



## **Plant Branch Monthly Dewatering Results**<sup>1</sup> January 2021

	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	2.60	2.94	***	***	***	
рН	SU	6.6	***	8.4	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	

	Units		Daily			
Parameter		Week 1	Week 2	Week 3	Week 4	Average
		1/7/2021	1/14/2021	1/21/2021	1/28/2021	
Turbidity <sup>4</sup>	NTU	0.02	0.02	0.03	0.03	0.03
Total Residual Chlorine <sup>4</sup>	mg/L	ND	ND	ND	ND	ND
Total Dissolved Solids	mg/L	41	24	ND	28	23
Ammonia	mg/L	ND	ND	ND	ND	ND
Total Kjeldahl Nitrogen	mg/L	ND	ND	ND	ND	ND
Nitrate-Nitrite	mg/L	ND	ND	ND	ND	ND
Organic Nitrogen	mg/L	ND	ND	ND	ND	ND
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	ND	ND	ND	ND	ND

Parameter	Units		Effluent Co	ncentration <sup>5</sup>		Calculated Receiving Water Concentration⁵					Water Quality Criteria <sup>6</sup>	
Parameter	Week 1	Units	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Average	A4-7	Charania <sup>7</sup>
		1/7/2021	1/14/2021	1/21/2021	1/28/2021	1/7/2021	1/14/2021	1/21/2021	1/28/2021	Average	Acute' Chron	Chronic <sup>7</sup>
Arsenic	μg/L	ND	ND	ND	ND	***	***	***	***	***	340	150
Cadmium	μg/L	ND	ND	ND	ND	***	***	***	***	***	1	0.43
Chromium <sup>8</sup>	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 <sup>9</sup>	μg/L	ND	ND	ND	ND	***	***	***	***	***	***	5
Zinc	μg/L	ND	ND	ND	ND	***	***	***	***	***	65	65
Mercury	ng/L	ND	ND	ND	ND	***	***	***	***	***	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.

- - 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 Branch**



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

January 2021

		Lake Sinclair <sup>2</sup>							
Parameter <sup>3</sup>	Units	1/7/2021	1/7/2021	1/14/2021	1/14/2021				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	6.9	6.7	6.8	6.9				
TSS	mg/L	7.5	5.0	5.5	ND				
O&G	mg/L	$ND^4$	ND	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	39.60	12.60	45.80	10.60				
TDS	mg/L	81	66	69	45				
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	3.5	1.3	3.4	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	0.62	1.50	0.50	ND				
Nitrate-Nitrite	mg/L	0.22	0.19	0.24	0.25				
Organic Nitrogen	mg/L	0.59	1.50	ND	ND				
Phosphorus	mg/L	ND	ND	0.07	0.05				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	24	21	22	20				

- 1 Tetra Tech verifies the correct laboratory analysis methods were used.
- 2 Lake Sinclair measured upstream near lat 33.196636 and long -83.295389, and downstream near lat 33.180392 and long -83.322964.
- 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; ng/L = micrograms per liter = parts per trillion; ng/L = micrograms per liter = parts per trillion; ng/L = micrograms per liter = parts per trillion; ng/L = micrograms per liter = parts per trillion; ng/L = micrograms per liter = parts per billion;