

Plant Branch

Prepared by:



Monthly Dewatering Results¹

February 2021

	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	2.51	2.72	2.90	***	***	***	
pН	SU	6.8	***	8.4	6.0	***	9.0	
Total Suspended Solids	mg/L	ND ³	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	1.6	6.2	***	15.0	20.0	

Parameter	Units		Daily				
Parameter		Week 1	Week 2	Week 3	Week 4	Average	
		2/4/2021	2/11/2021	2/18/2021	2/25/2021		
Turbidity ⁴	NTU	0.03	0.03	0.09	0.27	0.11	
Total Residual Chlorine ⁴	mg/L	ND	ND	ND	ND	ND	
Total Dissolved Solids	mg/L	24	26	32	35	29	
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	Effluent Concentration ⁵			Calculated Receiving Water Concentration ⁵					Water Quality Criteria ⁶			
Faranieter	Units	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Average	A A 7	Ohmania7
		2/4/2021	2/11/2021	2/18/2021	2/25/2021	2/4/2021	2/11/2021	2/18/2021	2/25/2021		Acute'	Chronic'
Arsenic	μ g/L	ND	ND	ND	ND	***	***	***	***	***	340	150
Cadmium	μ g/L	ND	ND	ND	ND	***	***	***	***	***	0.94	0.43
Chromium ⁸	μ g/L	ND	ND	ND	ND	***	***	***	***	***	16	11
Copper	μ g/L	ND	ND	ND	ND	***	***	***	***	***	7	5
Lead	μ g/L	ND	ND	ND	ND	***	***	***	***	***	30	1.2
Nickel	μ g/L	ND	ND	ND	ND	***	***	***	***	***	260	29
Selenium ⁹	μ g/L	ND	ND	ND	ND	***	***	***	***	***	***	5
Zinc	μ g/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 Arg is the arithmetic average of all daily values during the entire month.
ND = Not 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 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. Concistent with Georgia EPD on ordetcable 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 handress of 50 mg/L as calculated Receiving waterbody that will be protective of the designated use per Georgia EPD's nules and equality criterion to be compared with the weekly calculated receiving water concentrations.
Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration. Chronic (ong-term) water quality criterion to be compared with the weekly calculated receiving water quality criterion.
Numeric water quality criterion shown is the chronic (ong-term) water quality criterion to be compared with the average calculated receiving water concentration.
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The nume

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 BranchTEGeorgia PowerMonthly Instream Results1February 2021									
Lake Sinclair ²									
Parameter ³	Units	2/4/2021	2/4/2021	2/11/2021 2/11/202					
		Upstream	Downstream	Upstream	Downstream				
рН	SU	7.3	7.3	6.2	6.5				
TSS	mg/L	6.0	6.5	9.5	ND				
O&G	mg/L	ND^4	ND	ND	ND				
TRC	mg/L	* * *	* * *	* * *	* * *				
Turbidity	NTU	28.90	9.32	18.00	7.58				
TDS	mg/L	77	47	22	ND				
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	3.1	1.3	1.6	0.7				
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	ND	ND	ND	ND				
Nitrate-Nitrite	mg/L	0.28	0.23	0.25	0.17				
Organic Nitrogen	mg/L	ND	ND	ND	ND				
Phosphorus	mg/L	ND	ND	0.09	ND				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	20	19	22	21				

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.

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