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2,4-Dichlorophenol	120-83-2	µg/L	20	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2,4-Dimethylphenol	105-67-9	µg/L	100	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2,4-Dinitrophenol	51-28-5	µg/L	40	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	2,4-Dinitrotoluene	121-14-2	µg/L	0.24	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2,6-Dinitrotoluene	606-20-2	µg/L	0.049	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2-Chloronaphthalene	91-58-7	µg/L	600	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2-Chlorophenol	95-57-8	µg/L	40	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2-Methylnaphthalene	91-57-6	µg/L	**30**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2-Methylphenol	95-48-7	µg/L	50	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	2-Nitroaniline	88-74-4	µg/L	190	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	2-Nitrophenol	88-75-5	µg/L	100	5	U			4.8	U			5.1	U			5.4	U

Appendix H-3
Analytical Results for Groundwater
Pierson's Creek Superfund Site
Newark, New Jersey

				Location	GLOBAL METALS		GLOBAL METALS		MW-103		MW-103		MW-103		MW-103		T1-PZ	
				Sample #	GLOBE METALS WELL		LOBE METALS WELL-		MW-103-R1		MW-103-R1-F		MW-103-R2		MW-103-R2-F		T1-PZ-GW	
				Start Depth	1		1		5		5		5		5		5	
				End Depth	11		11		15		15		15		15		6	
				Depth Unit	ft bgs		ft bgs		ft		ft		ft bgs		ft bgs		ft	
				Sample Type	N		N		N		N		N		N		N	
				Parent Sample #														
				Sample Date	12/12/2019		12/12/2019		8/20/2019		8/20/2019		12/9/2019		12/9/2019		8/29/2019	
Method Group	Analyte	CAS #	Units	RI Groundwater Screening Criteria	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
002-SVOCs-Piers	3,3'-Dichlorobenzidine	91-94-1	µg/L	30	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	3-Nitroaniline	99-09-2	µg/L	100	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	4,6-Dinitro-2-methylphenol	534-52-1	µg/L	0.7	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	4-Bromophenyl-phenylether	101-55-3	µg/L	100	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	4-Chloro-3-methylphenol	59-50-7	µg/L	100	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	4-Chloroaniline	106-47-8	µg/L	30	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	4-Chlorophenyl-phenylether	7005-72-3	µg/L	100	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	4-Methylphenol	106-44-5	µg/L	**50**	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	4-Nitroaniline	100-01-6	µg/L	3.8	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	4-Nitrophenol	100-02-7	µg/L	100	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Acenaphthene	83-32-9	µg/L	**400**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Acenaphthylene	208-96-8	µg/L	100	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Acetophenone	98-86-2	µg/L	700	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Anthracene	120-12-7	µg/L	2000	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Atrazine	1912-24-9	µg/L	3	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Benzaldehyde	100-52-7	µg/L	19	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Benzo(a)anthracene	56-55-3	µg/L	**0.1**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Benzo(a)pyrene	50-32-8	µg/L	**0.1**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Benzo(b)fluoranthene	205-99-2	µg/L	**0.2**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Benzo(g,h,i)perylene	191-24-2	µg/L	**100**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Benzo(k)fluoranthene	207-08-9	µg/L	**0.5**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Bis(2-chloroethoxy)methane	111-91-1	µg/L	59	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Bis(2-chloroethyl)ether	111-44-4	µg/L	7	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Bis(2-ethylhexyl)phthalate	117-81-7	µg/L	**3**	5	U			4.8	UJ			5.1	U			5.4	UJ
002-SVOCs-Piers	Butylbenzylphthalate	85-68-7	µg/L	**100**	5	U			4.8	UJ			5.1	U			5.4	UJ
002-SVOCs-Piers	Caprolactam	105-60-2	µg/L	4000	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Carbazole	86-74-8	µg/L	100	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Chrysene	218-01-9	µg/L	**5**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Dibenzo(a,h)anthracene	53-70-3	µg/L	0.3	5	U			4.8	UJ			5.1	U			5.4	UJ
002-SVOCs-Piers	Dibenzofuran	132-64-9	µg/L	**7.9**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Diethylphthalate	84-66-2	µg/L	6000	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Dimethylphthalate	131-11-3	µg/L	100	1.2	J			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Di-n-butylphthalate	84-74-2	µg/L	**700**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Di-n-octylphthalate	117-84-0	µg/L	**100**	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Fluoranthene	206-44-0	µg/L	**300**	10	U			9.5	U			10	U			11	U

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Newark, New Jersey

				Location	GLOBAL METALS		GLOBAL METALS		MW-103		MW-103		MW-103		MW-103		T1-PZ	
				Sample #	GLOBE METALS WELL		LOBE METALS WELL-		MW-103-R1		MW-103-R1-F		MW-103-R2		MW-103-R2-F		T1-PZ-GW	
				Start Depth	1		1		5		5		5		5		5	
				End Depth	11		11		15		15		15		15		6	
				Depth Unit	ft bgs		ft bgs		ft		ft		ft bgs		ft bgs		ft	
				Sample Type	N		N		N		N		N		N		N	
				Parent Sample #														
				Sample Date	12/12/2019		12/12/2019		8/20/2019		8/20/2019		12/9/2019		12/9/2019		8/29/2019	
Method Group	Analyte	CAS #	Units	RI Groundwater Screening Criteria	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
002-SVOCs-Piers	Fluorene	86-73-7	µg/L	300	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Hexachlorobenzene	118-74-1	µg/L	0.02	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Hexachlorobutadiene	87-68-3	µg/L	1	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Hexachlorocyclopentadiene	77-47-4	µg/L	40	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Hexachloroethane	67-72-1	µg/L	7	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	**0.2**	5	U			4.8	UJ			5.1	U			5.4	UJ
002-SVOCs-Piers	Isophorone	78-59-1	µg/L	40	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Naphthalene	91-20-3	µg/L	**300**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Nitrobenzene	98-95-3	µg/L	6	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	N-Nitroso-di-n-propylamine	621-64-7	µg/L	10	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	N-Nitrosodiphenylamine	86-30-6	µg/L	**10**	3.1	J			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Pentachlorophenol	87-86-5	µg/L	**0.3**	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Phenanthrene	85-01-8	µg/L	**100**	5	U			4.8	U			5.1	U			5.4	U
002-SVOCs-Piers	Phenol	108-95-2	µg/L	2000	10	U			9.5	U			10	U			11	U
002-SVOCs-Piers	Pyrene	129-00-0	µg/L	**200**	5	U			4.8	U			5.1	U			5.4	U
003-Pest-Piers	4,4'-DDD	72-54-8	µg/L	**0.1**	0.1	U			0.097	U			0.1	U			0.11	U
003-Pest-Piers	4,4'-DDE	72-55-9	µg/L	**0.1**	0.1	U			0.0049	J			0.1	U			0.11	U
003-Pest-Piers	4,4'-DDT	50-29-3	µg/L	**0.1**	0.1	U			0.097	U			0.1	U			0.11	U
003-Pest-Piers	Aldrin	309-00-2	µg/L	**0.04**	0.05	U			0.049	U			0.05	U			0.053	U
003-Pest-Piers	alpha-BHC	319-84-6	µg/L	**0.02**	0.05	U			0.049	U			0.05	U			**0.025**	J
003-Pest-Piers	alpha-Chlordane	5103-71-9	µg/L	**0.5**	0.05	U			0.049	U			0.05	U			0.053	U
003-Pest-Piers	beta-BHC	319-85-7	µg/L	**0.04**	0.05	U			0.049	U			0.05	U			0.053	U
003-Pest-Piers	delta-BHC	319-86-8	µg/L	**5**	0.05	U			0.0026	J			0.05	U			0.053	U
003-Pest-Piers	Dieldrin	60-57-1	µg/L	**0.03**	0.1	U			0.097	U			0.1	U			0.11	U
003-Pest-Piers	Endosulfan I	959-98-8	µg/L	40	0.05	U			0.049	U			0.05	U			0.053	U
003-Pest-Piers	Endosulfan II	33213-65-9	µg/L	40	0.1	U			0.097	U			0.1	U			0.11	UJ
003-Pest-Piers	Endosulfan Sulfate	1031-07-8	µg/L	**40**	0.1	U			0.0037	J			0.1	U			0.11	U
003-Pest-Piers	Endrin	72-20-8	µg/L	**2**	0.1	U			0.097	U			0.1	U			0.11	U
003-Pest-Piers	Endrin aldehyde	7421-93-4	µg/L	100	0.1	U			0.097	U			0.1	U			0.11	U
003-Pest-Piers	Endrin Ketone	53494-70-5	µg/L	100	0.1	U			0.097	U			0.1	U			0.11	U
003-Pest-Piers	gamma-BHC (Lindane)	58-89-9	µg/L	**0.03**	0.05	U			0.049	U			0.05	U			0.053	U
003-Pest-Piers	gamma-Chlordane	5103-74-2	µg/L	**0.5**	0.05	U			0.049	U			0.05	U			0.053	U
003-Pest-Piers	Heptachlor	76-44-8	µg/L	**0.05**	0.05	U			0.049	U			0.05	U			0.053	U
003-Pest-Piers	Heptachlor Epoxide	1024-57-3	µg/L	**0.2**	0.05	U			0.049	U			0.05	U			0.0036	J
003-Pest-Piers	Methoxychlor	72-43-5	µg/L	**40**	0.5	U			0.49	U			0.5	U			0.53	U

Appendix H-3
Analytical Results for Groundwater
Pierson's Creek Superfund Site
Newark, New Jersey

				Location	GLOBAL METALS		GLOBAL METALS		MW-103		MW-103		MW-103		MW-103		T1-PZ	
				Sample #	GLOBE METALS WELL		LOBE METALS WELL-		MW-103-R1		MW-103-R1-F		MW-103-R2		MW-103-R2-F		T1-PZ-GW	
				Start Depth	1		1		5		5		5		5		5	
				End Depth	11		11		15		15		15		15		6	
				Depth Unit	ft bgs		ft bgs		ft		ft		ft bgs		ft bgs		ft	
				Sample Type	N		N		N		N		N		N		N	
				Parent Sample #														
				Sample Date	12/12/2019		12/12/2019		8/20/2019		8/20/2019		12/9/2019		12/9/2019		8/29/2019	
Method Group	Analyte	CAS #	Units	RI Groundwater Screening Criteria	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
003-Pest-Piers	Toxaphene	8001-35-2	µg/L	2	5	U			4.9	U			5	U			5.3	U
005-Aroclors-Piers	Aroclor 1016	12674-11-2	µg/L	0.5	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1221	11104-28-2	µg/L	0.5	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1232	11141-16-5	µg/L	0.5	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1242	53469-21-9	µg/L	**0.5**	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1248	12672-29-6	µg/L	0.5	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1254	11097-69-1	µg/L	0.5	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1260	11096-82-5	µg/L	**0.5**	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1262	37324-23-5	µg/L	0.5	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Aroclor 1268	11100-14-4	µg/L	0.5	1	U			0.97	U			1	U			1.1	U
005-Aroclors-Piers	Total Aroclors	TARO	µg/L	**0.5**	0	U			0	U			0	U			0	U
011-Inorganics-Piers	Aluminum	7429-90-5	µg/L	**200**	47.6		20	U	**240**		**240**		31.6		20	U	**680**	
011-Inorganics-Piers	Antimony	7440-36-0	µg/L	6	2	U	2	U	20	U	20	U	2	U	2	U	20	U
011-Inorganics-Piers	Arsenic	7440-38-2	µg/L	**3**	**5010**		**5070**		**8.8**		8	U	**4.3**		**3.7**		**46**	
011-Inorganics-Piers	Barium	7440-39-3	µg/L	2000	43.5		43.4		1500		1500		1490		1480		240	
011-Inorganics-Piers	Beryllium	7440-41-7	µg/L	1	1	U	1	U	3	U	3	U	1	U	1	U	3	U
011-Inorganics-Piers	Cadmium	7440-43-9	µg/L	**4**	1	U	1	U	3	U	3	U	1	U	1	U	3	U
011-Inorganics-Piers	Calcium	7440-70-2	µg/L		103000		107000		140000		140000		163000		156000		120000	
011-Inorganics-Piers	Chromium	7440-47-3	µg/L	**70**	1.5	J	1	J	5	U	5	U	4.3		4.9		5	U
011-Inorganics-Piers	Cobalt	7440-48-4	µg/L	100	0.58	J	0.51	J	20	U	20	U	0.45	J	0.47	J	20	U
011-Inorganics-Piers	Copper	7440-50-8	µg/L	1300	1.9	J	0.48	J	10	U	10	U	4.3		0.99	J	12	
011-Inorganics-Piers	Cyanide	57-12-5	µg/L	100	10	U			10	U			10	U			10	U
011-Inorganics-Piers	Iron	7439-89-6	µg/L	**300**	**42000**		**42600**		**3200**		**3100**		**4910**		**5160**		**2300**	
011-Inorganics-Piers	Lead	7439-92-1	µg/L	**5**	3		1	U	8	U	8	U	2.2		1	U	**11**	
011-Inorganics-Piers	Magnesium	7439-95-4	µg/L		18100		18400		15000		15000		18700		19400		140000	
011-Inorganics-Piers	Manganese	7439-96-5	µg/L	**50**	**601**		**611**		**220**		**220**		**317**		**344**		**450**	
011-Inorganics-Piers	Mercury	7439-97-6	µg/L	**2**	0.05	U	0.05	U	0.2	U	0.2	U	0.05	U	0.05	U	0.71	
011-Inorganics-Piers	Nickel	7440-02-0	µg/L	**100**	3.6		3.5		20	U	20	U	22		20.7		20	U
011-Inorganics-Piers	Potassium	7440-09-7	µg/L		17500		17200		17000		17000		14800		15600		57000	
011-Inorganics-Piers	Selenium	7782-49-2	µg/L	40	5	U	5	U	20	U	20	U	5	U	5	U	20	U
011-Inorganics-Piers	Silver	7440-22-4	µg/L	40	1	U	1	U	5	U	5	U	1	U	1	U	5	U
011-Inorganics-Piers	Sodium	7440-23-5	µg/L	**50000**	**104000**		**107000**		**180000**		**180000**		**200000**		**183000**		**1300000**	
011-Inorganics-Piers	Thallium	7440-28-0	µg/L	2	1	U	1	U	20	U	20	U	1	U	1	U	20	U
011-Inorganics-Piers	Vanadium	7440-62-2	µg/L	86	0.66	J	0.59	J	20	U	20	U	5	U	5	U	20	U
011-Inorganics-Piers	Zinc	7440-66-6	µg/L	**2000**	20.4		16.4		20	U	20	U	6.2		1.2	J	57	

Appendix H-3
Analytical Results for Groundwater
Pierson's Creek Superfund Site
Newark, New Jersey

				Location	GLOBAL METALS		GLOBAL METALS		MW-103		MW-103		MW-103		MW-103		T1-PZ	
				Sample #	GLOBE METALS WELL		LOBE METALS WELL-		MW-103-R1		MW-103-R1-F		MW-103-R2		MW-103-R2-F		T1-PZ-GW	
				Start Depth	1		1		5		5		5		5		5	
				End Depth	11		11		15		15		15		15		6	
				Depth Unit	ft bgs		ft bgs		ft		ft		ft bgs		ft bgs		ft	
				Sample Type	N		N		N		N		N		N		N	
				Parent Sample #														
				Sample Date	12/12/2019		12/12/2019		8/20/2019		8/20/2019		12/9/2019		12/9/2019		8/29/2019	
Method Group	Analyte	CAS #	Units	RI Groundwater Screening Criteria	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
014-General Chemistr	Alkalinity Bicarbonate	71-52-3	mg/L						750								310	
014-General Chemistr	ALKALINITY, BICARBONATE (AS CACO3)	ALKB	mg/L		220								850					
014-General Chemistr	Ammonia	7664-41-7	mg/L		1.8				2.4				4.2				5.7	
014-General Chemistr	Chloride	16887-00-6	mg/L		140				110				180				3200	
014-General Chemistr	Dissolved Organic Carbon	DOC	mg/L		10				7.2				8.9				9.7	
014-General Chemistr	Nitrate + Nitrite [As N]	NN	mg/L		0.05	U			0.05	U			0.05	U			0.064	
014-General Chemistr	Particulate Organic Carbon	PAROC	µg/L		2500				1100				2900				1600	
014-General Chemistr	Phosphorus	7723-14-0	mg/L		0.16				0.584				0.557				1.31	
014-General Chemistr	Sulfate	14808-79-8	mg/L		250				2.3				1	U			420	
014-General Chemistr	Total Alkalinity	ALK	mg/L		220								850					
014-General Chemistr	Total Dissolved Solids	TDS	mg/L		860				1100				1200				5700	
014-General Chemistr	Total Organic Carbon	TOC	mg/L		9.5				8.6				10				11	
014-General Chemistr	Total Suspended Solids	TSS	mg/L		57				10	U			13				13	

Notes:
1. Results that are greater than the RI groundwater screening criteria are highlighted yellow.

Acronyms:
FD - field duplicate
ft - feet
ft bgs - feet below ground surface
J - estimated
J+ - estimated, biased high
J- estimated, biased low
J-EMPC - estimated maximum possible concentration
mg/L - milligram per liter
N - normal
Q - qualifier
R - rejected
RI - remedial investigation
U - nondetect
UJ - nondetect, estimated
µg/L - microgram per liter