



DATE: July 14th, 2022
TO: Members of the Board of Directors
FROM: John Gibson, Chief Plant Operator
SUBJECT: OPERATION REPORT, June 7th – July 14th, 2022

Capstone Microturbine

CAL Microturbine had completed the 40,000-hour maintenance schedule for the Capstone Microturbine.

Lift Station #1 Perimeter Fence

GCSD has contracted with Coggins Fence & Supply to install the perimeter fencing at lift station #1 and is pending a start date.

Storage Shed Removal

Moving forward with shed demolition and removal, pending electrical disconnection.

Lift Station #2

Staff replaced an old rotted telephone pole that connects to the emergency call out line from the lift station controls to the main pole at the Joe Rododa Trail. AT&T replaced the old phonenumber with a new cable and reconnected to the pole. PumpMan performed a confined space entry into the wet well to replace and reroute two shutoff valves for the lift pumps to a reachable location for operation and maintenance. The original valves were mounted below the sewage line at the bottom of the wet well and became inoperable due to corrosion. Replaced grinder pump #2 and installed a new check valve.



Confined Space Entry



New pump shutoff valves



New call out phone pole



Chlorine Room



Univar Solutions representative Manuel Solis met with the Chief Plant Operator at the plant to take measurements for sizing of a liquid chlorine storage container with secondary containment. Manuel noted that the chlorine room is equipped with an eye wash station but will need an emergency shower as well to meet the requirements before the chlorine tank can be installed. Staff quickly ordered and installed an emergency shower near the eye wash station to meet the requirements.

Emergency Shower

Irrigation Field Tree Removal

Operators cut and removed a downed tree that had fallen and damaged an irrigation riser in the irrigation field. The damaged irrigation pipe was repaired and a 12" flexible hose was installed at the connection to the main line to reduce future breaks by allowing movement of the riser without cracking the pvc. Completed repairs throughout the onsite irrigation system.



Operators pulling away the fallen tree from a broken riser



Meetings

- Meeting with members of the Board from the NCRWQCB on July 9th, toured plant and discussed future options for recycled water reuse.
- Met with chain link fencing contractors for lift station#1 fence extension.
- Met with junk haulers for shed demolition and removal estimates.

Programing

John Harvey with Telstar reprogramed the PTG bypass system on SCADA to allow the chlorine room analyzer to activate without calling for the booster pump from the abandoned gas chlorine system to kick on. Troubleshooting chlorine analyzer operation and calibration. Recommended replacement of the analyzers.

Regulatory Compliance

- Completed the Q2 2022 groundwater monitoring and sampling.
- CIWQS: June “No Spill Report” was completed.

Operations, Process Control, and Preventative Maintenance

- Continued irrigation on GCSD’s irrigation fields, monitoring for runoff and breaks in the system.
- Troubleshooting loss of power to the chlorine contact chamber area outlets, located a popped fuse and replaced.
- Replaced starter battery for Lift Station #1 backup generator. Performed monthly run test.
- Spread finished compost via dump trailer in the West irrigation field.
- Pumped recycled water up to Kendal Jackson’s holding pond for agricultural use.
- Replaced worn stainless steel holding cables on aerator#2 in treatment pond#1.
- Replaced faulty transformer at lift station#2 control cabinet.
- Installed new wire connecter on the 75Hp effluent pump.
- Filled the dump trailer with garbage and debris around the plant and delivered to waste management.
- Grounds maintenance around lift station #1 & #2, weed abatement, cleanup.
- Pulled settling pond wet well transducer and checked measurement “about 4’ off” performed cleaning procedures and retested. Needs replacement, ordered part.
- Ordered a replacement Senses flow meter ROFI Register for the irrigation field.
- Delivered Fuzzy Filter valve actuator to E&M for refurbishing.
- Continued daily rag removal and weekly shoveling of the grit chambers at the headworks. Draining rags and grid in perforated buckets and disposing in the hippo hopper.
- Soaked the Fuzzy Filter media in a solution of sodium hypochlorite and water, air scoured and drained.
- Drained and cleaned the turbidity meters weekly or more often as needed.