

## **Water and Wastewater Items to be Repaired or Replaced**

**As of 5/31/23**

Completed items have been moved to the bottom of the list.

### **Water:**

Tom Allen is waiting on parts and will work us into his schedule as soon as he can.

- Wire and calibrate PH Meter at water house.
  - Call Tom Allen to schedule this work.
- Obtain assessment from electrician of water tank mixer that is not working.
  - Staff is preparing an RFP.
- Update operators manual at water house.
  - Project is ongoing. Paula Jackson from Vermont Rural Water is assisting on this project
- Common alarm at water house is malfunctioning.
  - Tom Allen is ordering a controller to install which will fix this issue.
  - While Tom Allen is onsite we will ask for quote on upgrading the common alarm which currently sends the same alarm for issues at the water house and pump station. It would be ideal if the alarm would specify the location of the issue.
- Water Meter Bids
  - Will follow up with staff on June 7 to finalize which company to recommend purchasing from.

### **Wastewater:**

- The auger gear box for the dewatering press broke on the weekend of May 27 – 28.
  - There is a new gear box in the WWTF inventory, but staff also discovered the stub that it attaches too needs to be replaced. Phil Laramie will be on site the week of May 30 – June 2 to make this repair. Septage receiving is shut down until this repair can be completed.
- The dialer to the pager from the alarm system needs to have installation finished.
  - This was found to be not operational at the end of Kendall Chamberlin's tenure. Tom Allen quickly corrected this to have the alarm send texts to staff cell phones until the alarm is cleared in SCADA. The next step is to have Tom Allen set up to alarm system to call the pager when there is an alarm and the cell service is not working.
- Finish creating checklist for post power outage procedures.
  - This has been started. Still needs to be finalized.
- Repair check valve on older pump in the pump station.
  - This work is being scheduled with Phil Laramie.
- Repair one backwash pump. Replace one Backwash pump.
  - The new pump has been installed.
  - A second new pump has been ordered.
    - The plan is to purchase a new pump to replace the older pump currently in place. Then use the older pump currently in place along with parts from the pump Phil Laramie has to rebuild a pump to have on hand as a backup.
- Assess why the recently installed grit motor is not functioning properly.

- Dan Pratt has looked at this and says it is working. Allen has seen it working on SCADA. Steve has not seen it working on SCADA. Dan will return to replace the resistor to see if that may fix the issue.
  - Dan will also look at the VFD for the grit blower to determine if the VFD needs to be fixed.
- Replace auger liner.
  - The liner and the screw were both replaced in Spring of 2022.
  - The screw broke in December 2022. During this repair staff observed that the liner needed to be changed.
  - Need to schedule Phil Laramie to conduct this repair. This is a two-day repair where we cannot accept septage.
- The dewatering press is overdue to be cleaned. It should be cleaned every six months.
  - This process can be completed by staff. This is also a day of shutdown where there can not be septage receiving.
  - Staff will plan to clean this on June 1 since the facility will not be receiving septage due to the auger gear box being down.
- Air valve on dewatering press needs to be replaced
  - Staff will order a new valve and install.
- Repair hazardous gas alarm.
  - Phil Laramie will provide an estimate of cost. Once this is in place quotes will be obtained for the repair.
- Repair UV meter.
  - A \$1,500 UV meter has been purchased and is on site.
  - Installation involves a calibration based on the intensity of the UV lights. Staff is working on determining how to measure the current intensity and will then proceed with installation.
- Clean and repair aeration tanks.
  - Tank 1 has been drained and cleaned. The valve in the tank is operational. The next step is to verify all the diffusers are operational. If they are all working correctly this tank will be filled and put online so tank 2 can be drained and cleaned.
- Clean solids out of all holding tanks.
  - The estimate to clean all tanks is \$115,000 for cleaning and disposal
  - We will proceed with VTums to clean out the front two aeration tanks which are estimated to cost \$21,000 for cleaning and \$10,200 for disposal for a total of \$31,200. This will process will start in June.
- Calibrate the sensor on the polymer tank and discuss potential corrections to occasional tank overflows.
  - Tom Allen will inspect when he is on site.
- Obtain quotes on meter for septage receiving.
  - A quote of \$68K has been obtained. During the walkthrough for the 20 year evaluation the engineers noted that other parts of the septage receiving system need to be replaced and it may make sense to bid all of the work at once. This pushes the meter purchase off for a few months but that may be the best option for planning purposes.
- Anoxic chamber mixer

- The mixer has been ordered for \$8,000. It should be on site end of July or early August. Staff will install and Dan Pratt will complete the wiring.

#### **On Hold Items**

- Improve ventilation in the dewatering building
  - Avonda Air assessed the current situation and estimated a cost of \$210,000 to correct the ventilation. This may be best addressed along with all WWTF ventilation in the 20 Year Study.

#### **Completed Water Items**

- Screens on reservoir tank needs to be replaced
  - This task has been completed.

#### **Completed Wastewater Items**

- Replace the second influent pump.
  - The pump from Phil Laramie has been installed.
- Repair the septage pump.
  - This task has been completed.
- Repair nonfunctioning pump in the pump station.
  - Phil Laramie has repaired the non-functioning pump and replaced the two solenoids.
- Install outdoor control for overhead doors at dewatering
  - This has been completed
- Build steps to the digester.
  - This has been completed.
- Install check valves for the influent pumps
  - This has been completed as of 5/4/23
- Repair meters that measure hours of operation for each pump
  - Dan Pratt has completed this as of 5/4/23