

Clean Water Facility Handout for Articles 16, 17, and 18

ARTICLE 16: Rough Terrain Vehicle (Funded by retained earnings)

The facility is split between two buildings, requiring the moving of parts/supplies/equipment etc. back and forth between the admin end and the operations end. (Approx 1,083ft)



In the past, a golf cart was used to help staff move these items but experienced an electrical fire in the components and is now inoperable.

Staff currently must use a loader, or a small dolly, to physically walk parts and equipment to the other end of



the facility, causing delays in productivity. This equipment purchase was a delayed request from last year due to other facility priorities.

A utility vehicle would provide greater storage and transport ability to facilitate the many projects and daily operations of the facility.

The plow and sander attachments would assist in safely plowing and maintaining the several hundred feet of sidewalks, driveways, walkways, etc. that are at the facility.



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ARTICLE 17: Boiler Replacement (Funded by a combination of retained earnings + capital stabilization)

The operation building's 1980 fuel oil boiler is in desperate need of replacement. During the severe cold temperatures experienced in the recent winter months, the boiler struggled to work properly. The Turners Falls Fire Dept has also been called to the facility several times due to black smoke billowing from the boiler's chimney.

Due to age, the boiler continues to have issues beyond normal maintenance and repair, and it is recommended to be replaced before the next heating season.

The facility would like to replace the fuel oil boiler with a renewable energy sourced wood pellet boiler.

Along with reducing the carbon footprint, the pellet boiler is expected to save the facility on the cost of oil, with an equivalent Btu savings of approximately \$12,915 per year.

Key Points:

- Mini split/Heat Pumps are not a viable option due to sewer gases that cause premature corrosion and explosion issues. (Per engineers and HVAC company)
- Replacing in-kind w/fuel oil boiler would cost approximately \$130,000 (per HVAC company)
- New units would attach to existing ducts.
- 30-year warranty and expected life on new boiler system

- Town applied for the USDA Forrest Service Wood Energy Grant in March-up to 35% of total project cost.
- Staff will perform site work, room conversion construction, and labor to save \$\$\$.



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ARTICLE 18: Septage Receiving Station Upgrade (Funded by retained earnings)

The facility generates approximately \$150-\$200k per year from septage services and is past due for an upgrade. If the current system fails, which has occurred in the past, there would be a drastic loss in revenue, which could lead to an unexpected increase in sewer user rates. The current station is not set up to monitor pH as required per Mass General Laws and does not have an automated system for accurately tracking and monitoring haulers and their discharges.

With an Industrial Pretreatment program audited by EPA, and recent emerging concerns with chemicals such as PFAS, the ability to accurately monitor and sample/test haulers and their discharges is important to protect the quality of sludge the facility produces.

The current station is merely an open-air square hole in a storage tank with a small bar screen that needs to be manually cleaned after every discharge.

The new system will have a heated and insulated enclosure, connection port, actuated plug valve, magnetic flow meter, rock trap assembly, inline grinder, inline pH probe, and mounted access terminal with integrated reporting and billing software.

Staff will perform bypass pumping, demolition, removal of structures/equipment currently in use, increasing the concrete pad the station sits on, repairing/installing the pumps, valves, and piping in the dry pit, running conduit, running wiring, trenching, and coordinating with vendors to save \$\$\$.

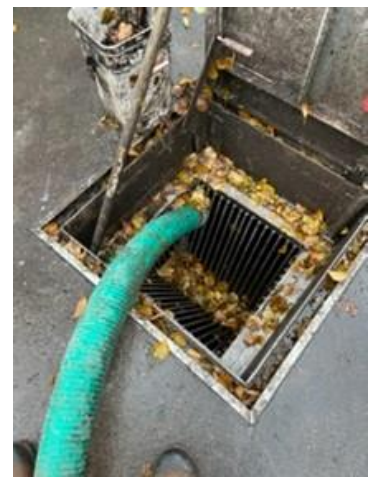
Current Valve Pit



Current Septage Station



Current Square Discharge Port



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Proposed New Septage Receiving Station

