**WATER/SEWER REPORT**

**August-2022**

 **NOTES:**

* We have been working closely with National Grid while they are replacing the Gas Main. We have located several faulty service lines and shut offs that do not work. The shut offs have been replaced and customers with faulty service lines have been informed.
* We will be performing meter readings at the end of the month with plans for billing to be sent out the beginning of October
* Penalties have been calculated and charged to all unpaid accounts for the month of September

**WD5/S2**

* Auto flushers have been delivered and we are scheduled for installation tentative this month

**EQUIPMENT**

* **2022 Ford F-550 –** We have picked up the vehicle and have ordered department identifying tags. We will be contacting the DMV for NY registration and need to get quotes for a snowplow and yellow work light installation.
* **2016 Ford F-350 –** We needed all brakes and rotors replaced. The parking brake system was completely rebuilt. We have built an in-bed toolbox system in the attempt to organize the vehicle and have the vehicle closer to what we need as a department.
* **2012 Chevy 3500 –** The inspection has run out and it will currently not pass a state inspection. It is parked on site with no plans of future usage by the department.
* **Truck Milage**
	+ 2022 Ford F-550 Odometer Reading: 476; Ran a total of 326 miles for the month of August, averaging 14.3 MPG.
	+ 2016 Ford F-250 Odometer Reading: 55,714; Ran a total of 519 miles for the month of August, averaging 15.4MPG.
	+ 2012 Chevy 3500HD Odometer Reading:75,648; Ran a total of 0 miles for the month of August, averaging 0 MPG.

**WATER AND SEWER**

* weekly maintenance performed on schedule
	+ pulling solids
	+ running hydro-gritter to reduce incoming grit
	+ decant the digester
	+ waste to the digester
	+ greasing
		- bearings at aeration basin
		- bearings at grit tank
		- bearings in Comminutor
		- bearings in hydro-gritter
		- bearings in automatic bar screen
		- bearings in high-capacity compressors
		- bearings for both clarifiers
		- bearings in high flow plunger pump
		- bearings in non-potable pumps
	+ adjustments
		- Return flow from clarifiers to aeration basin
		- clarifier production
		- chlorine injection
	+ Manually removing solids throughout the day
	+ clean and inspect clarifiers
	+ clean and inspect contact tanks
	+ clean and inspect grit tank
	+ clean and maintain buildings
* performed daily tests, inspections, and paperwork
* Performed monthly tests for both plants
* In talks with DOH, Town Supervisor, and CPL to determine timetable for complete filter media change out and full inspection drainage
* The east shaft on aerator has been blocked up to stabilize the aeration discs while we attempt to grease the shaft/gearcase connection to hopefully perform major bearing replacement this summer
* Grit tank pump:
	+ - The 3” pumps wet bearing needs repacked, but the bearing studs are so corroded we are afraid that performing the repair may cause more damage than current operations.
* Working on taking down the East Clarifier for repairs
	+ Process is going slow due to the overstretching of the department
* We have rewired the south 4” return pump. Due to a worn wire and water from flooding the harness shorted out and needed replaced.

**PARKS DIVISION**

* + - We have confirmed the steps of securing the mowers. We are currently awaiting NY State authorization to LandPRO of the purchase before delivery and invoiced.

**THIS MONTHS REQUIRED TESTING**

* **Water plant**
	+ 2 Total Coliform
	+ 20 Lead and Coppers due by the end of the year
	+ Organic Chemical testing
	+ Inorganic Chemical Testing
	+ Synthetic Chemical Testing
* **Sewer Plant**
	+ Coliform
	+ TSS and BOD5

 **PROJECTS TO COMPLETE**

1. Low Flow Regulator
	1. Schedule for after landscaping and dig sites along Water 5 and Sewer 2
2. Water Service for Voluntary Beautification Committee located at minor property on RT 20
	1. Scheduled for end of year (2022)/ beginning of year (2023)
		1. Depends on prioritized workload

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**Water Plant production**

* **Average Gallons Per Day (GPD) [Down from July]**
	+ Influent: 85,539 GPD (.086 MGD)
	+ Effluent: 85,027 GPD (.085MGD)
* **Total Gallons Per Month (GPM) [Down from July]**
	+ Influent: 2,651,716 GPM (2.65 MGM)
	+ Effluent:  2,635,849 GPM (2.64 MGM)

​**Wastewater Treatment Plant Flows**

* **​Average Flow in Million Gallons per Day (MGD)**
	+ 0.1038 MGD [Down from July]
* **Total Flow in Million Gallon per Month (MGM)**
	+ 3.2 MGM [Down from July]

**Note about Productions**

* All our meters are calibrated Annually from the same company, which makes me believe that they are accurate.
* When comparing the numbers that the Water plant produce versus the numbers that the Sewer plant receives it indicates a possible mass infiltration issue.
	+ **Total Flow received at the Sewer Plant: 3.2 million Gallons**
	+ **Total Flow sent from the Water Plant**: **2.6 million Gallons**
		- **Total Difference:** **0.6 million Gallons**
* The new sewer line that utilizes the large pump station located on Shortman Road processed 329,240 Gallons last month which is less than the previous month.
	+ **Total Difference in Production: 0.6 million Gallons**
	+ **Total processed sewage at Pump Station: 0.3 million Gallons**
	+ **Total Difference left in Sewer 1:**  **0.3 million Gallons**
* This means we took on more than 0.3 million gallons (MG) of what I will assume is I/I Water at the Sewer plant. (This is less than last month)
	+ I am assuming more than 0.3 MG because we service more customers with water then customers that have access to Sewer.
* We are just below our DEC required average flow for this month
	+ Our Required flow rate set by DEC is an average of 0.400 MGD
		- For us to meet this requirement in August we could not exceed a total of 12.4 MG for the month.