

CSO INTERIM WATER QUALITY MONITORING

2014 SMALL STREAMS MONITORING REPORT

Survey Date :		Small Streams Sampling Locations					
Parameter	Unit	STURGEON CREEK @ PORTAGE AVE	TRURO CREEK @ PORTAGE AVE	OMANDS CREEK @ PORTAGE AVE	LA SALLE RIVER @ HWY 75	SEINE RIVER @ PROVENCHER BLVD	BUNNS CREEK @ BONNER AVE
		(S2)	(S3)	(S4)	(S5)	(S7)	(S8)
Temperature	°C	8.9	9	9	8.9	9.5	8.3
Dissolved Oxygen	mg/L	10.5	10.1	10.8	10.3	10.3	6.5
Conductivity	mS/cm	1.413	1.57	1.765	1.125	0.538	1.187
pH	units	8.1	8.1	8.3	8.3	8.2	7.8
Biochemical Oxygen Demand	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Carbonaceous BOD	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Total Suspended Solids	mg/L	13	< 5	5	47	24	18
Ammonia Nitrogen	mg/L N	0.057	0.018	< 0.01	< 0.01	< 0.01	0.145
Nitrate Nitrogen	mg/L N	0.39	< 0.05	< 0.05	< 0.05	< 0.05	0.079
Nitrite Nitrogen	mg/L N	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate-Nitrite Nitrogen	mg/L N	0.39	< 0.071	< 0.071	< 0.071	< 0.071	0.079
Total Kjeldahl Nitrogen	mg/L N	0.65	0.48	0.76	1.51	0.88	1.75
Total Nitrogen ¹	mg/L N	1.04	0.48	0.76	1.51	0.88	1.83
Total Phosphorus	mg/L P	0.07	0.052	0.084	0.698	0.107	0.147
Escherichia Coliform	MPN/100 mL	93	75	23	430	150	93
Fecal Coliform	MPN/100 mL	93	75	23	430	150	93

Notes: 1) Calculated values
 2) Analysed by contract laboratory

Client File No: 3205.00

CSO INTERIM WATER QUALITY MONITORING

2014 SMALL STREAMS MONITORING REPORT

Survey Date :		October 16, 2014					
		Small Streams Sampling Locations					
Parameter	Unit	STURGEON CREEK @ PORTAGE AVE	TRURO CREEK @ PORTAGE AVE	OMANDS CREEK @ PORTAGE AVE	LA SALLE RIVER @ HWY 75	SEINE RIVER @ PROVENCHER BLVD	BUNNS CREEK @ BONNER AVE
		(S2)	(S3)	(S4)	(S5)	(S7)	(S8)
Temperature	°C	9.6	10.6	9.6	9.8	8.8	8.6
Dissolved Oxygen	mg/L	9.9	10.5	10.2	10.4	10.1	6.1
Conductivity	mS/cm	2.2	1.526	1.8	1.138	0.531	1.193
pH	units	8.3	8.2	8.1	8.4	8.3	8.1
Biochemical Oxygen Demand	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Carbonaceous BOD	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Total Suspended Solids	mg/L	17	5	5	45	28	13
Ammonia Nitrogen	mg/L N	0.065	< 0.01	0.014	< 0.01	0.016	0.217
Nitrate Nitrogen	mg/L N	0.26	< 0.05	< 0.05	< 0.05	< 0.05	0.098
Nitrite Nitrogen	mg/L N	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate-Nitrite Nitrogen	mg/L N	< 0.35	< 0.071	< 0.071	< 0.071	< 0.071	0.098
Total Kjeldahl Nitrogen	mg/L N	0.69	0.49	0.72	1.54	0.86	2.16
Total Nitrogen ¹	mg/L N	0.69	0.49	0.72	1.54	0.86	2.26
Total Phosphorus	mg/L P	0.072	0.051	0.082	0.137	0.106	0.173
Escherichia Coliform	MPN/100 mL	9	43	4	230	93	23
Fecal Coliform	MPN/100 mL	23	43	4	230	93	43

- Notes: 1) Calculated values
 2) Analysed by contract laboratory

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Parameter	Unit	STURGEON CREEK @ PORTAGE AVE	TRURO CREEK @ PORTAGE AVE	OMANDS CREEK @ PORTAGE AVE	LA SALLE RIVER @ HWY 75	SEINE RIVER @ PROVENCHER BLVD	BUNNS CREEK @ BONNER AVE
		(S2)	(S3)	(S4)	(S5)	(S7)	(S8)
Temperature	°C	9	9.2	8.6	8.4	8	7.3
Dissolved Oxygen	mg/L	10	10.3	10.5	9.6	9.8	5.9
Conductivity	mS/cm	2.4	1.535	1.782	1.154	0.534	1.214
pH	units	8.1	8.1	8.1	8.4	8.3	8.1
Biochemical Oxygen Demand	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Carbonaceous BOD	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Total Suspended Solids	mg/L	27	25	8	60	29	20
Ammonia Nitrogen	mg/L N	0.044	< 0.01	0.024	< 0.01	< 0.01	0.25
Nitrate Nitrogen	mg/L N	0.073	< 0.05	< 0.05	< 0.05	< 0.05	0.08
Nitrite Nitrogen	mg/L N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate-Nitrite Nitrogen	mg/L N	0.073	< 0.071	< 0.071	< 0.071	< 0.071	0.08
Total Kjeldahl Nitrogen	mg/L N	0.82	0.52	0.75	1.59	0.8	1.83
Total Nitrogen ¹	mg/L N	0.9	0.52	0.75	1.59	0.8	1.91
Total Phosphorus	mg/L P	0.088	0.057	0.093	0.673	0.105	0.185
Escherichia Coliform	MPN/100 mL	4	15	15	230	93	150
Fecal Coliform	MPN/100 mL	4	21	15	230	93	150

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		(S2)	(S3)	(S4)	(S5)	(S7)	(S8)
Temperature	°C	8.8	8.7	8.4	7.2	7.4	6
Dissolved Oxygen	mg/L	10.2	10.1	10.3	9.1	10.5	6.4
Conductivity	mS/cm	2.24	1.551	1.723	1.168	0.534	1.224
pH	units	8.1	8.2	8.1	8.4	8.3	8
Biochemical Oxygen Demand	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Carbonaceous BOD	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Total Suspended Solids	mg/L	35	17	5	30	25	10
Ammonia Nitrogen	mg/L N	0.056	< 0.01	0.019	0.016	0.011	0.166
Nitrate Nitrogen	mg/L N	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	0.055
Nitrite Nitrogen	mg/L N	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate-Nitrite Nitrogen	mg/L N	< 0.35	< 0.071	< 0.071	< 0.071	< 0.071	< 0.071
Total Kjeldahl Nitrogen	mg/L N	0.87	0.64	0.76	1.57	0.86	1.48
Total Nitrogen ¹	mg/L N	0.87	0.64	0.76	1.57	0.86	1.48
Total Phosphorus	mg/L P	0.102	0.08	0.103	0.699	0.111	0.178
Escherichia Coliform	MPN/100 mL	4	7	4	43	430	23
Fecal Coliform	MPN/100 mL	4	15	4	93	430	93

Notes: 1) Calculated values
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		(S2)	(S3)	(S4)	(S5)	(S7)	(S8)
Temperature	°C	8.9	8.1	7.8	6.3	8.9	6.4
Dissolved Oxygen	mg/L	9.6	9.7	10.7	10	10.8	6.1
Conductivity	mS/cm	2.03	1.54	1.682	1.185	0.532	1.228
pH	units	8.3	8.2	8.2	8.4	8.2	7.9
Biochemical Oxygen Demand	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Carbonaceous BOD	mg/L	< 6	< 6	< 6	< 6	< 6	< 6
Total Suspended Solids	mg/L	15	34	9	32	20	13
Ammonia Nitrogen	mg/L N	0.057	< 0.01	0.011	0.013	0.027	0.289
Nitrate Nitrogen	mg/L N	< 0.25	< 0.05	< 0.25	< 0.05	< 0.05	0.101
Nitrite Nitrogen	mg/L N	< 0.25	< 0.05	< 0.25	< 0.05	< 0.05	< 0.05
Nitrate-Nitrite Nitrogen	mg/L N	< 0.35	< 0.071	< 0.35	< 0.071	< 0.071	0.101
Total Kjeldahl Nitrogen	mg/L N	0.67	0.64	0.77	1.56	0.79	1.79
Total Nitrogen ¹	mg/L N	0.67	0.64	0.77	1.56	0.79	1.89
Total Phosphorus	mg/L P	0.096	0.116	0.111	0.755	0.11	0.187
Escherichia Coliform	MPN/100 mL	23	23	23	230	15	23
Fecal Coliform	MPN/100 mL	23	23	23	230	15	23

- Notes: 1) Calculated values
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