

## Georgia Power

## **Plant McManus** Monthly Dewatering Results<sup>1</sup> April 2020

		Efflu	ent Concent	ration	Permit Limits			
Parameter	Units	Daily Min <sup>3</sup>	Daily Avg <sup>3</sup>	Daily Max <sup>3</sup>	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.00	0.68	0.73	***	***	***	
pH	SU	7.0	***	7.7	6.0	***	9.0	
Total Suspended Solids	mg/L	7.0	10.5	14.0	***	30.0	100.0	
Oil and Grease	mg/L	$ND^2$	ND	ND	***	15.0	20.0	

Parameter	Units		Daily				
		Week 1	Week 2	Week 3	Week 4	Week 5	Average
		No Discharge	No Discharge	4/16/2020	4/21/2020	No Discharge	
Turbidity	NTU			2.3	3.3		2.8
Total Dissolved Solids	mg/L			2300	2100		2200
Ammonia	mg/L			0.27	0.30		0.29
Total Kjeldahl Nitrogen	mg/L			0.95	1.40		1.18
Nitrate-Nitrite	mg/L			ND	ND		ND
Organic Nitrogen	mg/L			0.69	1.10		0.90
Phosphorus	mg/L			ND	ND		ND
Ortho-Phosphorus	mg/L		·	ND	ND		ND
Biological Oxygen Demand	mg/L			ND	ND		ND
Hardness	mg/L			130	130		130

Parameter	Unito	Effluent Concentration⁴					Calculated Receiving Water Concentration⁴					Water Quality Criteria⁵		
Faranietei	UIIIIS	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5	Average	A4 - 6	Chronic <sup>6</sup>
		No Discharge	No Discharge	4/16/2020	4/21/2020	No Discharge	No Discharge	No Discharge	4/16/2020	4/21/2020	No Discharge	Average	Acute <sup>6</sup>	CHIONIC
Arsenic	μg/L			ND	ND				***	***		***	69	36
Cadmium	μg/L			ND	ND				***	***		***	40	8.8
Chromium <sup>7</sup>	μg/L			ND	ND				***	***		***	1,100	50
Copper	μg/L			ND	ND				***	***		***	4.8	3.1
Lead	μg/L			ND	ND				***	***		***	210	8.1
Nickel	μg/L			ND	ND				***	***		***	74	8.2
Selenium	μg/L			ND	ND				***	***		***	290	71
Zinc	μg/L			ND	ND				***	***		***	90	81
Mercury	ng/L			1.6	ND				0.0372	***		0.0186	1,800	25

- 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. ND = Not Detected (below the lab's reporting limit).
- 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.
- Calculated Receiving Water Concentration shows the effluent concentration at the discharge once it has fully make a few transparence of the state of
- Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations 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; Chronic (long-term) water quality criterion to be compared with the average calculated receiving water concentration.
- concentration.

  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



## **Plant McManus**

Prepared by:



## **Monthly Instream Results**<sup>1</sup>

April 2020

		Burnett Creek <sup>2</sup>							
Parameter <sup>3</sup>	Units	4/21/2020	4/21/2020	4/23/2020	4/23/2020				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	6.9	7.1	7.1	7.1				
TSS	mg/L	60.0	56.0	93.0	85.0				
O&G	mg/L	$ND^4$	ND	ND	ND				
Turbidity	NTU	16.7	6.5	7.8	6.9				
TDS	mg/L	12000	15000	12000	13000				
BOD	mg/L	ND	ND	ND	ND				
Arsenic	μg/L	3.2	3.3	3.3	3.3				
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	6.8	32.0	7.0	6.4				
Nickel	μg/L	ND	ND	ND	ND				
Selenium	μg/L	ND	ND	ND	ND				
Zinc	μg/L	ND	ND	ND	ND				
Ammonia	mg/L	ND	ND	ND	ND				
TKN	mg/L	0.57	0.44	0.48	0.44				
Nitrate-Nitrite	mg/L	0.05	0.05	0.06	ND				
Organic Nitrogen	mg/L	0.57	0.44	0.48	0.44				
Phosphorus	mg/L	0.11	0.12	0.16	0.15				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	320	380	380	370				

- 1 Tetra Tech verifies the correct laboratory analysis methods were used.
- 2 Burnett Creek measured 1000ft upstream and 1000ft downstream of Final Outfall 002.
- 3 Metals results are total recoverable.
- 4 ND = Non-detect

 $\text{mg/L} = \text{milligrams per liter} = \text{parts per million}; \ \mu\text{g/L} = \text{micrograms per liter} = \text{parts per billion};$ 

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