

Water and Wastewater Items to be Repaired or Replaced

As of 2/1/24

Items that have been updated since the last review of this list are highlighted in green.

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.
 - The PH Meter will be contacted for guidance on calibrating the PH Meter.
- Update operators manual at water house.
 - Brad Show has a renewed focus on this project. Paula Jackson from Vermont Rural Water is assisting on this project.
- Common alarm at water house is malfunctioning.
 - Currently the common alarm sends the same alarm for any issue at the wastewater pump station and the water house. Tom Allen is working on separating these two alarm systems so staff can tell if the alarm is coming from the wastewater pump station or the water house. There is also a malfunction that continues to send an alarm which Tom is looking into.
- Water Meter Replacement
 - We are finalizing the quantities and paperwork to proceed with the purchase.
 - We are working on an RFP for the installation of the meters with feedback from Zenner on specs.

Wastewater:

- The Dewatering Press has not been operating correctly since just after Labor Day
 - Parts for an emergency repair for the press have been ordered. The mechanical parts are expected to arrive in early February. **The control panel, flocculator and the recirculation valve are scheduled to arrive on May 14, 2024.**
 - Staff has disassembled 75% of the non-functioning channel of the press.
 - **Installation of all items will be schedule for late May once all the parts have arrived.**
- The dialer to the pager from the alarm system needs to have installation finished.
 - **The SCADA system is currently set up to alert the cell phones of staff with an alarm.**
 - **A hard line backup is necessary to backup the cell phone alert system.** The dialer has been installed. In this process it was found that the phone line was inactive. Staff is working on activating the phone line.
- 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.
 - **This is not an emergency and will likely be included in the work to install the new press.**
- 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 reaching out to the manufacture for information on how the calibrate the UV lights.

- Clean and repair aeration tanks.
 - Tank 1 been drained and cleaned. The valve in the tank is operational. The diffusers are operational. The next step is to fill the tank and put it online so tank 2 can be drained and cleaned. The tank has been filled with effluent to protect it from freezing over the winter. It will be put back online in the Spring when Tank 2 is drained and cleaned.
 - Tank 1 had been delayed in getting back online due to being used for overflow during the flood. The tank has now been drained and is ready to be placed online. This is an involved process and staff will schedule a time to do this.
 - Tank 1 has been filled with effluent for the winter. When the weather warms up this tank will be put online and Tank 2 will be cleaned out.
- Ongoing work on identifying and disconnecting storm water connections from wastewater system.
- Chain in the Clarifier 1 needs to be replaced.
 - The chain is process of being ordered. In the meantime Clarifier 2 is working well and meeting the needs of the plant.

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.
- Repair check valve on older pump in the pump station.
 - Staff have inspected the leak more closely and have determined that the leak is minimal and this item can be addressed in the larger upgrade.
- Repair hazardous gas alarm.
 - A repair of this is not possible until the full plant upgrade occurs.
- Obtain quotes on meter for septage receiving.
 - This will be included in the plant upgrade
- Install screen prior to influent pumps
 - This is a pretty involved project which will be best addressed in the plant upgrade
- Rewire fan in Wastewater Treatment Facility so the fan and the sump pump can operate at the same time.
 - This will be addressed in the plant upgrade.

Completed Water Items

- Screens on reservoir tank needs to be replaced
 - This task has been completed.
- Water Meter Bids
 - Moving forward with Zenner as of 6/20/23
- Replaced failed water tank mixer that is not working.
 - Mixer was installed on Nov. 14. A tank inspection and cleaning were completed at this time as well.
- Computer upgrades
 - Two new computers are in place.

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
- The auger gear box for the dewatering press broke on the weekend of May 27 – 28.
 - This has been repaired as of June 1, 2023
- The gear box on the horizontal conveyer failed on the weekend of June 10
 - This has been repaired as of 6/19/23
- Calibrate the sensor on the polymer tank and discuss potential corrections to occasional tank overflows.
 - This has been completed as of 6/12/23
- The dewatering press is overdue to be cleaned. It should be cleaned every six months.
 - This was been completely cleaned in mid-July
- Anoxic chamber mixer
 - This was installed the week of July 5th.
- Repair to non-essential items in wastewater pump station
 - This involved correcting an issue with the float that sounds the alarm if the pump station is filling up with water. This has been corrected.
- Repair aeration in the aerated holding basin
 - This has been completed.
- Repair generator transfer switch.
 - This was completed the week of July 31 – August 4
- Return tank levels to pre-flood stages
 - This has been completed the week of August 7 – 11
- Finish creating checklist for post power outage procedures.
 - This has been completed as of Sept. 14.
- Repair one backwash pump. Replace one Backwash pump.
 - This has been completed as of Oct.
- Assess why the recently installed grit motor is not functioning properly.
 - It is now feeding data correctly to SCADA
 - Cote is satisfied that the current equipment is operating as best that it can be expected to given its age and condition, but the grit motor will need to be addressed in the 20 year study.

- Clean wastewater lines that were submerged in the flood.
 - The State paid for cleaning of wastewater lines that were submerged in the flood. This work was performed the week of Nov. 13 – 17. The Town will pay for disposal of the grit but this will be covered by FEMA. Cote estimates that cleaning work would have been \$20K if we had to pay for it.
- Water Leak
 - Staff identified a faulty valve at the dewatering press. The valve is supposed to call for water during the wash cycle but it was calling for water continuously. Water usage has been returned to normal levels since the valve was replaced.
- Air valve on dewatering press needs to be replaced
 - This has been replaced.
- Unclog pipe from digester to dewatering
 - This has been completed
- Common alarm at water house is malfunctioning.
 - The issue had been that the alarm at the water pumphouse was going into alarm several times per day indicating that the water level at the water tank was too high. These were false alarms. The meter at the water tank sends the water level in the tank to the receiver at the water pump house and to the receiver for SCADA. The communication for water tank level between the receiver at the water pumphouse and SCADA has been disconnected and this has stopped the false alarms. The communication for water tank level between the water tank and SCADA is still connected and will send an alarm if the water level is too high.
- Clean solids out of all holding tanks.
 - All holding tanks have been cleaned, except for aeration Tank 2 which will be cleaned in the spring/summer of 2024. All tanks will now be on a yearly cleaning cycle.