

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling Parameter	February 12, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	37.1
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.028
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0480	<0.0010
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	40.3	15.0
Trout Bioassay	Pass/Fail			NA	Fail
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	125.8	40.0
Surrogate: Decachlorobiphenyl	%	50-150	50-150	97.0	79.1
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	92.8	70.9
Surrogate: Tri-n-propyltin	%	31-137	31-137	90.0	93.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00134	0.00080
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000340	0.000028
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0269	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.29900	0.03480
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.194000	0.000687
Mercury (Hg)-Total	ng/L	1.0	1.0	3490	12.6
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00587	NA
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.2190	0.0289
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0011	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.2590	0.0529
Dioxins and Furans					
2378 TCDD	pg/L	0.74	0.63	<0.74	<0.63
12378 PeCDD	pg/L	2.7	1.5	<2.7	<1.5
123478 HxCDD	pg/L	2.0	0.94	<2.0	<0.94
123678 HxCDD	pg/L	2.3	1.1	<2.3	<1.1
123789 HxCDD	pg/L	2.1	0.98	<2.1	<0.98
1234678 HpCDD	pg/L	4.3	1.2	82.0	10.7
OCDD	pg/L	5.8	4.7	832	25.5
Total TCDD	pg/L	0.74	0.63	2.44	<0.63
Total PeCDD	pg/L	2.7	1.5	14.0	<1.5
Total HxCDD	pg/L	2.3	1.1	5.6	1.8
Total HpCDD	pg/L	4.3	1.2	151.0	18.8
2378 TCDF	pg/L	0.63	0.45	<0.63	<0.45
12378 PeCDF	pg/L	0.88	1.0	<0.88	<1.0
23478 PeCDF	pg/L	0.79	0.86	<0.79	<0.86
123478 HxCDF	pg/L	2.2	0.87	<2.2	<0.87
123678 HxCDF	pg/L	2.4	0.89	<2.4	<0.89
123789 HxCDF	pg/L	2.9	1.20	<2.9	<1.20
234678 HxCDF	pg/L	2.4	0.96	<2.4	1.08
1234678 HpCDF	pg/L	1.8	0.77	6.1	3.40
1234789 HpCDF	pg/L	2.7	1.1	<2.7	<1.1
OCDF	pg/L	3.9	2.4	8.3	3.9
Total TCDF	pg/L	0.63	0.45	<0.63	<0.45
Total PeCDF	pg/L	0.88	1.0	<0.88	<1.0
Total HxCDF	pg/L	2.9	1.2	<2.9	<1.2

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Total HpCDF	pg/L	2.7	1.1	7.7	<1.1
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L	-	-	1.07	0.224
Mid Point PCDD/F TEQ (WHO 2005)	pg/L	-	-	3.84	1.790
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L	-	-	6.56	3.33
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	83.0	79.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	74.0	112.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	86.0	88.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	79.0	76.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	76.0	77.0
Surrogate: 13C12 OCDD	%	13-138	13-138	93.0	83.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	84.0	76.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	55.0	85.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	67.0	102.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	78.0	72.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	67.0	71.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	76.0	73.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	58.0	55.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	72.0	61.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	77.0	71.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	88.0	80.0
EPA 8270 Extractables					
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
1,2-Dichlorobenzene	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
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	10	0.50	<10	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	10	0.50	<10	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
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
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	100	1.0	<100	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
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
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
3&4-Methylphenol	ug/L	50	0.50	186	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	200	2.0	<200	<2.0
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

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				Grab	Grab
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
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	200	2.0	<200	2.6
Butylbenzyl phthalate	ug/L	40	0.40	<40	0.44
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
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	3.3	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
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	0.40	84.0	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	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
Pentachlorophenol	ug/L	10	0.50	<10	<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	0.50	126.0	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NR*	89.1
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	1123.4	141.4
Surrogate: Nitrobenzene d5	%	50-130	50-130	140.6	112.5
Surrogate: p-Terphenyl d14	%	50-150	50-150	73.8	106.0
Surrogate: Phenol d5	%	30-130	30-130	68.1	52.4

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Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	<0.20	0.42
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	1.18	1.39
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	<2.0	<2.0
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	0.15	0.31
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	118.8	103.9
Surrogate: p-Terphenyl d14	%	50-150	50-150	NR*	95.1
PCB					
Aroclor 1016	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1221	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1232	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1242	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1248	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1254	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1260	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1262	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1268	mg/L	0.00010	0.000050	<0.00010	<0.000050
Total PCBs	mg/L	0.00030	0.00015	<0.00030	<0.00015
Surrogate: Decachlorobiphenyl	%	50-150	50-150	67.0	76.0
Pesticides, Organochlorine					
a-chlordane	ug/L	10	1.0	<10	<1.0
Aldrin	ug/L	10	1.0	<10	<1.0
alpha-BHC	ug/L	10	1.0	<10	<1.0
alpha-Endosulfan	ug/L	12	1.0	<12	<1.0
beta-BHC	ug/L	10	1.0	<10	<1.0
beta-Endosulfan	ug/L	10	1.0	<10	<1.0
delta-BHC	ug/L	10	1.0	<10	<1.0
Dieldrin	ug/L	10	1.0	<10	<1.0
Endosulfan Sulfate	ug/L	10	1.0	<10	<1.0
Endrin	ug/L	10	1.0	<10	<1.0
Endrin Aldehyde	ug/L	10	1.0	<10	<1.0
g-chlordane	ug/L	10	1.0	<10	<1.0
Heptachlor	ug/L	10	1.0	<10	<1.0
Heptachlor Epoxide	ug/L	10	1.0	<10	<1.0
Hexachlorobenzene	ug/L	10	1.0	<10	<1.0
Lindane	ug/L	10	1.0	<10	<1.0
Methoxychlor	ug/L	10	1.0	<10	<1.0
Mirex	ug/L	10	1.0	<10	<1.0
o,p-DDE	ug/L	10	1.0	<10	<1.0
op-DDD	ug/L	10	1.0	<10	<1.0
op-DDT	ug/L	10	1.0	<10	<1.0
Oxychlordane	ug/L	10	1.0	<10	<1.0
pp-DDD	ug/L	10	1.0	<10	<1.0

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pp-DDE	ug/L	10	1.0	<10	<1.0
pp-DDT	ug/L	10	1.0	<10	<1.0
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NR**	68.8
Surrogate: d14-Terphenyl	%	50-150	50-150	NR**	99.4
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	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
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	123.9	111.3
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	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
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.00050	0.020	<0.00050	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.020	0.00050	<0.020	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	0.00061	<0.00050
Acetone	mg/L	0.25	0.020	<0.25	<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	0.00087	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Carbon Disulfide	mg/L	0.0010	0.00050	<0.0010	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

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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	0.00700	0.00460
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.0015	0.0015	<0.0015	<0.0015
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
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00358	<0.00050
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0079	0.0046
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.00070	0.00070	<0.00070	<0.00070
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	98.4	98.3
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	97.6	89.4

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

NR*- surrogate recovery could not be measured due to sample matrix interference

NR**- surrogate diluted out: % recovery not available

All parameters were analyzed by contract laboratory.

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2nd Quarter Sampling Parameter	May 14, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	29.0
Ammonia, Un-ionized (as N)	mg/L		0.01	NA	0.04
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0400	0.0026
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	40.0	<1.0
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	60.4	52.9
Surrogate: Decachlorobiphenyl	%	50-150	50-150	69.3	94.1
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	78.7	81.9
Surrogate: Tri-n-propyltin	%	31-137	31-137	109.0	103.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00150	0.00107
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000122	0.000029
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0021	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.08690	0.00869
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.001670	0.000403
Mercury (Hg)-Total	ng/L	0.00020	0.000020	0.00046	0.000029
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00485	0.00420
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0098	0.0091
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0014	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.1050	0.0351
Dioxins and Furans					
2378 TCDD	pg/L	0.084	0.11	0.170	<0.11
12378 PeCDD	pg/L	0.088	0.047	0.170	<0.047
123478 HxCDD	pg/L	0.028	0.024	0.240	0.044
123678 HxCDD	pg/L	0.033	0.029	0.650	<0.029
123789 HxCDD	pg/L	0.030	0.026	0.350	0.150
1234678 HpCDD	pg/L	0.11	0.032	11.0	0.720
OCDD	pg/L	0.15	0.14	89.8	4.00
Total TCDD	pg/L	0.084	0.11	0.304	11.90
Total PeCDD	pg/L	0.088	0.047	1.710	<0.047
Total HxCDD	pg/L	0.033	0.029	1.660	0.625
Total HpCDD	pg/L	0.11	0.032	11.20	<0.032
2378 TCDF	pg/L	0.033	0.028	0.290	<0.028
12378 PeCDF	pg/L	0.064	0.044	0.170	0.310
23478 PeCDF	pg/L	0.062	0.042	0.088	0.150
123478 HxCDF	pg/L	0.074	0.030	0.340	0.046
123678 HxCDF	pg/L	0.078	0.030	0.480	0.120
123789 HxCDF	pg/L	0.080	0.028	0.288	0.160
234678 HxCDF	pg/L	0.084	0.027	0.340	0.170
1234678 HpCDF	pg/L	0.049	0.026	2.580	0.516
1234789 HpCDF	pg/L	0.059	0.034	0.506	<0.034
OCDF	pg/L	0.079	0.077	7.330	0.610
Total TCDF	pg/L	0.033	0.028	0.285	<0.028
Total PeCDF	pg/L	0.064	0.044	0.970	<0.044
Total HxCDF	pg/L	0.084	0.030	1.030	0.046

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2nd Quarter Sampling Parameter	May 14, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total HpCDF	pg/L	0.059	0.034	7.510	0.516
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0888	0.00516
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			0.0839	0.219
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0839	0.300
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	81.0	73.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	91.0	81.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	75.0	68.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	63.0	56.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	66.0	64.0
Surrogate: 13C12 OCDD	%	13-138	13-138	64.0	69.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	76.0	67.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	90.0	81.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	89.0	79.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	59.0	48.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	56.0	46.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	53.0	52.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	64.0	60.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	60.0	60.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	65.0	60.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	82.0	74.0
EPA 8270 Extractables					
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
1,2-Dichlorobenzene	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
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
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
2,3,4-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
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
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
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
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
3&4-Methylphenol	ug/L	50	0.50	168	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
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

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2nd Quarter Sampling Parameter	May 14, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
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
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	31	<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
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	3.7	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
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	0.40	56.0	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	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
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	70	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	115.0	84.8
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	172.0	118.8
Surrogate: Nitrobenzene d5	%	50-130	50-130	126.5	99.8
Surrogate: p-Terphenyl d14	%	50-150	50-150	93.0	80.6
Surrogate: Phenol d5	%	30-130	30-130	71.0	61.3

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2nd Quarter Sampling	May 14, 2013			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	<0.20	0.23
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	6.9	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.02	0.86
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	7.9	<2.0
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	0.16	<0.10
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	83.4	81.3
Surrogate: p-Terphenyl d14	%	50-150	50-150	109.8	89.8
PCB					
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	0.00010	0.00010	<0.00010	<0.00010
Surrogate: Decachlorobiphenyl	%	50-150	50-150	82.0	101.0
Pesticides, Organochlorine					
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.3	0.10	<1.3	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	5.2	0.10	<5.2	<0.10
Dieldrin	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
g-chlordane	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
Hexachlorobenzene	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
o,p-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10

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	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	115.0	75.8
Surrogate: d14-Terphenyl	%	50-150	50-150	93.0	107.9
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	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
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	77.8	93.4
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L			NS	NS
1,1,1-Trichloroethane	mg/L			NS	NS
1,1,2,2-Tetrachloroethane	mg/L			NS	NS
1,1,2-Trichloroethane	mg/L			NS	NS
1,1-Dichloroethane	mg/L			NS	NS
1,1-Dichloroethylene	mg/L			NS	NS
1,1-Dichloropropene	mg/L			NS	NS
1,2-Dibromo-3-chloropropane	mg/L			NS	NS
1,2-Dibromoethane	mg/L			NS	NS
1,2-Dichlorobenzene	mg/L			NS	NS
1,2-Dichloroethane	mg/L			NS	NS
1,2-Dichloropropane	mg/L			NS	NS
1,2,3-Trichlorobenzene	mg/L			NS	NS
1,2,3-Trichloropropane	mg/L			NS	NS
1,2,4-Trichlorobenzene	mg/L			NS	NS
1,2,4-Trimethylbenzene	mg/L			NS	NS
1,3-Dichlorobenzene	mg/L			NS	NS
1,3-Dichloropropane	mg/L			NS	NS
1,3,5-Trimethylbenzene	mg/L			NS	NS
1,4-Dichlorobenzene	mg/L			NS	NS
2-Chlorotoluene	mg/L			NS	NS
2-Hexanone	mg/L			NS	NS
2,2-Dichloropropane	mg/L			NS	NS
4-Chlorotoluene	mg/L			NS	NS
4-Isopropyltoluene	mg/L			NS	NS
Acetone	mg/L			NS	NS
Benzene	mg/L			NS	NS
Bromobenzene	mg/L			NS	NS
Bromochloromethane	mg/L			NS	NS
Bromodichloromethane	mg/L			NS	NS
Bromoform	mg/L			NS	NS
Bromomethane	mg/L			NS	NS
Carbon Disulfide	mg/L			NS	NS
Carbon tetrachloride	mg/L			NS	NS

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2nd Quarter Sampling Parameter	May 14, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
Chlorobenzene	mg/L			NS	NS
Chloroethane	mg/L			NS	NS
Chloroform	mg/L			NS	NS
Chloromethane	mg/L			NS	NS
cis-1,2-Dichloroethylene	mg/L			NS	NS
cis-1,3-Dichloropropene	mg/L			NS	NS
Dibromochloromethane	mg/L			NS	NS
Dibromomethane	mg/L			NS	NS
Dichlorodifluoromethane	mg/L			NS	NS
Dichloromethane	mg/L			NS	NS
Ethyl Benzene	mg/L			NS	NS
F1	mg/L			NS	NS
Hexachlorobutadiene	mg/L			NS	NS
Hexane	mg/L			NS	NS
Isopropylbenzene	mg/L			NS	NS
m+p-Xylenes	mg/L			NS	NS
Methyl Ethyl Ketone	mg/L			NS	NS
Methyl Isobutyl Ketone	mg/L			NS	NS
MTBE	mg/L			NS	NS
n-Butylbenzene	mg/L			NS	NS
Naphthalene	mg/L			NS	NS
o-Xylene	mg/L			NS	NS
sec-Butylbenzene	mg/L			NS	NS
Styrene	mg/L			NS	NS
tert-Butylbenzene	mg/L			NS	NS
Tetrachloroethylene	mg/L			NS	NS
Toluene	mg/L			NS	NS
trans-1,2-Dichloroethylene	mg/L			NS	NS
trans-1,3-Dichloropropene	mg/L			NS	NS
Trichloroethylene	mg/L			NS	NS
Trichlorofluoromethane	mg/L			NS	NS
Trihalomethanes (total)	mg/L			NS	NS
Vinyl chloride	mg/L			NS	NS
Xylenes (Total)	mg/L			NS	NS
Surrogate: 1,4-Difluorobenzene	%			NS	NS
Surrogate: 4-Bromofluorobenzene	%			NS	NS

NOTES:

MDL- Method detection limit
 mg/L- milligrams/Litre
 ug/L- micrograms/Litre
 ng/L- nanograms/Litre
 pg/L- picograms/Litre
 <- less than
 NA- not analyzed
 NS- No sample due to technician error

All parameters were analyzed by contract laboratory.

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3'rd Quarter Sampling Parameter	August 13, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	31.4
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.033
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0690	<0.0010
Tetraethyl Lead	ug/L	0.070	0.00700	<0.070	<0.0070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.0550	0.053	<0.0550	<0.053
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	16.7	<1.0
Trout Bioassay	Pass/Fail			NA	Fail
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	118.0	87.7
Surrogate: Decachlorobiphenyl	%	50-150	50-150	84.9	116.1
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	86.0	107.8
Surrogate: Tri-n-propyltin	%	31-137	31-137	140.0	102.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00094	0.00076
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000126	0.000027
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0021	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.09460	0.01720
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00192	0.000626
Mercury (Hg)-Total	ng/L	1.0	1.0	48.2	6.9
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00687	0.00446
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0077	0.0059
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.1170	0.0516
Dioxins and Furans					
2378 TCDD	pg/L	1.0	1.1	<1.0	<1.1
12378 PeCDD	pg/L	0.47	0.46	<0.47	<0.46
123478 HxCDD	pg/L	0.26	0.32	<0.26	<0.32
123678 HxCDD	pg/L	0.29	0.34	<0.29	<0.34
123789 HxCDD	pg/L	0.26	0.32	<0.26	<0.32
1234678 HpCDD	pg/L	0.44	0.49	4.84	<0.49
OCDD	pg/L	1.7	0.56	41.0	2.50
Total TCDD	pg/L	1.0	1.1	<1.0	<1.1
Total PeCDD	pg/L	0.47	0.46	0.72	<0.46
Total HxCDD	pg/L	0.29	0.34	<0.29	<0.34
Total HpCDD	pg/L	0.44	0.49	9.87	<0.49
2378 TCDF	pg/L	1.2	1.2	<1.2	<1.2
12378 PeCDF	pg/L	0.49	0.46	<0.49	<0.46
23478 PeCDF	pg/L	0.42	0.40	<0.42	<0.40
123478 HxCDF	pg/L	0.55	0.25	<0.55	<0.25
123678 HxCDF	pg/L	0.53	0.23	<0.53	<0.23
123789 HxCDF	pg/L	0.69	0.32	<0.69	<0.32
234678 HxCDF	pg/L	0.56	0.24	<0.56	<0.24
1234678 HpCDF	pg/L	0.31	0.24	1.10	<0.24
1234789 HpCDF	pg/L	0.43	0.34	<0.43	<0.34
OCDF	pg/L	0.79	0.61	2.46	<0.61
Total TCDF	pg/L	1.2	1.2	<1.2	<1.2
Total PeCDF	pg/L	0.49	0.46	<0.49	<0.46
Total HxCDF	pg/L	0.69	0.32	<0.69	<0.32

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3'rd Quarter Sampling Parameter	August 13, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total HpCDF	pg/L	0.43	0.34	<0.43	<0.34
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0614	0.000750
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			1.10	1.01
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			2.12	2.03
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	93.0	87.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	108.0	103.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	90.0	90.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	92.0	87.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	92.0	93.0
Surrogate: 13C12 OCDD	%	13-138	13-138	80.0	80.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	87.0	80.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	101.0	96.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	108.0	102.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	73.0	69.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	83.0	85.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	80.0	81.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	81.0	81.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	82.0	82.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	85.0	86.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	86.0	82.0
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,2,4-Trichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,2-Dichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,3-Dichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,4-Dichlorobenzene	ug/L	0.40	0.40	0.54	0.50
1-Chloronaphthalene	ug/L	0.40	0.40	<0.40	<0.40
1-Methylnaphthalene	ug/L	0.40	0.40	<0.40	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,4-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,5-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,4,5-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,4,6-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,4-Dichlorophenol	ug/L	0.30	0.30	<0.30	<0.30
2,4-Dimethylphenol	ug/L	0.50	0.50	<0.50	<0.50
2,4-Dinitrophenol	ug/L	1.0	1.0	<1.0	<1.0
2,4-Dinitrotoluene	ug/L	0.40	0.40	<0.40	<0.40
2,6-Dichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,6-Dinitrotoluene	ug/L	0.40	0.40	<0.40	<0.40
2-Chloronaphthalene	ug/L	0.40	0.40	<0.40	<0.40
2-Chlorophenol	ug/L	0.30	0.30	<0.30	<0.30
2-Methylnaphthalene	ug/L	0.40	0.40	<0.40	<0.40
2-Methylphenol	ug/L	0.50	0.50	<0.50	<0.50
2-Nitrophenol	ug/L	0.50	0.50	<0.50	<0.50
3&4-Methylphenol	ug/L	0.50	0.50	<0.50	<0.50
3,3'-Dichlorobenzidine	ug/L	0.40	0.40	<0.40	<0.40
4,6-Dinitro-2-methylphenol	ug/L	2.0	2.0	<2.0	<2.0
4-Bromophenyl phenyl ether	ug/L	0.40	0.40	<0.40	<0.40
4-Chloro-3-methylphenol	ug/L	0.50	0.50	<0.50	<0.50
4-Chloroaniline	ug/L	0.40	0.40	<0.40	<0.40

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3'rd Quarter Sampling Parameter	August 13, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
4-Chlorophenyl phenyl ether	ug/L	0.40	0.40	<0.40	<0.40
4-Nitrophenol	ug/L	0.50	0.50	<0.50	<0.50
5-Nitroacenaphthene	ug/L	0.40	0.40	<0.40	<0.40
Acenaphthene	ug/L	0.20	0.20	<0.20	<0.20
Acenaphthylene	ug/L	0.20	0.20	<0.20	<0.20
Anthracene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(a)anthracene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(a)pyrene	ug/L	0.050	0.050	<0.050	<0.050
Benzo(b)fluoranthene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(ghi)perylene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(k)fluoranthene	ug/L	0.20	0.20	<0.20	<0.20
Biphenyl	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-chloroethoxy)methane	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	2.0	2.0	<2.0	<2.0
Butylbenzyl phthalate	ug/L	0.40	0.40	<0.40	<0.40
Camphene	ug/L	0.40	0.40	<0.40	<0.40
Chrysene	ug/L	0.20	0.20	<0.20	<0.20
Dibenzo(a,h)anthracene	ug/L	0.20	0.20	<0.20	<0.20
Dibenzofuran	ug/L	0.20	0.20	<0.20	<0.20
Diethylphthalate	ug/L	0.20	0.20	<0.20	<0.20
Dimethylphthalate	ug/L	0.20	0.20	<0.20	<0.20
Di-n-butylphthalate	ug/L	2.0	2.0	<2.0	<2.0
Di-n-octylphthalate	ug/L	0.40	0.40	<0.40	<0.40
Diphenyl ether	ug/L	0.40	0.40	<0.40	<0.40
Diphenylamine	ug/L	0.40	0.40	<0.40	<0.40
Fluoranthene	ug/L	0.20	0.20	<0.20	<0.20
Fluorene	ug/L	0.20	0.20	<0.20	<0.20
Hexachlorobenzene	ug/L	0.040	0.040	<0.040	<0.040
Hexachlorobutadiene	ug/L	0.20	0.20	<0.20	<0.20
Hexachlorocyclopentadiene	ug/L	0.40	0.40	<0.40	<0.40
Hexachloroethane	ug/L	0.40	0.40	<0.40	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	0.20	0.20	<0.20	<0.20
Indole	ug/L	0.40	0.40	<0.40	<0.40
Isophorone	ug/L	0.40	0.40	<0.40	<0.40
Naphthalene	ug/L	0.20	0.20	<0.20	<0.20
Nitrobenzene	ug/L	0.40	0.40	<0.40	<0.40
N-Nitroso-di-n-propylamine	ug/L	0.40	0.40	<0.40	<0.40
Pentachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
Perylene	ug/L	0.20	0.20	<0.20	<0.20
Phenanthrene	ug/L	0.20	0.20	<0.20	<0.20
Phenol	ug/L	0.50	0.50	<0.50	<0.50
Pyrene	ug/L	0.20	0.20	<0.20	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	95.2	88.0
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	100.2	79.6
Surrogate: Nitrobenzene d5	%	50-130	50-130	103.9	96.8
Surrogate: p-Terphenyl d14	%	50-150	50-150	106.2	100.2
Surrogate: Phenol d5	%	30-130	30-130	62.0	61.5

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3'rd Quarter Sampling Parameter	August 13, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	0.35	<0.20
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	9.1	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.58	0.13
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	10.7	<2.0
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	0.35	0.10
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	95.7	102.2
Surrogate: p-Terphenyl d14	%	50-150	50-150	108.5	87.5
PCB					
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
Surrogate: Decachlorobiphenyl	%	50-150	50-150	47.0	85.0
Pesticides, Organochlorine					
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	5.53	0.10	<5.53	<0.10
Endosulfan Sulfate	ug/L	2.53	0.10	<2.53	<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
g-chlordane	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
Hexachlorobenzene	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
o,p-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10

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3'rd Quarter Sampling Parameter	August 13, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	87.3	91.7
Surrogate: d14-Terphenyl	%	50-150	50-150	78.5	104.1
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	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
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	123.9	116.2
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	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
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Acetone	mg/L	0.020	0.020	0.068	<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
Carbon Disulfide	mg/L	0.00050	0.00050	0.02050	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

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3'rd Quarter Sampling Parameter	August 13, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	0.0011	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00419	0.00354
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
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
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	0.00063	<0.00050
Toluene	mg/L	0.00050	0.0010	0.00312	<0.0010
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0042	0.0035
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.00050	0.00050	<0.00050	<0.00050
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	101.7	101.8
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	83.8	82.8

NOTES:

MDL- Method detection limit
 mg/L- milligrams/Litre
 ug/L- micrograms/Litre
 ng/L- nanograms/Litre
 pg/L- picograms/Litre
 <- less than
 NA- not analyzed

All parameters were analyzed by contract laboratory.

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4'th Quarter Sampling Parameter	November 26, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	36.4
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.034
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0716	0.0011
Tetraethyl Lead	ug/L	0.007	0.00070	<0.007	<0.00070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.055	0.050	<0.055	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	5.8	<1.0
Trout Bioassay ¹	Pass/Fail			NA	Fail
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	114.4	70.8
Surrogate: Decachlorobiphenyl	%	50-150	50-150	83.2	105.6
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	78.2	97.8
Surrogate: Tri-n-propyltin	%	31-137	31-137	136.0	124.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00100	0.00075
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000126	0.000022
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0025	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.11300	0.03280
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.003070	0.000432
Mercury (Hg)-Total	ng/L	1.0	1.0	107.0	5.4
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00466	0.00325
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0111	0.0193
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.1370	0.0467
Dioxins and Furans					
2378 TCDD	pg/L	2.1	1.1	<2.1	<1.1
12378 PeCDD	pg/L	0.52	0.53	<0.52	<0.53
123478 HxCDD	pg/L	0.46	0.50	<0.46	<0.50
123678 HxCDD	pg/L	0.40	0.41	<0.40	<0.41
123789 HxCDD	pg/L	0.38	0.39	<0.38	<0.39
1234678 HpCDD	pg/L	1.0	0.73	6.9	<0.73
OCDD	pg/L	1.2	0.53	59.6	2.43
Total TCDD	pg/L	2.1	1.1	<2.1	<1.1
Total PeCDD	pg/L	0.52	0.53	3.24	<0.53
Total HxCDD	pg/L	0.46	0.50	2.29	<0.50
Total HpCDD	pg/L	1.0	0.73	14.1	<0.73
2378 TCDF	pg/L	1.7	1.2	<1.7	<1.2
12378 PeCDF	pg/L	0.41	0.53	<0.41	<0.53
23478 PeCDF	pg/L	0.35	0.45	<0.35	<0.45
123478 HxCDF	pg/L	0.82	0.31	<0.82	<0.31
123678 HxCDF	pg/L	0.71	0.27	<0.71	<0.27
123789 HxCDF	pg/L	1.2	0.45	<1.2	<0.45
234678 HxCDF	pg/L	0.88	0.30	<0.88	<0.30
1234678 HpCDF	pg/L	0.53	0.36	1.30	<0.36
1234789 HpCDF	pg/L	0.91	0.59	<0.91	<0.59
OCDF	pg/L	0.86	0.79	3.2	<0.79
Total TCDF	pg/L	1.7	1.2	<1.7	<1.2
Total PeCDF	pg/L	0.41	0.53	<0.41	<0.53
Total HxCDF	pg/L	1.2	0.45	<1.2	<0.45

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4'th Quarter Sampling	November 26, 2013			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total HpCDF	pg/L	0.91	0.59	<0.91	<0.59
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0871	0.000729
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			1.80	1.09
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			3.50	2.18
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	32.0	53.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	80.0	83.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	70.0	66.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	79.0	85.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	84.0	87.0
Surrogate: 13C12 OCDD	%	13-138	13-138	81.0	98.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	29.0	48.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	75.0	82.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	77.0	85.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	76.0	71.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	87.0	86.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	79.0	80.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	88.0	86.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	85.0	84.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	86.0	90.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	31.0	51.0
EPA 8270 Extractables					
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
1,2-Dichlorobenzene	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
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
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
2,3,4-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
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
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
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
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	6.7	<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
3&4-Methylphenol	ug/L	50	0.50	232	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
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

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4'th Quarter Sampling Parameter	November 26, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
4-Chlorophenyl phenyl ether	ug/L	5.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
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
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	3.7	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
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	0.40	78.0	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	3.5	<0.20
Nitrobenzene	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
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	0.50	0.50	84.0	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	78.9	80.9
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	142.3	96.5
Surrogate: Nitrobenzene d5	%	50-130	50-130	129.7	95.6
Surrogate: p-Terphenyl d14	%	50-150	50-150	59.7	84.2
Surrogate: Phenol d5	%	30-130	30-130	96.9	53.8

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4'th Quarter Sampling Parameter	November 26, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	0.48	0.34
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	3.1	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.53	0.47
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	4.6	<2.0
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	0.25	0.23
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	94.5	86.4
Surrogate: p-Terphenyl d14	%	50-150	50-150	60.7	87.1
PCB					
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	0.00020	0.00010	<0.00020	<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	0.00035	0.00030	<0.00035	<0.00030
Surrogate: Decachlorobiphenyl	%	50-150	50-150	39.0	61.0
Pesticides, Organochlorine					
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	4.5	0.10	<4.5	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	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	1.1	0.10	<1.1	<0.10
Endrin Aldehyde	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	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
Hexachlorobenzene	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
o,p-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10

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4'th Quarter Sampling Parameter	November 26, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	111.7	94.3
Surrogate: d14-Terphenyl	%	50-150	50-150	85.7	89.1
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	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
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	105.9	117.4
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	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
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Acetone	mg/L	0.020	0.020	0.262	<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
Carbon Disulfide	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

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4'th Quarter Sampling Parameter	November 26, 2013			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
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	0.00298	0.00233
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.00150	0.00150	<0.00150	<0.0025
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
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	<0.00050	0.00061
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0030	0.0023
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.00070	0.00070	<0.00070	<0.00070
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	99.9	100.2
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	94.5	92.8

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

¹- sampled on November 20th

All parameters were analyzed by contract laboratory.