

#### 4.4 Conventional Pollutants

Pollutants of Concern	Basis
pH	The instream wastewater concentration (IWC) is 100%. When the IWC is greater than 50%, there is reasonable potential for pH to cause or contribute to violations of the instream Georgia Water Quality Standard; therefore, pH limits of 6.0-8.5 SU (daily minimum-daily maximum) were maintained in the permit. Refer to Section 4.7.1 below for calculations.
Five-Day Biochemical Oxygen Demand (BOD <sub>5</sub> )	The current monthly average BOD <sub>5</sub> limit of 10 mg/L has been maintained in the permit. According to the steady-state dissolved oxygen Georgia DOSAG model, the proposed limit, when combined with the ammonia limit (refer to Section 4.5 below), is protective of the instream Water Quality Standard for dissolved oxygen described in Section 3.1 above. Refer to the WLA in <i>Appendix A</i> for model inputs.
Total Suspended Solids (TSS)	<p>The monthly average TSS limit has been reduced from 30 mg/L to 20 mg/L in the permit. The proposed limit is in accordance with EPD's <i>Guidelines for Establishing Technology-Based Total Suspended Solids (TSS) Limits in Domestic Wastewater NPDES Permits</i>, 2020 for mechanical plants.</p> <p>A review of Discharge Monitoring Report data indicates that the plant is able to consistently meet the new TSS limit.</p>