



Plant McManus Monthly Dewatering Results¹

December 2016

Parameter	Units	Effluent Co	oncentration	Permit Limits	
		Minimum	Maximum	Daily Avg	Daily Max
Flow	MGD	0.00	0.62	***	***
рН	SU	6.9	8.26	6.0 - 9.0	
Total Suspended Solids	mg/L	6.0	8.5	30.0	100.0
Oil and Grease	mg/L	ND ²	ND	15.0	20.0

Parameter	Units	Measured Effluent Concentration		
		12/5/2016	12/20/2016	
Turbidity	mg/L	9	7.2	
Total Dissolved Solids	mg/L		2300	
Ammonia	mg/L	1.1	1.6	
Total Kjeldahl Nitrogen	mg/L	1.3	3.1	
Nitrate-Nitrite	mg/L	ND	0.045	
Organic Nitrogen	mg/L	ND	1.5	
Phosphorus	mg/L	ND	ND	
Ortho-Phosphorus	mg/L		0.0064	
Hardness	mg/L		454	

Parameter	Units	Effluent Concentration ³ 12/5/2016 12/20/2016		Calculated River Value ³ 12/5/2016 12/20/2016		Water Quality Standard ⁴
Arsenic	μg/L	17.1	4.2	9.20	2.36	69
Cadmium	μg/L	ND	ND	***	***	40
Chromium ⁵	μg/L	ND	ND	***	***	1100
Copper	μg/L	ND	ND	***	***	4.8
Lead	μg/L	ND	ND	***	***	210
Nickel	μg/L	3.1	ND	1.39	***	74
Selenium	μg/L	2.3	1.4	2.30	1.40	290
Zinc	μg/L	ND	ND	***	***	90
Mercury	ng/L	3.6	0.7	1.13	0.21	1800

- 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.
- 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 receving 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.
- Numeric water quality criterion shown is for Hexavalent Chromium.
- *** = Not Applicable

 $mg/L = milligrams \ per \ liter = parts \ per \ million; \ \mu g/L = micrograms \ per \ liter = parts \ per \ billion; \ ng/L = nanograms \ per \ liter = parts \ per \ trillion; \ SU = Standard \ Units; \ MGD = Million \ Gallons \ Day$