

Plant Branch

Prepared by:



Monthly Dewatering Results¹

December 2024

	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				***	***	***	
рН	SU				6.0	***	9.0	
Total Suspended Solids	mg/L				***	30.0	100.0	
Oil and Grease	mg/L				***	15.0	20.0	

Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily
		No Discharge	Average				
Turbidity ⁴	NTU						
Total Residual Chlorine ⁴	mg/L						
Total Dissolved Solids	mg/L						
Ammonia	mg/L						
Total Kjeldahl Nitrogen	mg/L						
Nitrate-Nitrite	mg/L						
Organic Nitrogen	mg/L						
Phosphorus	mg/L						
Ortho-Phosphorus	mg/L						
Biological Oxygen Demand	mg/L						
Hardness	mg/L						

Effluent Concentration ⁵				Calculated Receiving Water Concentration ⁵						Water Quality Criteria ⁶				
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5			
		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	Average	Acute ⁷	Chronic'
Antimony ⁹	μg/L												***	640
Arsenic	μg/L												340	150
Cadmium	μg/L												0.94	0.43
Chromium ⁸	μg/L												16	11
Copper	μg/L												7	5
Lead	μg/L												30	1.2
Nickel	μg/L												260	29
Selenium ⁹	μg/L												***	5
Thallium ⁹	μg/L												***	0.47
Zinc	μg/L												65	65
Mercury	ng/L												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 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).
Turbidity and total residual choire 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 waterdody. This value is calculated as a dissolved concentration for an appropriate comparison to the numeric water quality criteria as a mixed from. Consistent with Georgia EPD's nucleated Beedving Water Concentrations.
Numeric Water Quality Circle is the maximum concentration of a parameter (calculated as a dissolved down). The value reported of the weekly maximum values reported.
Calculated Receiving Water Concentrations is the situation account that fractions of 50 mg/L as en or transisted into Calculated Receiving Water Concentrations.
Numeric Water Quality Circle is the maximum concentration of a parameter (calculated as a dissolved or the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the weekly exclusion action action



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Monthly Instream Results¹

December 2024

		Lake Sinclair ²							
Parameter ³	Units	No Discharge	No Discharge	No Discharge	No Discharge				
		Upstream	Downstream	Upstream	Downstream				
pН	SU								
TSS	mg/L								
O&G	mg/L								
TRC	mg/L								
Turbidity	NTU								
TDS	mg/L								
BOD	mg/L								
Antimony	μg/L								
Arsenic	μg/L								
Cadmium	μg/L								
Chromium	μg/L								
Copper	μg/L								
Lead	μg/L								
Mercury	ng/L								
Nickel	μg/L								
Selenium	μg/L								
Thallium	μg/L								
Zinc	μg/L								
Ammonia	mg/L								
TKN	mg/L								
Nitrate-Nitrite	mg/L								
Organic Nitrogen	mg/L								
Phosphorus	mg/L								
Ortho-phosphorus	mg/L								
Hardness	mg/L								

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; μ g/L = micrograms per liter = parts per billion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day