Georgia Power

Plant McIntosh

Prepared by:

TŁ TETRA TECH

Monthly Dewatering Results¹

August 2021

		Efflu	ent Concent	ration	Permit Limits			
Parameter	Units	Daily Min ²	Daily Avg ²	Daily Max ²	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.00	0.21	0.33	***	***	***	
рН	SU	6.4	***	8.1	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	

			Daily				
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Average
		8/4/2021	8/11/2021	8/18/2021	8/25/2021	Sampled in September	,
Turbidity ⁴	NTU	4.2	3.2	4.5	4.5		4.1
Total Residual Chlorine ⁴	mg/L	ND	ND	ND	ND		ND
Total Dissolved Solids	mg/L	484	141	111	123		215
Ammonia	mg/L	0.16	ND	ND	ND		0.04
Total Kjeldahl Nitrogen	mg/L	ND	ND	ND	ND		ND
Nitrate-Nitrite	mg/L	ND	0.13	0.23	0.13		0.12
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	85	17	14	14		32

			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	Average		
		8/4/2021	8/11/2021	8/18/2021	8/25/2021	Sampled in September	8/4/2021	8/11/2021	8/18/2021	8/25/2021	Sampled in September		Acute ⁷	Chronic ⁷
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
Zinc	μg/L	ND	ND	ND	ND		***	***	***	***		***	65	65
Mercury	ng/L	1.4	ND	1.2	ND		0.0002	***	0.0001	***		0.0001	1400	12

2 3 4 5

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 Arg 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 chlorine are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported. Calculated Reserving Water Concentration shows the effluent concentration at the discharge encore 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 from -detectable effluent concentrations on SU and Subject Concentration for an appropriate comparison to the numeric water quality criteria, Scalutated Reserving Water Concentrations are are protective of the waterbody. Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration. Chronic (long-term) water quality criterion to be compared with the average calculated Reserving water concentration. Mumeric water quality criterion is the chronic (long-term) water quality criterion to be compared with the average calculated receiving water concentration. Mumeric water quality criterion is the chronic (long-term) water quality criterion to be compared with the weekly calculated receiving water concentration. The numeric water quality criterion is the chronic (long-term) water quality criterion to the compared with the average calculated Receiving water concentration. * e Not Applicable 6

and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the waterdody. 7. Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration; Chronic (long-term) water quality criterion to be compared with the axis 8. Numeric water quality criterion shown is for Hexavatent Chromium. 9. The numeric water quality criterion shown is the chronic (long-term) water quality criterion for selenium since this parameter does not have an acute (short-term) water quality criterion. *** Not Applicable mg/L = milligrams per liter = parts per million; µg/L = micrograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day



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TETRATECH

Monthly Instream Results¹

August 2021

		Savannah River ²						
Parameter ³	Units	8/4/2021	8/4/2021	8/11/2021	8/11/2021			
		Upstream	Downstream	Upstream	Downstream			
рН	SU	6.3	6.2	6.3	6.1			
TSS	mg/L	19.5	23.0	25.5	23.5			
O&G	mg/L	ND ⁴	ND	ND	ND			
TRC	mg/L	***	***	***	***			
Turbidity	NTU	19.4	19.7	22.7	21.7			
TDS	mg/L	74	54	43	49			
BOD	mg/L	ND	ND	ND	10.5			
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	3.3	3.3	1.7	2.0			
Nickel	μg/L	ND	ND	ND	ND			
Selenium	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	0.24	0.24	1.30	0.25			
Organic Nitrogen	mg/L	ND	ND	ND	ND			
Phosphorus	mg/L	0.09	0.09	0.09	0.08			
Ortho-phosphorus	mg/L	0.04	0.04	0.04	0.04			
Hardness	mg/L	19	19	17	17			

1 Tetra Tech verifies the correct laboratory analysis methods were used.

2 Savannah River measured 1,000ft upstream and 1,000ft downstream of Outfall 01.

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