Georgia Power

Plant Bowen

Prepared by:

TŁ TETRA TECH

Monthly Dewatering Results¹

August 2021

| | | Efflu | ent Concent | ration | Permit Limits | | | |
|------------------------|-------|------------------------|------------------------|------------------------|---------------|-----------|-----------|--|
| Parameter | Units | Daily Min ² | Daily Avg ² | Daily Max ² | Daily Min | Daily Avg | Daily Max | |
| Flow | MGD | 0.00 | 0.35 | 0.49 | *** | *** | *** | |
| рН | SU | 6.5 | *** | 8.1 | 6.0 | *** | 9.0 | |
| Total Suspended Solids | mg/L | ND ³ | 8.3 | 14.0 | ND | 30.0 | 100.0 | |
| Oil and Grease | mg/L | ND | ND | ND | ND | 15.0 | 20.0 | |

| | | | Della | | | | |
|--------------------------------------|-------|----------|-----------|-----------|-----------|-------------------------|------------------|
| Parameter | Units | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Daily Average |
| | | 8/2/2021 | 8/10/2021 | 8/16/2021 | 8/23/2021 | Sampled in September | Average |
| Turbidity ⁴ | NTU | 4.1 | 4.9 | 3.8 | 1.7 | | 3.6 |
| Total Residual Chlorine ⁴ | mg/L | ND | ND | ND | ND | | ND |
| Total Dissolved Solids | mg/L | 3320 | 3250 | 2600 | 2360 | | 2883 |
| Ammonia | mg/L | ND | ND | ND | ND | | ND |
| Total Kjeldahl Nitrogen | mg/L | 0.66 | 0.65 | 0.70 | ND | | 0.50 |
| Nitrate-Nitrite | mg/L | ND | ND | ND | 0.06 | | 0.01 |
| Organic Nitrogen | mg/L | 0.62 | 0.63 | 0.66 | ND | | 0.48 |
| Phosphorus | mg/L | ND | ND | ND | ND | | ND |
| Ortho-Phosphorus | mg/L | ND | ND | ND | ND | | ND |
| Biological Oxygen Demand | mg/L | ND | ND | ND | ND | | ND |
| Hardness | mg/L | 2090 | 1870 | 2000 | 1340 | | 1825 |

| Effluent Conc | | | | | ntration ⁵ | | Calculated Receiving Water Concentration ⁵ | | | | | Water Quality Criteria ⁶ | | |
|-----------------------|-------|----------|-----------|-----------|-----------------------|-------------------------|---|-----------|-----------|-----------|-------------------------|-------------------------------------|--------------------|----------------------|
| Parameter | Units | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Average | | |
| | | 8/2/2021 | 8/10/2021 | 8/16/2021 | 8/23/2021 | Sampled in September | 8/2/2021 | 8/10/2021 | 8/16/2021 | 8/23/2021 | Sampled in September | | Acute ⁷ | Chronic ⁷ |
| Arsenic | μg/L | ND | 14.8 | 13.4 | ND | | *** | 0.0383 | 0.0348 | *** | | 0.0183 | 340 | 150 |
| Cadmium | μg/L | ND | ND | ND | ND | | *** | *** | *** | *** | | *** | 0.94 | 0.43 |
| Chromium ⁸ | μg/L | ND | ND | ND | ND | | *** | *** | *** | *** | | *** | 16 | 11 |
| Copper | μg/L | ND | ND | ND | ND | | *** | *** | *** | *** | | *** | 7 | 5 |
| Lead | μg/L | ND | ND | ND | ND | | *** | *** | *** | *** | | *** | 30 | 1.2 |
| Nickel | μg/L | ND | ND | ND | ND | | *** | *** | *** | *** | | *** | 260 | 29 |
| Selenium ⁹ | μg/L | 12.2 | 20.0 | 19.7 | 22.5 | | 0.0373 | 0.0611 | 0.0602 | 0.0688 | | 0.0568 | *** | 5 |
| Zinc | μg/L | ND | ND | ND | ND | | *** | *** | *** | *** | | *** | 65 | 65 |
| Mercury | ng/L | 17.2 | 7.8 | 10.7 | 3.5 | | 0.0526 | 0.0239 | 0.0327 | 0.0105 | | 0.0299 | 1400 | 12 |

2 3 4 5

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 Arg is the arithmetic average of all daily values during the entire month. ND = Not Detected (below the lab's reporting limit). Turbidity and total residual chlorine are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported. Calculated Reserving Water Concentration shows the effluent concentration at the discharge encore it has fully mixed in the receiving waterbody. This value is calculated as a dissolved concentration for an appropriate comparison to the numeric water quality criteria, which are also in the dissolved from -detectable effluent concentrations on SU and Subject Concentration for an appropriate comparison to the numeric water quality criteria, Scalutated Reserving Water Concentrations are are protective of the waterbody. Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration. Chronic (long-term) water quality criterion to be compared with the average calculated Reserving water concentration. Mumeric water quality criterion is the chronic (long-term) water quality criterion to be compared with the average calculated receiving water concentration. Mumeric water quality criterion is the chronic (long-term) water quality criterion to be compared with the weekly calculated receiving water concentration. The numeric water quality criterion is the chronic (long-term) water quality criterion to the compared with the average calculated Receiving water concentration. * e Not Applicable 6

and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the waterdody. 7. Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration; Chronic (long-term) water quality criterion to be compared with the axis 8. Numeric water quality criterion shown is for Hexavatent Chromium. 9. The numeric water quality criterion shown is the chronic (long-term) water quality criterion for selenium since this parameter does not have an acute (short-term) water quality criterion. *** Not Applicable mg/L = milligrams per liter = parts per million; µg/L = micrograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day



Plant Bowen

Prepared by:



Monthly Instream Results¹

August 2021

| | | Etowah River ² | | | | | | | |
|------------------------|-------|---------------------------|------------|-----------|------------|--|--|--|--|
| Parameter ³ | Units | 8/2/2021 | 8/2/2021 | 8/10/2021 | 8/10/2021 | | | | |
| | | Upstream | Downstream | Upstream | Downstream | | | | |
| pН | SU | 6.8 | 6.8 | 6.5 | 6.9 | | | | |
| TSS | mg/L | ND^4 | ND | ND | ND | | | | |
| O&G | mg/L | ND | ND | ND | ND | | | | |
| TRC | mg/L | *** | *** | *** | *** | | | | |
| Turbidity | NTU | 4.4 | 4.8 | 4.6 | 8.2 | | | | |
| TDS | mg/L | 63 | 53 | 49 | 51 | | | | |
| BOD | mg/L | ND | ND | ND | 2.1 | | | | |
| 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 | ND | ND | | | | |
| Mercury | ng/L | 1.1 | 1.0 | 1.3 | 1.2 | | | | |
| Nickel | μg/L | ND | ND | ND | ND | | | | |
| Selenium | μg/L | ND | ND | ND | ND | | | | |
| Zinc | μg/L | ND | ND | ND | ND | | | | |
| Ammonia | mg/L | ND | ND | ND | ND | | | | |
| TKN | mg/L | ND | ND | ND | ND | | | | |
| Nitrate-Nitrite | mg/L | 0.55 | 0.53 | 0.41 | 0.38 | | | | |
| Organic Nitrogen | mg/L | ND | ND | ND | ND | | | | |
| Phosphorus | mg/L | ND | ND | ND | ND | | | | |
| Ortho-phosphorus | mg/L | ND | ND | ND | ND | | | | |
| Hardness | mg/L | 44 | 41 | 37 | 34 | | | | |

1 Tetra Tech verifies the correct laboratory analysis methods were used.

2 Etowah River measured 1000ft upstream and 1000ft downstream of the Final Plant Discharge (Outfall 001)

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 = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day