

Plant Bowen

Prepared by: TETRA TECH

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Monthly Dewatering Results¹

February 2019

Parameter	Units		luent ntration	Permit Limits		
		Minimum	Maximum	Daily Avg	Daily Max	
Flow	MGD	0	0.36	***	***	
рН	SU	6.5	7.3	6.0 - 9.0		
Total Suspended Solids	mg/L	3.0	19.0	30.0	100.0	
Oil and Grease	mg/L	ND ²	ND	15.0	20.0	

Parameter	Units	Measured Effluent Concentration					
		2/5/2019	2/12/2019	2/19/2019	2/25/2019		
Turbidity	NTU	3.1	5.1	1.6	7.9		
Total Dissolved Solids	mg/L	1,800	1,500	1,400	1,400		
Ammonia	mg/L	0.056	ND	ND	ND		
Total Kjeldahl Nitrogen	mg/L	ND	0.22	0.47	0.28		
Nitrate-Nitrite	mg/L	ND	0.068	0.097	0.056		
Organic Nitrogen	mg/L	ND	0.22	0.47	0.28		
Phosphorus	mg/L	ND	ND	ND	ND		
Ortho-Phosphorus	mg/L	ND	ND	ND	ND		
Biological Oxygen Demand	mg/L	2.1	ND	ND	ND		
Hardness	mg/L	1,100	1,000	970	820		

Parameter	Units	Effluent Concentration ³			Calculated River Value ³				Water Quality	
		2/5/2019	2/12/2019	2/19/2019	2/25/2019	2/5/2019	2/11/2019	2/19/2019	2/25/2019	Standard ⁴
Arsenic	μ g/L	1.4	2.1	ND	ND	0.0060	0.009	***	***	340
Cadmium	μ g/L	ND	ND	ND	ND	***	***	***	***	1
Chromium ⁵	μg/L	ND	ND	ND	ND	***	***	***	***	16
Copper	μ g/L	ND	ND	ND	ND	***	***	***	***	7
Lead	μg/L	ND	ND	ND	ND	***	***	***	***	30
Nickel	μ g/L	14.0	11.0	10.0	7.6	0.064	0.050	0.049	0.036	260
Selenium ⁶	μ g/L	13.0	13.0	13.0	19.0	0.068	0.068	0.068	0.099	5
Zinc	μg/L	24.0	ND	ND	ND	0.083	***	***	***	65
Mercury	ng/L	3.1	8.6	4.3	3.1	0.0030	0.0087	0.0035	0.0027	1400

1 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.

2 ND = Not Detected.

3 Calculated River Value shows what the total effluent concentration looks like 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 not translated into calculated river values.

4 Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated at a default hardness of 50 mg/L as calcium carbonate) established for the receiving waterbody that will be protective of the designated use per Georgia EPD's rules and regulations. Calculated River Values less than these criteria are protective of the waterbody.

5 Numeric water quality criterion shown is for Hexavalent Chromium.

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