Validated Analytical Results for Water Samples
Rockton Chemtool Fire
Rockton, Winnebago County, Illinois

		Screening Levels						RCF-UP-1-210617	RCF-SP-1-210617	RCF-SP-2-210617	RCF-DR-1-210619	RCF-TR-1-210618
		USEPA Aquatic Life Criteria (Acute)	USEPA Aquatic Life Criteria (Chronic)	Illinois DWQC Aquatic Life Criteria (Acute)	Illinois DWQC Aquatic Life Criteria (Chronic)	Illinois DWQC Human Health Criteria (HTC)	Illinois DWQC Human Health Criteria (HNC)	Upriver of Chemtool Site	Outfall at Chemtool Site (collected outside of boom)	Outfall from Chemtool Site (collected inside of boom)	*Surface water sample taken from the drainage area along the east side of the facility. The water in the drainage area was vacuumed out and put into Frac Tanks on site. Water was NOT released into the environment or allowed to impact any drinking water or ecosystem.	*Collected from man-made interceptor trench area south of west terminal of the trench. The water in the trench was vacuumed out and put into Frac Tanks on site. Water was NOT released into the environment or allowed to impact any drinking water or ecosystem.
Metals (mg/L) Method 6020A												
Aluminum	7429-90-5	NE	NE	NE	NE	NE	NE	0.087 J	0.18	0.11	0.21	28
Antimony	7440-36-0	NE	NE	1.2	0.32	1.2	NE	0.003 U	0.003 U	0.003 U	0.070	1.3
Arsenic	7440-38-2	0.34	0.15	NE	NE	NE	NE	0.0017 J-	0.0021 J-	0.0018 J-	0.0070	0.042
Barium	7440-39-3	NE	NE	NE	NE	NE	NE	0.046	0.051	0.047	0.29	2.3
Beryllium	7440-41-7	NE	NE	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 U	0.010 U
Cadmium	7440-43-9	0.0018	0.00072	NE	NE	NE	NE	0.0005 U	0.0005 U	0.0005 U	0.0013 J+	0.015
Calcium	7440-70-2	NE	NE	NE	NE	NE	NE	56	58	55	230	4800
Chromium (III) [1]	16065831	0.57	0.074	NE	NE	NE	NE	0.005 U	0.005 U	0.005 U	0.028	0.089
Chromium (VI) [1,2]	7440-47-3	0.016	0.011	NE	NE	NE	NE	0.005 U	0.005 U	0.005 U	0.028	0.089
Cobalt	7440-48-4	NE	NE	NE	NE	NE	NE	0.001 U	0.00043 J+	0.001 U	0.020	0.084
Copper	7440-50-8	NE	NE	NE	NE	NE	NE	0.0024	0.0018 J	0.0014 J	0.030	0.54
Iron	7439-89-6	NE	1	NE	NE	NE	NE	0.18	0.42	0.24	1.1	21
Lead	7439-92-1	0.065	0.0025	NE	NE	NE	NE	0.00088	0.0013	0.00089	0.013	0.20
Magnesium	7439-95-4	NE	NE	NE	NE	NE	NE	41	42	40	54	97
Manganese	7439-96-5	NE	NE	NE	NE	NE	NE	0.12	0.18	0.12	1.3	2.5
Nickel	7440-02-0	0.47	0.052	NE	NE	NE	NE	0.0015 J	0.0019 J	0.0016 J	0.021	0.11
Potassium	2023695	NE	NE	NE	NE	NE	NE	3.8	3.8	3.7	110	46
Selenium	7782-49-2	NE	NE	NE	NE	NE	NE	0.0025 U	0.0025 U	0.0025 U	0.0020 J	0.025 U
Silver	7440-22-4	0.0032	NE	NE	NE	NE	NE	0.0005 U	0.0005 U	0.0005 U	0.00017 J	0.0050 U
Sodium	7440-23-5	NE	NE	NE	NE	NE	NE	37	37	37	160	88
Thallium	7440-28-0	NE	NE	0.086	0.011	0.003	NE	0.002 U	0.002 U	0.002 U	0.0020 U	0.020 U
Vanadium	7440-62-2	NE	NE	NE	NE	NE	NE	0.0036 J-	0.0071 J-	0.0063 J-	0.0073	0.057
Zinc	7440-66-6	0.12	0.12	NE	NE	NE	NE	0.0086 J	0.014 J	0.011 J	0.21	86
Lithium	7439-93-2	NE	NE	NE	NE	NE	NE	0.003 J+	0.0028 J+	0.0027 J+	6.5	14
Mercury (mg/L) Method 7470A												
Mercury	7439-97-6	-	-	NE	NE	NE	NE	0.0002 U	0.0002 U	0.0002 U	0.0010 U	0.0010 U
Volatile Organic Compounds (mg/L) Method 8260B												
1,1,1-Trichloroethane	71-55-6	-	-	4.9	0.39	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,1,2,2-Tetrachloroethane	79-34-5	-	-	1.8	0.14	NE	0.0032	0.001 UJ	0.001 UJ	0.001 UJ	0.0010 UJ	0.0010 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,1,2-Trichloroethane	79-00-5	-	-	19	4.4	NE	0.012	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,1-Dichloroethane	75-34-3	-	-	20	2	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,1-Dichloroethene	75-35-4	-	-	3	0.24	NE	0.11	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,2,4-Trichlorobenzene	120-82-1	-	-	0.37	0.072	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,2-Dibromo-3-Chloropropane	96-12-8	-	-	NE	NE	NE	NE	0.005 U	0.005 U	0.005 U	0.0050 UJ	0.0050 U
1,2-Dibromoethane	106-93-4	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,2-Dichlorobenzene	95-50-1	-	-	0.21	0.17	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,2-Dichloroethane	107-06-2	-	-	25	4.5	NE	0.023	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,2-Dichloropropane	78-87-5	-	-	4.8	0.38	0.0057	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,3-Dichlorobenzene	541-73-1	-	-	0.5	0.2	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
1,4-Dichlorobenzene	106-46-7	-	-	1.8	0.62	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
2-Hexanone	591-78-6	-	-	12	0.95	NE	NE	0.005 U	0.005 U	0.005 U	0.013 J-	0.0034 J
Acetone	67-64-1	-	-	1500	120	NE	NE	0.01 U	0.01 U	0.01 U	0.20 J-	0.15
Benzene	71-43-2	-	-	NE	NE	NE	NE	0.0005 U	0.0005 U	0.0005 U	0.0019 J-	0.0014 J+
Bromodichloromethane	75-27-4	-	-	0.01	0.001	NE	0.0133	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Bromoform	75-25-2	-	-	NE	NE	NE	0.05	0.001 UJ	0.001 UJ	0.001 UJ	0.0010 UJ	0.0010 U
Bromomethane	74-83-9	-	-	NE	NE	NE	NE	0.003 U	0.003 U	0.003 U	0.0030 UJ	0.0030 U
Carbon disulfide	75-15-0	-	-	0.2	0.02	NE	NE	0.002 U	0.002 U	0.002 U	0.0095 J-	0.0020 U
Carbon tetrachloride	56-23-5	-	-	3.5	0.28	NE	0.0014	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Chlorobenzene	108-90-7	-	-	0.99	0.079	4.5	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Chloroethane	75-00-3	-	-	13	1	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Chloroform	67-66-3	-	-	1.9	0.15	NE	0.13	0.002 U	0.002 U	0.002 U	0.0020 UJ	0.0020 U
Chloromethane	74-87-3	-	-	16	1.3	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
cis-1,2-Dichloroethene	156-59-2	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0036
cis-1,3-Dichloropropene	10061-01-5	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Cyclohexane	110-82-7	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Dibromochloromethane	124-48-1	-	-	NE	NE	NE	0.0098	0.001 UJ	0.001 UJ	0.001 UJ	0.0010 UJ	0.0010 U
Dichlorodifluoromethane	75-71-8	-	-	NE	NE	NE	NE	0.003 U	0.003 U	0.003 U	0.0030 UJ	0.0030 UJ
Ethylbenzene	100-41-4	-	-	NE	NE	NE	NE	0.0005 U	0.0005 U	0.0005 U	0.00031 J-	0.00050 U
Isopropylbenzene	98-82-8	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0086 J-	0.0010 U
Methyl acetate	79-20-9	-	-	NE	NE	NE	NE	0.005 U	0.005 U	0.005 U	0.079 J-	0.0049 J
Methyl Ethyl Ketone	78-93-3	-	-	320	26	NE	NE	0.005 U	0.005 U	0.005 U	0.057 J-	0.026
methyl isobutyl ketone	108-10-1	-	-	46	1.4	NE	NE	0.005 U	0.005 U	0.005 U	0.0037 J-	0.0036 J
Methyl tert-butyl ether	1634-04-4	-	-	67	5.4	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Methylcyclohexane	108-87-2	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Methylene Chloride	75-09-2	-	-	NE	NE	NE	NE	0.005 U	0.005 U	0.005 U	0.0050 UJ	0.0050 U
Styrene	100-42-5	-	-	2.5	0.2	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Tetrachloroethene	127-18-4	-	-	1.2	0.15	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.00064 J
Toluene	108-88-3	-	-	NE	NE	NE	NE	0.0005 U	0.0005 U	0.0005 U	0.00048 J-	0.00042 J
trans-1,2-Dichloroethene	156-60-5	-	-	NE	NE	34	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
trans-1,3-Dichloropropene	10061-02-6	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Trichloroethene	79-01-6	-	-	NE	NE	NE	NE	0.0005 U	0.0005 U	0.0005 U	0.00050 UJ	0.00050 U
Trichlorofluoromethane	75-69-4	-	-	NE	NE	250	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Vinyl chloride	75-01-4	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U
Xylenes, Total	1330-20-7	-	-	NE	NE	NE	NE	0.001 U	0.001 U	0.001 U	0.0010 UJ	0.0010 U

Validated Analytical Results for Water Samples
Rockton Chemtool Fire
Rockton, Winnebago County, Illinois

		Screening Levels						RCF-UP-1-210617	RCF-SP-1-210617	RCF-SP-2-210617	RCF-DR-1-210619	RCF-TR-1-210618
		USEPA Aquatic Life Criteria (Acute)	USEPA Aquatic Life Criteria (Chronic)	Illinois DWQC Aquatic Life Criteria (Acute)	Illinois DWQC Aquatic Life Criteria (Chronic)	Illinois DWQC Human Health Criteria (HTC)	Illinois DWQC Human Health Criteria (HNC)	Upriver of Chemtool Site	Outfall at Chemtool Site (collected outside of boom)	Outfall from Chemtool Site (collected inside of boom)	*Surface water sample taken from the drainage area along the east side of the facility. The water in the drainage area was vacuumed out and put into Frac Tanks on site. Water was NOT released into the environment or allowed to impact any drinking water or ecosystem.	*Collected from man-made interceptor trench area south of west terminal of the trench. The water in the trench was vacuumed out and put into Frac Tanks on site. Water was NOT released into the environment or allowed to impact any drinking water or ecosystem.
Semivolatile Organic Compounds (mg/L) Method 8270D												
1,1'-Biphenyl	92-52-4	-	-	NE	NE	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
2,2'-oxybis[1-chloropropane]	108-60-1	-	-	NE	NE	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 U
2,4,5-Trichlorophenol	95-95-4	-	-	NE	NE	3.2	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
2,4,6-Trichlorophenol	88-06-2	-	-	NE	NE	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
2,4-Dichlorophenol	120-83-2	-	-	0.63	0.083	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
2,4-Dimethylphenol	105-67-9	-	-	0.74	0.22	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
2,4-Dinitrophenol	51-28-5	-	-	0.085	0.0041	NE	NE	0.017 U	0.016 U	0.017 U	0.85 U	80 U
2,4-Dinitrotoluene	121-14-2	-	-	5	0.32	0.0026	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	4.0 U
2,6-Dinitrotoluene	606-20-2	-	-	1.9	0.15	NE	0.0004	0.00083 U	0.00081 U	0.00085 U	0.043 U	4.0 U
2-Chloronaphthalene	91-58-7	-	-	0.37	0.03	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 U
2-Chlorophenol	95-57-8	-	-	0.51	0.041	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
2-Methylnaphthalene	91-57-6	-	-	NE	NE	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	0.99 J
2-Methylphenol	95-48-7	-	-	4.7	0.37	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 U
2-Nitroaniline	88-74-4	-	-	2	0.2	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
2-Nitrophenol	88-75-5	-	-	6.7	0.54	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
3 & 4 Methylphenol	15831-10-4	-	-	NE	NE	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 U
3,3'-Dichlorobenzidine	91-94-1	-	-	NE	NE	NE	0.000025	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
3-Nitroaniline	99-09-2	-	-	NE	NE	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
4,6-Dinitro-2-methylphenol	534-52-1	-	-	0.029	0.0023	NE	NE	0.017 U	0.016 U	0.017 U	0.85 U	80 U
4-Bromophenyl phenyl ether	101-55-3	-	-	0.036	0.0029	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
4-Chloro-3-methylphenol	59-50-7	-	-	0.31	0.025	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
4-Chloroaniline	106-47-8	-	-	0.0024	0.0002	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
4-Chlorophenyl phenyl ether	7005-72-3	-	-	NE	NE	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
4-Nitroaniline	100-01-6	-	-	1.5	0.12	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
4-Nitrophenol	100-02-7	-	-	3.2	1.9	NE	NE	0.017 U	0.016 U	0.017 U	0.85 U	80 UJ
Acenaphthene	83-32-9	-	-	0.12	0.062	NE	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	4.0 U
Acenaphthylene	208-96-8	-	-	0.19	0.015	NE	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	1.9 J
Acetophenone	98-86-2	-	-	NE	NE	NE	NE	0.0042 U	0.004 U	0.0042 U	0.081 J	20 U
Anthracene	120-12-7	-	-	0.00066	0.00053	35	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	4.0 U
Atrazine	1912-24-9	-	-	0.082	0.009	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
Benzaldehyde	100-52-7	-	-	180	14	NE	NE	0.033 U	0.032 U	0.034 U	1.7 R	160 UJ
Benzo[a]anthracene	56-55-3	-	-	NE	NE	NE	0.00016	0.00017 U	0.00016 U	0.00017 U	0.0085 U	0.80 U
Benzo[a]pyrene	50-32-8	-	-	NE	NE	NE	0.000016	0.00017 U	0.00016 U	0.00017 U	0.0085 UJ	0.80 U
Benzo[b]fluoranthene	205-99-2	-	-	NE	NE	NE	0.00016	0.00017 U	0.00016 U	0.00017 U	0.0085 UJ	0.80 U
Benzo[g,h,i]perylene	191-24-2	-	-	NE	NE	NE	NE	0.00083 U	0.00081 U	0.00085 U	0.043 UJ	4.0 U
Benzo[k]fluoranthene	207-08-9	-	-	NE	NE	NE	0.0016	0.00017 U	0.00016 U	0.00017 U	0.0085 UJ	0.80 U
Bis(2-chloroethoxy)methane	111-91-1	-	-	NE	NE	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 R
Bis(2-chloroethyl)ether	111-44-4	-	-	24	1.9	NE	0.00042	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 R
Bis(2-ethylhexyl) phthalate	117-81-7	-	-	0.4	0.38	NE	0.0019	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 UJ
Butyl benzyl phthalate	85-68-7	-	-	0.17	0.023	1.7	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 UJ
Caprolactam	105-60-2	-	-	NE	NE	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
Carbazole	86-74-8	-	-	0.093	0.0074	NE	NE	0.0042 UJ	0.004 UJ	0.0042 UJ	0.21 U	20 U
Chrysene	218-01-9	-	-	NE	NE	NE	0.016	0.00017 U	0.00016 U	0.00017 U	0.0085 U	0.80 U
Dibenz(a,h)anthracene	53-70-3	-	-	NE	NE	NE	0.000016	0.00025 U	0.00024 U	0.00025 U	0.013 UJ	1.2 U
Dibenzofuran	132-64-9	-	-	0.19	0.015	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 U
Diethyl phthalate	84-66-2	-	-	3.2	0.25	NE	NE	0.0042 U	0.0019 J	0.0042 U	0.21 U	20 U
Dimethyl phthalate	131-11-3	-	-	3.3	0.26	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
Di-n-butyl phthalate	84-74-2	-	-	0.17	0.048	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
Di-n-octyl phthalate	117-84-0	-	-	NE	NE	NE	NE	0.0083 U	0.0081 U	0.0085 U	0.43 U	40 U
Fluoranthene	206-44-0	-	-	0.0043	0.0018	0.12	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	4.0 U
Fluorene	86-73-7	-	-	0.059	0.016	4.5	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	4.0 U
Hexachlorobenzene	118-74-1	-	-	NE	NE	NE	0.00000025	0.00042 U	0.0004 U	0.00042 U	0.021 U	2.0 U
Hexachlorobutadiene	87-68-3	-	-	0.035	0.0028	NE	NE	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
Hexachlorocyclopentadiene	77-47-4	-	-	0.001	0.0001	NE	NE	0.017 U	0.016 U	0.017 U	0.85 U	80 U
Hexachloroethane	67-72-1	-	-	0.38	0.031	NE	0.0029	0.0042 U	0.004 U	0.0042 U	0.21 U	20 U
Indeno[1,2,3-cd]pyrene	193-39-5	-	-	NE	NE	NE	0.00016	0.00017 U	0.00016 U	0.00017 U	0.0085 UJ	0.80 U
Isophorone	78-59-1	-	-	12	0.96	NE	0.76	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 R
Naphthalene	91-20-3	-	-	0.51	0.068	NE	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	1.2 J
Nitrobenzene	98-95-3	-	-	15	8.5	0.53	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	4.0 R
N-Nitrosodi-n-propylamine	621-64-7	-	-	NE	NE	NE	NE	0.00042 U	0.0004 U	0.00042 U	0.021 U	2.0 R
N-Nitrosodiphenylamine	86-30-6	-	-	NE	NE	NE	NE	0.0017 U	0.0016 U	0.0017 U	0.085 U	8.0 U
Pentachlorophenol	87-86-5	-	-	0.02	0.013	NE	0.0025	0.017 U	0.016 U	0.017 U	0.85 U	80 U
Phenanthrene	85-01-8	-	-	NE	NE	NE	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	3.4 J
Phenol	108-95-2	-	-	NE	NE	NE	NE	0.0042 U	0.004 U	0.0042 U	0.13 J	20 U
Pyrene	129-00-0	-	-	NE	NE	3.5	NE	0.00083 U	0.00081 U	0.00085 U	0.043 U	2.7 J

Validated Analytical Results for Water Samples
Rockton Chemtool Fire
Rockton, Winnebago County, Illinois

		Screening Levels						RCF-UP-1-210617	RCF-SP-1-210617	RCF-SP-2-210617	RCF-DR-1-210619	RCF-TR-1-210618
		USEPA Aquatic Life Criteria (Acute)	USEPA Aquatic Life Criteria (Chronic)	Illinois DWQC Aquatic Life Criteria (Acute)	Illinois DWQC Aquatic Life Criteria (Chronic)	Illinois DWQC Human Health Criteria (HTC)	Illinois DWQC Human Health Criteria (HNC)	Upriver of Chemtool Site	Outfall at Chemtool Site (collected outside of boom)	Outfall from Chemtool Site (collected inside of boom)	*Surface water sample taken from the drainage area along the east side of the facility. The water in the drainage area was vacuumed out and put into Frac Tanks on site. Water was NOT released into the environment or allowed to impact any drinking water or ecosystem.	*Collected from man-made interceptor trench area south of west terminal of the trench. The water in the trench was vacuumed out and put into Frac Tanks on site. Water was NOT released into the environment or allowed to impact any drinking water or ecosystem.
Method PFC_IDA Fluorinated Alkyl Substances (ng/L)			-									
Perfluoroundecanoic acid (PFUnA)	2058-94-8	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
Perfluorododecanoic acid (PFDoA)	307-55-1	-	-	NE	NE	NE	NE	NA	NA	NA	10 U	NA
Perfluorotridecanoic acid (PFTriA)	72629-94-8	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
Perfluorotetradecanoic acid (PFTeA)	376-06-7	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
Perfluorobutanesulfonic acid (PFBS)	375-73-5	-	-	NE	NE	NE	NE	NA	NA	NA	87	NA
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	-	-	NE	NE	NE	NE	0.29 J	1.8 UJ	1.7 UJ	10 U	NA
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	-	-	NE	NE	NE	NE	2.2 J	3.8 J	2.1 J	10 U	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	-	-	NE	NE	NE	NE	1.7 UJ	0.32 J	1.7 UJ	10 U	NA
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	-	-	NE	NE	NE	NE	NA	NA	NA	11	NA
Perfluorononanesulfonic acid (PFNS)	68259-12-1	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
Perfluorodecanesulfonic acid (PFDS)	335-77-3	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	-	-	NE	NE	NE	NE	NA	NA	NA	10 U	NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	-	-	NE	NE	NE	NE	4.4 UJ	4.4 UJ	4.3 UJ	25 U	NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	-	-	NE	NE	NE	NE	4.4 UJ	4.4 UJ	4.3 UJ	25 U	NA
4:2 FTS	757124-72-4	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
6:2 FTS	27619-97-2	-	-	NE	NE	NE	NE	4.4 UJ	4.4 UJ	4.3 UJ	4900 J+	NA
8:2 FTS	39108-34-4	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
13C4 PFBA	STL00992	-	-	NE	NE	NE	NE	11 J	13 J	13 J	NA	NA
13C5 PFPeA	STL01893	-	-	NE	NE	NE	NE	32 J	37 J	37 J	NA	NA
13C2 PFHxA	STL00993	-	-	NE	NE	NE	NE	46 J	50 J	49 J	NA	NA
13C4 PFHpA	STL01892	-	-	NE	NE	NE	NE	2.5 J	3.1 J	2.6 J	NA	NA
13C4 PFOA	STL00990	-	-	NE	NE	NE	NE	3 J	4.9 J	2.7 J	NA	NA
13C5 PFNA	STL00995	-	-	NE	NE	NE	NE	0.35 J	1.2 J	0.39 J	NA	NA
13C2 PFDA	STL00996	-	-	NE	NE	NE	NE	2.7 J	2.1 J	2.5 J	NA	NA
13C2 PFUnA	STL00997	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
13C2 PFDoA	STL00998	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	NA	NA
13C2 PFTeDA	STL02116	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
13C3 PFBS	STL02337	-	-	NE	NE	NE	NE	2.7 J	2.7 J	2.7 J	NA	NA
18O2 PFHxS	STL00994	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
13C4 PFOS	STL00991	-	-	NE	NE	NE	NE	3.3 J	15 J	3.5 J	NA	NA
13C8 FOSA	STL01056	-	-	NE	NE	NE	NE	3.7 J	4.4 J	3 J	NA	NA
d3-NMeFOSAA	STL02118	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
d5-NEtFOSAA	STL02117	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
M2-6:2 FTS	STL02279	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
M2-8:2 FTS	STL02280	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
F-53B Major	756426-58-1	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
HFPO-DA (GenX)	13252-13-6	-	-	NE	NE	NE	NE	3.5 UJ	3.5 UJ	3.5 UJ	20 U	NA
13C3 HFPO-DA	STL02255	-	-	NE	NE	NE	NE	NA	NA	NA	NA	NA
F-53B Minor	763051-92-9	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA
DONA	919005-14-4	-	-	NE	NE	NE	NE	1.7 UJ	1.8 UJ	1.7 UJ	10 U	NA

Notes:

= result greater than USEPA Aquatic Life Criteria (Acute)
= result greater than Illinois DWQC Aquatic Life Criteria
= result greater than Illinois DWQC Human Health Criteria and Aquatic Life Criteria

Result Qualifiers: All qualifiers are laboratory qualifiers. Results/qualifiers have not been validated and should be considered preliminary
U = analyte was not detected
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
R=The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
T = Result is a tentatively identified compound (TIC) and an estimated value.
N = Presumptive evidence of material.
*1 = LCS/LCSD RPD exceeds control limits.
*- = LCS and/or LCSD is outside acceptance limits, low biased.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.

[1] = The lab analyzed parameters for total chromium. The total chromium results do not make a distinction between the types of chromium.
-- = Not Analyzed
mg/L = milligram per liter
ng/L = nanogram per liter
DWQC = Drinking Water Quality Critieria
EPA = U. S. Environmental Protection Agency
HNC = Human Nonthreshold Criterion
HTC = Human Threshold Criteron
LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
MCL = Maximum Contaminant Level
MDL = Method Detection Limit
NE = Not Established
PFAS = Per- and Polyfluoroalkyl Substances
RPD = Relative Percent Difference
TCR = Target Cancer Risk
* = Sample results are compared to critera for reference only
Metals, VOC, and SVOC results shown in mg/L
PFAS results shown in ng/L

Illinois DWQC: https://www2.illinois.gov/epa/topics/water-quality/standards/Documents/MasterDWQC_Nov19.pdf
National Recommended Water Quality Criteria - Aquatic Life Criteria Table: https://www.epa.gov/wqc/national-recommended-water-quality-criteria-aquatic-life-criteria-table