



Wastewater Department 2019 Yearly Report

Department News

Passed the annual Discharge Monitoring Report-Quality Assurance Study #39.
Passed the annual Whole Effluent Toxicity Test
Submitted NPDES renewal application
Matt passed Grade One wastewater exam

Yearly Activities

Treated **420,000,000** gallons of waste water.
Average daily flow **1,150,685** gallons of wastewater.
Applied **2,119,950** gallons of Biosolids to the reed beds
Achieved a **97.6%** Biochemical Oxygen Demand removal.
Achieved a **94.6%** Total Suspended Solids removal.
Analyzed **5015** wastewater samples in the cities state certified laboratory.
Daily, monthly and yearly reports compiled for City and IDNR.
All emergency generators tested monthly to ensure readiness.
Safety meetings, fire extinguisher inspections and safety check lists completed monthly.

Work Performed

Changed oil in lift screw pumps number one and two
Bryan Construction cleaned out reed beds number three and four
Cleaned the decant basin and the effluent channel
Set, removed, replaced ballasts and lamps on both UV modules for this disinfection period.
Replaced existing water lines in the raw pump station with PEX tubing
Collected 3 effluent pollutant scans required to complete NPDES permit renewal application
K&W installed electrical panels for bypass of VFDs in the raw pump station
Cleaned effluent channel walls, floors, scrubbed finger weirs and vacuumed debris
Drained SBR's three and four in order to change air diffusers and make any repairs found
Ken's Electric replaced compressor number two in heat pump number two
Replaced decant basin transducer
Replaced check valve ball and gasket in plant drain pumps
Automatic System's replaced I/O board in the supervisory control panel in the lab building
Record temperatures and calibrate various lab equipment.
Perform preventative maintenance on all the various blowers, pumps, and process equipment.
Continue extra sampling required by permit to look for a constituent released in our effluent.