

**e. Description of Effluent Disposal and Land Application Sites (as reported by applicant)**

❖ Wastewater Treatment Facility

The facility produces a monthly average daily flow of 1.50 million gallons per day (MGD). Process wastewater is generated from poultry processing, the hatchery, plant sanitation activities; non-process wastewater is generated from boiler/condenser blowdown operations, water treatment plant filtrate, treated sanitary wastewater, treated vehicle and equipment wash water, and collected stormwater from industrial activity at the site. Process wastewater goes into the 0.075-MG dissolved air flotation (DAF) separation unit and then into the 15-million gallon (MG) anaerobic basin. Non-process wastewater bypasses the DAF and joins the process wastewater in the anaerobic basin. The commingled waste stream then flows from the anaerobic basin into the 0.50-MG anoxic basin, then into the 1.4-MG aeration basin, and then is split into the north and south 0.10 MG clarifiers. Activated sludge is returned to the anoxic basin and waste sludge is sent to the 1.2-MG aerobic sludge digester. Effluent from the secondary clarifiers may flow into either the 7.5-MG lined, facultative polishing pond or directly to the pump station feeding the denitrification filters (or both) after which the effluent stream receives pH adjustment and then flows to the chlorine contact chamber for disinfection. Following dechlorination, the treated water is discharged to the Suwanee River (Class III Fresh Water), an Outstanding Florida Water (OFW). Waste sludge treated in the aerobic sludge digester is land applied by spray irrigation to an onsite 44-acre land application system.

• **Figure 1: Site Plant**

