



Water and Waste Department  
Environmental Standards Division

# SEWPCC SCHEDULE B Quarterly Monitoring Reports



**January 2016 – December 2016**

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**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

1st Quarter Sampling Parameter	February 11, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Mercury (Hg)-Total	ng/L	2.5	5.0	75	14
Phenols (4AAP)	mg/L	0.010	0.0010	0.094	0.0022
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0042	0.0035
Oil and Grease (I.R.)	mg/L	5.0	5.0	86.2	6.0
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Tri-n-butyltin Cation	ug/L	0.054	0.050	<0.054	<0.050
pH unStabilized Trout Bioassay	Pass/Fail				Fail
Hardness	mg/L				nr
Alkalinity	mg/L				nr
Temperature	°C		-30.0		15.1
Dissolved Oxygen	mg/L		0.0		7.7
Conductivity	umhos/cm		0		888
pH	units		0.00		6.44
pH Stabilized Trout Bioassay	Pass/Fail				Fail
Hardness	mg/L		2		134
Alkalinity	mg/L		1		286
Temperature	°C		-30.0		15.1
Dissolved Oxygen	mg/L		0.0		7.7
Conductivity	umhos/cm		0		888
pH	units		0.00		6.44
Ammonia, Total (as N)	mg/L		0.00		88.9
Ammonia, Un-ionized (as N)	mg/L				0.067
Chlorine, Total	mg/L		0.00		0.00
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00074	0.00057
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000134	0.000017
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0017	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.103	0.0152
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00187	0.00045
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00266	0.00380
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0093	0.0052
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.126	0.0377
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	1.0	1.0	1.2	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	3.0	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.45	0.21
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.26	0.11
Bisphenol A	ug/L	0.20	0.20	<0.20	0.21
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	4.4	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	1.7	2.3	<1.7	<2.3
12378 PeCDD	pg/L	1.0	0.99	<1.0	<0.99
123478 HxCDD	pg/L	1.1	1.0	<1.1	<1.0
123678 HxCDD	pg/L	0.94	0.96	<0.94	<0.96
123789 HxCDD	pg/L	1.0	1.0	<1.0	<1.0
1234678 HpCDD	pg/L	1.4	1.7	2.1	<1.7
OCDD	pg/L	2.8	1.9	21.7	<1.9
2378 TCDF	pg/L	0.96	1.4	<0.96	<1.4
12378 PeCDF	pg/L	0.74	1.2	<0.74	<1.2
23478 PeCDF	pg/L	0.64	1.1	<0.64	<1.1
123478 HxCDF	pg/L	2.0	0.84	<2.0	<0.84
123678 HxCDF	pg/L	1.9	0.78	<1.9	<0.78
234678 HxCDF	pg/L	2.0	0.84	<2.0	<0.84
123789 HxCDF	pg/L	3.0	1.3	<3.0	<1.3
1234678 HpCDF	pg/L	1.0	1.0	<1.0	<1.0
1234789 HpCDF	pg/L	1.5	1.6	<1.5	<1.6
OCDF	pg/L	1.4	1.6	<1.4	<1.6
Total TCDD	pg/L	1.7	2.3	<1.7	<2.3
Total PeCDD	pg/L	1.0	0.99	<1.0	<0.99
Total HxCDD	pg/L	1.1	1.0	<1.1	<1.0
Total HpCDD	pg/L	1.4	1.7	<1.4	<1.7
Total TCDF	pg/L	0.96	1.4	<0.96	<1.4
Total PeCDF	pg/L	0.74	1.2	<0.74	<1.2
Total HxCDF	pg/L	3.0	1.3	<3.0	<1.3
Total HpCDF	pg/L	1.5	1.6	<1.5	<1.6
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-TP	ug/L	25	0.50	<25	<0.50
MCPA	ug/L	25	0.50	<25	<0.50
Mecoprop	ug/L	25	0.50	<25	<0.50
2,4,5-T	ug/L	25	0.50	<25	<0.50
2,4-D	ug/L	25	0.50	<25	<0.50
2,4-DP	ug/L	25	0.50	<25	<0.50
Bromoxynil	ug/L	25	0.50	<25	<0.50
Dicamba	ug/L	25	0.50	<25	<0.50
Dinoseb	ug/L	25	0.50	<25	<0.50
Picloram	ug/L	25	0.50	<25	<0.50
<b>PCB</b>					
Aroclor 1016	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1221	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1232	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1242	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1248	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1254	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1260	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1262	mg/L	0.00050	0.00010	<0.00050	<0.00010
Aroclor 1268	mg/L	0.00050	0.00010	<0.00050	<0.00010
Total PCBs	mg/L	0.0015	0.00030	<0.0015	<0.00030

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<b>Pesticides, Organochlorine</b>					
Aldrin	ug/L	5.0	5.0	<5.0	<5.0
a-chlordane	ug/L	5.0	5.0	<5.0	<5.0
g-chlordane	ug/L	5.0	5.0	<5.0	<5.0
alpha-BHC	ug/L	5.0	5.0	<5.0	<5.0
beta-BHC	ug/L	5.0	5.0	<5.0	<5.0
delta-BHC	ug/L	5.0	5.0	<5.0	<5.0
op-DDD	ug/L	5.0	5.0	<5.0	<5.0
pp-DDD	ug/L	5.0	5.0	<5.0	<5.0
op-DDE	ug/L	11	5.0	<11	<5.0
pp-DDE	ug/L	5.0	5.0	<5.0	<5.0
op-DDT	ug/L	5.0	5.0	<5.0	<5.0
pp-DDT	ug/L	5.0	5.0	<5.0	<5.0
Dieldrin	ug/L	5.0	5.0	<5.0	<5.0
alpha-Endosulfan	ug/L	22	5.0	<22	<5.0
beta-Endosulfan	ug/L	5.0	5.0	<5.0	<5.0
Endosulfan Sulfate	ug/L	5.0	5.0	<5.0	<5.0
Endrin	ug/L	5.0	5.0	<5.0	<5.0
Endrin Aldehyde	ug/L	5.0	5.0	<5.0	<5.0
Hexachlorobenzene	ug/L	5.0	5.0	<5.0	<5.0
Heptachlor	ug/L	5.0	5.0	<5.0	<5.0
Heptachlor Epoxide	ug/L	5.0	5.0	<5.0	<5.0
Lindane	ug/L	5.0	5.0	<5.0	<5.0
Methoxychlor	ug/L	5.0	5.0	<5.0	<5.0
Mirex	ug/L	5.0	5.0	<5.0	<5.0
Oxychlordane	ug/L	20	5.0	<20	<5.0
Octachlorostyrene	ug/L	0.25	0.25	<0.25	<0.25
Toxaphene	ug/L	5.5	1.5	<5.5	<1.5
<b>EPA 8270 Extractables</b>					
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50

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2,4-Dinitrophenol	ug/L	100	10	<100	<10
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
3&4-Methylphenol	ug/L	50	0.50	196	<0.50
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
4,6-Dinitro-2-methylphenol	ug/L	200	20	<200	<20
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.00	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	6.3	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Cresols, Total	ug/L	55	1.0	196	<1.0
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	2.9	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	40	0.40	52	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40

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Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	50	5.0	<50	<5.0
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	50	0.50	61	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
<b>Volatile Organics plus F1</b>					
Acetone	mg/L	0.020	0.020	1.89	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.00050	0.00050	0.00079	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00418	0.00346
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.0050	0.0050	<0.0050	<0.0050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dinitropyrene	ug/L	100	20	<100	<20
1,6-Dinitropyrene	ug/L	100	20	<100	<20
1,8-Dinitropyrene	ug/L	100	20	<100	<20

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.0010	0.0010	<0.0010	<0.0010
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.0050	0.00050	<0.0050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00287	0.00058
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015

**NOTES:**

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms<sup>-1</sup>/centimeter

<- less than

nr - no result provided by contract lab

*All parameters were analyzed by contract laboratory.*

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2nd Quarter Sampling Parameter	May 26, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	ug/L	1.0	1.0	1.8	1.5
Mercury (Hg)-Total	ng/L	0.5	0.5	25	7.0
Phenols (4AAP)	mg/L	0.0050	0.0020	0.0350	0.0038
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0020	0.0014
Oil and Grease (I.R.)	mg/L	5.0	5.0	15.9	<5.0
Tetraethyl Lead	ug/L	0.0014	0.0014	<0.0014	<0.0014
Tri-n-butyltin Cation	ug/L	0.054	0.055	<0.054	<0.055
pH unStabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L				nr
Alkalinity	mg/L				nr
Temperature	°C		-30.0		15.9
Dissolved Oxygen	mg/L		0.0		7.3
Conductivity	umhos/cm		0		723
pH	units		0.00		7.10
pH Stabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L		2		288
Alkalinity	mg/L		1		257
Temperature	°C		-30.0		15.0
Dissolved Oxygen	mg/L		0.0		7.7
Conductivity	umhos/cm		0		729
pH	units		0.00		6.83
Ammonia, Total (as N)	mg/L		0.00		12.5
Ammonia, Un-ionized (as N)	mg/L				0.02
Chlorine, Total	mg/L		0.00		0.02*
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00191	0.00170
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000122	0.000034
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0024	0.0013
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.04820	0.0092
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.001780	0.00064
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00400	0.00427
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0050	0.0029
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0016	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.0777	0.0224
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	2.3	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	0.76	0.16
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.34	<0.10
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	3.0	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0



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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	0.83	0.76	<0.83	<0.76
12378 PeCDD	pg/L	0.58	0.43	<0.58	0.88
123478 HxCDD	pg/L	0.30	0.47	0.45	0.89
123678 HxCDD	pg/L	0.28	0.40	0.93	0.96
123789 HxCDD	pg/L	0.28	0.42	0.90	0.69
1234678 HpCDD	pg/L	0.70	0.94	10.0	2.90
OCDD	pg/L	0.92	0.53	80.3	12.8
2378 TCDF	pg/L	0.54	0.57	<0.54	<0.57
12378 PeCDF	pg/L	0.50	0.45	0.99	0.76
23478 PeCDF	pg/L	0.46	0.43	<0.46	<0.43
123478 HxCDF	pg/L	0.29	0.37	1.1	0.70
123678 HxCDF	pg/L	0.30	0.30	0.73	0.61
234678 HxCDF	pg/L	0.27	0.33	0.71	0.84
123789 HxCDF	pg/L	0.40	0.45	1.14	0.81
1234678 HpCDF	pg/L	0.39	0.38	2.42	<0.38
1234789 HpCDF	pg/L	0.58	0.55	<0.58	<0.55
OCDF	pg/L	0.59	0.67	4.80	1.70
Total TCDD	pg/L	0.83	0.76	<0.83	5.38
Total PeCDD	pg/L	0.58	0.43	<0.58	0.88
Total HxCDD	pg/L	0.30	0.47	<0.30	0.89
Total HpCDD	pg/L	0.70	0.94	<0.70	<0.94
Total TCDF	pg/L	0.54	0.57	<0.54	<0.57
Total PeCDF	pg/L	0.50	0.45	<0.50	<0.45
Total HxCDF	pg/L	0.40	0.45	1.14	0.70
Total HpCDF	pg/L	0.58	0.55	4.72	<0.55
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-TP	ug/L	0.50	0.50	<0.50	<0.50
MCPA	ug/L	0.50	0.50	<0.50	<0.50
Mecoprop	ug/L	0.50	0.50	<0.50	<0.50
2,4,5-T	ug/L	0.50	0.50	<0.50	<0.50
2,4-D	ug/L	0.50	0.50	<0.50	0.54
2,4-DP	ug/L	0.50	0.50	<0.50	<0.50
Bromoxynil	ug/L	0.50	0.50	<0.50	<0.50
Dicamba	ug/L	0.50	0.50	<0.50	<0.50
Dinoseb	ug/L	0.50	0.50	<0.50	<0.50
Picloram	ug/L	0.50	0.50	<0.50	<0.50
<b>PCB</b>					
Aroclor 1016	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1221	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1232	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1242	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1248	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1254	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1260	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1262	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1268	mg/L	0.00050	0.00050	<0.00050	<0.00050
Total PCBs	mg/L	0.0015	0.0015	<0.0015	<0.0015

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<b>Pesticides, Organochlorine</b>					
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDE	ug/L	18	0.10	<18	<0.10
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	2.4	0.10	<2.4	<0.10
alpha-Endosulfan	ug/L	16	0.10	<16	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
Endosulfan Sulfate	ug/L	1.0	0.10	<1.0	<0.10
Endrin	ug/L	1.0	0.10	<1.0	<0.10
Endrin Aldehyde	ug/L	1.0	0.10	<1.0	<0.10
Hexachlorobenzene	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor Epoxide	ug/L	1.0	0.10	<1.0	<0.10
Lindane	ug/L	1.0	0.10	<1.0	<0.10
Methoxychlor	ug/L	1.0	0.10	<1.0	<0.10
Mirex	ug/L	1.0	0.10	<1.0	<0.10
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
Octachlorostyrene	ug/L	0.20	0.050	<0.20	<0.050
Toxaphene	ug/L	7.5	1.6	<7.5	<1.6
<b>EPA 8270 Extractables</b>					
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
3&4-Methylphenol	ug/L	5.0	0.50	66.7	<0.50
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	10	1.0	<10	<1.0
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.62	<4.0	<0.62
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Cresols, Total	ug/L	10	1.0	67	<1.0
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.24	<2.0	<0.24
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	24.6	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40

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Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	50	0.50	16.2	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
<b>Volatile Organics plus F1</b>					
Acetone	mg/L	0.020	0.020	0.078	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00196	0.00138
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	0.00100	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.00050	0.00050	0.00081	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dinitropyrene	ug/L	10	1.0	<10	<1.0
1,6-Dinitropyrene	ug/L	10	1.0	<10	<1.0
1,8-Dinitropyrene	ug/L	10	1.0	<10	<1.0

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Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.0010	0.0010	<0.0010	<0.0010
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.0010	0.0010	<0.0010	<0.0010
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.0050	0.00050	<0.0050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00248	0.00149
1,2,3-Trichlorobenzene	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015

**NOTES:**

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms<sup>-1</sup>/centimeter

<- less than

nr - no result provided by contract lab

\* suspected interference; the effluent is not chlorinated

*All parameters were analyzed by contract laboratory.*

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	ug/L	1.0	1.0	1.1	1.3
Mercury (Hg)-Total	ng/L	2.5	0.50	358	3.30
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0590	0.0042
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0047	0.0031
Oil and Grease (I.R.)	mg/L	5.0	5.0	35.3	<5.0
Tetraethyl Lead	ug/L	0.0140	0.00140	<0.0140	<0.00140
Tri-n-butyltin Cation	ug/L	0.056	0.054	<0.056	<0.054
pH unStabilized Trout Bioassay	Pass/Fail				Fail
Hardness	mg/L				nr
Alkalinity	mg/L				nr
Temperature	°C				15.5
Dissolved Oxygen	mg/L				7.7
Conductivity	umhos/cm				962
pH	units				6.60
pH Stabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L				190
Alkalinity	mg/L				nr
Temperature	°C				15.5
Dissolved Oxygen	mg/L				7.7
Conductivity	umhos/cm				962
pH	units				6.60
Ammonia, Total (as N)	mg/L				24.4
Ammonia, Un-ionized (as N)	mg/L				0.03
Chlorine, Total	mg/L				nr
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00119	0.00082
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000100	<0.000010
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0019	0.0013
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.06430	0.0064
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.002080	0.00027
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00465	0.00316
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0069	0.0043
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.1000	0.0204
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	2.5	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.26	0.16
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.44	<0.10
Bisphenol A	ug/L	0.20	0.20	0.25	0.32
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	3.8	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	0.58	0.56	<0.58	<0.56
12378 PeCDD	pg/L	0.31	0.36	0.45	<0.36
123478 HxCDD	pg/L	0.37	0.35	<0.37	<0.35
123678 HxCDD	pg/L	0.36	0.35	0.44	<0.35
123789 HxCDD	pg/L	0.39	0.37	<0.39	<0.37
1234678 HpCDD	pg/L	0.51	0.34	9.45	0.88
OCDD	pg/L	0.71	0.62	81.2	3.72
2378 TCDF	pg/L	0.43	0.52	<0.43	<0.52
12378 PeCDF	pg/L	0.25	0.22	0.40	0.50
23478 PeCDF	pg/L	0.23	0.19	0.35	0.25
123478 HxCDF	pg/L	0.30	0.26	<0.30	<0.26
123678 HxCDF	pg/L	0.29	0.26	<0.29	<0.26
234678 HxCDF	pg/L	0.32	0.26	0.46	<0.26
123789 HxCDF	pg/L	0.40	0.34	<0.40	0.62
1234678 HpCDF	pg/L	0.22	0.28	1.58	0.42
1234789 HpCDF	pg/L	0.30	0.40	<0.30	<0.40
OCDF	pg/L	0.47	0.55	3.84	<0.55
Total TCDD	pg/L	0.58	0.56	<0.58	1.69
Total PeCDD	pg/L	0.31	0.36	4.39	<0.36
Total HxCDD	pg/L	0.39	0.37	1.76	<0.37
Total HpCDD	pg/L	0.51	0.34	18.9	0.88
Total TCDF	pg/L	0.43	0.52	<0.43	<0.52
Total PeCDF	pg/L	0.25	0.22	0.48	0.25
Total HxCDF	pg/L	0.40	0.34	1.52	0.42
Total HpCDF	pg/L	0.30	0.40	3.45	0.42
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-TP	ug/L	2.5	2.5	<2.5	<2.5
MCPA	ug/L	2.5	2.5	<2.5	<2.5
Mecoprop	ug/L	2.5	2.5	<2.5	<2.5
2,4,5-T	ug/L	2.5	2.5	<2.5	<2.5
2,4-D	ug/L	2.5	2.5	<2.5	<2.5
2,4-DP	ug/L	2.5	2.5	<2.5	<2.5
Bromoxynil	ug/L	2.5	2.5	<2.5	<2.5
Dicamba	ug/L	2.5	2.5	<2.5	<2.5
Dinoseb	ug/L	2.5	2.5	<2.5	<2.5
Picloram	ug/L	2.5	2.5	<2.5	<2.5
<b>PCB</b>					
Aroclor 1016	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1221	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1232	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1242	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1248	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1254	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1260	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1262	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1268	mg/L	0.00050	0.00050	<0.00050	<0.00050
Total PCBs	mg/L	0.0015	0.0015	<0.0015	<0.0015

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Pesticides, Organochlorine</b>					
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
Endosulfan Sulfate	ug/L	1.0	0.10	<1.0	<0.10
Endrin	ug/L	1.0	0.10	<1.0	<0.10
Endrin Aldehyde	ug/L	1.0	0.10	<1.0	<0.10
Hexachlorobenzene	ug/L	2.6	0.10	<2.6	<0.10
Heptachlor	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor Epoxide	ug/L	1.0	0.10	<1.0	<0.10
Lindane	ug/L	1.0	0.10	<1.0	<0.10
Methoxychlor	ug/L	1.0	0.10	<1.0	<0.10
Mirex	ug/L	1.0	0.10	<1.0	<0.10
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Toxaphene	ug/L	3.9	0.90	<3.9	<0.90
<b>EPA 8270 Extractables</b>					
1-Chloronaphthalene	ug/L	4.0	2.0	<4.0	<2.0
1-Methylnaphthalene	ug/L	4.0	2.0	<4.0	<2.0
1,2-Dichlorobenzene	ug/L	4.0	2.0	<4.0	<2.0
1,2,3-Trichlorobenzene	ug/L	4.0	2.0	<4.0	<2.0
1,2,4-Trichlorobenzene	ug/L	4.0	2.0	<4.0	<2.0
1,3-Dichlorobenzene	ug/L	4.0	2.0	<4.0	<2.0
1,4-Dichlorobenzene	ug/L	4.0	2.0	<4.0	<2.0
2-Chloronaphthalene	ug/L	4.0	2.0	<4.0	<2.0
2-Chlorophenol	ug/L	3.0	1.5	<3.0	<1.5
2-Methylnaphthalene	ug/L	4.0	2.0	<4.0	<2.0
2-Methylphenol	ug/L	5.0	2.5	<5.0	<2.5
2-Nitrophenol	ug/L	5.0	2.5	<5.0	<2.5
2,3,4-Trichlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,3,4,5-Tetrachlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,3,4,6-Tetrachlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,3,5-Trichlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,3,5,6-Tetrachlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,4-Dichlorophenol	ug/L	3.0	1.5	<3.0	<1.5
2,4-Dimethylphenol	ug/L	5.0	2.5	<5.0	<2.5



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3rd Quarter Sampling Parameter	August 16, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2,4-Dinitrophenol	ug/L	10	5.0	<10	<5.0
2,4-Dinitrotoluene	ug/L	4.0	2.0	<4.0	<2.0
2,4,5-Trichlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,4,6-Trichlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,6-Dichlorophenol	ug/L	5.0	2.5	<5.0	<2.5
2,6-Dinitrotoluene	ug/L	4.0	2.0	<4.0	<2.0
3,3'-Dichlorobenzidine	ug/L	4.0	2.0	<4.0	<2.0
3&4-Methylphenol	ug/L	50	2.5	124	<2.5
4-Bromophenyl phenyl ether	ug/L	4.0	2.0	<4.0	<2.0
4-Chloro-3-methylphenol	ug/L	5.0	2.5	<5.0	<2.5
4-Chloroaniline	ug/L	4.0	2.0	<4.0	<2.0
4-Chlorophenyl phenyl ether	ug/L	4.0	2.0	<4.0	<2.0
4-Nitrophenol	ug/L	15	7.5	<15	<7.5
4,6-Dinitro-2-methylphenol	ug/L	20	10	<20	<10
5-Nitroacenaphthene	ug/L	4.0	2.0	<4.0	<2.0
Acenaphthene	ug/L	2.0	1.0	<2.0	<1.0
Acenaphthylene	ug/L	2.0	1.0	<2.0	<1.0
Anthracene	ug/L	2.0	1.0	<2.0	<1.0
Benzo(a)anthracene	ug/L	2.0	1.0	<2.0	<1.0
Benzo(a)pyrene	ug/L	0.50	0.25	<0.50	<0.25
Benzo(b)fluoranthene	ug/L	2.0	1.0	<2.0	<1.0
Benzo(ghi)perylene	ug/L	2.0	1.0	<2.0	<1.0
Benzo(k)fluoranthene	ug/L	2.0	1.0	<2.0	<1.0
Biphenyl	ug/L	4.0	2.0	<4.0	<2.0
Bis(2-chloroethoxy)methane	ug/L	4.0	2.0	<4.0	<2.0
Bis(2-chloroethyl)ether	ug/L	4.0	2.0	<4.0	<2.0
Bis(2-chloroisopropyl)ether	ug/L	4.0	2.0	<4.0	<2.0
Bis(2-ethylhexyl)phthalate	ug/L	20	10	<20	<10
Butylbenzyl phthalate	ug/L	7.0	2.0	<7.0	<2.0
Camphene	ug/L	4.0	2.0	<4.0	<2.0
Chrysene	ug/L	2.0	1.0	<2.0	<1.0
Cresols, Total	ug/L	55	5.0	124	<5.0
Di-n-butylphthalate	ug/L	20	10	<20	<10
Di-n-octylphthalate	ug/L	4.0	2.0	<4.0	<2.0
Dibenzo(a,h)anthracene	ug/L	2.0	1.0	<2.0	<1.0
Dibenzofuran	ug/L	2.0	1.0	<2.0	<1.0
Diethylphthalate	ug/L	2.0	1.0	3.0	<1.0
Dimethylphthalate	ug/L	2.0	1.0	<2.0	<1.0
Diphenyl ether	ug/L	4.0	2.0	<4.0	<2.0
Diphenylamine	ug/L	4.0	2.0	<4.0	<2.0
Fluoranthene	ug/L	2.0	1.0	<2.0	<1.0
Fluorene	ug/L	2.0	1.0	<2.0	<1.0
Hexachlorobenzene	ug/L	0.4	0.20	<0.40	<0.20
Hexachlorobutadiene	ug/L	2.0	1.0	<2.0	<1.0
Hexachlorocyclopentadiene	ug/L	8.0	4.0	<8.0	<4.0
Hexachloroethane	ug/L	4.0	2.0	<4.0	<2.0
Indeno(1,2,3-cd)pyrene	ug/L	2.0	1.0	<2.0	<1.0
Indole	ug/L	4.0	2.0	18.1	<2.0
Isophorone	ug/L	4.0	2.0	<4.0	<2.0
N-Nitroso-di-n-propylamine	ug/L	4.0	2.0	<4.0	<2.0

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Naphthalene	ug/L	2.0	1.0	<2.0	<1.0
Nitrobenzene	ug/L	4.0	2.0	<4.0	<2.0
Pentachlorophenol	ug/L	5.0	2.5	<5.0	<2.5
Perylene	ug/L	2.0	1.0	<2.0	<1.0
Phenanthrene	ug/L	2.0	1.0	<2.0	<1.0
Phenol	ug/L	5.0	2.5	27.3	<2.5
Pyrene	ug/L	2.0	1.0	<2.0	<1.0
<b>Volatile Organics plus F1</b>					
Acetone	mg/L	0.020	0.020	0.373	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.0015	0.0015	<0.0015	<0.0015
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00466	0.00312
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	0.00062	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.00050	0.00050	0.00812	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dinitropyrene	ug/L	20	1.0	<20	<1.0
1,6-Dinitropyrene	ug/L	20	1.0	<20	<1.0
1,8-Dinitropyrene	ug/L	20	1.0	<20	<1.0

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3rd Quarter Sampling Parameter	August 16, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.0010	0.0010	<0.0010	<0.0010
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
4,4'-Methylenebis(2-chloroaniline)	mg/L	10	0.50	<10	<0.50
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00272	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015

**NOTES:**

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms<sup>-1</sup>/centimeter

<- less than

nr - no result provided by contract lab

*All parameters were analyzed by contract laboratory.*

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4th Quarter Sampling Parameter	November 17, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	ug/L	1.0	1.0	2.3	1.5
Mercury (Hg)-Total	ng/L	1.0	0.50	73.2	3.70
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0561	0.0023
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0033	0.0025
Oil and Grease (I.R.)	mg/L	5.0	5.0	41.7	<5.0
Tetraethyl Lead	ug/L	0.0070	0.0070	<0.0070	<0.0070
Tri-n-butyltin Cation	ug/L	0.053	0.056	<0.053	<0.056
pH unStabilized Trout Bioassay	Pass/Fail				Fail
Hardness	mg/L				230
Alkalinity	mg/L				320
Temperature	°C		-50		14.3
Dissolved Oxygen	mg/L				7.44
Conductivity	umhos/cm				1113
pH	units		0.10		6.73
pH Stabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L				220
Alkalinity	mg/L				320
Temperature	°C		-50		14.6
Dissolved Oxygen	mg/L				8.10
Conductivity	umhos/cm				1110
pH	units		0.10		6.76
Ammonia, Total (as N)	mg/L		1.0		36.0
Ammonia, Un-ionized (as N)	mg/L		0.010		0.055
Chlorine, Total	mg/L		0.10		<0.10
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00191	0.00073
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000115	0.000011
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0028	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.09400	0.0100
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.001870	0.00036
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00502	0.00704
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0095	0.0065
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.1170	0.0282
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	1.0	1.0	<1.0	1.2
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	4.0	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.30	0.35
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	2.2	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.81	<0.10
Bisphenol A	ug/L	0.20	0.20	0.28	0.42
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	5.3	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	3.0	<2.0

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4th Quarter Sampling Parameter	November 17, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	1.0	1.40	<1.0	<1.40
12378 PeCDD	pg/L	0.68	0.69	<0.68	<0.69
123478 HxCDD	pg/L	0.55	0.62	<0.55	<0.62
123678 HxCDD	pg/L	0.60	0.65	<0.60	<0.65
123789 HxCDD	pg/L	0.61	0.67	<0.61	<0.67
1234678 HpCDD	pg/L	0.79	0.73	11.0	0.76
OCDD	pg/L	0.67	0.66	90.0	4.11
2378 TCDF	pg/L	0.75	0.78	<0.75	<0.78
12378 PeCDF	pg/L	0.41	0.44	<0.41	<0.44
23478 PeCDF	pg/L	0.37	0.39	<0.37	<0.39
123478 HxCDF	pg/L	0.55	0.60	<0.55	<0.60
123678 HxCDF	pg/L	0.56	0.58	<0.56	<0.58
234678 HxCDF	pg/L	0.52	0.60	<0.52	<0.60
123789 HxCDF	pg/L	0.66	0.77	<0.66	<0.77
1234678 HpCDF	pg/L	0.74	0.43	1.30	<0.43
1234789 HpCDF	pg/L	0.96	0.57	<0.96	<0.57
OCDF	pg/L	0.78	0.90	3.40	1.50
Total TCDD	pg/L	1.0	1.40	<1.0	<1.40
Total PeCDD	pg/L	0.68	0.69	1.93	<0.69
Total HxCDD	pg/L	0.61	0.67	2.49	<0.67
Total HpCDD	pg/L	0.79	0.73	15.6	0.76
Total TCDF	pg/L	0.75	0.78	<0.75	<0.78
Total PeCDF	pg/L	0.41	0.44	<0.41	<0.44
Total HxCDF	pg/L	0.66	0.77	<0.66	<0.77
Total HpCDF	pg/L	0.96	0.57	<0.96	<0.57
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	5.0	0.50	<5.0	<0.50
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
<b>PCB</b>					
Aroclor 1016	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1221	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1232	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1242	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1248	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1254	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1260	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1262	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1268	mg/L	0.00050	0.00050	<0.00050	<0.00050
Total PCBs	mg/L	0.0015	0.0015	<0.0015	<0.0015

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4th Quarter Sampling Parameter	November 17, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Pesticides, Organochlorine</b>					
Aldrin	ug/L	2.5	0.10	<2.5	<0.10
a-chlordane	ug/L	2.5	0.10	<2.5	<0.10
g-chlordane	ug/L	2.5	0.10	<2.5	<0.10
alpha-BHC	ug/L	2.5	0.10	<2.5	<0.10
beta-BHC	ug/L	2.5	0.10	<2.5	<0.10
delta-BHC	ug/L	2.5	0.10	<2.5	<0.10
op-DDD	ug/L	2.5	0.10	<2.5	<0.10
pp-DDD	ug/L	2.5	0.10	<2.5	<0.10
op-DDE	ug/L	16.0	0.10	<16.0	<0.10
pp-DDE	ug/L	2.5	0.10	<2.5	<0.10
op-DDT	ug/L	2.5	0.10	<2.5	<0.10
pp-DDT	ug/L	2.5	0.10	<2.5	<0.10
Dieldrin	ug/L	5.0	0.10	<5.0	<0.10
alpha-Endosulfan	ug/L	9.2	0.10	<9.2	<0.10
beta-Endosulfan	ug/L	2.5	0.10	<2.5	<0.10
Endosulfan Sulfate	ug/L	2.5	0.10	<2.5	<0.10
Endrin	ug/L	2.5	0.10	<2.5	<0.10
Endrin Aldehyde	ug/L	2.5	0.10	<2.5	<0.10
Hexachlorobenzene	ug/L	2.5	0.10	<2.5	<0.10
Heptachlor	ug/L	2.5	0.10	<2.5	<0.10
Heptachlor Epoxide	ug/L	2.5	0.10	<2.5	<0.10
Lindane	ug/L	2.5	0.10	<2.5	<0.10
Methoxychlor	ug/L	2.5	0.10	<2.5	<0.10
Mirex	ug/L	2.5	0.10	<2.5	<0.10
Oxychlordane	ug/L	2.5	0.10	<2.5	<0.10
Octachlorostyrene	ug/L	0.25	0.050	<0.25	<0.050
Toxaphene	ug/L	4.2	3.0	<4.2	<3.0
<b>EPA 8270 Extractables</b>					
1-Chloronaphthalene	ug/L	40	40	<40	<40
1-Methylnaphthalene	ug/L	40	40	<40	<40
1,2-Dichlorobenzene	ug/L	40	40	<40	<40
1,2,3-Trichlorobenzene	ug/L	40	40	<40	<40
1,2,4-Trichlorobenzene	ug/L	40	40	<40	<40
1,3-Dichlorobenzene	ug/L	40	40	<40	<40
1,4-Dichlorobenzene	ug/L	40	40	<40	<40
2-Chloronaphthalene	ug/L	40	40	<40	<40
2-Chlorophenol	ug/L	30	30	<30	<30
2-Methylnaphthalene	ug/L	40	40	<40	<40
2-Methylphenol	ug/L	50	50	<50	<50
2-Nitrophenol	ug/L	50	50	<50	<50
2,3,4-Trichlorophenol	ug/L	50	50	<50	<50
2,3,4,5-Tetrachlorophenol	ug/L	50	50	<50	<50
2,3,4,6-Tetrachlorophenol	ug/L	50	50	<50	<50
2,3,5-Trichlorophenol	ug/L	50	50	<50	<50
2,3,5,6-Tetrachlorophenol	ug/L	50	50	<50	<50
2,4-Dichlorophenol	ug/L	30	30	<30	<30
2,4-Dimethylphenol	ug/L	50	50	<50	<50

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4th Quarter Sampling Parameter	November 17, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2,4-Dinitrophenol	ug/L	100	100	<100	<100
2,4-Dinitrotoluene	ug/L	40	40	<40	<40
2,4,5-Trichlorophenol	ug/L	50	50	<50	<50
2,4,6-Trichlorophenol	ug/L	50	50	<50	<50
2,6-Dichlorophenol	ug/L	50	50	<50	<50
2,6-Dinitrotoluene	ug/L	40	40	<40	<40
3,3'-Dichlorobenzidine	ug/L	40	40	<40	<40
3&4-Methylphenol	ug/L	50	50	104	<50
4-Bromophenyl phenyl ether	ug/L	40	40	<40	<40
4-Chloro-3-methylphenol	ug/L	50	50	<50	<50
4-Chloroaniline	ug/L	40	40	<40	<40
4-Chlorophenyl phenyl ether	ug/L	40	40	<40	<40
4-Nitrophenol	ug/L	50	50	<50	<50
4,6-Dinitro-2-methylphenol	ug/L	200	200	<200	<200
5-Nitroacenaphthene	ug/L	40	40	<40	<40
Acenaphthene	ug/L	20	20	<20	<20
Acenaphthylene	ug/L	20	20	<20	<20
Anthracene	ug/L	20	20	<20	<20
Benzo(a)anthracene	ug/L	20	20	<20	<20
Benzo(a)pyrene	ug/L	5.0	5.0	<5.0	<5.0
Benzo(b)fluoranthene	ug/L	20	20	<20	<20
Benzo(ghi)perylene	ug/L	20	20	<20	<20
Benzo(k)fluoranthene	ug/L	20	20	<20	<20
Biphenyl	ug/L	40	40	<40	<40
Bis(2-chloroethoxy)methane	ug/L	40	40	<40	<40
Bis(2-chloroethyl)ether	ug/L	40	40	<40	<40
Bis(2-chloroisopropyl)ether	ug/L	40	40	<40	<40
Bis(2-ethylhexyl)phthalate	ug/L	200	200	<200	<200
Butylbenzyl phthalate	ug/L	40	40	<40	<40
Camphene	ug/L	40	40	<40	<40
Chrysene	ug/L	20	20	<20	<20
Cresols, Total	ug/L	100	100	100	<100
Di-n-butylphthalate	ug/L	200	200	<200	<200
Di-n-octylphthalate	ug/L	40	40	<40	<40
Dibenzo(a,h)anthracene	ug/L	20	20	<20	<20
Dibenzofuran	ug/L	20	20	<20	<20
Diethylphthalate	ug/L	20	20	<20	<20
Dimethylphthalate	ug/L	20	20	<20	<20
Diphenyl ether	ug/L	40	40	<40	<40
Diphenylamine	ug/L	40	40	<40	<40
Fluoranthene	ug/L	20	20	<20	<20
Fluorene	ug/L	20	20	<20	<20
Hexachlorobenzene	ug/L	4.0	4.0	<4.0	<4.0
Hexachlorobutadiene	ug/L	20	20	<20	<20
Hexachlorocyclopentadiene	ug/L	40	40	<40	<40
Hexachloroethane	ug/L	40	40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/L	20	20	<20	<20
Indole	ug/L	40	40	<40	<40
Isophorone	ug/L	40	40	<40	<40
N-Nitroso-di-n-propylamine	ug/L	40	40	<40	<40

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4th Quarter Sampling Parameter	November 17, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Naphthalene	ug/L	20	20	<20	<20
Nitrobenzene	ug/L	40	40	<40	<40
Pentachlorophenol	ug/L	50	50	<50	<50
Perylene	ug/L	20	20	<20	<20
Phenanthrene	ug/L	20	20	<20	<20
Phenol	ug/L	50	50	<50	<50
Pyrene	ug/L	20	20	<20	<20
<b>Volatile Organics plus F1</b>					
Acetone	mg/L	0.020	0.020	0.127	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.0020	0.00050	<0.0020	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00329	0.00251
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.0010	0.00480	<0.0010
Dichlorodifluoromethane	mg/L	0.0020	0.0020	<0.0020	<0.0020
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,3-Dinitropyrene	ug/L	10	1.0	<10	<1.0
1,6-Dinitropyrene	ug/L	10	1.0	<10	<1.0
1,8-Dinitropyrene	ug/L	10	1.0	<10	<1.0



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4th Quarter Sampling Parameter	November 17, 2016			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.0010	0.0010	0.0037	<0.0010
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
4,4'-Methylenebis(2-chloroaniline)	mg/L	5.0	0.50	<5.0	<0.50
Styrene	mg/L	0.0010	0.00050	<0.0010	<0.00050
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00245	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.0010	0.0010	<0.0010	<0.0010
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015

**NOTES:**

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms<sup>-1</sup>/centimeter

<- less than

nr - no result provided by contract lab

*All parameters were analyzed by contract laboratory.*