

Georgia Power

Monthly Dewatering Results¹ September 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	0.00	0.00	0.00	***	***	***	
pН	SU				6.0	***	9.0	
Total Suspended Solids	mg/L				***	30.0	100.0	
Oil and Grease	mg/L				***	15.0	20.0	

	Units						
Parameter		Week 1	Week 2	Week 3	Week 4	Week 5	Daily
		No Discharge	No Discharge	No Discharge	No Discharge	Sampled in October	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	Sampled in October	No Discharge	No Discharge	No Discharge	No Discharge	Sampled in October	Average	Acute ⁷	Chronic ⁷
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 to 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 antithmetic average of all daily values during the entire month.

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

 4 Turbibly and total residual chlorine are monitored continuously. The value reported is the veekly maximum and the daily average is the average of the weekly maximum values reported.

 5 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 discovered form. Consistent with Georgia EPD, non-detectable effluent concentrations are not translated into Calculated Receiving Water Concentrations.

 5 Numeric Valer Quality Criteria is the maximum concentration of a parameter (calculated at a default hartness of 50 mg/L as calcium carbonately 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.

 6 Acute (soft-term) water quality criterion shows is for Hexavalent Chromium.

 7 The numeric water quality criterion shows is for Hexavalent Chromium.

 8 Numeric water quality criterion shows is for Hexavalent Chromium.

 8 The numeric water quality criterion shows is for Hexavalent Chromium.

 9 The numeric water quality criterion shows is for Hexavalent Chromium.

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 1 Numeric water quality criterion shows are the chronic (long-term) water quality criterion for an appropriate comparison to the numeric water quality criterion shows in the excent part of the



Plant Branch

Prepared by:



Monthly Instream Results¹

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