

Water and Wastewater Items to be Repaired or Replaced

As of 4/13/23

Phill Laramie is in the process of creating a more detailed list to add to this list.

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

Water:

- 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.
 - Electrician Dan Pratt has determined the mixer is no longer functional. Staff are in process of getting quotes for a replacement.
- Update operators manual at water house.
 - Paula Jackson from Vermont Rural Water Association will work with staff on May 9, 2023 to update the manual.
- 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.

Wastewater:

- 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.
- Install check valves for the influent pumps
 - Check valves have been delivered.
 - As of 4/13/23 one check valve has been installed. Staff will install the second one within the next week.
- 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 meters that measure hours of operation for each pump
 - Staff will contact Dan Pratt to schedule this repair.
- Repair one backwash pump. Replace one Backwash pump.
 - The Rebuilt pump has arrived at WWTF. Staff discovered that it needs new housing for a seal to be operational. Giroux's is working on rebuilding the seal. Then the full repair can be completed.
 - The seal should be completed on 4/13/23 and then will be installed into the pump by Phil Laramie. Then pump will be installed into the facility.

- The new pump shipped on 4/12/23. It will be installed by staff once it arrives in Richmond. Once this is installed the pump it replaces will be rebuilt by Phil Laramie and kept at the WWTF as a backup.
- Assess why the recently installed grit motor is not functioning properly.
 - Staff will schedule Dan Pratt to inspect this motor.
- 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.
 - This had been scheduled for Monday, April 3 but was bumped to work on the filter. Will be rescheduled.
- Air valve on dewatering press needs to be replaced
 - Staff will order a new valve and install.
- Repair hazardous gas alarm.
 - Phill Laramie will provide an estimate of cost. Once this is in place quotes will be obtained for the repair.
- Repair UV meter.
 - Allen received a quote for a meter from UV Superstore for \$1,500 for one meter. There are two banks of lights to be monitored. One meter will be purchased and staff will determine if one meter can be used to monitor both banks and if not will order a second meter.
- Clean and repair aeration tanks.
 - Valves on drains for both tanks need to be repaired. Need to drain tank to repair valves.
 - Staff will start with the tank that is currently offline to drain and repair the valve. Once this tank is running the same process will take place on the second tank.
 - Staff is waiting for more weather to change to be more consistently above freezing and will then schedule this work.
- Clean solids out of all holding tanks.
 - Staff received preliminary feedback from one contractor. They estimate it will take a total of 12 days to complete the work, which can be phased in over time. There is not an estimate on the cost yet, but it is believed to be over \$20,000 for the removal and disposal of the solids.
- 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.
 - Phill Laramie will be providing information on this.

Completed Water Items

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

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 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.