Table 1. Alabama In-Stream Narrative Standards for Fish and Wildlife Designation

Parameter	Min. Value	Avg. Value	Max. Value	Unit	Comment
BOD		30 (30-day)	45 (7-day)	mg/l	Equal secondary treatment performance
Color					Shall not cause toxicity or unreasonably affect aesthetic values of the waters
Dissolved O_2	5			mg/l	
Fecal Coliform			548	Colonies/100 ml	
Odor					Shall not cause toxicity or unreasonably affect aesthetic values of the waters
pH	6		8.5		Shall not deviate one unit form the normal
Taste					Shall not cause toxicity or unreasonably affect aesthetic values of the waters
Temperature			90	°F	Maximum in-stream increase above ambient temperature shall not exceed 5 °F
TSS		30 (30-day)	45 (7-day)	mg/l	Equal secondary treatment performance
Toxicity					Shall not be acutely or chronically toxic as demonstrated by testing
Turbidity				NTU	Shall not exceed 50 NTU above background levels

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Table 2. Project Design Assumptions

Parameter	Unit	Value	Comment
Expected effluent flowrate	MGD	0.44	Expected total wastewater flowrate
Average River flow	cfs	7137	Tombigbee River at Cochrane, USGS
7Q10 Tombigbee flow	cfs	500	ADEM supplied value
1Q10 Tombigbee flow	cfs	tbd	
Hardness	mg/l	50	Presumed value
pH		7	Presumed value

Table 3. Alabama In-stream Criteria for Toxic Pollutants and Estimated Discharge Limits

Pollutant	Presumed Value		Criteria		Estimated Discharge Limit at Maximum Discharge		Estimated Discharge Limit at Average Discharge	
			Acute	Chronic	Acute	Chronic	Acute	Chronic
	Hardness	pH	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Nickel	50	7	260.49	48.94				
Zinc	50	7	65.13	65.66				
Selenium			20	5				

Table 4. Estimated Mass Discharge Limits

Pollutant	Daily Max.		Monthly Average	
	Lbs/day	Kg/day	Lbs/day	Kg/day
Nickel	0.021	0.0095	0.017	0.0077
Zinc	0.24	0.11	0.20	0.090
SeO_4	0.075	0.034	0.063	0.029
BOD	23	10.4	19	8.6
COD	453	205	379	172
TSS	0		0	

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