Table 1
1H2018 Pond 287 Surface Water Validated Data
American Cyanamid Superfund Site
Bridgewater Township, New Jersey

		Sample ID	FP-P287-01-SW			FP-P287-02-SW			FP-P287-03-SW			FP-P287-04-SW			FP-P287-05-SW			FP-P287-05-SW		
		Sample Date	4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018		
		N=Normal; FD=Field Duplicate	N			N			N			N			FD			N		
Parameter	Units	NJ GWQS[1]	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Volatile Organic Compounds																				
1,1,1-Trichloroethane	ug/L	30	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1,2,2-Tetrachloroethane	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1,2-Trichloroethane	ug/L	3	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1-Dichloroethane	ug/L	50	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1-Dichloroethene	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2,3-Trichloropropane	ug/L	0.03	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03
1,2,4-Trichlorobenzene	ug/L	9	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2-Dibromo-3-chloropropane	ug/L	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02
1,2-Dibromoethane	ug/L	0.03	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02
1,2-Dichlorobenzene	ug/L	600	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2-Dichloroethane	ug/L	2	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2-Dichloroethene, Total	ug/L	NS	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
1,2-Dichloropropane	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,3,5-Trimethylbenzene	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,3-Dichlorobenzene	ug/L	600	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,4-Dichlorobenzene	ug/L	75	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,4-Dioxane	ug/L	0.4	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4
2-Butanone	ug/L	300	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
2-Chlorotoluene	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
2-Hexanone	ug/L	40	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
2-Nitropropane	ug/L	NS	< 2	UJ	2	< 2	UJ	2	< 2	UJ	2	< 2	UJ	2	< 2	UJ	2	< 2	UJ	2
4-Chlorotoluene	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
4-Methyl-2-pentanone	ug/L	NS	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
Acetone	ug/L	6000	11		5	12		5	< 5.5	U	5.5	25		5	< 7.5	U	7.5	< 7	U	7
Acetonitrile	ug/L	100	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10
Acrolein	ug/L	5	3	J	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Acrylonitrile	ug/L	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Benzene	ug/L	1	**4.2**		1	**4.6**		1	0.91	J	1	**8.7**		1	**1.7**		1	**1.8**		1
Bromochloromethane	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Bromodichloromethane	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Bromoform	ug/L	4	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Bromomethane	ug/L	10	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Carbon Disulfide	ug/L	700	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Carbon Tetrachloride	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chlorobenzene	ug/L	50	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chloroethane	ug/L	5	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chloroform	ug/L	70	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chloromethane	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
cis-1,2-Dichloroethene	ug/L	70	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1

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		Sample Date	4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018		
		N=Normal; FD=Field Duplicate	N			N			N			N			FD			N		
Parameter	Units	NJ GWQS[1]	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
cis-1,3-Dichloropropene	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Cyclohexane	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Dibromochloromethane	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Dichlorodifluoromethane	ug/L	1000	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Diethyl Ether	ug/L	1000	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Ethyl Acetate	ug/L	6000	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Ethyl Acrylate	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Ethylbenzene	ug/L	700	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Freon 113	ug/L	20000	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Isopropyl Ether	ug/L	20000	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Isopropylbenzene	ug/L	700	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
m,p-Xylenes	ug/L	1000	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Methyl Acetate	ug/L	7000	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
Methyl Cyclohexane	ug/L	NS	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Methyl tert-Butyl Ether	ug/L	70	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Methylacrylonitrile	ug/L	NS	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10
Methylene Chloride	ug/L	3	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
o-Xylene	ug/L	1000	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Styrene	ug/L	100	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Tetrachloroethene	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Toluene	ug/L	600	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
trans-1,2-Dichloroethene	ug/L	100	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
trans-1,3-Dichloropropene	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Trichloroethene	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Trichlorofluoromethane	ug/L	2000	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Vinyl Chloride	ug/L	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Xylenes, Total	ug/L	1000	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Semivolatile Organic Compounds																				
1,2,4,5-Tetrachlorobenzene	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
1,4-Benzenediol	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
1,4-Naphthoquinone	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
1-Chloro-2-nitrobenzene	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2,3,4,6-Tetrachlorophenol	ug/L	200	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4,5-Trichlorophenol	ug/L	700	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4,6-Trichlorophenol	ug/L	20	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4-Dichlorophenol	ug/L	20	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4-Dimethylphenol	ug/L	100	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4-Dinitrophenol	ug/L	40	< 33	R	33	< 34	U	34	< 33	U	33	< 33	U	33	< 34	U	34	< 34	U	34
2,4-Dinitrotoluene	ug/L	10	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2,6-Dinitrotoluene	ug/L	10	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11

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		Sample ID	FP-P287-01-SW			FP-P287-02-SW			FP-P287-03-SW			FP-P287-04-SW			FP-P287-05-SW			FP-P287-05-SW		
		Sample Date	4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018		
		N=Normal; FD=Field Duplicate	N			N			N			N			FD			N		
Parameter	Units	NJ GWQS[1]	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
2-Chloroaniline	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2-Chloronaphthalene	ug/L	600	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2-Chlorophenol	ug/L	40	< 11	R	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2-Methylnaphthalene	ug/L	30	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2-Methylphenol	ug/L	50	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
2-Nitroaniline	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2-Nitrophenol	ug/L	NS	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
3,3'-Dichlorobenzidine	ug/L	30	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
3-Nitroaniline	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
4,6-Dinitro-2-methylphenol	ug/L	0.7	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1
4-Aminodiphenyl	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
4-Bromophenyl Phenyl Ether	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
4-Chloro-3-methylphenol	ug/L	100	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
4-Chloroaniline	ug/L	30	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
4-Chlorophenyl-phenylether	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
4-Nitroaniline	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
4-Nitrophenol	ug/L	NS	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Acenaphthene	ug/L	400	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Acenaphthylene	ug/L	100	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Acetophenone	ug/L	700	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Aniline	ug/L	6	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Anthracene	ug/L	2000	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Atrazine	ug/L	3	< 3.3	U	3.3	< 3.4	U	3.4	< 3.3	U	3.3	< 3.3	U	3.3	< 3.4	U	3.4	< 3.4	U	3.4
Azobenzene	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Benzaldehyde	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Benzidine	ug/L	20	< 22	U	22	< 23	U	23	< 22	U	22	< 22	U	22	< 22	U	22	< 23	U	23
Benzo[a]anthracene	ug/L	0.1	< 0.11	UJ	0.11	< 0.11	UJ	0.11	< 0.11	UJ	0.11	< 0.11	UJ	0.11	< 0.11	UJ	0.11	< 0.11	UJ	0.11
Benzo[a]pyrene	ug/L	0.1	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	U	0.11
Benzo[b]fluoranthene	ug/L	0.2	< 0.22	UJ	0.22	< 0.23	UJ	0.23	< 0.22	UJ	0.22	< 0.22	UJ	0.22	< 0.22	UJ	0.22	< 0.23	UJ	0.23
Benzo[g,h,i]perylene	ug/L	100	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Benzo[k]fluoranthene	ug/L	0.5	0.059	J	0.22	< 0.23	U	0.23	< 0.22	U	0.22	0.072	J	0.22	< 0.22	U	0.22	< 0.23	U	0.23
Benzoic Acid	ug/L	30000	< 33	U	33	< 34	U	34	< 33	U	33	< 33	U	33	< 34	U	34	< 34	U	34
Benzyl Alcohol	ug/L	2000	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Biphenyl	ug/L	400	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Bis(2-chloroethoxy)methane	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Bis(2-chloroethyl) Ether	ug/L	7	< 7.7	U	7.7	< 7.9	U	7.9	< 7.8	U	7.8	< 7.7	U	7.7	< 7.9	U	7.9	< 8	U	8
Bis(2-chloroisopropyl) Ether	ug/L	300	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Bis(2-ethylhexyl) Phthalate	ug/L	3	< 3.3	U	3.3	< 3.4	U	3.4	< 3.3	U	3.3	< 3.3	U	3.3	**3.2**	J	3.4	< 3.4	U	3.4
Butylbenzyl Phthalate	ug/L	100	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Caprolactum	ug/L	4000	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11

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		N=Normal; FD=Field Duplicate	N			N			N			N			FD			N		
Parameter	Units	NJ GWQS[1]	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Carbazole	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Catechol	ug/L	NS	< 11	R	11	< 11	R	11	< 11	R	11	< 11	R	11	< 11	R	11	< 11	R	11
Chrysene	ug/L	5	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Dibenzo[a,h]anthracene	ug/L	0.3	< 0.22	U	0.22	< 0.23	U	0.23	< 0.22	U	0.22	< 0.22	U	0.22	< 0.22	U	0.22	< 0.23	U	0.23
Dibenzofuran	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Diethyl Phthalate	ug/L	6000	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Dimethyl Phthalate	ug/L	100	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Di-n-Butyl Phthalate	ug/L	700	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Di-n-octyl Phthalate	ug/L	100	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Diphenylamine	ug/L	200	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Fluoranthene	ug/L	300	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Fluorene	ug/L	300	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Hexachlorobenzene	ug/L	0.02	< 0.022	U	0.022	< 0.023	U	0.023	< 0.022	U	0.022	< 0.022	U	0.022	< 0.022	U	0.022	< 0.023	U	0.023
Hexachlorobutadiene	ug/L	1	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1
Hexachlorocyclopentadiene	ug/L	40	< 22	U	22	< 23	U	23	< 22	U	22	< 22	U	22	< 22	U	22	< 23	U	23
Hexachloroethane	ug/L	7	< 7.7	U	7.7	< 7.9	U	7.9	< 7.8	U	7.8	< 7.7	U	7.7	< 7.9	U	7.9	< 8	U	8
Indeno[1,2,3-cd]pyrene	ug/L	0.2	< 0.22	U	0.22	< 0.23	U	0.23	< 0.22	U	0.22	< 0.22	U	0.22	< 0.22	U	0.22	< 0.23	U	0.23
Isophorone	ug/L	40	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	0.15	J	11	< 11	UJ	11	< 11	UJ	11
m,p-Cresol	ug/L	NS	< 22	R	22	< 23	U	23	< 22	U	22	< 22	U	22	< 22	U	22	< 23	U	23
Naphthalene	ug/L	300	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Nitrobenzene	ug/L	6	< 6.6	UJ	6.6	< 6.8	UJ	6.8	< 6.7	UJ	6.7	0.15	J	6.6	< 6.7	UJ	6.7	< 6.8	UJ	6.8
Nitrosomethylethylamine	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosodiethylamine	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosodimethylamine	ug/L	0.8	< 0.88	U	0.88	< 0.91	U	0.91	< 0.89	U	0.89	< 0.88	U	0.88	< 0.9	U	0.9	< 0.91	U	0.91
N-Nitroso-di-n-butylamine	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitroso-di-n-propylamine	ug/L	10	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosodiphenylamine	ug/L	10	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
N-Nitrosomorpholine	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosopiperidine	ug/L	NS	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosopyrrolidine	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
o-Toluidine	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Pentachlorobenzene	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Pentachlorophenol	ug/L	0.3	< 0.33	U	0.33	< 0.34	U	0.34	< 0.33	U	0.33	< 0.33	U	0.33	**0.37**		0.34	< 0.34	U	0.34
Phenanthrene	ug/L	100	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Phenol	ug/L	2000	< 11	R	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Pyrene	ug/L	200	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Pyridine	ug/L	NS	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11	< 11	U	11
Total Metals																				
Aluminum	ug/L	200	**2240**		40	**637**		40	**425**		40	**1250**		40	**423**		40	**382**		40
Antimony	ug/L	6	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2

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1H2018 Pond 287 Surface Water Validated Data
American Cyanamid Superfund Site
Bridgewater Township, New Jersey

		Sample ID	FP-P287-01-SW			FP-P287-02-SW			FP-P287-03-SW			FP-P287-04-SW			FP-P287-05-SW			FP-P287-05-SW		
		Sample Date	4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018		
		N=Normal; FD=Field Duplicate	N			N			N			N			FD			N		
Parameter	Units	NJ GWQS[1]	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Arsenic	ug/L	3	3		2	1.7	J	2	1.6	J	2	2.2		2	1.7	J	2	1.5	J	2
Barium	ug/L	6000	78.6		4	56		4	50.4		4	63.6		4	54.4		4	50		4
Beryllium	ug/L	1	0.36	J	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8
Cadmium	ug/L	4	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Calcium	ug/L	NS	16700		200	15900		200	16600		200	16400		200	17900		200	16400		200
Chromium	ug/L	70	9.5		4	1.6	J	4	< 4	U	4	3.2	J	4	< 4	U	4	< 4	U	4
Cobalt	ug/L	100	5.7		4	3.2	J	4	5.1		4	4		4	5.7		4	5.3		4
Copper	ug/L	1300	29.4		4	11.1		4	13.7		4	14.2		4	16.3	J	4	10.4	J	4
Iron	ug/L	300	**8350**		120	**3440**		120	**3630**		120	**5280**		120	**4200**		120	**3810**		120
Lead	ug/L	5	**9.4**		1.2	2.1		1.2	1.8		1.2	4.1		1.2	2.1		1.2	1.6		1.2
Magnesium	ug/L	NS	7000		200	6400		200	6530		200	6680		200	7060		200	6420		200
Manganese	ug/L	50	**1310**		8	**1120**		8	**1410**		8	**1180**		8	**1540**		8	**1390**		8
Mercury	ug/L	2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2
Nickel	ug/L	100	16.6		4	8.8		4	12.4		4	10.6		4	13.3		4	12.2		4
Potassium	ug/L	NS	3440		200	3330		200	2960		200	3380		200	3240		200	2920		200
Selenium	ug/L	40	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10
Silver	ug/L	40	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Sodium	ug/L	50000	30000		200	29900		200	28200		200	30100		200	30800		200	27900		200
Thallium	ug/L	2	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8
Vanadium	ug/L	NS	6		4	2	J	4	1.4	J	4	3.5	J	4	1.4	J	4	1.2	J	4
Zinc	ug/L	2000	26.4		16	10.7	J	16	24.7		16	14.8	J	16	27.4		16	21.6		16
Dissolved Metals																				
Aluminum	ug/L	200	48		40	< 40	U	40	77.6		40	18.3	J	40	82.7		40	85.7		40
Antimony	ug/L	6	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Arsenic	ug/L	3	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Barium	ug/L	6000	48.3		4	48.1		4	48.6		4	47.8		4	46.8		4	47.5		4
Beryllium	ug/L	1	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8
Cadmium	ug/L	4	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Calcium	ug/L	NS	16400		200	15300		200	16800		200	14800		200	16200		200	16200		200
Chromium	ug/L	70	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Cobalt	ug/L	100	3.1	J	4	2.4	J	4	4.8		4	2.4	J	4	4.6		4	4.7		4
Copper	ug/L	1300	4.2		4	2.4	J	4	4.7		4	2.7	J	4	4.4		4	4.6		4
Iron	ug/L	300	261		120	< 120	U	120	< 120	U	120	< 120	U	120	< 120	U	120	< 120	U	120
Lead	ug/L	5	< 1.2	U	1.2	< 1.2	U	1.2	< 1.2	U	1.2	< 1.2	U	1.2	< 1.2	U	1.2	< 1.2	U	1.2
Magnesium	ug/L	NS	6480		200	6110		200	6710		200	5910		200	6470		200	6500		200
Manganese	ug/L	50	**1180**		8	**1080**		8	**1470**		8	**1050**		8	**1410**		8	**1430**		8
Mercury	ug/L	2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2
Nickel	ug/L	100	9.7		4	6.3		4	11.9		4	6.1		4	10.4		4	10.7		4
Potassium	ug/L	NS	3160		200	3120		200	3020		200	3010		200	2930		200	2950		200
Selenium	ug/L	40	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10

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		Sample ID	FP-P287-01-SW			FP-P287-02-SW			FP-P287-03-SW			FP-P287-04-SW			FP-P287-05-SW			FP-P287-05-SW		
		Sample Date	4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018			4/26/2018		
		N=Normal; FD=Field Duplicate	N			N			N			N			FD			N		
Parameter	Units	NJ GWQS[1]	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Silver	ug/L	40	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Sodium	ug/L	50000	26100		200	28400		200	28700		200	26900		200	26000		200	26400		200
Thallium	ug/L	2	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8
Vanadium	ug/L	NS	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Zinc	ug/L	2000	7.6	J	16	< 16	U	16	20.9		16	< 16	U	16	19.8		16	20.3		16
General Parameters																				
Hardness	mg/L	NS	68		5	66		5	76		5	66		5	76		5	74		5
Total Suspended Solids	mg/L	NS	46.4		1.6	111		2.7	19.4		1.1	79.2		1.6	17.4		1.1	20		1.3

Notes:
1.) NJ GWQS is derived from the New Jersey Register (N.J.A.C. 7:9C) Ground Water Quality Standards (GWQS), July 2010 and the Interim Specific Groundwater Quality Criteria, updated January 2018.
2.) Exceedances of NJ GWQS are **bolded**.

Abbreviations:
NJ GWQS = New Jersey Groundwater Quality Standards
NS = standard not available
Qual = qualifier
RL = reporting limit
Unit: ug/L = microgram per liter; mg/L = milligram per liter

Qualifiers:
J = estimated result
R = rejected result
U = not detected above RL
UJ = not detected above RL; estimated RL