



Plant Branch Monthly Dewatering Results¹

March 2025

	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	1.10	1.18	***	***	***	
pН	SU	6.8	***	8.2	6.0	***	9.0	
Total Suspended Solids	mg/L	ND^3	ND	ND	ND	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	ND	15.0	20.0	

Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily	
i didiletei	Onits	3/5/2025	3/12/2025	3/19/2025	3/26/2025	Sampled in April	Average	
Turbidity ⁴	NTU	0.1	0.1	0.3	0.1		0.2	
Total Residual Chlorine ⁴	mg/L	ND	ND	ND	ND		ND	
Total Dissolved Solids	mg/L	41	27	35	41		36	
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	12	11	14	15		13	

		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			
		3/5/2025	3/12/2025	3/19/2025	3/26/2025	Sampled in April	3/5/2025	3/12/2025	3/19/2025	3/26/2025	Sampled in April	Average	Acute ⁷	Chronic ⁷
Antimony ⁹	μg/L	ND	ND	ND	ND		***	***	***	***		***	***	640
Arsenic	μg/L	ND	ND	ND	ND		***	***	***	***		***	340	150
Cadmium	μg/L	ND	ND	ND	ND		***	***	***	***		***	0.94	0.43
Chromium ⁸	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 ⁹	μg/L	ND	ND	ND	ND		***	***	***	***		***	***	5
Thallium ⁹	μg/L	ND	ND	ND	ND		***	***	***	***		***	***	0.47
Zinc	μg/L	ND	ND	ND	ND		***	***	***	***		***	65	65
Mercury	ng/L	0.7	1.2	4.3	0.6		0.0892	0.1662	0.5770	0.0851		0.2294	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).

 Turbidity and total residual choine 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. 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 calciuum carbonale) 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 shown is for Hexavalent Chromium.

 The numeric water quality criterion shown is for Hexavalent Chromium.

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 The numeric water quality criteria shown are the chronic (ong-term) water quality criterion.

 Place Allies Calculated Receiving water quality criterion.

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mg/L = miligrams per liter = parts per million; µg/L = micrograms per liter = parts per million; SU = Standard Units; MGD = Million Gallons Day



Plant Branch

Prepared by:



Monthly Instream Results¹

March 2025

		Lake Sinclair ²							
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Parameter ³	Units	3/5/2025	3/5/2025	3/12/2025	3/12/2025				
		Upstream	Downstream	Upstream	Downstream				
pН	SU	7.2	7.5	7.3	7.4				
TSS	mg/L	8.4	4.2	9.0	4.1				
O&G	mg/L	ND^4	ND	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	26.7	6.6	27.0	6.4				
TDS	mg/L	88	57	58	56				
BOD	mg/L	ND	ND	ND	ND				
Antimony	μg/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	2.9	1.9	1.8	2.2				
Nickel	μg/L	ND	ND	ND	ND				
Selenium	μg/L	ND	ND	ND	ND				
Thallium	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	0.53	ND				
Nitrate-Nitrite	mg/L	0.24	0.24	0.23	0.25				
Organic Nitrogen	mg/L	ND	ND	0.52	ND				
Phosphorus	mg/L	ND	ND	ND	ND				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	22	23	20	23				

- 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