



Plant Yates Monthly Dewatering Results¹ December 2020

Daniel Co.	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	1.93	2.23	***	***	***	
pH	SU	6.5	***	8.5	6.0	***	9.0	
Total Suspended Solids	mg/L	ND^3	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	***	15.0	20.0	

			Daile				
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily Average
		12/2/2020	12/9/2020	12/15/2020	12/21/2020	12/28/2020	, wording o
Turbidity	NTU	1.6	1.6	2.1	5.9	4.0	3.0
Total Dissolved Solids	mg/L	257	254	302	339	329	296
Ammonia	mg/L	0.19	0.21	0.24	0.38	0.51	0.31
Total Kjeldahl Nitrogen	mg/L	0.61	ND	0.67	0.82	0.97	0.61
Nitrate-Nitrite	mg/L	0.15	0.20	0.22	0.26	0.29	0.22
Organic Nitrogen	mg/L	ND	ND	ND	ND	ND	ND
Phosphorus	mg/L	ND	ND	0.07	ND	ND	0.01
Ortho-Phosphorus	mg/L	ND	ND	ND	ND	ND	ND
Biological Oxygen Demand	mg/L	ND	ND	ND	ND	ND	ND
Hardness	mg/L	149	162	177	176	186	170

Parameter Uni	Huita	Effluent Concentration ⁴						Calculated Receiving Water Concentration⁴					Water Quality Criteria⁵	
Parameter	er Units We	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5	Averen	A6	01
		12/2/2020	12/9/2020	12/15/2020	12/21/2020	12/28/2020	12/2/2020	12/9/2020	12/15/2020	12/21/2020	12/28/2020	Average	Acute ^b	Chronic ⁶
Arsenic	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	340	150
Cadmium	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	1	0.43
Chromium ⁷	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 ⁸	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	***	5
Zinc	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	65	65
Mercury	ng/L	ND	0.7	ND	ND	ND	***	0.0023	***	***	***	0.0005	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 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, non-detectable effluent concentrations are not translated into Calculated Receiving Water Concentrations.

 5 Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated at a default hardness of 50 mg/L as calculum carbonate) established for the receiving waterbody that will be 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.

 5 Acute (short-term) water quality criterion be compared with the weekly calculated receiving water concentration.

 7 Numeric water quality criterion shown is for Hexavalent Chromium.

 8 The numeric water quality criterion shown is the chronic (long-term) water quality criterion to the compared with the value of the chromium of the c





Monthly Instream Results¹

Plant Yates



December 2020

		Chattahoochee River ²							
Parameter ³	Units	12/2/2020	12/2/2020	12/15/2020	12/15/2020				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	6.9	7.1	7.0	7.0				
TSS	mg/L	26.0	15.0	8.5	ND				
O&G	mg/L	ND^4	ND	ND	ND				
Turbidity	NTU	22.8	23.6	12.1	18.2				
TDS	mg/L	63	15	83	76				
BOD	mg/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	ND	ND				
Mercury	ng/L	2.3	2.6	1.2	2.0				
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	0.51	0.51	ND	0.63				
Nitrate-Nitrite	mg/L	0.85	0.84	1.50	1.40				
Organic Nitrogen	mg/L	ND	ND	ND	0.60				
Phosphorus	mg/L	ND	ND	0.15	ND				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	23	23	30	30				

- 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

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