



Plant Branch Monthly Dewatering Results¹ November 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	0.90	1.00	***	***	***	
pН	SU	6.9	***	7.8	6.0	***	9.0	
Total Suspended Solids	mg/L	ND ³	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	***	15.0	20.0	

B	1114		Daily				
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Average	
		11/6/2024	11/13/2024	No Discharge	No Discharge		
Turbidity ⁴	NTU	0.1	0.1			0.1	
Total Residual Chlorine ⁴	mg/L	ND	ND			ND	
Total Dissolved Solids	mg/L	40	141			91	
Ammonia	mg/L	ND	ND			ND	
Total Kjeldahl Nitrogen	mg/L	ND	ND			ND	
Nitrate-Nitrite	mg/L	ND	ND			ND	
Organic Nitrogen	mg/L	ND	ND			ND	
Phosphorus	mg/L	ND	ND			ND	
Ortho-Phosphorus	mg/L	ND	ND			ND	
Biological Oxygen Demand	mg/L	ND	ND			ND	
Hardness	mg/L	18	21			19	

Parameter Units		Effluent Co	ncentration ⁵		Calculated Receiving Water Concentration ⁵					Water Quality Criteria ⁶		
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4		Acute ⁷	Chronic ⁷
		11/6/2024	11/13/2024	No Discharge	No Discharge	11/6/2024	11/13/2024	No Discharge	No Discharge	Average		
Antimony ⁹	μg/L	ND	ND			***	***			***	***	640
Arsenic	μg/L	ND	ND			***	***			***	340	150
Cadmium	μg/L	ND	ND			***	***			***	0.94	0.43
Chromium ⁸	μg/L	ND	ND			***	***			***	16	11
Copper	μg/L	ND	ND			***	***			***	7	5
Lead	μg/L	ND	ND			***	***			***	30	1.2
Nickel	μg/L	ND	ND			***	***			***	260	29
Selenium ⁹	μg/L	ND	ND			***	***			***	***	5
Thallium ⁹	μg/L	ND	ND			***	***			***	***	0.47
Zinc	μg/L	ND	ND			***	***			***	65	65
Mercury	ng/L	0.7	1.6			0.0973	0.2189			0.1581	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 lads'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.

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

Prepared by:



Monthly Instream Results¹

November 2024

		Lake Sinclair ²						
Parameter ³	Units	11/6/2024	11/6/2024	11/13/2024	11/13/2024			
		Upstream	Downstream	Upstream	Downstream			
pН	SU	7.3	7.3	7.2	7.2			
TSS	mg/L	ND^4	ND	ND	ND			
O&G	mg/L	ND	ND	ND	ND			
TRC	mg/L	***	***	***	***			
Turbidity	NTU	4.6	3.0	4.2	4.1			
TDS	mg/L	63	55	68	76			
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	1.1	0.9	4.7	1.4			
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	ND	ND			
Nitrate-Nitrite	mg/L	0.08	ND	0.07	ND			
Organic Nitrogen	mg/L	ND	ND	ND	ND			
Phosphorus	mg/L	ND	ND	ND	ND			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	21	20	21	22			

- 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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