



Plant McManus

Prepared by: TETRA TECH

Monthly Dewatering Results¹

January 2019

Parameter	Units	Effluent Concentration		Permit Limits		
		Minimum	Maximum	Daily Avg	Daily Max	
Flow	MGD	0.0	1.91	***		***
pH	SU	6.6	7.9	6.0 - 9.0		
Total Suspended Solids	mg/L	5.8	9.4	30.0		100.0
Oil and Grease	mg/L	ND ²	ND	15.0		20.0

Parameter	Units	Measured Effluent				
		1/2/2019	1/8/2019	1/17/2019	1/23/2019	1/29/2019
Turbidity	NTU	2.87	3.45	3.80	3.86	3.07
Total Dissolved Solids	mg/L	3,600	2,500	2,100	3,100	4,300
Ammonia	mg/L	ND	ND	0.35	0.31	0.4
Total Kjeldahl Nitrogen	mg/L	1.4	1.5	2.3	1.8	2.3
Nitrate-Nitrite	mg/L	ND	0.05	ND	0.20	0.06
Organic Nitrogen	mg/L	2.3	1.5	2.0	1.5	1.9
Phosphorus	mg/L	ND	ND	ND	ND	ND
Ortho-Phosphorus	mg/L	ND	ND	ND	ND	ND
Biological Oxygen Demand	mg/L	4.1	4.8	8.3	7.4	5.8
Hardness	mg/L	220	150	110	150	220

Parameter	Units	Effluent Concentration ³					Calculated River Value ³				
		1/2/2019	1/8/2019	1/17/2019	1/23/2019	1/29/2019	1/2/2019	1/8/2019	1/17/2019	1/23/2019	1/29/2019
Arsenic	µg/L	19.0	12.0	ND	7.1	1/9/1900	10.71	6.64	***	3.89	5.05
Cadmium	µg/L	ND	ND	ND	ND	ND	***	***	***	***	***
Chromium ⁵	µg/L	ND	ND	ND	ND	ND	***	***	***	***	***
Copper	µg/L	ND	ND	ND	ND	ND	***	***	***	***	***
Lead	µg/L	ND	ND	ND	ND	ND	***	***	***	***	***
Nickel	µg/L	ND	ND	ND	ND	ND	***	***	***	***	***
Selenium	µg/L	ND	ND	ND	ND	ND	***	***	***	***	***
Zinc	µg/L	ND	ND	ND	ND	ND	***	***	***	***	***
Mercury	ng/L	ND	ND	ND	ND	ND	***	***	***	***	***

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 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.

*** = 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