

Plant Mitchell

Prepared by:

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TETRA TECH

Monthly Dewatering Results¹

February 2023

Descrite	I.I.e.tte	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	6.7	***	8.4	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
		2/2/2023	2/8/2023	2/16/2023	2/23/2023	Sampled in March	Average
Turbidity ⁴	NTU	1.0	1.3	0.9	0.8		1.0
Total Residual Chlorine ⁴	mg/L	ND	ND	ND	ND		ND
Total Dissolved Solids	mg/L	78	132	121	69		100
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	31	33	31	32		32

Parameter Units		Effluent Concentration ⁵					Calculated Receiving Water Concentration ⁵					Water Quality Criteria ⁶		
	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5	Average	Acute ⁷	Chronic ⁷
		2/2/2023	2/8/2023	2/16/2023	2/23/2023	Sampled in March	2/2/2023	2/8/2023	2/16/2023	2/23/2023	Sampled in March			
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	ND	ND	ND	ND		***	***	***	***		***	***	5
Thallium	μg/L	ND	ND	ND	ND		***	***	***	***		***	***	0.47
Zinc	μg/L	ND	ND	ND	ND		***	***	***	***		***	65	65
Mercury	ng/L	0.8	0.6	1.03	0.65		0.0005	0.0004	0.0007	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 choicine 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 mixed 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. (borg-term) water quality criterion to be compared with the weekly calculated receiving water concentration.
Numeric water quality criterion shown is the chronic. (borg-term) water quality criterion for an action deving water concentration.
Numeric water quality criterion shown is the chronic. (borg-term) water quality criterion to bave an acute (short-term) water quality criterion.
The numeric water quality criterion shown is the chronic. (borg-term) water quality criterion for an action deving water quality criterion.
The numeric water quality criterion shown is the chronic. (borg-term) water quality criterion for an acute



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Monthly Instream Results¹

February 2023

		Flint River ²							
Parameter ³	Units	2/2/2023	2/2/2023	2/8/2023	2/8/2023				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	6.6	6.6	7.0	7.0				
TSS	mg/L	18.4	17.2	8.0	8.4				
O&G	mg/L	ND^4	ND	ND	ND				
TRC	mg/L	ND	ND	0.02	0.02				
Turbidity	NTU	38.1	38.5	31.9	32.8				
TDS	mg/L	77	69	65	65				
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	1.1	ND	ND				
Mercury	ng/L	7.0	6.4	5.0	5.0				
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	0.71	0.62	ND	ND				
Nitrate-Nitrite	mg/L	0.37	0.37	0.48	0.49				
Organic Nitrogen	mg/L	0.66	0.53	ND	ND				
Phosphorus	mg/L	ND	ND	0.06	ND				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	19	19	24	22				

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; μ g/L = micrograms per liter = parts per billion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day