



Plant Yates Monthly Dewatering Results¹ July 2023

D	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	1.18	2.41	***	***	***	
pН	SU	5.8 ³	***	8.5	6.0	***	9.0	
Total Suspended Solids	mg/L	ND^4	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 2 Week 3		Week 5	Daily
		7/5/2023	7/11/2023	7/17/2023	7/24/2023	Sampled in August	Average
Turbidity ⁵	NTU	2.4	2.9	4.5	4.2		3.5
Total Residual Chlorine ⁵	mg/L	ND	ND	ND	ND		ND
Total Dissolved Solids	mg/L	270	309	189	167		234
Ammonia	mg/L	ND	ND	ND	ND		ND
Total Kjeldahl Nitrogen	mg/L	0.74	0.55	ND	ND		0.32
Nitrate-Nitrite	mg/L	0.23	0.42	0.18	0.09		0.23
Organic Nitrogen	mg/L	0.66	0.55	ND	ND		0.30
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	133	159	81	81		114

		Effluent Concentration ⁶					Calculated Receiving Water Concentration ⁶					Water Quality Criteria ⁷		
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5			
		7/5/2023	7/11/2023	7/17/2023	7/24/2023	Sampled in August	7/5/2023	7/11/2023	7/17/2023	7/24/2023	Sampled in August	Average	Acute ⁸	Chronic ⁸
Antimony ⁹	μg/L	ND	ND	ND	ND		***	***	***	***		***	***	640
Arsenic	μg/L	ND	ND	ND	ND		***	***	***	***		***	340	150
Cadmium	μg/L	ND	ND	ND	ND		***	***	***	***		***	0.94	0.43
Chromium ¹⁰	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	6.2	18.9	ND	ND		0.0225	0.0685	***	***		0.0228	***	5
Thallium ⁹	μg/L	ND	ND	ND	ND		***	***	***	***		***	***	0.47
Zinc	μg/L	ND	ND	ND	ND		***	***	***	***		***	65	65
Mercury	ng/L	0.5	0.7	0.5	0.8		0.0019	0.0026	0.0019	0.0028		0.0023	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.

 This result is from the dewatering treatment discharge and exceeds the Effluent Quality Standard. The NPDES permit limit for the final discharge to the Chattahocobee River was not exceeded.

 ND = NO 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 Receiving Water 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 Calculated Receiving Water Concentrations are non-involved to the protective of the water of the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the water of the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the water concentration is as than these criteria are protective of the water concentration is as that these criteria are protective of the water concentration is as that these criteria are protective of the water concentration is as that these criteria are protective of the water concentration is as that these criteria are protective of the water concentration is as that these criteria are protective of the water concentration.

 The numeric water quality criterion to be compared with the weekly calculated receiving water concentration.

 ND House the receiving water concentration is a calculated at a default hardness of 50 mg/L and calculated receiv



Plant Yates

Prepared by:



Monthly Instream Results¹

July 2023

		Chattahoochee River ²						
Parameter ³	Units	7/5/2023 Upstream	7/5/2023 Downstream	7/11/2023 Upstream	7/11/2023 Downstream			
pН	SU	6.9	6.9	7.0	7.1			
TSS	mg/L	38.8	17.0	17.4	21.8			
O&G	mg/L	ND^4	ND	ND	ND			
TRC	mg/L	***	***	***	***			
Turbidity	NTU	26.4	25.9	30.6	25.8			
TDS	mg/L	80	75	93	94			
BOD	mg/L	3.6	4.5	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	ND	ND			
Copper	μg/L	ND	ND	ND	ND			
Lead	μg/L	1.6	1.4	1.2	1.4			
Mercury	ng/L	3.4	3.6	3.1	3.7			
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	10.6			
Ammonia	mg/L	0.11	0.13	0.21	0.29			
TKN	mg/L	0.79	0.99	1.20	1.30			
Nitrate-Nitrite	mg/L	1.40	1.30	2.00	2.10			
Organic Nitrogen	mg/L	0.68	0.86	0.94	1.00			
Phosphorus	mg/L	0.12	0.11	0.08	0.09			
Ortho-phosphorus	mg/L	0.08	0.08	ND	ND			
Hardness	mg/L	24	23	27	26			

- 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