



## **Plant Yates** Monthly Dewatering Results<sup>1</sup> October 2020

	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	0.00	0.64	1.02	***	***	***	
pН	SU	6.6	***	8.2	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	

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Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Average
		10/1/2020	10/7/2020	10/14/2020	10/21/2020	10/27/2020	
Turbidity	NTU	1.4	2.2	1.3	1.6	1.1	1.5
Total Dissolved Solids	mg/L	326	401	269	375	285	331
Ammonia	mg/L	0.98	1.10	0.73	0.82	0.96	0.92
Total Kjeldahl Nitrogen	mg/L	1.10	1.20	0.61	0.88	1.30	1.02
Nitrate-Nitrite	mg/L	0.34	0.28	0.44	0.32	0.39	0.35
Organic Nitrogen	mg/L	ND	ND	ND	ND	ND	ND
Phosphorus	mg/L	ND	ND	ND	ND	ND	ND
Ortho-Phosphorus mg/		ND	ND	ND	ND	ND	ND
Biological Oxygen Demand mg/L		ND	ND	ND	ND	7.8	1.6
Hardness	mg/L	164	208	137	172	144	165

Parameter Units	l luite	Effluent Concentration <sup>4</sup>					Calculated Receiving Water Concentration <sup>4</sup>					Water Quality Criteria⁵		
	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5	Average	Acute <sup>6</sup>	Chronic <sup>6</sup>
		10/1/2020	10/7/2020	10/14/2020	10/21/2020	10/27/2020	10/1/2020	10/7/2020	10/14/2020	10/21/2020	10/27/2020			
Arsenic	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	340	150
Cadmium	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	1	0.43
Chromium <sup>7</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	7.0	7.2	ND	5.4	ND	0.0108	0.0111	***	0.0083	***	0.0060	260	29
Selenium <sup>8</sup>	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	***	5
Zinc	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	65	65
Mercury	ng/L	ND	ND	ND	0.6	ND	***	***	***	0.0008	***	0.0002	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.

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

  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.

  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.

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

  Numeric water quality criterion shown is for the avavalent Chromium.

  The numeric water quality criterion shown is the chronic (long-term) water quality criterion to be compared with the average calculated receiving water concentration.

- = Not Applicable
- mg/L = milligrams per liter = parts per million; µg/L = micrograms per liter = parts per billion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day



## **Plant Yates**

Prepared by:



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

October 2020

		Chattahoochee River <sup>2</sup>						
Parameter <sup>3</sup>	Units	10/7/2020	10/7/2020	10/14/2020	10/14/2020			
		Upstream	Downstream	Upstream	Downstream			
рН	SU	6.2	6.8	6.5	6.6			
TSS	mg/L	$ND^4$	28.5	30.0	91.0			
O&G	mg/L	ND	ND	ND	ND			
Turbidity	NTU	8.6	12.4	61.0	60.0			
TDS	mg/L	46	67	84	80			
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	5.3			
Lead	μg/L	ND	ND	2.6	2.3			
Mercury	ng/L	1.2	1.2	7.2	6.4			
Nickel	μg/L	ND	ND	ND	ND			
Selenium	μg/L	ND	ND	ND	ND			
Zinc	μg/L	ND	ND	14.0	14.7			
Ammonia	mg/L	ND	ND	ND	ND			
TKN	mg/L	ND	ND	ND	ND			
Nitrate-Nitrite	mg/L	2.20	2.20	1.00	1.10			
Organic Nitrogen	mg/L	ND	ND	ND	ND			
Phosphorus	mg/L	0.05	ND	0.08	0.06			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	31	30	25	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

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