



Water and Waste Department  
Environmental Standards Division

# WEWPCC SCHEDULE A Quarterly Monitoring Reports



**January 2016 – December 2016**

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**City Of Winnipeg  
Water Waste Department**

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

1st Quarter Sampling Parameter	February 11, 2016			WEWPCC	
	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	0.50	113	5.53
Phenols (4AAP)	mg/L	0.010	0.0010	0.058	0.0373
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0033	0.0014
Oil and Grease (I.R.)	mg/L	5.0	5.0	37.4	8.2
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Tri-n-butyltin Cation	ug/L	0.053	0.057	<0.053	<0.057
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		5.2
Conductivity	umhos/cm		0		1230
pH	units		0.00		7.29
pH Stabilized Trout Bioassay	Pass/Fail				Fail
Hardness	mg/L		2		298
Alkalinity	mg/L		1		362
Temperature	°C		-30.0		15.1
Dissolved Oxygen	mg/L		0.0		5.2
Conductivity	umhos/cm		0		1230
pH	units		0.00		7.29
Ammonia, Total (as N)	mg/L		0.00		84.2
Ammonia, Un-ionized (as N)	mg/L				0.45
Chlorine, Total	mg/L		0.00		0.00
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00066	0.00083
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000078	0.000012
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0012	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.0623	0.01240
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00150	0.00029
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00223	0.00379
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0030	0.0054
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.0609	0.0104
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	1.0	1.0	1.9	1.2
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	5.4	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	2.17	0.90
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	<0.10	<0.10
Bisphenol A	ug/L	0.20	0.20	<0.20	0.25
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	7.6	2.5
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	1.5	2.8	<1.5	<2.8
12378 PeCDD	pg/L	1.1	2.1	<1.1	<2.1
123478 HxCDD	pg/L	0.82	1.8	<0.82	<1.8
123678 HxCDD	pg/L	0.73	1.5	<0.73	<1.5
123789 HxCDD	pg/L	0.76	1.6	<0.76	<1.6
1234678 HpCDD	pg/L	1.1	2.6	2.5	<2.6
OCDD	pg/L	1.5	3.2	11.0	4.0
2378 TCDF	pg/L	0.99	1.9	<0.99	<1.9
12378 PeCDF	pg/L	0.59	1.3	<0.59	<1.3
23478 PeCDF	pg/L	0.51	1.1	<0.51	<1.1
123478 HxCDF	pg/L	1.0	1.0	<1.0	<1.0
123678 HxCDF	pg/L	0.93	0.94	<0.93	<0.94
234678 HxCDF	pg/L	0.91	1.0	<0.91	<1.0
123789 HxCDF	pg/L	1.5	1.6	<1.5	<1.6
1234678 HpCDF	pg/L	0.90	1.2	<0.90	<1.2
1234789 HpCDF	pg/L	1.5	1.9	<1.5	<1.9
OCDF	pg/L	1.4	2.7	<1.4	<2.7
Total TCDD	pg/L	1.5	2.8	<1.5	<2.8
Total PeCDD	pg/L	1.1	2.1	<1.1	<2.1
Total HxCDD	pg/L	0.82	1.8	<0.82	<1.8
Total HpCDD	pg/L	1.1	2.6	<1.1	<2.6
Total TCDF	pg/L	0.99	1.9	<0.99	<1.9
Total PeCDF	pg/L	0.59	1.3	<0.59	<1.3
Total HxCDF	pg/L	1.5	1.6	<1.5	<1.6
Total HpCDF	pg/L	1.5	1.9	<1.5	<1.9
<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	<0.50
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	0.55	0.50	<0.55	<0.50
Picloram	ug/L	0.50	0.50	<0.50	<0.50
<b>PCB</b>					
Aroclor 1016	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1221	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1232	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1242	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1248	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1254	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1260	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1262	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1268	mg/L	0.00010	0.00010	<0.00010	<0.00010
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<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	5.0	5.0	<5.0	<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	10	5.0	<10.0	<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	5.0	5.0	<5.0	<5.0
Octachlorostyrene	ug/L	0.25	0.25	<0.25	<0.25
Toxaphene	ug/L	3.6	2.0	<3.6	<2.0
<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	5.0	142	41
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	20.0	<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	2.0	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<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	5.5	142	41.2
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	2.4	0.9
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	4.0	31.1	4.4
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	5.0	5.0	33	8
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
<b>Volatile Organics plus F1</b>					
Acetone	mg/L	0.020	0.020	0.063	0.022
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	0.00064	0.00112
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	0.00331	0.00144
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	0.00310	0.00154
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

na - not analyzed due to contract lab error

*All parameters were analyzed by contract laboratory.*

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2nd Quarter Sampling Parameter	May 26, 2016			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	ug/L	1.0	1.0	1.2	1.1
Mercury (Hg)-Total	ng/L	0.50	0.50	33.4	3.04
Phenols (4AAP)	mg/L	0.0020	0.0010	0.0135	0.0018
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0015	<0.0010
Oil and Grease (I.R.)	mg/L	5.0	5.0	12.5	<5.0
Tetraethyl Lead	ug/L	0.00140	0.0028	<0.00140	<0.0028
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		7.6
Conductivity	umhos/cm		0		810
pH	units		0.00		9.00
pH Stabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L		2		246
Alkalinity	mg/L		1		146
Temperature	°C		-30.0		15.0
Dissolved Oxygen	mg/L		0.0		7.7
Conductivity	umhos/cm		0		797
pH	units		0.00		8.55
Ammonia, Total (as N)	mg/L		0.00		1.55
Ammonia, Un-ionized (as N)	mg/L				0.11
Chlorine, Total	mg/L		0.00		0.04*
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00240	0.00159
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000123	0.000017
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0018	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.0436	0.00407
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00278	0.000490
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.0240	0.00574
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0044	0.0037
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.0623	0.0032
<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	<2.0	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	0.81	<0.10
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	<0.10	<0.10
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	<2.0	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0



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<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	0.74	0.81	<0.74	<0.81
12378 PeCDD	pg/L	0.62	0.38	1.19	0.52
123478 HxCDD	pg/L	0.39	0.49	0.76	0.87
123678 HxCDD	pg/L	0.37	0.42	1.40	0.62
123789 HxCDD	pg/L	0.37	0.44	1.30	<0.44
1234678 HpCDD	pg/L	0.51	0.63	10.1	1.5
OCDD	pg/L	0.61	0.61	71.9	7.4
2378 TCDF	pg/L	0.45	0.49	<0.45	<0.49
12378 PeCDF	pg/L	0.33	0.39	0.78	<0.39
23478 PeCDF	pg/L	0.30	0.35	0.81	0.98
123478 HxCDF	pg/L	0.35	0.37	0.89	0.76
123678 HxCDF	pg/L	0.33	0.35	0.90	0.87
234678 HxCDF	pg/L	0.32	0.34	0.74	0.84
123789 HxCDF	pg/L	0.43	0.47	0.80	0.92
1234678 HpCDF	pg/L	0.36	0.38	3.10	<0.38
1234789 HpCDF	pg/L	0.51	0.56	1.21	<0.56
OCDF	pg/L	0.45	0.59	10.7	1.00
Total TCDD	pg/L	0.74	0.81	<0.74	<0.81
Total PeCDD	pg/L	0.62	0.38	1.19	<0.38
Total HxCDD	pg/L	0.39	0.49	<0.39	<0.49
Total HpCDD	pg/L	0.51	0.63	10.9	<0.63
Total TCDF	pg/L	0.45	0.49	<0.45	<0.49
Total PeCDF	pg/L	0.33	0.39	<0.33	<0.39
Total HxCDF	pg/L	0.43	0.47	<0.43	0.76
Total HpCDF	pg/L	0.51	0.56	1.21	<0.56
<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	<0.50
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	0.00075	<0.00050	<0.00075
Aroclor 1221	mg/L	0.00050	0.00075	<0.00050	<0.00075
Aroclor 1232	mg/L	0.00050	0.00075	<0.00050	<0.00075
Aroclor 1242	mg/L	0.00050	0.00075	<0.00050	<0.00075
Aroclor 1248	mg/L	0.00050	0.00075	<0.00050	<0.00075
Aroclor 1254	mg/L	0.00050	0.00075	<0.00050	<0.00075
Aroclor 1260	mg/L	0.00050	0.00075	<0.00050	<0.00075
Aroclor 1262	mg/L	0.00050	0.00075	<0.00050	<0.00075
Aroclor 1268	mg/L	0.00050	0.00075	<0.00050	<0.00075
Total PCBs	mg/L	0.0015	0.0023	<0.0015	<0.0023

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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	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	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	4.3	2.4	<4.3	<2.4
<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	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	34.3	<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	1.0	<5.0	<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	0.40	<4.0	<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	10	1.0	34	<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	<2.0	<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	4.0	0.40	4.6	<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	5.0	0.50	5.4	<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	<0.020	<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	0.00148	<0.00050
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	0.00050	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	0.00050	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	0.00100	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	0.00106	<0.00050
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

na - not analyzed due to contract lab error

\* 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	<1.0	1.8
Mercury (Hg)-Total	ng/L	2.5	0.50	673	8.60
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0302	0.0019
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0032	<0.0010
Oil and Grease (I.R.)	mg/L	5.0	5.0	16.2	<5.0
Tetraethyl Lead	ug/L	0.0140	0.0140	<0.0140	<0.0140
Tri-n-butyltin Cation	ug/L	0.052	0.055	<0.052	<0.055
pH unStabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L				nr
Alkalinity	mg/L				nr
Temperature	°C				15.5
Dissolved Oxygen	mg/L				6.9
Conductivity	umhos/cm				1731
pH	units				8.80
pH Stabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L				490
Alkalinity	mg/L				nr
Temperature	°C				15.5
Dissolved Oxygen	mg/L				6.9
Conductivity	umhos/cm				1731
pH	units				8.80
Ammonia, Total (as N)	mg/L				0.38
Ammonia, Un-ionized (as N)	mg/L				0.06
Chlorine, Total	mg/L				nr
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00109	0.00235
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000058	0.000024
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0010	0.0017
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.0553	0.00936
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00158	0.000893
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.0028	0.00429
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0040	0.0039
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.0755	0.0076
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	1.0	1.0	3.1	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	7.4	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.92	<0.10
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	0.12	<0.10
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	9.4	<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	1.4	0.69	<1.4	<0.69
12378 PeCDD	pg/L	0.64	0.30	<0.64	<0.30
123478 HxCDD	pg/L	0.67	0.41	<0.67	<0.41
123678 HxCDD	pg/L	0.67	0.40	<0.67	<0.40
123789 HxCDD	pg/L	0.70	0.43	<0.70	<0.43
1234678 HpCDD	pg/L	0.87	0.46	8.69	1.38
OCDD	pg/L	0.94	0.75	46.1	9.75
2378 TCDF	pg/L	1.2	0.68	<1.2	<0.68
12378 PeCDF	pg/L	0.36	0.27	0.66	0.44
23478 PeCDF	pg/L	0.31	0.23	<0.31	0.29
123478 HxCDF	pg/L	0.48	0.22	<0.48	0.24
123678 HxCDF	pg/L	0.47	0.21	<0.47	0.23
234678 HxCDF	pg/L	0.49	0.22	<0.49	0.28
123789 HxCDF	pg/L	0.63	0.28	<0.63	0.57
1234678 HpCDF	pg/L	0.41	0.17	1.60	0.52
1234789 HpCDF	pg/L	0.50	0.25	<0.50	<0.25
OCDF	pg/L	0.85	0.51	3.2	0.59
Total TCDD	pg/L	1.4	0.69	<1.4	1.67
Total PeCDD	pg/L	0.64	0.30	<0.64	0.53
Total HxCDD	pg/L	0.70	0.43	<0.70	<0.43
Total HpCDD	pg/L	0.87	0.46	8.69	1.38
Total TCDF	pg/L	1.2	0.68	<1.2	<0.68
Total PeCDF	pg/L	0.36	0.27	0.66	<0.27
Total HxCDF	pg/L	0.63	0.28	<0.63	0.28
Total HpCDF	pg/L	0.50	0.25	1.07	<0.25
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-TP	ug/L	2.5	0.50	<2.5	<0.50
MCPA	ug/L	2.5	0.50	<2.5	<0.50
Mecoprop	ug/L	2.5	0.50	<2.5	<0.50
2,4,5-T	ug/L	2.5	0.50	<2.5	<0.50
2,4-D	ug/L	2.5	0.50	<2.5	<0.50
2,4-DP	ug/L	2.5	0.50	<2.5	<0.50
Bromoxynil	ug/L	2.5	0.50	<2.5	<0.50
Dicamba	ug/L	2.5	0.50	<2.5	<0.50
Dinoseb	ug/L	2.5	0.50	<2.5	<0.50
Picloram	ug/L	2.5	0.50	<2.5	<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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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Pesticides, Organochlorine</b>					
Aldrin	ug/L	0.50	0.50	<0.50	<0.50
a-chlordane	ug/L	0.50	0.50	<0.50	<0.50
g-chlordane	ug/L	0.50	0.50	<0.50	<0.50
alpha-BHC	ug/L	0.50	0.50	<0.50	<0.50
beta-BHC	ug/L	0.50	0.50	<0.50	<0.50
delta-BHC	ug/L	0.50	0.50	<0.50	<0.50
op-DDD	ug/L	0.50	0.50	<0.50	<0.50
pp-DDD	ug/L	0.50	0.50	<0.50	<0.50
op-DDE	ug/L	1.6	0.50	<1.6	<0.50
pp-DDE	ug/L	0.50	0.50	<0.50	<0.50
op-DDT	ug/L	1.0	1.0	<1.0	<1.0
pp-DDT	ug/L	1.0	1.0	<1.0	<1.0
Dieldrin	ug/L	6.1	0.50	<6.1	<0.50
alpha-Endosulfan	ug/L	0.70	0.50	<0.70	<0.50
beta-Endosulfan	ug/L	0.50	0.50	<0.50	<0.50
Endosulfan Sulfate	ug/L	0.50	0.50	<0.50	<0.50
Endrin	ug/L	0.50	0.50	<0.50	<0.50
Endrin Aldehyde	ug/L	0.50	0.50	<0.50	<0.50
Hexachlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Heptachlor	ug/L	0.50	0.50	<0.50	<0.50
Heptachlor Epoxide	ug/L	0.50	0.50	<0.50	<0.50
Lindane	ug/L	0.50	0.50	<0.50	<0.50
Methoxychlor	ug/L	1.0	1.0	<1.0	<1.0
Mirex	ug/L	0.50	0.50	<0.50	<0.50
Oxychlordane	ug/L	0.50	0.50	<0.50	<0.50
Octachlorostyrene	ug/L	0.50	0.50	<0.50	<0.50
Toxaphene	ug/L	3.9	0.84	<3.9	<0.84
<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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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	5.0	2.5	83.2	<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	4.0	2.0	<4.0	<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	10	5.0	83	<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	2.3	<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	0.40	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	4.1	<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	14.1	<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	0.038	<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	0.00150	0.00150	<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	0.00324	<0.00050
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	0.00050	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	0.00050	0.00050	<0.00050	<0.00050
1,3-Dinitropyrene	ug/L	20	10	<20	<10
1,6-Dinitropyrene	ug/L	20	10	<20	<10
1,8-Dinitropyrene	ug/L	20	10	<20	<10

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3rd Quarter Sampling Parameter	August 16, 2016			WEWPCC	
	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	5.0	<10	<5.0
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	0.00154	<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	0.00117	<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

na - not analyzed due to contract lab error

*All parameters were analyzed by contract laboratory.*

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4th Quarter Sampling Parameter	November 17, 2016			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	ug/L	1.0	1.0	3.1	1.2
Mercury (Hg)-Total	ng/L	1.0	0.50	35.1	43.3
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0474	0.0019
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0023	<0.0010
Oil and Grease (I.R.)	mg/L	5.0	5.0	30.5	<5.0
Tetraethyl Lead	ug/L	0.0070	0.0070	<0.0070	<0.0070
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
pH unStabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L				330
Alkalinity	mg/L				210
Temperature	°C		-50		14.3
Dissolved Oxygen	mg/L				11.88
Conductivity	umhos/cm				1298
pH	units		0.10		8.58
pH Stabilized Trout Bioassay	Pass/Fail				Pass
Hardness	mg/L				340
Alkalinity	mg/L				210
Temperature	°C		-50		14.6
Dissolved Oxygen	mg/L				10.36
Conductivity	umhos/cm				1359
pH	units		0.10		8.46
Ammonia, Total (as N)	mg/L		1.0		0.270
Ammonia, Un-ionized (as N)	mg/L		0.010		0.019
Chlorine, Total	mg/L		0.10		<0.10
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00119	0.00101
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000122	0.000041
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0036	0.0013
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.0825	0.00713
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00169	0.000681
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.0023	0.00500
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0044	0.0037
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.0870	0.0305
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	1.0	1.0	2.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	16.5	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	6.67	0.15
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	<0.10	<0.10
Bisphenol A	ug/L	0.20	0.20	0.22	<0.20
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	23.2	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0

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4th Quarter Sampling Parameter	November 17, 2016			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	1.1	1.1	<1.1	<1.1
12378 PeCDD	pg/L	0.51	0.61	<0.51	<0.61
123478 HxCDD	pg/L	0.51	0.64	<0.51	<0.64
123678 HxCDD	pg/L	0.54	0.63	<0.54	<0.63
123789 HxCDD	pg/L	0.55	0.67	<0.55	<0.67
1234678 HpCDD	pg/L	0.52	0.59	3.61	1.20
OCDD	pg/L	0.60	0.47	26.5	6.45
2378 TCDF	pg/L	0.63	0.74	<0.63	<0.74
12378 PeCDF	pg/L	0.34	0.41	<0.34	<0.41
23478 PeCDF	pg/L	0.30	0.36	<0.30	<0.36
123478 HxCDF	pg/L	0.46	0.41	<0.46	<0.41
123678 HxCDF	pg/L	0.44	0.41	<0.44	<0.41
234678 HxCDF	pg/L	0.43	0.42	<0.43	<0.42
123789 HxCDF	pg/L	0.55	0.51	<0.55	0.59
1234678 HpCDF	pg/L	0.79	0.40	<0.79	<0.40
1234789 HpCDF	pg/L	1.1	0.50	<1.1	<0.50
OCDF	pg/L	0.57	0.68	1.80	<0.68
Total TCDD	pg/L	1.1	1.1	<1.1	<1.1
Total PeCDD	pg/L	0.51	0.61	<0.51	<0.61
Total HxCDD	pg/L	0.55	0.67	<0.55	<0.67
Total HpCDD	pg/L	0.52	0.59	7.44	<0.59
Total TCDF	pg/L	0.63	0.74	<0.63	<0.74
Total PeCDF	pg/L	0.34	0.41	<0.34	<0.41
Total HxCDF	pg/L	0.55	0.51	<0.55	0.59
Total HpCDF	pg/L	1.1	0.50	<1.1	<0.50
<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			WEWPCC	
	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	2.5	0.10	<2.5	<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	2.5	0.10	<2.5	<0.10
alpha-Endosulfan	ug/L	2.5	0.10	<2.5	<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	2.8	1.4	<2.8	<1.4
<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			WEWPCC	
	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	101	<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			WEWPCC	
	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	0.057	<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	0.0010	0.00050	<0.0010	<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	0.00226	<0.00050
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	0.0020	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			WEWPCC	
	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	0.00100	<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	0.0011	<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	0.00050	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	0.00233	<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

na - not analyzed due to contract lab error

*All parameters were analyzed by contract laboratory.*