



## **Plant Yates** Monthly Dewatering Results<sup>1</sup> August 2023

| Demonster              | Units | Efflu                  | ent Concent            | ration                 | Permit Limits |           |           |  |
|------------------------|-------|------------------------|------------------------|------------------------|---------------|-----------|-----------|--|
| Parameter              |       | Daily Min <sup>2</sup> | Daily Avg <sup>2</sup> | Daily Max <sup>2</sup> | Daily Min     | Daily Avg | Daily Max |  |
| Flow                   | MGD   | 0.92                   | 1.93                   | 2.41                   | ***           | ***       | ***       |  |
| pН                     | SU    | 6.6                    | ***                    | 8.5                    | 6.0           | ***       | 9.0       |  |
| Total Suspended Solids | mg/L  | ND <sup>3</sup>        | ND                     | ND                     | ***           | 30.0      | 100.0     |  |
| Oil and Grease         | mg/L  | ND                     | ND                     | ND                     | ***           | 15.0      | 20.0      |  |

| Parameter                            | Units | Week 1   | Week 2   | Week 3    | Week 4    | Week 5    | Daily   |
|--------------------------------------|-------|----------|----------|-----------|-----------|-----------|---------|
|                                      |       | 8/1/2023 | 8/8/2023 | 8/14/2023 | 8/21/2023 | 8/29/2023 | Average |
| Turbidity <sup>4</sup>               | NTU   | 5.3      | 4.8      | 4.8       | 4.6       | 4.9       | 4.9     |
| Total Residual Chlorine <sup>4</sup> | mg/L  | ND       | ND       | ND        | ND        | ND        | ND      |
| Total Dissolved Solids               | mg/L  | 174      | 236      | 210       | 223       | 193       | 207     |
| Ammonia                              | mg/L  | ND       | ND       | ND        | ND        | ND        | ND      |
| Total Kjeldahl Nitrogen              | mg/L  | ND       | ND       | ND        | ND        | ND        | ND      |
| Nitrate-Nitrite                      | mg/L  | ND       | 0.12     | 0.21      | 0.13      | ND        | 0.09    |
| Organic Nitrogen                     | mg/L  | ND       | ND       | ND        | ND        | ND        | ND      |
| Phosphorus                           | mg/L  | ND       | ND       | ND        | ND        | ND        | ND      |
| Ortho-Phosphorus r                   |       | ND       | ND       | ND        | ND        | ND        | ND      |
| Biological Oxygen Demand m           |       | ND       | ND       | ND        | ND        | ND        | ND      |
| Hardness                             | mg/L  | 76       | 115      | 106       | 109       | 103       | 102     |

|                       | Effluent Concentration <sup>5</sup> |          |           |           |           | Calculated Receiving Water Concentration⁵ |          |           |           |           |         | Water Quality Criteria <sup>6</sup> |                      |      |
|-----------------------|-------------------------------------|----------|-----------|-----------|-----------|---|----------|-----------|-----------|-----------|---------|-------------------------------------|----------------------|------|
| Parameter             | meter Units                         | Week 1   | Week 2    | Week 3    | Week 4    | Week 5                                    | Week 1   | Week 2    | Week 3    | Week 4    | Week 5  |                                     |                      |      |
|                       | 8/1/2023                            | 8/8/2023 | 8/14/2023 | 8/21/2023 | 8/29/2023 | 8/1/2023                                  | 8/8/2023 | 8/14/2023 | 8/21/2023 | 8/29/2023 | Average | Acute <sup>7</sup>                  | Chronic <sup>7</sup> |      |
| Antimony <sup>8</sup> | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | ***                  | 640  |
| Arsenic               | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | 340                  | 150  |
| Cadmium               | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | 0.94                 | 0.43 |
| Chromium <sup>9</sup> | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | 16                   | 11   |
| Copper                | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | 7                    | 5    |
| Lead                  | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | 30                   | 1.2  |
| Nickel                | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | 260                  | 29   |
| Selenium <sup>8</sup> | μg/L                                | ND       | ND        | 5.8       | ND        | ND  | ***      | ***       | 0.0212    | ***       | ***     | 0.0042                              | ***                  | 5    |
| Thallium <sup>8</sup> | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | ***                  | 0.47 |
| Zinc                  | μg/L                                | ND       | ND        | ND        | ND        | ND  | ***      | ***       | ***       | ***       | ***     | ***                                 | 65                   | 65   |
| Mercury               | ng/L                                | 0.9      | 1.3       | 0.8       | 0.7       | 0.7                                       | 0.0033   | 0.0049    | 0.0028    | 0.0025    | 0.0026  | 0.0032                              | 1400                 | 12   |

- Tetra Tech verifies the correct laboratory analysis methods were used, any applicable permit limits have been met and other results are protective of Georgia EPD's water quality standards.

  Daily Min and Daily Max are the lowest and highest values for any day in the month. Daily Avg is the arithmetic average of all daily values during the entire month.

  No Not Detected (below the lab's reporting limit).

  Turbidity and total residuals chroine are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported.

  Calculated Receiving Water Concentration shows the effluent concentration at the discharge once it has fully insided in the receiving waterbody. This value is calculated as a dissolved concentration for an appropriate comparison to the numeric water quality criteria, with are also in the dissolved form. Consistent with Georgia EPD, non-clear that the calculated Receiving Water Concentrations are not consistent with Georgia EPD or consistent with Georgia EP



## **Plant Yates**

Prepared by:



## **Monthly Instream Results**<sup>1</sup>

August 2023

|                        |       | Chattahoochee River <sup>2</sup> |            |          |            |  |  |  |
|------------------------|-------|----------------------------------|------------|----------|------------|--|--|--|
| Parameter <sup>3</sup> | Units | 8/1/2023                         | 8/1/2023   | 8/8/2023 | 8/8/2023   |  |  |  |
|                        |       | Upstream                         | Downstream | Upstream | Downstream |  |  |  |
| рН                     | SU    | 6.9                              | 6.9        | 6.9      | 6.8        |  |  |  |
| TSS                    | mg/L  | $ND^4$                           | 9.4        | 50.2     | 27.8       |  |  |  |
| O&G                    | mg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| TRC                    | mg/L  | ***                              | ***        | ***      | ***        |  |  |  |
| Turbidity              | NTU   | 9.9                              | 11.3       | 33.1     | 26.8       |  |  |  |
| TDS                    | mg/L  | 93                               | 91         | 73       | 62         |  |  |  |
| BOD                    | mg/L  | ND                               | ND         | 4.6      | 2.2        |  |  |  |
| Antimony               | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Arsenic                | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Cadmium                | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Chromium               | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Copper                 | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Lead                   | μg/L  | ND                               | ND         | 1.3      | 1.5        |  |  |  |
| Mercury                | ng/L  | 1.4                              | 1.5        | 4.1      | 5.2        |  |  |  |
| Nickel                 | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Selenium               | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Thallium               | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Zinc                   | μg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| Ammonia                | mg/L  | ND                               | ND         | ND       | ND         |  |  |  |
| TKN                    | mg/L  | 0.70                             | 0.59       | 1.70     | 0.51       |  |  |  |
| Nitrate-Nitrite        | mg/L  | 2.70                             | 2.60       | 1.40     | 1.30       |  |  |  |
| Organic Nitrogen       | mg/L  | 0.65                             | 0.54       | 1.70     | ND         |  |  |  |
| Phosphorus             | mg/L  | 0.06                             | 0.06       | 0.08     | 0.09       |  |  |  |
| Ortho-phosphorus       | mg/L  | 0.05                             | 0.06       | ND       | ND         |  |  |  |
| Hardness               | mg/L  | 28                               | 27         | 25       | 25         |  |  |  |

- 1 Tetra Tech verifies the correct laboratory analysis methods were used.
- 2 Chattahoochee River measured 1000 ft upstream and 1000 ft downstream from the final discharge at Outfall 01.
- 3 Metals results are total recoverable.
- 4 ND = Non-detect
- \*\*\* = Not Applicable

mg/L = milligrams per liter = parts per million;  $\mu g/L = micrograms$  per liter = parts per billion; ng/L = micrograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day