

Plant Mitchell

Prepared by:

TŁ TETRA TECH

Monthly Dewatering Results¹

October 2024

	11.24	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	0.27	0.33	***	***	***	
рН	SU	6.6	***	8.3	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	

Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily
		10/1/2024	10/10/2024	10/17/2024	10/24/2024	No Discharge	Average
Turbidity ⁴	NTU	1.4	0.7	0.8	0.9		1.0
Total Residual Chlorine ⁴	mg/L	ND	ND	ND	ND		ND
Total Dissolved Solids	mg/L	155	164	166	174		165
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	80	81	81	80		81

		Effluent Concentration ⁵					Calculated Receiving Water Concentration ⁵					Water Quality Criteria ⁶		
Parameter Units	Units	Week 1	Week 1 Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5			
		10/1/2024	10/10/2024	10/17/2024	10/24/2024	No Discharge	10/1/2024	10/10/2024	10/17/2024	10/24/2024	No Discharge	Average	Acute ⁷	Chronic ⁷
Antimony	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
Selenium9	μg/L	7.5	7.9	6.0	7.4		0.0049	0.0052	0.0039	0.0048		0.0047	***	5
Thallium	μg/L	1.4	1.4	1.2	1.3		0.0009	0.0009	0.0008	0.0009		0.0009	***	0.47
Zinc	μg/L	ND	ND	ND	ND		***	***	***	***		***	65	65
Mercury	ng/L	0.7	0.8	0.8	0.6		0.0005	0.0005	0.0005	0.0004		0.0005	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).
Turbidly and total residual choines 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 effuent concentration at the discharge once it has fully invited in the receiving waterbody. This value is 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 calculated Receiving Water Concentrations.
Numeric Water Quality Criteria is the maximum concentration is less than these criteria 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 shown is the chronic. (tong-term) water quality criterion to the average calculated receiving water concentration.
Numeric water quality criterion shown is the chronic. (tong-term) water quality criterion for an appropriate comparison.
Numeric water quality criterion shown is the chronic. (tong-term) water quality criterion to bave an acute (short-term) water quality criterion.
Numeric water quality criterion shown is the chronic. (tong-term) water quality criterion for an acute quality criterion.
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Monthly Instream Results¹

October 2024

		Flint River ²						
Parameter ³	Units	10/1/2024	10/1/2024	10/10/2024	10/10/2024			
		Upstream	Downstream	Upstream	Downstream			
рН	SU	6.6	6.7	6.8	6.8			
TSS	mg/L	11.2	11.2	ND	ND			
O&G	mg/L	ND^4	ND	ND	ND			
TRC	mg/L	ND	ND	ND	ND			
Turbidity	NTU	29.1	27.8	15.1	15.9			
TDS	mg/L	76	73	100	84			
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	5.9	5.6	3.4	3.2			
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	0.66	0.67	0.60	0.52			
Nitrate-Nitrite	mg/L	0.28	0.28	0.56	0.56			
Organic Nitrogen	mg/L	ND	ND	0.57	ND			
Phosphorus	mg/L	0.08	0.07	ND	ND			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	20	20	42	39			

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

2 Flint River measured 500 ft upstream and 500 ft downstream from the final discharge at Outfall 01B.

3 Metals results are total recoverable.

4 ND = Non-detect

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