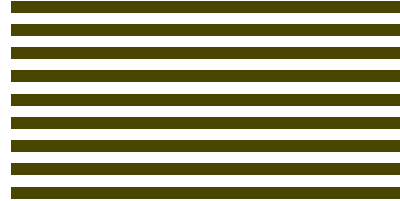




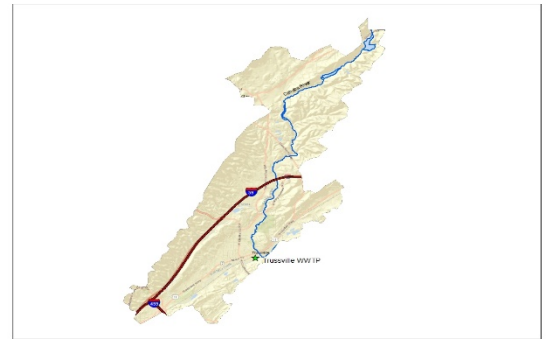
JEFFERSON COUNTY ENVIRONMENTAL SERVICES

TRUSSVILLE

WATER RECLAMATION FACILITY



CONSTRUCTED: 1936 | PERMITTED AVERAGE CAPACITY: 4 MGD | PEAK FLOW CAPACITY: 8 MGD
Grade III Facility



325 City Hall Dr., Trussville, AL 35173

Phase I TMDL Improvements 2015

Replacement of Alum Feed System
 Replacement of UV System with New Ozonia UV

Budget: (Actual or estimated)

Phase II TMDL Improvements 2017-2018
 Added 2 Influent Pumps in Pump Station
 New ChemScan Unit and Polymer Pumps
 New PAC Pumps for Phosphorus Removal
 Replaced Generator
 New Screw Press for Solids Removal
 New Thickener Pumps
 Added 2 Sand Filters, New Band Screen and Compactor, and Plant Water Pumps

Budget: 40 million (combined with Cahaba TMDL Construction)

Phase III TMDL Improvements
 To achieve 0.043 Total Phosphorus limit beginning April 1, 2027

Budget: 25 million Capital Cost

Facility Description

The Trussville WRF is located in the city of Trussville off Highway 11. The facility receives flow from the city of Trussville. (Approximately 20,000+ persons. The original plant was constructed in 1936.

- Personnel: 5 (4 Grade IV and 1 Grade II Operator)
- Manned Daily 7 – 5 (call-in for high flow)
- Seasonal (April-October) phosphorus limit of .2 mg/l
- UV Disinfection
- Drying Beds for Land Application

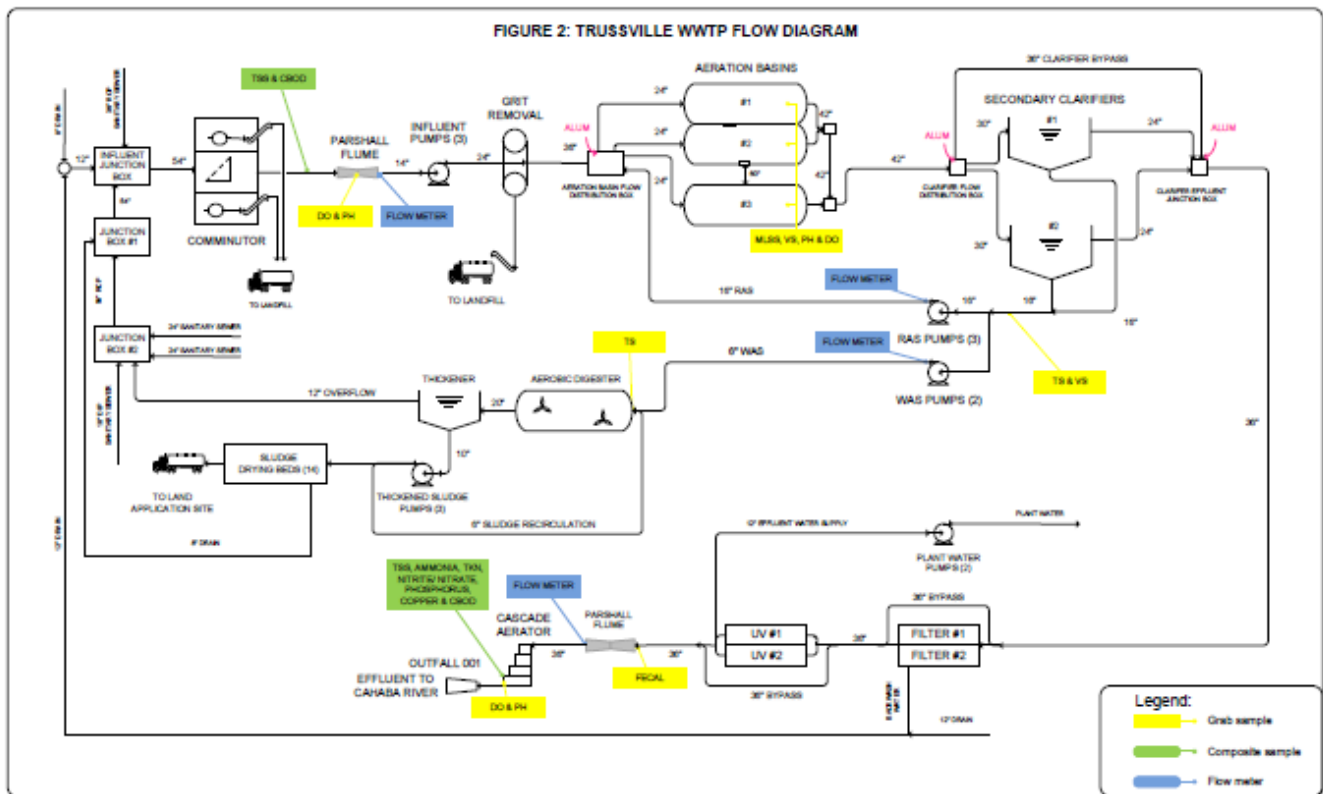
The Plant is designed as an oxidation ditch process with mechanical aeration and aerobic digestion along with final clarification. The plant also has tertiary treatment consisting of sand filtration and ultraviolet disinfection. Solids treatment consists of aerobic digestion and drying beds to be land applied.

The plant uses chemicals (PAC) to help with phosphorus removal to ensure levels are under the permitted monthly average of .2 mg/l.





Process Flow Diagram





Other information