



South End Water Pollution Control Centre  
Final Effluent Monitoring Report  
March 2025

| Licence #<br>2716RR | File #<br>1069.1         | 24 Hour Composite |         |        |         |        |         |                |                     |                     |                | Grab Sample |         |            |
|---------------------|--------------------------|-------------------|---------|--------|---------|--------|---------|----------------|---------------------|---------------------|----------------|-------------|---------|------------|
| Date                | Raw Sewage<br>Daily Flow | TSS               |         | BOD5   |         | cBOD5  |         | Ammonia        | Ortho<br>Phosphorus | Total<br>Phosphorus | Total Nitrogen | Temp.       | pH      | E.Coli     |
|                     | ML                       | (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-Mar-25           | 51.5                     | <3                | 7       | 4      | 4       | 4      | 3       | 114.9          | 0.17                | 0.49                | 11.8           | 13.6        | 7.20    | <10        |
| 02-Mar-25           | 54.6                     | 5                 | 7       | 6      | 4       | <4     | 3       | 108.1          | 0.22                | 0.50                | 11.7           | 13.8        | 7.20    | 10         |
| 03-Mar-25           | 62.7                     | 65                | 9       | 21     | 5       | 12     | 3       | 157.3          | 0.25                | 0.61                | 11.6           | 14.6        | 7.04    | 30         |
| 04-Mar-25           | 50.7                     | 7                 | 9       | 6      | 5       | <4     | 3       | 106.5          | 0.40                | 0.62                | 11.6           | 14.0        | 7.14    | 10         |
| 05-Mar-25           | 51.4                     | 6                 | 9       | 7      | 5       | <4     | 3       | 104.3          | 0.32                | 0.63                | 11.6           | 14.1        | 7.16    | 20         |
| 06-Mar-25           | 51.2                     | 5                 | 9       | 5      | 6       | <4     | 3       | 104.5          | 0.31                | 0.65                | 11.6           | 14.2        | 7.09    | 20         |
| 07-Mar-25           | 50.3                     | 4                 | 10      | 5      | 6       | <4     | 3       | 145.9          | 0.54                | 0.66                | 11.7           | 14.3        | 7.10    | 10         |
| 08-Mar-25           | 56.6                     | 28                | 10      | 14     | 6       | 4      | 3       | 212.8          | 0.46                | 0.71                | 11.7           | 14.4        | 7.29    | 10         |
| 09-Mar-25           | 61.9                     | 21                | 11      | 13     | 6       | nr     | 3       | 221.1          | 0.50                | 0.76                | 11.8           | 14.4        | 7.28    | 10         |
| 10-Mar-25           | 52.0                     | 5                 | 11      | 10     | 7       | <4     | 3       | 114.5          | 0.56                | 0.77                | 11.7           | 13.7        | 7.16    | 30         |
| 11-Mar-25           | 50.9                     | 3                 | 11      | 5      | 7       | <4     | 3       | 96.7           | 0.56                | 0.79                | 11.7           | 14.1        | 7.15    | 10         |
| 12-Mar-25           | 48.0                     | <3                | 11      | 6      | 7       | <4     | 3       | 84.4           | 0.43                | 0.80                | 11.7           | 13.9        | 7.13    | 10         |
| 13-Mar-25           | 55.6                     | <3                | 11      | 6      | 7       | <4     | 3       | 100.7          | 0.38                | 0.81                | 11.7           | 14.2        | 7.15    | 20         |
| 14-Mar-25           | 63.3                     | 5                 | 11      | 6      | 7       | <4     | 3       | 199.3          | 0.51                | 0.82                | 11.7           | 14.3        | 7.11    | 10         |
| 15-Mar-25           | 54.4                     | 5                 | 11      | 8      | 7       | <4     | 3       | 160.5          | 0.38                | 0.84                | 11.8           | 13.3        | 7.16    | 10         |
| 16-Mar-25           | 54.6                     | 7                 | 11      | 7      | 7       | <4     | 3       | 198.0          | 0.53                | 0.86                | 11.8           | 13.5        | 7.31    | 10         |
| 17-Mar-25           | 52.5                     | 4                 | 11      | 7      | 8       | <4     | 3       | 126.0          | 0.48                | 0.87                | 11.7           | 13.7        | 7.14    | 50         |
| 18-Mar-25           | 51.1                     | 4                 | 11      | 7      | 8       | <4     | 3       | 218.6          | 0.97                | 0.90                | 11.7           | 14.1        | 7.22    | 10         |
| 19-Mar-25           | 49.6                     | 3                 | 12      | 8      | 8       | <4     | 3       | 247.5          | 0.68                | 0.92                | 11.7           | 14.1        | 7.30    | 20         |
| 20-Mar-25           | 63.3                     | 8                 | 12      | 11     | 8       | <4     | 3       | 237.3          | 0.25                | 0.92                | 11.8           | 14.3        | 7.18    | 70         |
| 21-Mar-25           | 52.4                     | 3                 | 12      | 6      | 8       | <4     | 3       | 101.1          | 0.17                | 0.92                | 11.9           | 13.4        | 7.24    | 10         |
| 22-Mar-25           | 52.0                     | <3                | 12      | 4      | 8       | <4     | 3       | 130.1          | 0.16                | 0.92                | 11.8           | 13.4        | 7.21    | <10        |
| 23-Mar-25           | 52.7                     | 3                 | 12      | 5      | 8       | <4     | 3       | 146.6          | 0.21                | 0.92                | 11.8           | 13.6        | 7.26    | <10        |
| 24-Mar-25           | 53.9                     | 3                 | 11      | 6      | 8       | <4     | 3       | 110.4          | 0.34                | 0.92                | 11.8           | 14.2        | 7.16    | 10         |
| 25-Mar-25           | 59.6                     | 3                 | 9       | nr     | 8       | 4      | 3       | 148.9          | 0.67                | 0.84                | 11.7           | 14.5        | 7.05    | <10        |
| 26-Mar-25           | 67.8                     | 13                | 8       | 7      | 7       | <4     | 3       | 229.3          | 0.78                | 0.80                | 11.8           | 14.4        | 7.04    | 10         |
| 27-Mar-25           | 58.0                     | 3                 | 8       | 4      | 7       | <4     | 3       | 118.9          | 0.28                | 0.79                | 11.8           | 13.6        | 7.04    | 10         |
| 28-Mar-25           | 52.2                     | 3                 | 8       | 5      | 7       | <4     | 3       | 96.6           | 0.18                | 0.78                | 11.8           | 13.4        | 7.12    | 10         |
| 29-Mar-25           | 55.6                     | 3                 | 8       | <4     | 7       | <4     | 3       | 180.3          | 0.35                | 0.78                | 11.8           | 13.7        | 7.31    | <10        |
| 30-Mar-25           | 55.6                     | 3                 | 8       | 5      | 7       | <4     | 3       | 215.8          | nr                  | 0.81                | 11.9           | 13.9        | 7.44    | 10         |
| 31-Mar-25           | 59.7                     | 3                 | 8       | 5      | 7       | <4     | 2       | 257.7          | 1.03                | 0.85                | 11.9           | 14.1        | 7.11    | 20         |
| Max:                | 67.8                     |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Min:                | 48.0                     |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Average:            | 55.0                     | 8                 |         | 7      |         | <4     |         | 154.7          | 0.44                |                     |                | 14.0        | 7.18    |            |
| Total Flow:         | 1,705.7                  |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Geo. Mean:          |                          |                   |         |        |         |        |         |                |                     |                     |                |             |         | 12         |

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 30, 2025