Georgia Power

Plant Branch

Prepared by:

ŦŁ TETRA TECH

Monthly Dewatering Results¹

July 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	***	***	***	
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	No Discharge	No Discharge	No Discharge	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 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
Selenium9	μg/L											***	***	5
Thallium9	μg/L											***	***	0.47
Zinc	μg/L											***	65	65
Mercury	ng/L											***	1400	12

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Tera 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 chorine 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 translated into Calculated Receiving Water Concentrations. Numeric Water Quality Criteria is the maximum connentration of a the discharge once it has fully mixed in the receiving waterbody. This value is calculated Receiving Water Concentrations. Numeric Water Quality Criteria hereaving Water Concentrations are protective of the waterbody. Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration. Numeric water quality criterion in shown is for Hexavalent Chromium. The numeric water quality criterion shown is for Hexavalent Chromium. The numeric water quality criteria shown are the chronic (long-term) water quality criteria for an timenon, selenium, and thalium since these parameters do not have an acute (short-term) water quality criterion. = Not Applicable 5 6

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Monthly Instream Results¹

July 2024

		Lake Sinclair ²								
Parameter ³	Units	No Discharge	No Discharge	No Discharge	No Discharge					
		Upstream	Downstream	Upstream	Downstream					
рН	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; μg/L = micrograms per liter = parts per billion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day