

City of Winnipeg  
Water Waste Department



West End Water Pollution Control Centre

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2017 Schedule A Monitoring Report

Parameter	Units	February 23, 2017		May 26, 2017		August 25, 2017		November 24, 2017	
		Raw Sewage Grab	Final Effluent Grab	Raw Sewage Grab	Final Effluent Grab	Raw Sewage Grab	Final Effluent Grab	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>									
Chromium, Hexavalent	ug/L	2.4	1.6	1.7	<1.0	<1.0	<1.0	<1.0	<1.0
Mercury (Hg)-Total	ng/L	72.5	1.6	53.5	3.1	31.5	2.50	35.5	2.9
Phenols (4AAP)	mg/L	0.0435	0.0019	0.0338	<0.0010	0.0583	0.0011	0.0621	0.0010
Trihalomethanes (total)	mg/L	0.0033	<0.0010	0.0036	<0.0010	0.0049	<0.0010	0.0029	<0.0010
Oil and Grease (I.R.)	mg/L	42.6	10.7	34.3	<5.0	31.8	<5.0	34.8	<5.0
Tetraethyl Lead	ug/L	<0.0052	<0.0052	<0.014	<0.014	<0.035	<0.0088	<0.015	<0.0015
Tri-n-butyltin Cation	ug/L	<0.057	<0.056	<0.063	<0.056	<0.055	<0.056	<0.050	<0.050
pH unStabilized Trout Bioassay	Pass/Fail		Pass		Pass		Pass		Pass
Hardness	mg/L		310		nr		380		320
Alkalinity	mg/L		230		nr		200		200
Temperature	°C		14.4		16.0		14.0		14.3
Dissolved Oxygen	mg/L		10.43		8.50		9.46		15.32
Conductivity	umhos/cm		1240		971		1708		1479
pH	units		7.23		8.20		9.90		8.80
pH Stabilized Trout Bioassay	Pass/Fail		Pass		Pass		Pass		Pass
Hardness	mg/L		330		340		390		320
Alkalinity	mg/L		230		nr		190		200
Temperature	°C		14.3		16.0		14.0		14.3
Dissolved Oxygen	mg/L		10.17		8.50		10.46		11.49
Conductivity	umhos/cm		1223		971		1723		1544
pH	units		7.35		8.00		9.94		8.62
Ammonia, Total (as N)	mg/L		2.34		1.18		0.087		0.149
Ammonia, Un-ionized (as N)	mg/L		0.013		0.030		0.060		0.015
<b>Total Metals by ICP-MS</b>									
Arsenic (As)-Total	mg/L	0.00113	0.00094	0.00101	0.00246	0.00103	0.00136	0.00088	0.00129
Cadmium (Cd)-Total	mg/L	0.000075	0.000022	0.000093	0.000043	0.0000838	<0.0000050	0.0000831	0.0000163
Chromium (Cr)-Total	mg/L	0.0024	0.0010	0.0016	0.0012	0.00146	0.00035	0.00123	0.00036
Copper (Cu)-Total	mg/L	0.0783	0.00595	0.0747	0.00722	0.0659	0.00355	0.0794	0.0045
Lead (Pb)-Total	mg/L	0.00152	0.000445	0.00171	0.00120	0.00119	0.000099	0.00161	0.00195
Molybdenum (Mo)-Total	mg/L	0.0031	0.00422	0.0043	0.00483	0.00229	0.00278	0.00253	0.0051
Nickel (Ni)-Total	mg/L	0.0041	0.0037	0.0042	0.0055	0.00323	0.00447	0.00337	0.0042
Selenium (Se)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000451	0.000165	0.000589	0.000202
Zinc (Zn)-Total	mg/L	0.0848	0.0382	0.0893	0.0145	0.0584	0.0032	0.0783	0.0156
<b>Low Level Nonylphenols and Ethoxylates</b>									
Nonylphenols	ug/L	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0
Nonylphenol Monoethoxylates	ug/L	5.7	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0
Nonylphenol Diethoxylates	ug/L	3.13	0.22	1.17	<0.10	0.88	<0.10	0.72	<0.10
Octylphenol	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0
Octylphenol Monoethoxylate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0
Octylphenol Diethoxylate	ug/L	<0.10	<0.10	0.14	<0.10	<0.10	<0.10	<0.50	<0.10
Bisphenol A	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	<0.20
Total Nonylphenol Ethoxylates	ug/L	8.8	<2.0	3.0	<2.0	<2.0	<2.0	<10	<2.0
Total Octylphenol Ethoxylate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0

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<b>Dioxins and Furans</b>									
2378 TCDD	pg/L	<2.0	<0.78	<0.52	<1.0	<0.83	<1.1	<0.33	<0.68
12378 PeCDD	pg/L	<0.91	<0.88	0.79	<0.52	<0.66	<0.37	<0.26	<0.33
123478 HxCDD	pg/L	<1.0	<0.39	0.51	<0.61	<0.54	<0.53	<0.30	<0.36
123678 HxCDD	pg/L	<0.90	<0.37	0.93	<0.59	<0.51	<0.52	0.33	<0.34
123789 HxCDD	pg/L	<0.97	<0.39	1.02	<0.58	<0.51	<0.52	<0.30	<0.35
1234678 HpCDD	pg/L	<2.5	<0.50	5.82	1.27	2.73	<0.37	2.70	1.98
OCDD	pg/L	23.5	1.10	26.7	5.94	21.4	1.60	22.0	7.75
2378 TCDF	pg/L	<1.2	<0.81	<0.42	<0.53	<0.88	<0.74	<0.28	<0.54
12378 PeCDF	pg/L	<0.83	<0.57	1.00	0.45	<0.38	<0.40	<0.16	<0.26
23478 PeCDF	pg/L	<0.70	<0.46	1.31	<0.30	0.45	<0.30	<0.14	<0.24
123478 HxCDF	pg/L	<1.2	<0.68	0.97	<0.32	0.46	<0.26	<0.16	<0.14
123678 HxCDF	pg/L	<1.1	<0.65	1.31	<0.30	0.40	<0.27	<0.16	<0.14
234678 HxCDF	pg/L	<1.1	<0.68	0.84	<0.30	<0.35	<0.22	<0.15	<0.14
123789 HxCDF	pg/L	<1.8	<1.0	0.62	0.75	<0.56	<0.35	0.35	0.35
1234678 HpCDF	pg/L	<0.99	<0.58	2.55	0.38	0.84	<0.26	0.46	0.38
1234789 HpCDF	pg/L	<1.7	<0.91	<0.42	<0.38	<0.45	<0.36	<0.19	<0.30
OCDF	pg/L	<1.2	<0.68	2.47	1.10	1.00	<0.59	1.81	1.20
Total TCDD	pg/L	<2.0	<0.78	<0.52	<5.0	<0.83	<1.1	<0.33	<0.68
Total PeCDD	pg/L	<0.91	<0.88	3.49	<0.52	<0.66	<0.37	<0.26	<0.33
Total HxCDD	pg/L	<1.0	<0.39	7.18	<0.61	<0.54	<0.53	0.33	<0.36
Total HpCDD	pg/L	<2.5	<0.50	11.1	1.99	2.73	<0.37	<0.21	1.98
Total TCDF	pg/L	<1.2	<0.81	<0.42	<0.53	<0.88	<0.74	<0.28	<0.54
Total PeCDF	pg/L	<0.83	<0.57	4.35	0.45	<0.38	<0.40	<0.16	<0.26
Total HxCDF	pg/L	<1.8	<1.0	4.58	0.75	0.86	<0.35	<0.22	<0.18
Total HpCDF	pg/L	<1.7	<0.91	3.60	<0.38	<0.45	<0.36	<0.19	<0.30
<b>Phenoxyacid Herbicides by GC/MS</b>									
2,4,5-TP	ug/L	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
MCPA	ug/L	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
Mecoprop	ug/L	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
2,4,5-T	ug/L	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
2,4-D	ug/L	<0.50	<0.50	<2.5	<0.50	<0.65	<0.50	<2.5	<0.50
2,4-DP	ug/L	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
Bromoxynil	ug/L	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
Dicamba	ug/L	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
Dinoseb	ug/L	<0.50	<0.50	<2.5	<0.50	<1.4	<0.50	<2.5	<0.50
Picloram	ug/L	<2.0	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50
<b>PCB</b>									
Aroclor 1016	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1221	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1232	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1242	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1248	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1254	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1260	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1262	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Aroclor 1268	mg/L	<0.00050	<0.00050	<0.0020	<0.00050	<0.000040	<0.000040	<0.000040	<0.000040
Total PCBs	mg/L	<0.0015	<0.0015	<0.0060	<0.0015	<0.000015	<0.000015	<0.000040	<0.000040

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<b>Pesticides, Organochlorine</b>									
Aldrin	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<1.3	<0.10
a-chlordane	ug/L	<1.0	<1.0	<0.30	<0.10	<1.0	<0.10	<0.10	<0.10
g-chlordane	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
alpha-BHC	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.30	<0.10
beta-BHC	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
delta-BHC	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.60	<0.10
op-DDD	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
pp-DDD	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
op-DDE	ug/L	<2.4	<1.0	<1.6	<0.10	<1.0	<0.10	<3.7	<0.10
pp-DDE	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
op-DDT	ug/L	<1.0	<1.0	<1.0	<0.10	<1.0	<0.10	<0.10	<0.10
pp-DDT	ug/L	<1.0	<1.0	<1.0	<0.10	<1.0	<0.10	<0.10	<0.10
Dieldrin	ug/L	<3.8	<9.5	<0.50	<0.10	<1.0	<0.10	<25	<0.10
alpha-Endosulfan	ug/L	<1.0	<1.0	<1.0	<0.10	<1.8	<0.10	<22	<0.10
beta-Endosulfan	ug/L	<1.0	<1.0	<1.0	<0.10	<1.0	<0.10	<0.20	<0.10
Endosulfan Sulfate	ug/L	<1.0	<1.0	<0.30	<0.10	<1.0	<0.10	<0.10	<0.10
Endrin	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
Endrin Aldehyde	ug/L	<1.0	<1.0	<1.1	<0.10	<1.0	<0.10	<0.10	<0.10
Hexachlorobenzene	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
Heptachlor	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
Heptachlor Epoxide	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
Lindane	ug/L	<1.0	<1.0	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10
Methoxychlor	ug/L	<1.0	<1.0	<1.0	<0.10	<1.0	<0.10	<0.10	<0.10
Mirex	ug/L	<1.0	<1.0	<0.20	<0.20	<1.0	<0.10	<0.10	<0.10
Oxychlorodane	ug/L	<1.0	<1.0	<0.20	<0.10	<1.0	<0.10	<0.10	<0.10
Octachlorostyrene	ug/L	<0.50	<0.050	<0.50	<0.050	<0.50	<0.25	<0.10	<0.10
Toxaphene	ug/L	<14	<19	<7.0	<5.0	<3.5	<1.0	<4.0	<2.50
<b>EPA 8270 Extractables</b>									
1-Chloronaphthalene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
1-Methylnaphthalene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
1,2-Dichlorobenzene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
1,2,3-Trichlorobenzene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
1,2,4-Trichlorobenzene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
1,3-Dichlorobenzene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
1,4-Dichlorobenzene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
2-Chloronaphthalene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
2-Chlorophenol	ug/L	<9.0	<0.60	<3.0	<0.30	<15	<15	<7.5	<7.5
2-Methylnaphthalene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
2-Methylphenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2-Nitrophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,3,4-Trichlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,3,4,5-Tetrachlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,3,4,6-Tetrachlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,3,5-Trichlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,3,5,6-Tetrachlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,4-Dichlorophenol	ug/L	<9.0	<0.60	<3.0	<0.30	<15	<15	<7.5	<7.5
2,4-Dimethylphenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,4-Dinitrophenol	ug/L	<30	<2.0	<10	<1.0	<50	<50	<27	<25

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			Grab		Grab		Grab		Grab
2,4-Dinitrotoluene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
2,4,5-Trichlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,4,6-Trichlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,6-Dichlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
2,6-Dinitrotoluene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
3,3'-Dichlorobenzidine	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
3&4-Methylphenol	ug/L	157	<1.0	135	<0.50	87	<25	132	<13
4-Bromophenyl phenyl ether	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
4-Chloro-3-methylphenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
4-Chloroaniline	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
4-Chlorophenyl phenyl ether	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
4-Nitrophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
4,6-Dinitro-2-methylphenol	ug/L	<60	<4.0	<20	<2.0	<100	<100	<50	<50
5-Nitroacenaphthene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Acenaphthene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Acenaphthylene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Anthracene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Benzo(a)anthracene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Benzo(a)pyrene	ug/L	<1.5	<0.10	<0.50	<0.050	<2.5	<2.5	<1.3	<1.3
Benzo(b)fluoranthene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Benzo(ghi)perylene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Benzo(k)fluoranthene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Biphenyl	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Bis(2-chloroethoxy)methane	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Bis(2-chloroethyl)ether	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Bis(2-chloroisopropyl)ether	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Bis(2-ethylhexyl)phthalate	ug/L	<60	<4.0	<20	<2.0	<50	<50	<25	<25
Butylbenzyl phthalate	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Camphene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Chrysene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Cresols, Total	ug/L	157	<2.0	135	<1.0	87	<50	132	<25
Di-n-butylphthalate	ug/L	<60	<4.0	<20	<2.0	<50	<50	<25	<25
Di-n-octylphthalate	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Dibenzo(a,h)anthracene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Dibenzofuran	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Diethylphthalate	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Dimethylphthalate	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Diphenyl ether	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Diphenylamine	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Fluoranthene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Fluorene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Hexachlorobenzene	ug/L	<1.2	<0.080	<0.40	<0.040	<2.0	<2.0	<1.0	<1.0
Hexachlorobutadiene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Hexachlorocyclopentadiene	ug/L	<12	<1.6	<8.0	<0.80	<20	<20	<10	<10
Hexachloroethane	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Indeno(1,2,3-cd)pyrene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Indole	ug/L	34	<0.80	27	<0.40	<20	<20	22	<10
Isophorone	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
N-Nitroso-di-n-propylamine	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10
Naphthalene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Nitrobenzene	ug/L	<12	<0.80	<4.0	<0.40	<20	<20	<10	<10

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		Raw Sewage Grab	Final Effluent	Raw Sewage Grab	Final Effluent	Raw Sewage Grab	Final Effluent	Raw Sewage Grab	Final Effluent
			Grab		Grab		Grab		Grab
Pentachlorophenol	ug/L	<15	<1.0	<5.0	<0.50	<25	<25	<13	<13
Perylene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Phenanthrene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
Phenol	ug/L	36	<1.0	25	<0.50	<25	<25	27	<13
Pyrene	ug/L	<6.0	<0.40	<2.0	<0.20	<10	<10	<5.0	<5.0
<b>Volatile Organics plus F1</b>									
Acetone	mg/L	0.029	<0.020	0.044	<0.020	0.025	<0.020	0.089	<0.020
Benzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bromoform	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bromomethane	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
n-Butylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050
sec-Butylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00251	<0.0050	<0.0050	<0.0020
Carbon tetrachloride	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chloroethane	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00333	0.00055	0.00358	<0.00050	0.00492	<0.00050	0.00287	<0.00050
Chloromethane	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
trans-1,2-Dichloroethene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.00050
1,2-Dichloropropane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
trans-1,3-Dichloropropene	mg/L	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dinitropyrene	ug/L	<3.0	<1.0	<2.0	<2.0	<5.0	<1.0	<25	<25
1,6-Dinitropyrene	ug/L	<3.0	<1.0	<2.0	<2.0	<5.0	<1.1	<25	<25
1,8-Dinitropyrene	ug/L	<3.0	<1.0	<2.0	<2.0	<5.0	<1.2	<50	<25
Ethyl Benzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
F1	mg/L	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.10	<0.10
Hexachlorobutadiene	mg/L	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050

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			Grab		Grab		Grab		Grab
Hexane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
2-Hexanone	mg/L	<0.020	<0.020	<0.040	<0.040	<0.020	<0.020	<0.020	<0.020
Isopropylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MEK	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
MIBK	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
MTBE	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
4,4'-Methylenebis(2-chloroaniline)	ug/L	<1.5	<0.50	<10	<1.0	<5.0	<0.50	<25	<25
Styrene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00159	<0.00050	0.00084	<0.00050
1,1,1,2-Tetrachloroethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Tetrachloroethene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00214	<0.00050	0.00224	<0.00050	0.00177	<0.00050	0.00243	<0.00050
1,2,3-Trichlorobenzene	mg/L	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,4-Trichlorobenzene	mg/L	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010
1,1,1-Trichloroethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	<0.00050	<0.00050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
o-Xylene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00030	<0.00030
Xylenes (Total)	mg/L	<0.00071	<0.00071	<0.00064	<0.00064	<0.00064	<0.00064	<0.00050	<0.00050

**NOTES:**

nr - not reported

*All parameters were analyzed by contract laboratory.*