



2019 SMALL STREAMS SURVEY MONITORING REPORT

| Survey Date: September 26, 2019 | | Small Streams Sampling Locations | | | | | | | |
|---------------------------------|------------|----------------------------------|------------------------------------|---------------------------------|-----------------------------------|---------------------------------|------------------------------|-------------------------------|--------------------------------|
| Parameter | Unit | SEINE RIVER @ HWY 59 (S6) | SEINE RIVER @ PROVENCHER BLVD (S7) | STURGEON CREEK @ PERIMETER (S1) | STURGEON CREEK @ PORTAGE AVE (S2) | OMANDS CREEK @ PORTAGE AVE (S4) | LA SALLE RIVER @ HWY 75 (S5) | BUNNS CREEK @ BONNER AVE (S8) | TRURO CREEK @ PORTAGE AVE (S3) |
| Sample Number | | 243988 | 243989 | 243986 | 243987 | 243985 | 243984 | 243983 | 243990 |
| Temperature | °C | 12.9 | 13.0 | 12.9 | 12.8 | 12.4 | 14.5 | 13.5 | 10.8 |
| Dissolved Oxygen | mg/L | 7.9 | 7.1 | 4.9 | 6.7 | 6.5 | 5.1 | 6.5 | 7.1 |
| Oxygen Saturation | % | 75 | 67 | 46 | 63 | 60 | 49 | 63 | 64 |
| Biochemical Oxygen Demand | mg/L | NR | NR | NR | NR | NR | NR | NR | NR |
| pH | units | 7.82 | 7.80 | 7.40 | 7.51 | 7.55 | 7.32 | 7.70 | 7.70 |
| Total Solids | mg/L | 532 | 452 | 296 | 340 | 546 | 418 | 656 | 628 |
| Total Suspended Solids | mg/L | 59 | 61 | 13 | 30 | 6 | 64 | 9 | 10 |
| Turbidity | n.t.u. | 54 | 53 | 27 | 31 | 6 | 166 | 7 | 7 |
| Total Organic Carbon | mg/L | 20.9 | 18.9 | 16.3 | 15.2 | 17.0 | 19.4 | 12.4 | 15.1 |
| Chlorophyll a | ug/L | 2.7 | 12.0 | 1.3 | 2.7 | 2.7 | 5.3 | 24.0 | 2.7 |
| Ammonia Nitrogen | mg/L N | 0.169 | 0.182 | 0.441 | 0.499 | 0.063 | 0.068 | 0.348 | 0.027 |
| Nitrate Nitrogen | mg/L N | 0.071 | 0.172 | 0.020 | 0.042 | 0.078 | 0.110 | 0.215 | 0.058 |
| Total Nitrogen | mg/L N | 1.3 | 1.5 | 1.4 | 1.4 | 0.9 | 1.3 | 1.3 | 0.7 |
| Soluble Phosphorus | mg/L P | 0.30 | 0.27 | 0.86 | 0.91 | 0.36 | 0.52 | 0.24 | 0.16 |
| Total Phosphorus | mg/L P | 0.42 | 0.41 | 1.00 | 0.95 | 0.40 | 0.68 | 0.29 | 0.24 |
| Escherichia Coliform | MPN/100 mL | 310 | 500 | 230 | 190 | 160 | 130 | 590 | 270 |
| Fecal Coliform | MPN/100 mL | 570 | 450 | 300 | 310 | 60 | 120 | 600 | 360 |

Notes: NS - No Sample NA - Not Analyzed NR - No Result

Weather conditions during monitoring:

Wind Direction: W
Wind Speed: 4.8 km/h
Cloud Coverage: 90%
Precipitation: 0 mm
Air Temperature: 13°C

Compiled By: A. Gordon
Compliance Reporting Technician

Approved By: C. Diduck
Analytical Services Branch Head

Date Compiled: 27-Nov-19