



South End Water Pollution Control Centre  
Final Effluent Monitoring Report  
December 2023

| Licence #<br>2716RR | File #<br>1069.1               | 24 Hour Composite |         |        |         |        |         |                |                     |                     |                | Grab Sample |         |            |
|---------------------|--------------------------------|-------------------|---------|--------|---------|--------|---------|----------------|---------------------|---------------------|----------------|-------------|---------|------------|
| Date                | Raw Sewage<br>Daily Flow<br>ML | TSS               |         | BOD5   |         | cBOD5  |         | Ammonia        | Ortho<br>Phosphorus | Total<br>Phosphorus | Total Nitrogen | Temp.       | pH      | E.Coli     |
|                     |                                | (mg/L)            | (mg/L)* | (mg/L) | (mg/L)* | (mg/L) | (mg/L)* | (kg NH3-N/day) | (mg/L-P)            | (mg/L-P)*           | (mg/L-N)*      | (°C)        | (units) | MPN/100 mL |
| 01-Dec-23           | 52.9                           | 4                 | 3       | <4     | 2       | <4     | 2       | 35.5           | 1.24                | 0.61                | 13.4           | 15.6        | 7.15    | 1,220      |
| 02-Dec-23           | 53.6                           | 3                 | 2       | <4     | 2       | <4     | 2       | 32.9           | 0.88                | 0.63                | 13.4           | 15.3        | 7.13    | 2,480      |
| 03-Dec-23           | 54.8                           | <3                | 2       | <4     | 2       | <4     | 2       | 38.3           | 0.64                | 0.65                | 13.3           | 15.2        | 7.12    | 2,760      |
| 04-Dec-23           | 53.1                           | 3                 | 2       | <4     | 2       | <4     | 2       | 13.3           | 0.15                | 0.64                | 13.2           | 15.6        | 7.19    | 1,720      |
| 05-Dec-23           | 51.7                           | <3                | 2       | <4     | 2       | <4     | 2       | 7.3            | 0.08                | 0.63                | 13.2           | 15.5        | 7.12    | 2,720      |
| 06-Dec-23           | 52.6                           | 3                 | 2       | <4     | 2       | <4     | 2       | 7.7            | 0.13                | 0.63                | 13.2           | 15.8        | 7.16    | 1,010      |
| 07-Dec-23           | 52.3                           | <3                | 2       | <4     | 2       | <4     | 2       | 2.9            | 0.17                | 0.63                | 13.2           | 16.0        | 7.07    | 1,400      |
| 08-Dec-23           | 52.1                           | 4                 | 2       | <4     | 2       | <4     | 2       | 9.1            | 0.44                | 0.64                | 13.1           | 15.9        | 7.13    | 1,380      |
| 09-Dec-23           | 52.2                           | 3                 | 2       | <4     | 2       | <4     | 2       | 26.4           | 0.57                | 0.65                | 13.2           | 15.1        | 7.14    | 2,760      |
| 10-Dec-23           | 54.2                           | <3                | 2       | <4     | 2       | <4     | 2       | 42.8           | nr                  | 0.65                | 13.1           | 15.2        | 7.03    | 6,490      |
| 11-Dec-23           | 54.4                           | 3                 | 2       | <4     | 2       | <4     | 2       | 36.0           | nr                  | 0.63                | 13.0           | 15.4        | 7.07    | 3,450      |
| 12-Dec-23           | 51.3                           | 4                 | 2       | <4     | 2       | <4     | 2       | 22.9           | nr                  | 0.62                | 13.0           | 15.2        | 7.13    | 2,010      |
| 13-Dec-23           | 54.0                           | 4                 | 2       | <4     | 2       | <4     | 2       | 16.5           | nr                  | 0.63                | 13.0           | 15.2        | 7.08    | 1,940      |
| 14-Dec-23           | 52.4                           | <3                | 2       | <4     | 2       | <4     | 2       | 4.3            | nr                  | 0.63                | 13.0           | 15.3        | 7.19    | 1,220      |
| 15-Dec-23           | 51.1                           | <3                | 2       | <4     | 2       | <4     | 2       | 7.6            | nr                  | 0.62                | 13.1           | 13.5        | 7.12    | 1,300      |
| 16-Dec-23           | 52.8                           | <3                | 2       | <4     | 2       | <4     | 2       | 24.9           | nr                  | 0.63                | 13.1           | 15.1        | 7.03    | 1,620      |
| 17-Dec-23           | 53.4                           | <3                | 2       | <4     | 2       | <4     | 2       | 27.1           | 0.76                | 0.65                | 13.1           | 14.9        | 7.04    | 2,360      |
| 18-Dec-23           | 51.9                           | <3                | 2       | <4     | 2       | <4     | 2       | 17.3           | 0.19                | 0.63                | 13.1           | 15.3        | 7.01    | 1,720      |
| 19-Dec-23           | 50.9                           | <3                | 2       | <4     | 2       | <4     | 2       | 10.6           | 0.10                | 0.60                | 13.1           | 15.2        | 7.12    | 790        |
| 20-Dec-23           | 52.0                           | <3                | 2       | nr     | 2       | nr     | 2       | 2.1            | 0.03                | 0.58                | 13.2           | 15.2        | 7.08    | 8,160      |
| 21-Dec-23           | 52.5                           | 3                 | 2       | <4     | 2       | <4     | 2       | 1.6            | 0.06                | 0.57                | 13.3           | 15.2        | 7.07    | 1,420      |
| 22-Dec-23           | 52.8                           | <3                | 2       | <4     | 2       | <4     | 2       | 1.1            | 0.08                | 0.57                | 13.4           | 15.4        | 7.02    | 930        |
| 23-Dec-23           | 54.5                           | <3                | 2       | <4     | 2       | <4     | 2       | 0.4            | 0.10                | 0.58                | 13.4           | 15.3        | 6.97    | 1,350      |
| 24-Dec-23           | 54.8                           | <3                | 2       | <4     | 2       | <4     | 2       | 28.8           | 0.12                | 0.57                | 13.3           | 14.9        | 7.03    | 1,110      |
| 25-Dec-23           | 49.2                           | <3                | 2       | <4     | 2       | <4     | 2       | 46.4           | 0.08                | 0.55                | 13.2           | 15.4        | 7.06    | 1,400      |
| 26-Dec-23           | 50.1                           | <3                | 2       | <4     | 2       | <4     | 2       | 74.2           | 0.04                | 0.52                | 13.1           | 14.8        | 7.05    | 1,170      |
| 27-Dec-23           | 51.7                           | 4                 | 2       | <4     | 2       | <4     | 2       | 53.8           | 0.07                | 0.52                | 13.0           | 15.1        | 7.16    | 670        |
| 28-Dec-23           | 51.2                           | 3                 | 2       | <4     | 2       | <4     | 2       | 11.8           | 0.04                | 0.50                | 13.0           | 15.2        | 7.00    | 1,050      |
| 29-Dec-23           | 51.5                           | <3                | 2       | <4     | 2       | <4     | 2       | 5.9            | 0.06                | 0.49                | 12.8           | 15.0        | 7.14    | 910        |
| 30-Dec-23           | 50.6                           | 3                 | 2       | <4     | 2       | <4     | 2       | 8.0            | 0.10                | 0.49                | 12.8           | 14.1        | 7.03    | 1,300      |
| 31-Dec-23           | 51.3                           | 4                 | 2       | <4     | 2       | <4     | 2       | 17.2           | 0.16                | 0.45                | 12.7           | 13.6        | 6.99    | 960        |
| Max:                | 54.8                           |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Min:                | 49.2                           |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Average:            | 52.4                           | <3                |         | <4     |         | <4     |         | 20.5           | 0.26                |                     |                | 15.1        | 7.08    |            |
| Total Flow:         | 1,623.9                        |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Geo.Mean:           |                                |                   |         |        |         |        |         |                |                     |                     |                |             |         | 1,621      |

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations  
(2) nr - not recorded or no result; na - not analyzed; ns - no sample; o/l - offline; im - instrument maintenance

- (3) Where value is expressed as less than (<), the value is halved and used in the calculations  
(4) \* = 30 day rolling average

Report Date: April 9, 2025, Revision 1