



Plant Bowen Monthly Dewatering Results¹

January 2024

	Units	Efflu	ent Concent	ration	Permit Limits			
Parameter		Daily Min ²	Daily Avg ²	Daily Max ²	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.00	1.13	1.30	***	***	***	
pН	SU	6.8	***	7.7	6.0	***	9.0	
Total Suspended Solids	mg/L	ND ³	ND	ND	ND	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	ND	15.0	20.0	

Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily
		No Discharge	1/8/2024	No Discharge	1/26/2024	1/29/2024	Average
Turbidity ⁴	NTU		4.6		2.2	1.6	2.8
Total Residual Chlorine ⁴	mg/L		ND		ND	ND	ND
Total Dissolved Solids	mg/L		1980		1300	1290	1523
Ammonia	mg/L		ND		ND	ND	ND
Total Kjeldahl Nitrogen	mg/L		ND		ND	ND	ND
Nitrate-Nitrite	mg/L		0.20		0.43	0.42	0.35
Organic Nitrogen	mg/L		ND		ND	ND	ND
Phosphorus	mg/L		ND		ND	ND	ND
Ortho-Phosphorus	mg/L		ND		ND	ND	ND
Biological Oxygen Demand	mg/L		ND		ND	ND	ND
Hardness	mg/L		1380		903	787	1023

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	Effluent Concentration ⁵					Calculated Receiving Water Concentration⁵					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			
	No Discharge	1/8/2024	No Discharge	1/26/2024	1/29/2024	No Discharge	1/8/2024	No Discharge	1/26/2024	1/29/2024	Average	Acute ⁷	Chronic ⁷	
Antimony ⁹	μg/L		ND		ND	ND		***		***	***	***	***	640
Arsenic	μg/L		ND		ND	ND		***		***	***	***	340	150
Cadmium	μg/L		ND		ND	ND		***		***	***	***	0.94	0.43
Chromium ⁸	μg/L		ND		ND	ND		***		***	***	***	16	11
Copper	μg/L		ND		ND	ND		***		***	***	***	7	5
Lead	μg/L		ND		ND	ND		***		***	***	***	30	1.2
Nickel	μg/L		ND		ND	ND		***		***	***	***	260	29
Selenium ⁹	μg/L		23.0		31.4	26.7		0.1857		0.2535	0.2155	0.2182	***	5
Thallium ⁹	μg/L		ND		ND	ND		***		***	***	***	***	0.47
Zinc	μg/L		ND		ND	ND		***		***	***	***	65	65
Mercury	ng/L		2.5		2.8	2.7		0.0198		0.0224	0.0214	0.0212	1400	12

- 1 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.

 2 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.

 3 ND = Not Detected (below the lab's reporting limit).

 4 Turbidity and total residual chridroine are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported.

 5 Calculated Receiving Water Concentration shows the effluent concentration at the discharge once 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 form. Consistent with Georgia EPD's non-detectable effluent concentrations are not translated into Calculated Receiving Water Concentrations.

 Numeric Water Quality Charter Loss the maximum concentration of a parameter (calculated at a dealar tharchess of 50 mg/L as calculam carbonate) established for the receiving water body water body in the protective of the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the waterbody.

 8 Acute (sohort-term) water quality criterion to be compared with the average calculated receiving water concentration.

 9 The numeric water quality criterion shown is for Hexavalent Chromium.

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 9 The numeric water quality criterion shown are the chronic (long-term) water quality criterion shown are the chronic (lon



Plant Bowen

Prepared by:



Monthly Instream Results¹ January 2024

		Etowah River ²						
Parameter ³	Units	1/8/2024	1/8/2024	1/26/2024	1/26/2024			
- urumotor		Upstream	Downstream	Upstream	Downstream			
рН	SU	6.8	6.7	6.3	6.3			
TSS	mg/L	23.0	30.0	170.0	200.0			
O&G	mg/L	ND ⁴	ND	ND	ND			
TRC	mg/L	***	***	***	***			
Turbidity	NTU	19.3	23.7	229.0	230.0			
TDS	mg/L	61	60	107	108			
BOD	mg/L	ND	ND	ND	ND			
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	9.7	9.7			
Copper	μg/L	ND	ND	10.2	9.2			
Lead	μg/L	ND	1.1	5.0	5.1			
Mercury	ng/L	5.2	5.4	16.9	29.8			
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	28.5	28.4			
Ammonia	mg/L	ND	ND	ND	ND			
TKN	mg/L	ND	ND	0.85	0.83			
Nitrate-Nitrite	mg/L	0.46	0.47	0.27	0.27			
Organic Nitrogen	mg/L	ND	ND	0.85	0.83			
Phosphorus	mg/L	ND	ND	0.17	0.20			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	26	28	26	27			

- 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