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COMMITMENT & INTEGRITY DRIVE RESULTS

# HULL WATER POLLUTION CONTROL FACILITY

## FEBRUARY 2023

## MONTHLY OPERATING REPORT



NPDES NO. MA0101231

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# 1 EXECUTIVE SUMMARY

**This Monthly Operating Report provides a summary of the pertinent information and activities that occurred at Hull WPCF during the month of February 2023.**

- No lost-time incidents for the month of February.
- Continuing Covid-19 awareness- adhering to W&C, Town of Hull, and CDC guidelines and sharing any protocol updates.
- There were 136 effluent samples taken in February.
- There was one alarm call afterhours that required a response by W&C staff.
- The Asset Management Accounts summaries for contract year #8 is attached- latest revision date is 2/16/23.
- There were 7 calls from residents for E-One grinder pump issues.
- W&C's O&M continued its efforts to support the various ongoing engineering projects and upgrades at the plant- see the projects section.
- The weekly Bio Bot Covid-19 wastewater sampling & monitoring program continued with W&C staff assisting Brian Kiley of the HSD when needed.

***Mike Sullivan – Plant Manager***

***Town of Hull WPCF***

***3/28//2023***

**Woodard & Curran strives to deliver a high-quality operations service and is responsive to our customers concerns. Please feel free to request any modifications to the format or content of this report.**

## 2 FLOWS AND LOADINGS



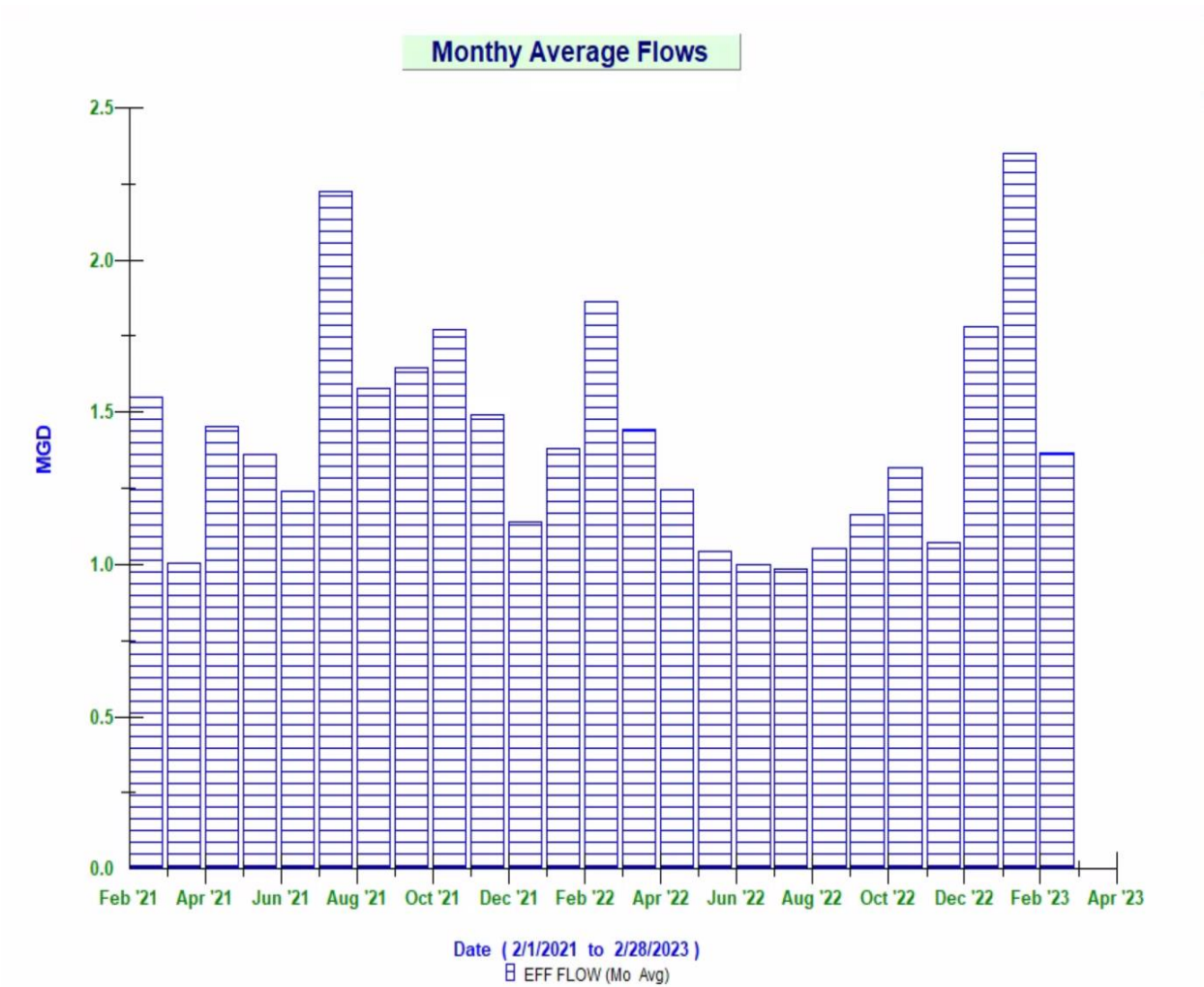
### Average Daily Flows and Loadings for *February*

Month / Year	Eff Flow	Inf Flow	Inf BOD	Inf TSS	Eff BOD	EFF TSS
	MGD	MDG	LBS	LBS	LBS	LBS
Feb '21	1.55	1.79	2,888.35	3,786.84	222.05	299.77
Feb '22	1.86	1.88	1,372.10	1,571.40	71.37	146.41
Feb '23	1.37	1.45	1,327.96	1,761.78	59.29	93.47

\* On-Going -the existing influent flow meters are strap-on doppler flow meters, and the existing pipe condition prevents getting a strong signal. An area velocity meter in the aeration tank inlet channel is used as well as the headworks influent Parshall Flume meter to monitor influent flows. All reported loadings are based on the effluent flow meter [new mag meter April 2021]. All meters are tied into the Scada system so that influent flows can be monitored.

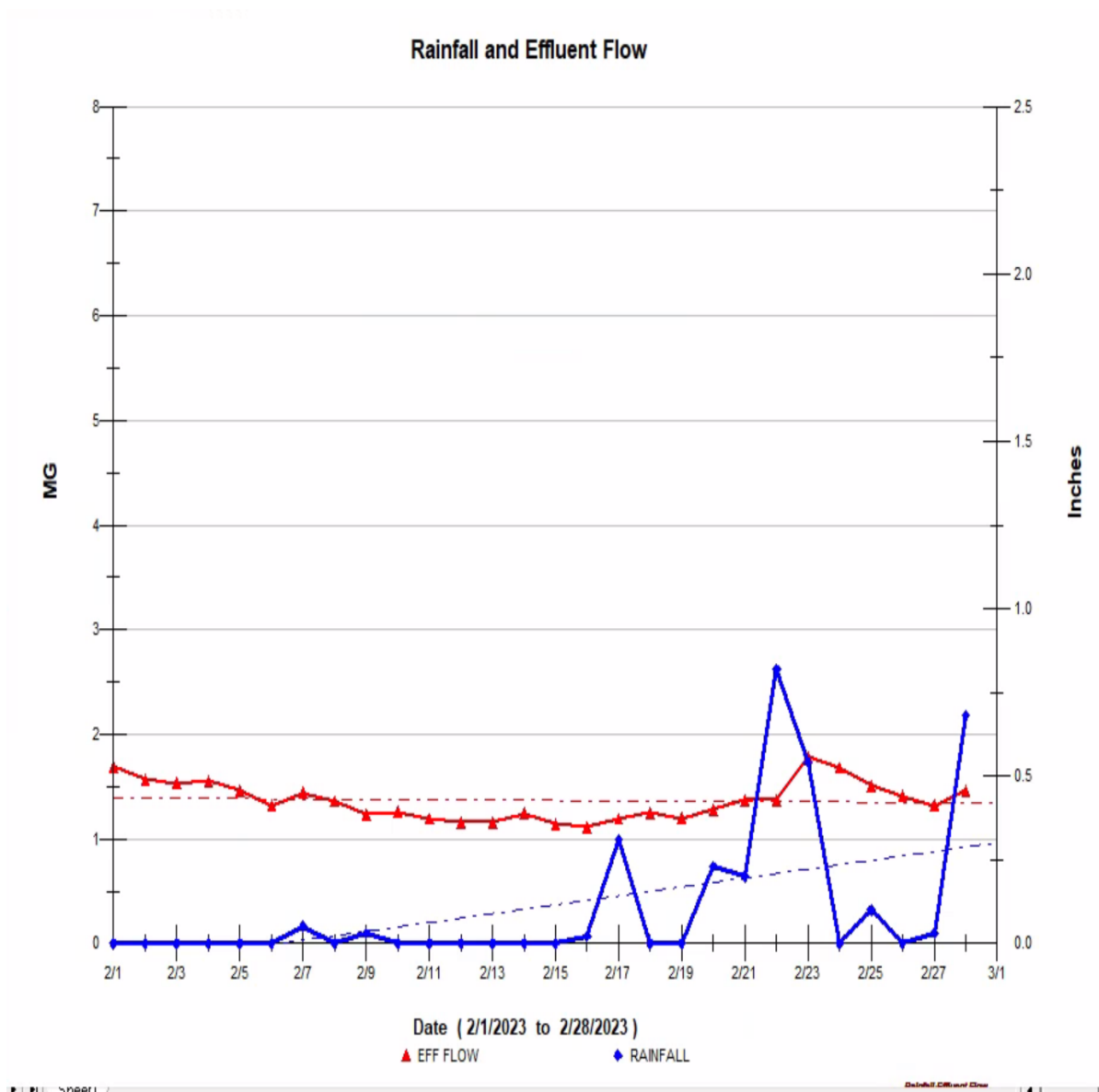
AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

The monthly average flow for February was 1.37 MGD, less than 2.35 MGD in January. Total precipitation for February was 3.06 inches, well less than January's 7.62 inches, and had no impact on the plant's process conditions. The graph below shows the 2-plus year summary of the monthly average flows.



## TWO MONTH SUMMARY OF RAINFALL AND THE INFLUENCE ON EFFLUENT FLOWS

This graph shows the days where precipitation occurred [rainfall] [Blue Peaks].

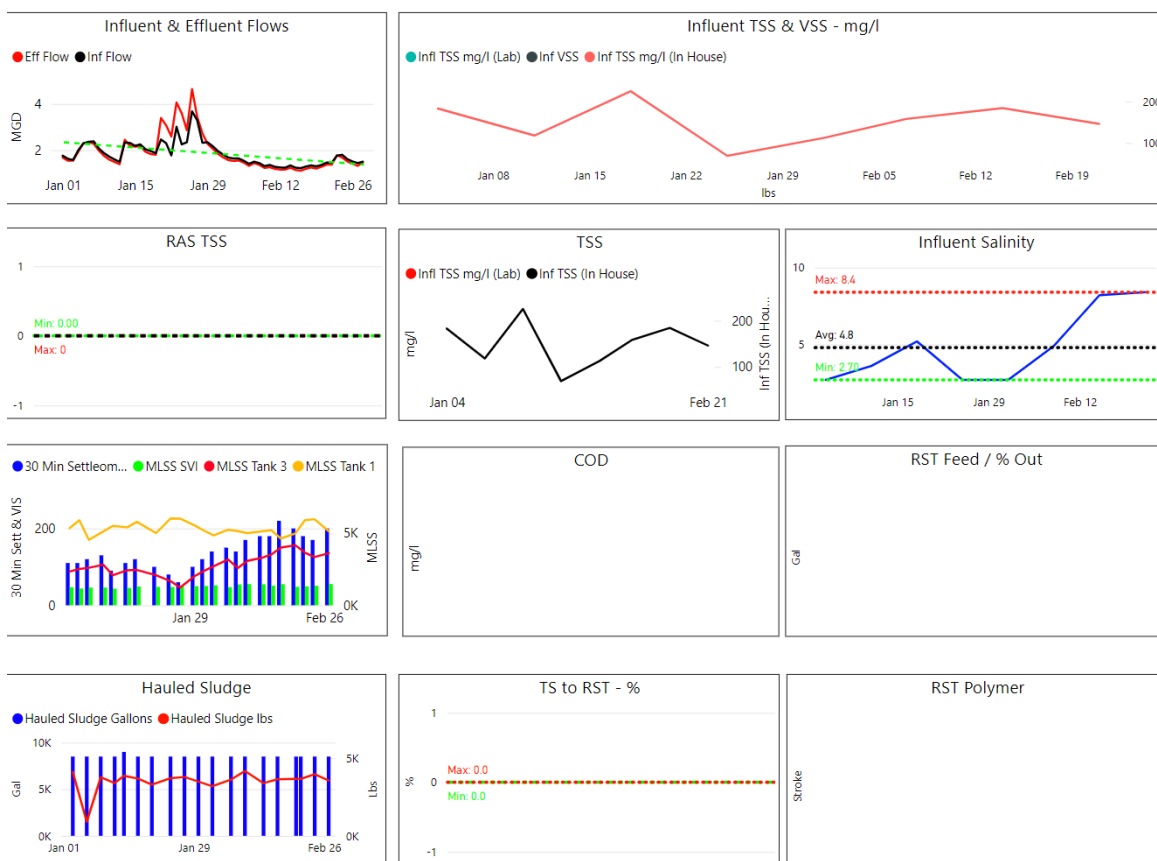


# 3 COMPLIANCE



## ➤ Plant Effluent

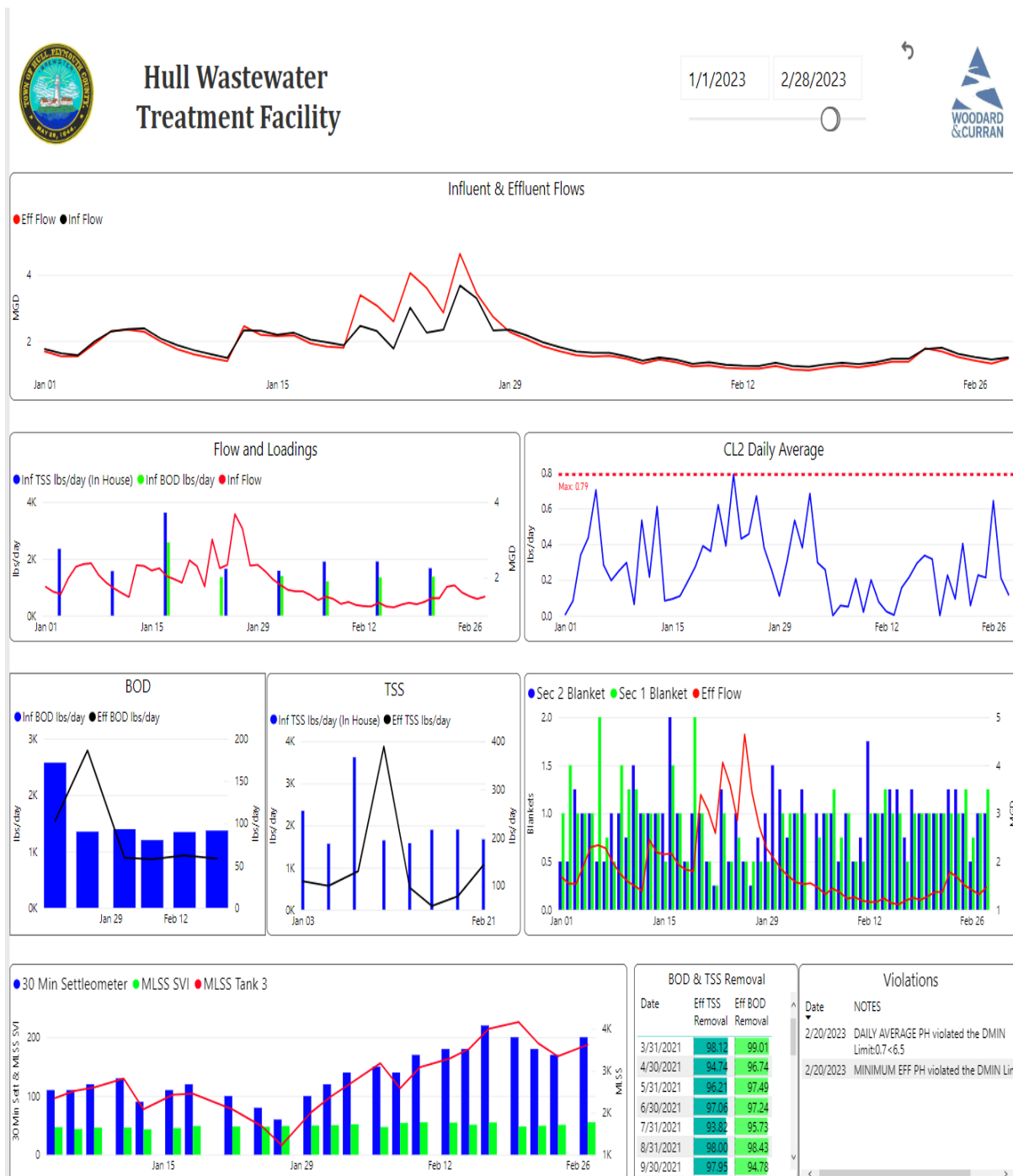
- The plant process conditions through February were steady.



Monthly Process Summary graphs from power BI: December- January-February 2023

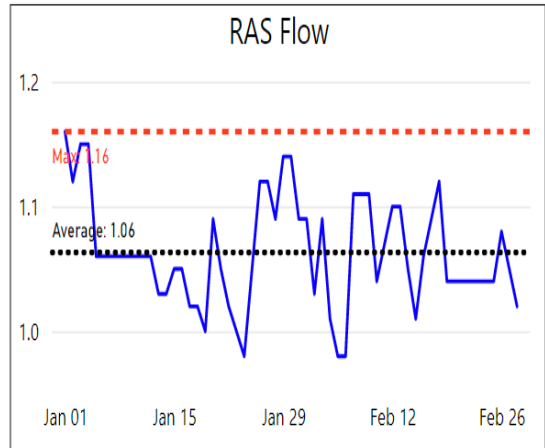
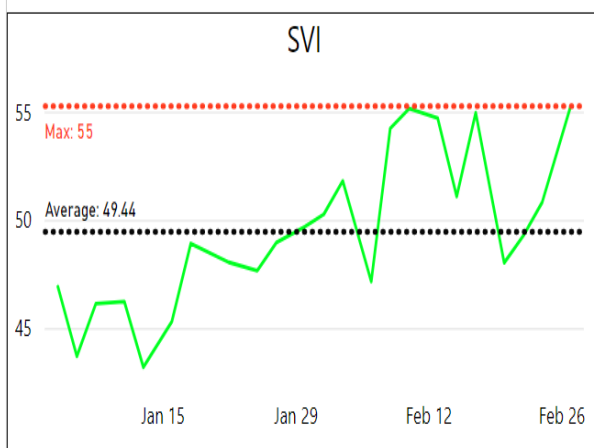
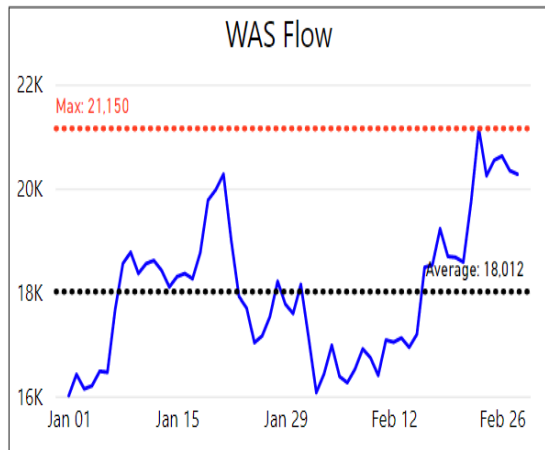
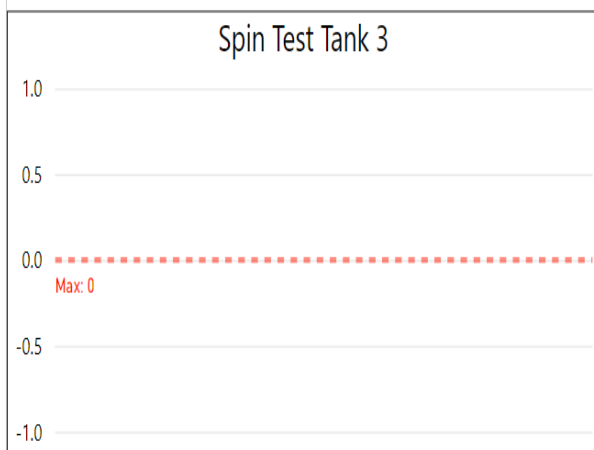
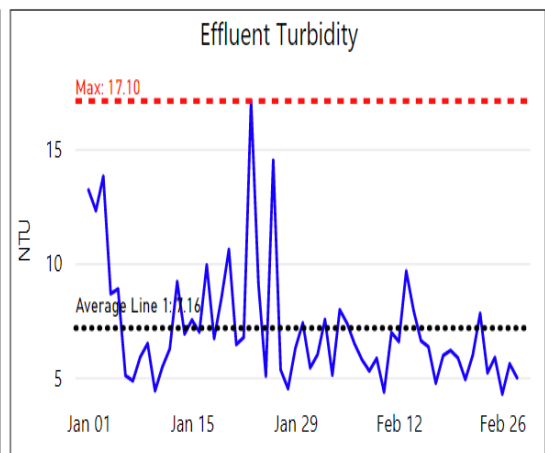
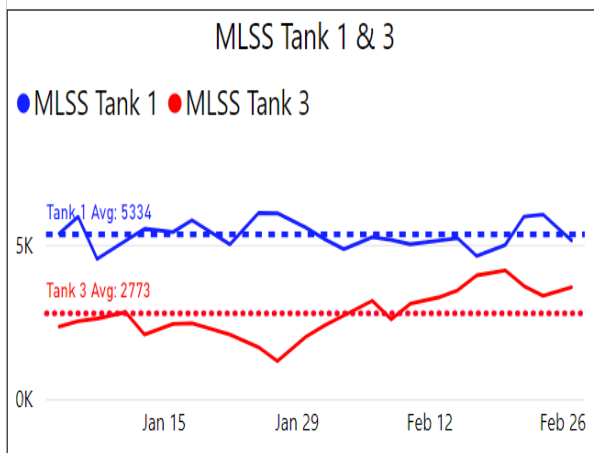


## SECONDARY PROCESSES – POWER BI GRAPHS



2-month period ending on 2/28/2023.





**Additional Power BI Graphs showing trends of various processes – 2/1/2022 - 2/28/2023.**

## 4 KEY PERFORMANCE INDICATORS



<u>Permit Compliance</u>												
Parameter Info			Permit Requirements					Results				
Parameter	Hach WIMS Variable #	Units	Daily Max	Daily Min	Weekly Avg Max	Monthly Avg Max	Freq	Period Avg	Period Min	Period Max	# of Samples	# of Violations
Eff TSS	104 / 999081	MG/L	50		45	30	1 X Week	7.9	4.8	12.5	4	0
Eff TSS	184	LBS			1152	768	1 X Week	93.5	57.6	142.8	4	0
% TSS Rem	208	%		85			1 X Month	94.7			1	0
Eff BOD	108	MG/L	50		45	30	1 X Week	5.0	4.2	6.0	4	0
Eff BOD	185	LBS			1152	768	1 X Week	59.3	57.6	62.0	4	0
% BOD Rem	207	%		85			1 X Month	95.5			1	0
Eff Chlorine	142	MG/L	1			0.7	3 X Day	0.21	0.00	0.68	84	0
Eff Fecal	111	#/100 ML	260			88	1 X Week	10.0	10.0	10.0	4	0
Eff pH	136	SU	8.5	6.5			1X Daily	6.7	0.7	7.2	28	1
Enterococci	255	#/100 ML	276			35	1 X Week	12	10	20	4	0
									Totals		136	1

There were 136 effluent samples taken in February. NOTE- there was NO pH violation, rather there was an error in uploading recorded data- the pH on the day in question was 7.0, and not a .70 as recorded.

## EFFLUENT COMPLIANCE POWER BI GRAPHS

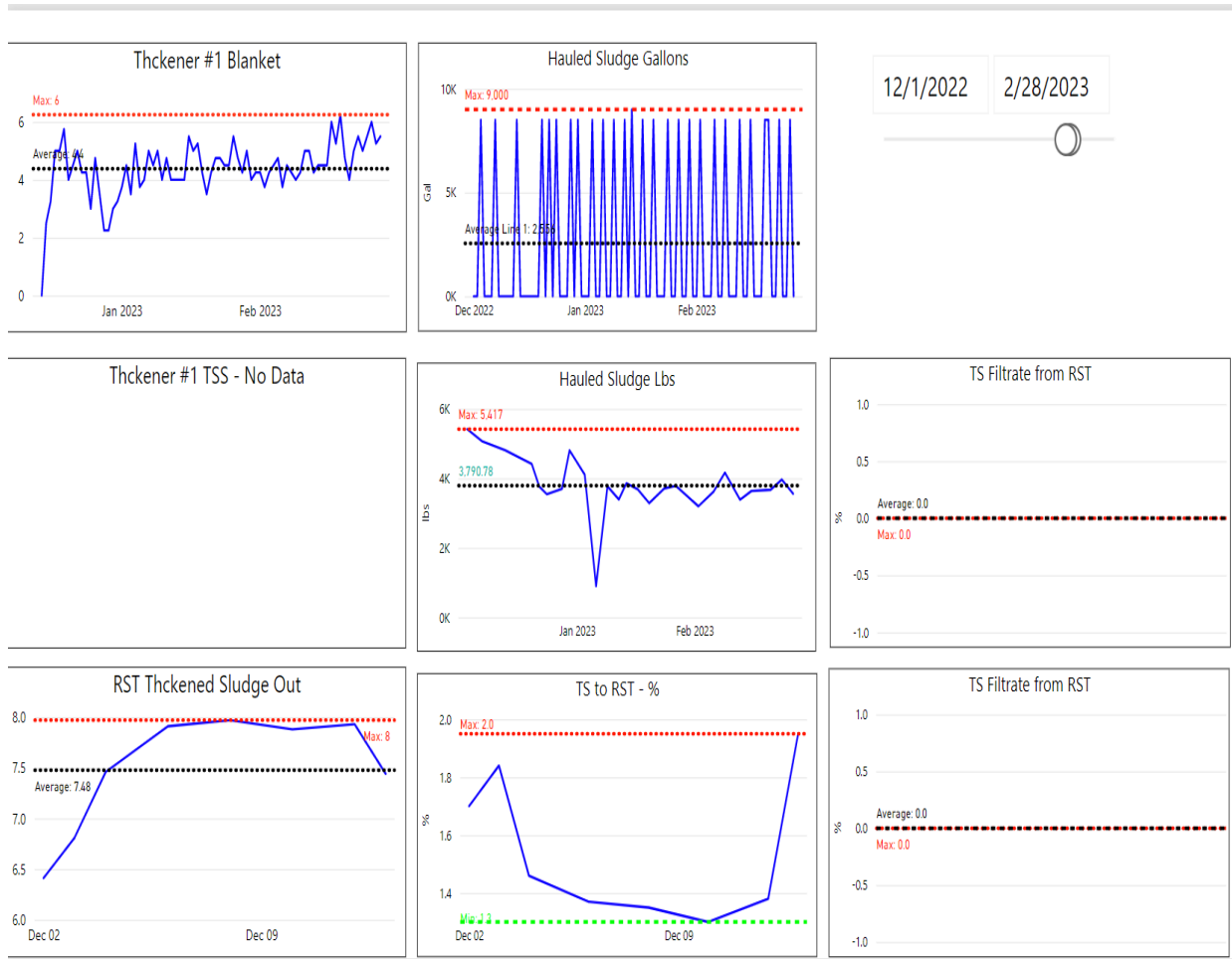


Quality of the effluent was satisfactory, turbidity NTU levels were normal.

### Sewage Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
February 2021	43.4	116,500
February 2022	52.2	86,000
February 2023	38.3	76,500

**Additional Power BI graphs for sludge solids for 3-month period ending 2/28/2023.**



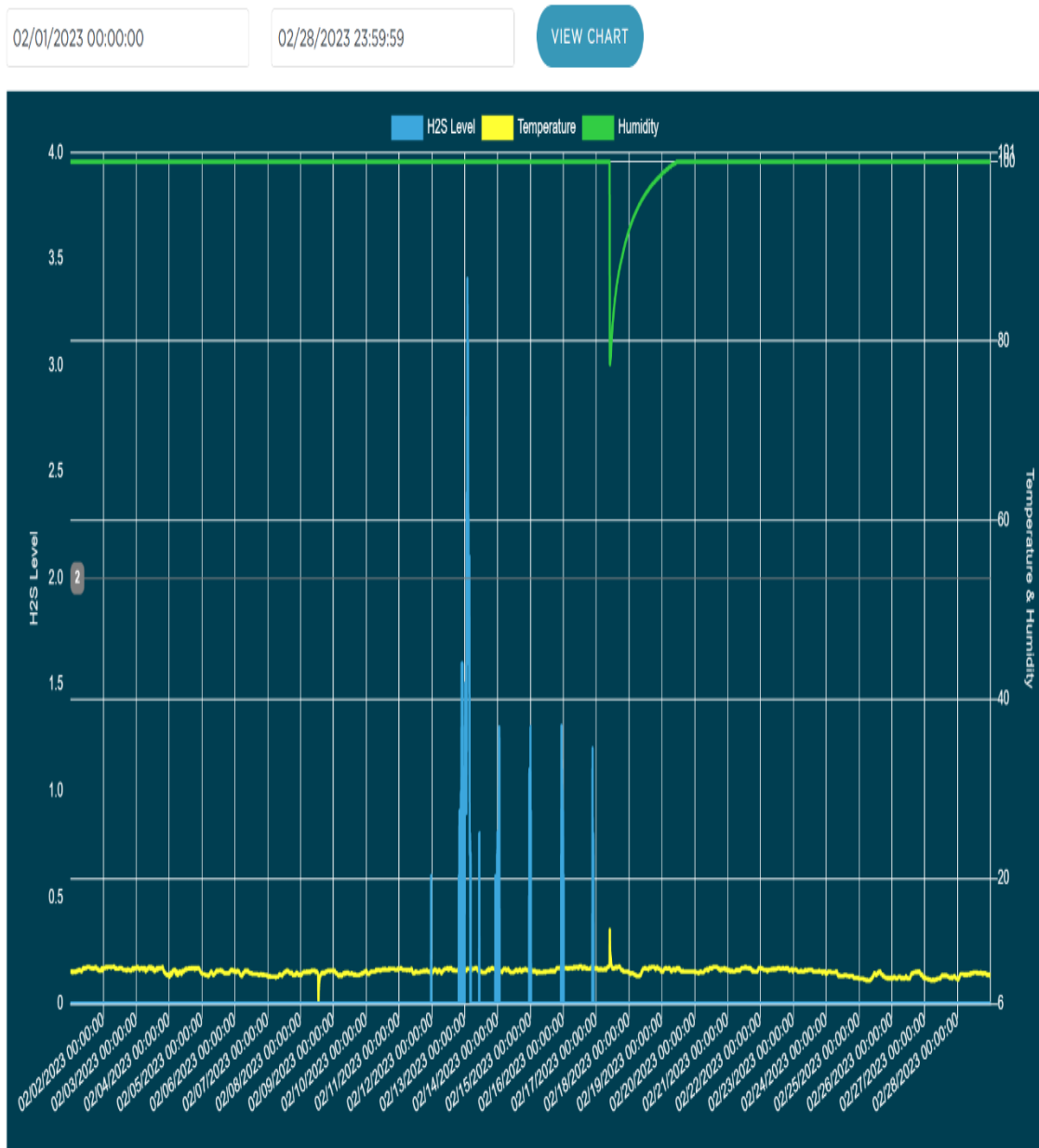
The Bioxide system was on, but the feed rates were minimal, as normal seasonal temperatures were cooler. Monthly graphs are attached below, the daily average Bioxide use for February was about 2-3 gallons per day.

- The “In-Pipe” bacteria containers in the collection system manholes were changed out on February 14<sup>th</sup> and 28<sup>th</sup>.

-

[pictured below: Scrubber trend and trending graphs for H2S levels recorded from the vapor link system cellular at XYZ Street/Nantasket Ave and Nantasket Ave/Water Street manholes.

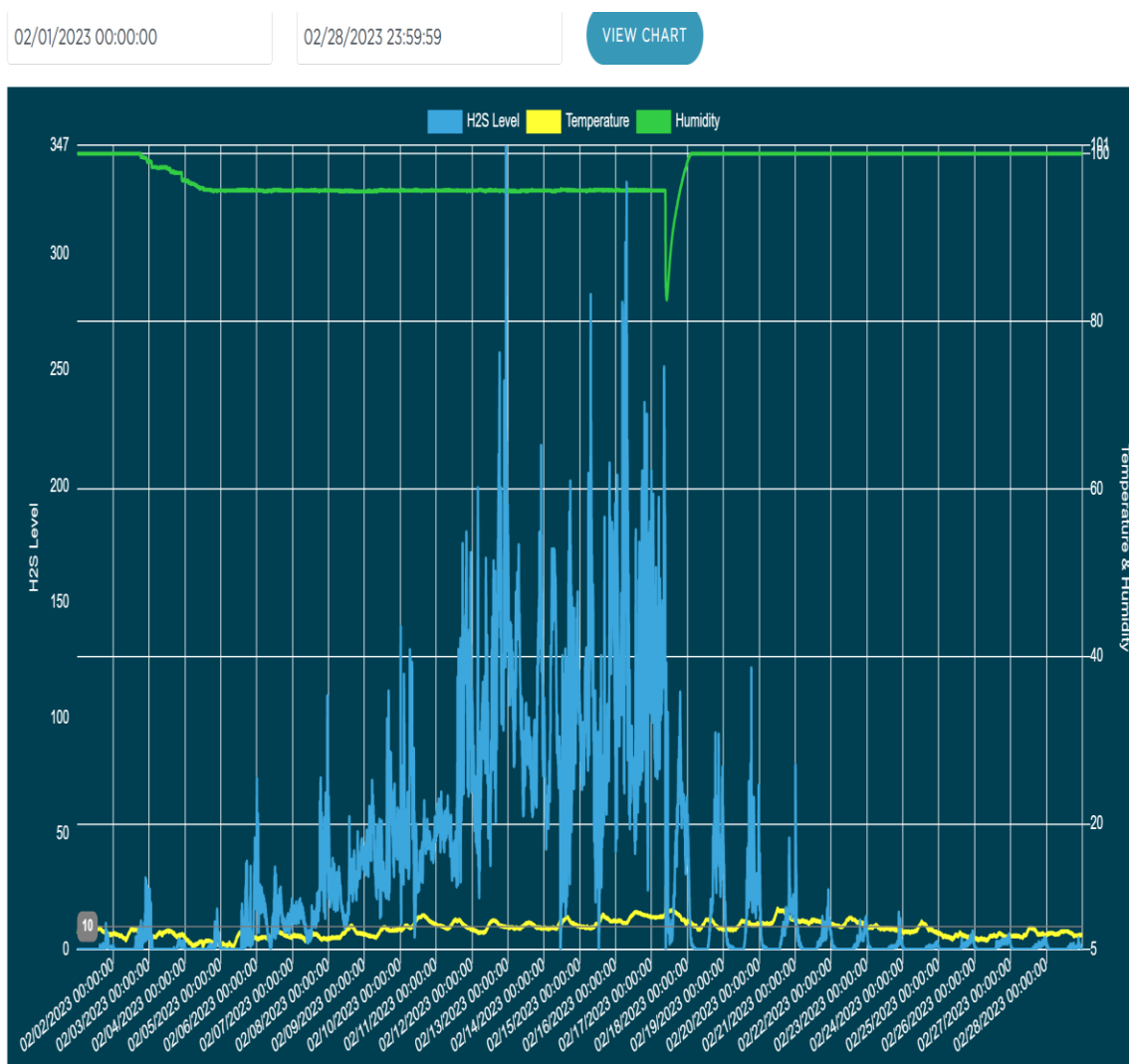
#### XYZ – Nantasket Ave [closest to plant]



The odor data logging unit at XYZ monitoring the overall H2S levels close to the plant. From the graph, the daily pattern of H2S levels see a rise in the mid-afternoon until late evening/early AM.

## Nantasket Ave/Water Street [ at end of PS 3 force main and PS 4 discharge]

Pump station #3 - H2S is monitored at the end of the force main at the MH at Nantasket Ave & Water Street. Bioxide is added to allow excess nitrate in the sewage system to treat the additional H2S added from other parts the system – such as PS #4, contributions from lines feeding the interceptor - PS #5, PS #6, PS #9, Spinnaker Island, etc., all the way to the wastewater plant. H2S levels through February were minimal with generally mild temps for the winter, and adjustments for substantially less Bioxide feed were made.



Nantasket Ave



# 6 MAINTENANCE SUMMARY

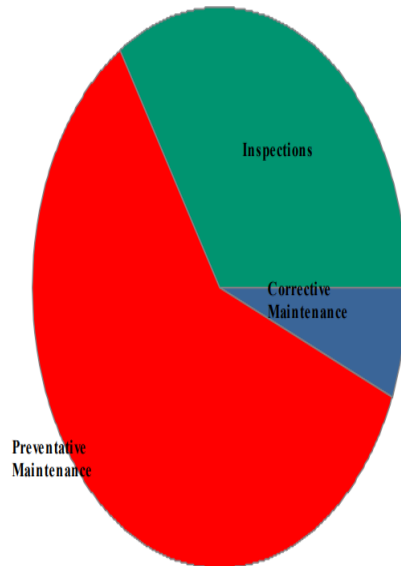


## Maintenance History Report Hull Wastewater

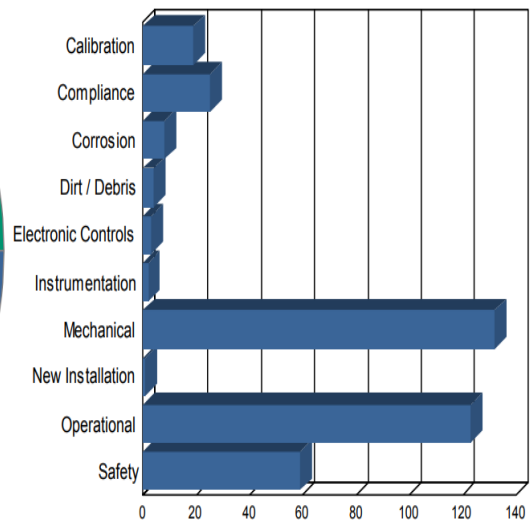
Start Date: 2/1/2023  
End Date: 2/28/2023

Corrective Maintenance	24
Inspections	127
Preventative Maintenance	225
<b>Total Work Orders</b>	<b>376</b>

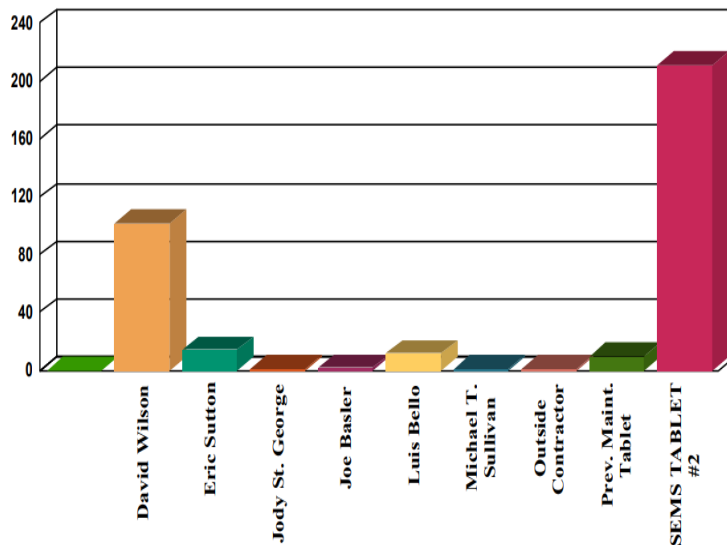
Work Order History By Type



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
David Wilson	102	27
Eric Sutton	14	0
Jody St. George	1	0
Joe Basler	2	0
Luis Bello	12	1
Michael T. Sullivan	1	0
Outside Contractor	1	2
Prev. Maint. Tablet	10	0
SEMS TABLET #2	211	0
Unassigned	22	0

The SEMS monthly work order summary for February is attached for review.

- On February 1st W&C staff assisted Phase 1 Tighe & Bond subcontractor Annese Electric with a Confined Space Entry. The CSE was required in order to get down into the grit pump room, beneath the headworks, to install a new MSA “GasGard” gas metering detection system.
- The water supply line for the toilet in the HSD trailer burst sometime in the morning hours of February 5<sup>th</sup> due to the frigid, below zero temps over that weekend. A local Serve-Pro crew was called in to clean up the trailer. It was learned in the course of this mishap that the water supply for the trailer actually comes from the Hull Lifesaving Museum next door. The water supply for the trailer will be changed to come from a metered line from inside the treatment plant.
- On February 9<sup>th</sup> a leak was discovered down in the lower level from newly installed piping, which was part of the Phase 1 HVAC upgrade. Upon investigation of the worsening leak, it was discovered that this pipe was a drain line for both the newly built lab and boiler rooms on the second floor. The two drain lines were wrongly plumbed into an old vent pipe, and not into the headworks, as per Phase 1 plans. After some two months of use the pipe was backed up enough and started leaking. W&C mechanics were able to re-route the drain piping properly to discharge into the headworks, as per the Phase 1 construction specs.
- On the 6<sup>th</sup> a technician from Mechanical Pump Services (Conn.) was onsite at PS # 6 to install and program a new Deragger II keypad unit on pump #2 de-ragging system.
- Two new mini cooling fans were installed for the #1 pump’s VFD control at PS #9. A station pump by-pass had been set up using a portable 6 inch Thompson pump- in the event that case other working pump had a blockage or a failure as well.
- On February 24<sup>th</sup> W&C mechanics replaced the galvanized operating stems on several plant yard hydrants to a longer lasting stainless steel grade. These yard hydrants water source is the plant water system (PWS), which uses the treated final effluent, and not potable metered town water, which we would be charged for.
- On February 28 the plant’s Godwin influent by-pass pump would not start for its monthly exercise running, due to a failed block heater. A local John Deer engine service provider was contacted, and they will also change the engine oil & coolant and perform any other factory recommended services.

#### **A. ASSET MANAGEMENT ACCOUNTS**

**Please see the attached summary totals and planned expenditures for the Asset Management accounts for contract year (8). Most recent through 2/16/23**

## 5 SAFETY



It is Woodard & Curran's policy to maintain a safe and healthy working environment for all employees and to comply with all applicable occupational health & safety regulations.

- No lost time incidents were reported for February.
- Monthly PM's - emergency eyewash and shower inspections, fire extinguishers, and emergency lighting inspections completed.
- Monthly calibrations were performed on all MX4 & Max XT11 gas meters.
- On-going Covid-19 Pandemic awareness with daily review and as needed and keeping in contact with all onsite contractors regarding Hull and W&C covid-19 protocols.
- W&C's Pure Safety topic for February was machine guarding.
- The monthly W&C SPARKS safety meeting was held on February 22<sup>nd</sup>, including a review of W&C's monthly "Lessons Learned!"
- W&C's monthly safety inspection checklist for the plant was completed.
- All the First-Aid kits about the plant were restocked with supplies and 3 additional kits were purchased so that there is now an accessible kit First-Aid kit on every level of the operations building.

## **6 STAFF DEVELOPMENT**

**Training is an important part of any operation to ensure employee health and safety is assured, quality standards are supported, staff skills are improved, career opportunities become available, and higher productivity is achieved.**

**Listed is a general outline of training that the staff received over the course of the month:**

- All staff completed W&C's monthly Pure Safety training and the staff's monthly safety meeting was held on February 22. Topics discussed were scaffolding, rigging & hoists, and reviewing the "near-miss" incidents occurring at all W&C projects in the January "Lessons Learned!"
- Regular, usually daily, operational updates and process control discussions, pump station operations, Dig Safes, and the HVAC construction project work scope ongoing at the plant. Daily safety briefings and Covid-19 protocol updates if necessary.

### **Staffing related items:**

- Plant continued to have weekend coverage supplemented with part-time staffers Roger Boltrushek and Ryan Holman. in addition to Mike S, Luis B, Eric S, Dave W, and Joel T.
- O&M Specialists Paul Horigan and Jody St George continue to assist as needed with plant O&M projects.

## 7 COLLECTION SYSTEM

### A. WET WELL CLEANING

The actual schedule for wet well cleaning: May 2022 to June 2023:

(X-Cleaned) - (Orange – Inspected) - (Green – See notes) - (blank – no work done)

Frequency of cleaning	Pump Station							
	A	1	3	4	5	6	9	D
May, 2022								
June, 2022								
July, 2022								
Aug., 2022								
Sept. 2022								
Oct.,2022								
Nov, 2022								
Dec., 2023								
Jan., 2023								
Feb., 2023								
March 2023								
April 2023								

All pump stations except for Pump Station 3 and Station D have an aerator/mixer in the wet wells.

### B. COLLECTION SYSTEM MAINTENANCE

Collection system work is being documented and tracked in Utility Cloud [UC] and a summarized report for September has been included as an attachment with the Monthly Operating Report.

Woodard & Curran assisted/conducted camera work and sewer system support in the Hull collection system at the following areas during the month of September. Ongoing backup and blockage call outs requiring an increase in labor and time to support. Below summarizes W&C's efforts at the various call out locations.

- There were seven calls for E-One Grinder pump service– see UC summary.
  - There were two sewer backup calls from residents. Flushable cleaning wipes had built up on the shelf under the manhole at 173 Spring Street, causing the backup. W&C staff were able to shovel out a 5-gallon pail full of the wipes and debris- decent flow was restored. W&C staff will periodically check upon this problematic area and clean out the manhole shelves as needed. The homeowner at 174 Samoset reported a backup in their home. W&C staff checked the up 7 downstream manholes and determined the blockage was actually in the house, a plumber was called upon to resolve their issue.
- Pump station emergency generator testing consists of weekly no load runs and monthly loaded runs.
  - All Pump station wet wells were inspected in February- monthly station inspections are completed and combined with the monthly station PM's.
  - Upload new or updated tie-cards to the UC as required.
  - Dig-Safe mark outs are completed throughout the Town of Hull as needed to assist and facilitate scheduled and emergency gas repairs, broken water mains, roadway paving projects, and other residential and town projects. All are listed in the UC summary.





## 8 PROJECT MANAGEMENT & ADMINISTRATION



### A. ON-GOING PROJECTS AND SUPPORT ITEMS

#### February updates:

- Phase 1 construction work in the operations building equipment is winding down and will be nearing completion in late March. Phase 2 Engineering contractor Barletta of Canton has been onsite periodically and are gearing up for an early April start.
- Plant Manager Mike S. and Assistant Plant Manager Joe B. are meeting weekly with John S. and Brian K. to discuss the Sewer Department operations, any treatment plant issues, the collection system, and any upcoming projects.



# Maintenance History Report

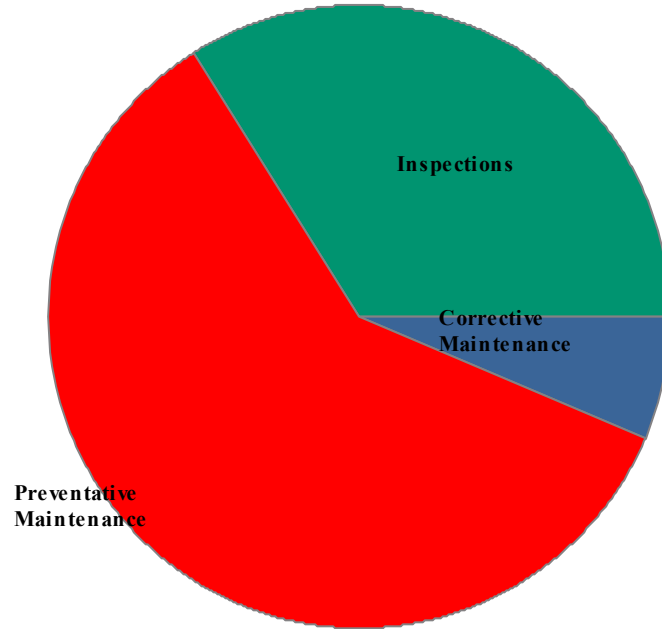
Start Date: 2/1/2023

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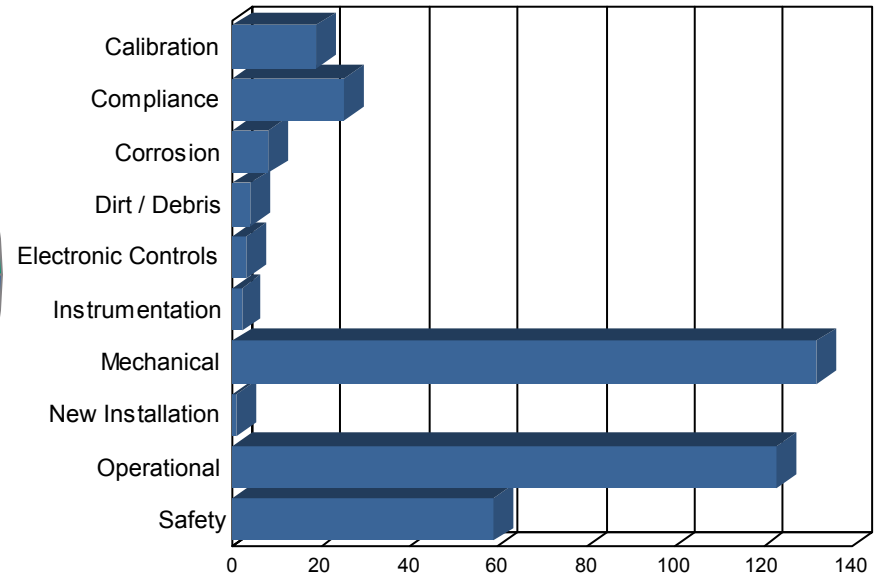
## Hull Wastewater

### Work Order History By Type

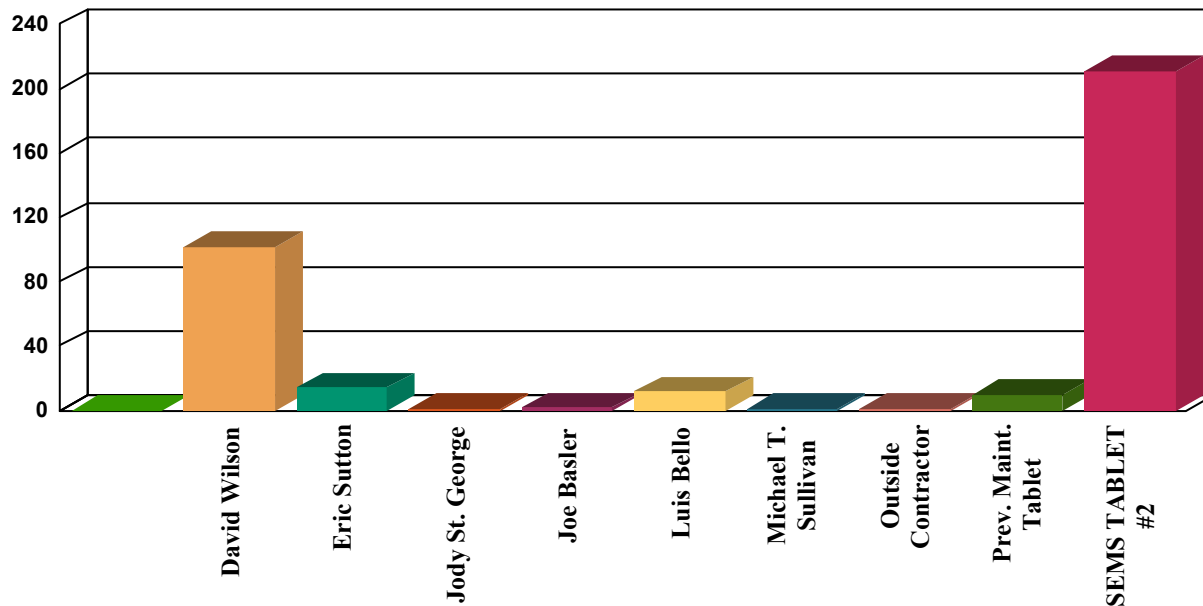
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### Work Order History by Reason



### Work Order History By Employee



Employee	WO Count	Labor Hours
David Wilson	102	27
Eric Sutton	14	0
Jody St. George	1	0
Joe Basler	2	0
Luis Bello	12	1
Michael T. Sullivan	1	0
Outside Contractor	1	2
Prev. Maint. Tablet	10	0
SEMS TABLET #2	211	0
Unassigned	22	0

Totals	376 30

## Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/2/23	17404	PS 3 Generator	Diagnose no start	Diagnosed no start. Battery dead. Charged battery and tried to start generator. Battery voltage dropped to ~8vdc. Sulfated battery. Installed new battery. Started fine. Verified function of trickle charger .3A. Checked charging system. Battery not charging. Inspected alternator. Found belt shredded. Installed new belt. Ran generator and verified charging system. 15vdc back to battery. Brought to operating temp and shut down. Put back into auto.	David Wilson	2/2/23	Completed
2/3/23	17405	PS Kholer Trailer Mounted Generator	Diagnose user interface failure	Inspected user interface and found the buttons not functional. Isolated display and removed from panel. Sealed unit is not serviceable. Got part number and supplied to tech from South Shore Generator. Parts ordered. Part came in. Tech onsite to install interface. Programming downloaded from unit. Isolated and removed part. Installed new part and programmed ECM. Verified program. Started generator and brought up to operating temp. Transferred station load to generator. No issues.	Outside Contractor	2/3/23	Completed
2/3/23	17406	Operations Building	Diagnose washing machine failure	Tested timer switch. Good. Tested lid switch. Fails to complete circuit. Isolated washing machine. Removed rear cover inspected wiring. Found a rats nest. Removed debris. Removed lid switch. Cleaned contacts and tested resistance. Good. Installed switch and verified operation. Installed cover. Cleaned under lid and ran a full cycle. Good overall.	David Wilson	2/3/23	Completed
2/3/23	17407	Plant water yard hydrants	Fabricated operating rods from 304 stainless steel.	JS purchsed material and cut to length. DW purchased 3/4 14 teeth for Rigid dye and threaded pipe.	David Wilson	2/3/23	Completed
2/9/23	17409	Grit Screw Classifier	Diagnose leak	Isolated grit classifier. Inspected for leaks. Found drain hose quick disconnect failed. Replaced old hose and fittings.	David Wilson	2/9/23	Completed
2/13/23	17410	PS 9 Generator	Block heater discharge hose failure.	Isolated block heater. Loosened hose clamps and removed hose. Inner hose liner separated and was stuck to fitting. Cut out risidual hose and installed new hose. Topped off coolant level and verified operation of block heater.	David Wilson	2/13/23	Completed
2/16/23	17411	Gravity Thickener 1	Gasket for the gearbox drain cap needs to be replaced	I made a new gasket and replaced the old one with that.	Luis Bello	2/16/23	Completed

## Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/20/23	17412	22 - WW - sewers/pipes/force mains	Street backed up	Checked for flow in the street at the downstream manhole. Invert surcharged with paper towels and wipes. Fished onto shelf to get flowing. Removed enough debris to fill a 5 gallon bucket. Installed wrap o-ring between frame and cover.	David Wilson	2/20/23	Completed
2/23/23	17414	PS 1 Building	Install fall protection on mid level.	Drilled and tapped holes to install eyes on the end of the hand rails. Cut chains to fit. Attached chains with carabiners.	David Wilson	2/23/23	Completed
2/23/23	17413	PS 9 Building	Install fall protection on mid level.	Drilled and tapped holes to install eyes on the end of the hand rails. Cut chains to fit. Attached chains with carabiners.	David Wilson	2/23/23	Completed
2/24/23	17415	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near SC#1. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17416	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near SC#1. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17417	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near SC#2. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17418	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near SC#2. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17419	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near AT#3. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17420	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near AT#3. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17421	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near AT#3. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17422	Plant water yard hydrants	Replace yard hydrant operating rod.	Isolated yard hydrant near AT#2. Separated inner valve assembly. Installed stainless operating rod and reassembled hydrant. Returned to service.	David Wilson	2/24/23	Completed
2/24/23	17423	32 - WW Influent Process	Leaky breather valve from Influent pump 5	I cleaned the breather assembly	Luis Bello	2/24/23	Completed
2/27/23	17249	Emergency Lighting & exit signs	Stair waer lower level emergency light fail the test.		Luis Bello	1/13/23	Completed
2/27/23	13502	23 - WW Pump Stations	Bypassdrain at PS1, mid level, leaking from gasket		Jody St. George	2/18/21	Completed
2/27/23	13490	Building Flood Conrtol	Lower door hinge bearing is bad on door 7		Prev. Maint. Tablet	2/2/21	Completed
2/27/23	12831	PS A Piping and Valves	Discharge pressure gauges failed on both pumps.		David Wilson	10/7/20	Completed
2/27/23	12685	Waste Activated Sludge Pump 3	Pump seal failure		David Wilson	9/16/20	Completed

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/14/23	17075	Blower Room Exhaust Fan 1	Monthly operational inspection	Blower exhaust fan offline. Inspected components and brought online. Minimal vibration. No issues found.	David Wilson	2/1/23	Completed
2/14/23	17076	Blower Room Exhaust Fan 2	Monthly operational inspection	Blower exhaust fan offline. Inspected components and brought online. Minimal vibration. No issues found.	David Wilson	2/1/23	Completed
2/16/23	16936	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		Luis Bello	2/8/23	Completed
2/27/23	17034	Main Office	Monthly Safety Inspection		SEMS TABLET #2	2/1/23	Completed
2/27/23	17074	Blower Room Exhaust Fan 1	Monthly inspection		SEMS TABLET #2	2/1/23	Completed
2/27/23	16987	PS 1	PS #1 Inspection - Monthly		SEMS TABLET #2	2/2/23	Completed
2/27/23	16988	PS 3	PS #3 Inspection - Monthly		SEMS TABLET #2	2/2/23	Completed
2/27/23	16991	PS 4	PS #4 Inspection - Monthly		SEMS TABLET #2	2/2/23	Completed
2/27/23	16992	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	2/2/23	Completed
2/27/23	16995	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	2/2/23	Completed
2/27/23	16996	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	2/2/23	Completed
2/27/23	16999	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	2/2/23	Completed
2/27/23	16932	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	2/5/23	Completed
2/27/23	16930	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	2/6/23	Completed
2/27/23	17031	Fire Extinguishers	WWTF Fire Extinguisher Inspections - Monthly		SEMS TABLET #2	2/6/23	Completed
2/27/23	17036	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	2/6/23	Completed
2/27/23	17046	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	2/6/23	Completed
2/27/23	17054	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	2/6/23	Completed
2/27/23	17055	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	2/6/23	Completed
2/27/23	16933	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	2/12/23	Completed
2/27/23	17048	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	2/14/23	Completed
2/27/23	17047	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	2/14/23	Completed
2/27/23	16934	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	2/19/23	Completed
2/27/23	16935	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	2/26/23	Completed
2/27/23	17062	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks		SEMS TABLET #2	2/1/23	Completed
2/27/23	17062	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks		SEMS TABLET #2	2/1/23	Completed
2/27/23	16899	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks		SEMS TABLET #2	1/1/23	Completed

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	16784	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	1/1/23	Completed
2/27/23	16913	Blower Room Exhaust Fan 1	Monthly inspection		SEMS TABLET #2	1/1/23	Completed
2/27/23	16870	Main Office	Monthly Safety Inspection		SEMS TABLET #2	1/1/23	Completed
2/27/23	16782	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	1/2/23	Completed
2/27/23	16872	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	1/2/23	Completed
2/27/23	16882	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	1/2/23	Completed
2/27/23	16891	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	1/2/23	Completed
2/27/23	16829	PS 1	PS #1 Inspection - Monthly		SEMS TABLET #2	1/5/23	Completed
2/27/23	16830	PS 3	PS #3 Inspection - Monthly		SEMS TABLET #2	1/5/23	Completed
2/27/23	16831	PS 4	PS #4 Inspection - Monthly		SEMS TABLET #2	1/5/23	Completed
2/27/23	16832	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	1/5/23	Completed
2/27/23	16833	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	1/5/23	Completed
2/27/23	16834	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	1/5/23	Completed
2/27/23	16835	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	1/5/23	Completed
2/27/23	16785	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	1/8/23	Completed
2/27/23	16884	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	1/10/23	Completed
2/27/23	16883	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	1/10/23	Completed
2/27/23	16786	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	1/15/23	Completed
2/27/23	16787	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	1/22/23	Completed
2/27/23	16788	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	1/29/23	Completed
2/27/23	16678	PS 4	PS #4 Inspection - Monthly		SEMS TABLET #2	12/1/22	Completed
2/27/23	16679	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	12/1/22	Completed
2/27/23	16680	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	12/1/22	Completed
2/27/23	16681	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	12/1/22	Completed
2/27/23	16682	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	12/1/22	Completed
2/27/23	16631	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	12/5/22	Completed
2/27/23	16719	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	12/5/22	Completed
2/27/23	16729	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	12/5/22	Completed

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	16738	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	12/5/22	Completed
2/27/23	16732	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	12/13/22	Completed
2/27/23	16731	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	12/13/22	Completed
2/27/23	16511	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	11/3/22	Completed
2/27/23	16514	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	11/3/22	Completed
2/27/23	16515	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	11/3/22	Completed
2/27/23	16518	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	11/3/22	Completed
2/27/23	16457	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	11/7/22	Completed
2/27/23	16561	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	11/7/22	Completed
2/27/23	16574	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	11/7/22	Completed
2/27/23	16578	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	11/8/22	Completed
2/27/23	16577	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	11/8/22	Completed
2/27/23	16585	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	11/7/22	Completed
2/27/23	16429	Effluent Pump Room Wetwell	Annual cleaning and inspection		SEMS TABLET #2	10/1/22	Completed
2/27/23	16280	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	10/3/22	Completed
2/27/23	16373	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	10/3/22	Completed
2/27/23	16384	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	10/3/22	Completed
2/27/23	16385	Truck 2 - 2009 Chevy 2500 HD	ANNUAL STATE VEHICLE INSPECTION		SEMS TABLET #2	10/3/22	Completed
2/27/23	16386	Seconday Electrical Control Manhole	Inspect Secondary Electrical Manhole		SEMS TABLET #2	10/4/22	Completed
2/27/23	16399	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	10/3/22	Completed
2/27/23	16333	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	10/6/22	Completed
2/27/23	16334	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	10/6/22	Completed
2/27/23	16335	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	10/6/22	Completed
2/27/23	16389	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	10/11/22	Completed
2/27/23	16388	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	10/11/22	Completed
2/27/23	16174	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	9/1/22	Completed
2/27/23	16175	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	9/1/22	Completed
2/27/23	16176	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	9/1/22	Completed



## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	16177	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	9/1/22	Completed
2/27/23	16121	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	9/5/22	Completed
2/27/23	16214	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	9/5/22	Completed
2/27/23	16224	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	9/5/22	Completed
2/27/23	16232	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	9/5/22	Completed
2/27/23	16226	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	9/13/22	Completed
2/27/23	16225	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	9/13/22	Completed
2/27/23	16093	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	8/1/22	Completed
2/27/23	16043	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	8/1/22	Completed
2/27/23	16054	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	8/1/22	Completed
2/27/23	16064	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	8/1/22	Completed
2/27/23	15994	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	8/4/22	Completed
2/27/23	15997	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	8/4/22	Completed
2/27/23	15998	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	8/4/22	Completed
2/27/23	16001	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	8/4/22	Completed
2/27/23	16056	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	8/9/22	Completed
2/27/23	16056	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	8/9/22	Completed
2/27/23	16055	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	8/9/22	Completed
2/27/23	16092	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	7/4/22	Completed
2/27/23	15873	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	7/4/22	Completed
2/27/23	15883	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	7/4/22	Completed
2/27/23	15891	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	7/4/22	Completed
2/27/23	15834	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	7/7/22	Completed
2/27/23	15835	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	7/7/22	Completed
2/27/23	15836	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	7/7/22	Completed
2/27/23	15837	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	7/7/22	Completed
2/27/23	15885	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	7/12/22	Completed
2/27/23	15885	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	7/12/22	Completed

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	15884	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	7/12/22	Completed
2/27/23	15672	PS 5	PS #5 Inspection - Monthly		SEMS TABLET #2	6/2/22	Completed
2/27/23	15673	PS 6	PS #6 Inspection - Monthly		SEMS TABLET #2	6/2/22	Completed
2/27/23	15674	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	6/2/22	Completed
2/27/23	16091	30 - WW Treatment Plant - General	Monthly H&S Inspection		Prev. Maint. Tablet	6/6/22	Completed
2/27/23	15675	PS A	PS #A Inspection - Monthly		SEMS TABLET #2	6/2/22	Completed
2/27/23	15717	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	6/6/22	Completed
2/27/23	15727	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	6/6/22	Completed
2/27/23	15736	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	6/6/22	Completed
2/27/23	15730	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	6/14/22	Completed
2/27/23	15729	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	6/14/22	Completed
2/27/23	14426	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	10/4/21	Completed
2/27/23	14284	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	9/6/21	Completed
2/27/23	13931	Waste Oil Storage	Waste Oil Area Inspection		SEMS TABLET #2	7/13/21	Completed
2/27/23	13787	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	6/7/21	Completed
2/27/23	13629	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	5/3/21	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/1/23	16885	GasAlert Max XTII #2	monthly calibration	Calibrated 4 gas meter. No issues.	David Wilson	1/26/23	Completed
2/1/23	16878	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly	Calibrated 4 gas meter. No issues.	David Wilson	1/26/23	Completed
2/1/23	16881	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly	Calibrated 4 gas meter. No issues.	David Wilson	1/26/23	Completed
2/1/23	16880	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly	Calibration failed. LEL sensor input on sensor board. Will be sent out.	David Wilson	1/26/23	Completed
2/1/23	16879	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly	Calibrated 4 gas meter. No issues.	David Wilson	1/26/23	Completed
2/1/23	16877	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly	Calibrated 4 gas meter. No issues.	David Wilson	1/26/23	Completed
2/2/23	16896	High level floats	Weekly High Float Alarm test		Luis Bello	1/29/23	Completed
2/2/23	16910	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	1/29/23	Completed
2/3/23	16980	Primary Sludge Pump 2	Monthly Check Pump Couplings		Luis Bello	2/1/23	Completed
2/3/23	16979	Primary Sludge Pump 1	Monthly Check Pump Couplings		Luis Bello	2/1/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/6/23	16875	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		David Wilson	1/23/23	Completed
2/6/23	17032	GasAlert Max XTII #1	4 gas meter calibration - monthly		David Wilson	2/1/23	Completed
2/6/23	17000	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		Eric Sutton	2/1/23	Completed
2/6/23	16876	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		David Wilson	1/30/23	Completed
2/6/23	17001	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Eric Sutton	2/1/23	Completed
2/6/23	17005	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Eric Sutton	2/1/23	Completed
2/6/23	17009	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		Eric Sutton	2/1/23	Completed
2/6/23	17010	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		Eric Sutton	2/1/23	Completed
2/6/23	17011	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	2/1/23	Completed
2/6/23	17019	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	2/1/23	Completed
2/6/23	17029	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		Eric Sutton	2/1/23	Completed
2/6/23	17015	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	2/1/23	Completed
2/6/23	17020	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		Eric Sutton	2/1/23	Completed
2/6/23	17025	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Eric Sutton	2/1/23	Completed
2/6/23	17021	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	2/1/23	Completed
2/6/23	17068	Generators "All Pump Station"	Generator - Monthly Load Test		Eric Sutton	2/5/23	Completed
2/6/23	17037	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		David Wilson	2/5/23	Completed
2/6/23	16645	Aerated Grit Chamber	Grit Chamber Cleaning - Annual		Michael T. Sullivan	12/22/22	Completed
2/6/23	16946	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	2/1/23	Completed
2/6/23	16973	RAS Pump 3	Monthly Check Pump Couplings	Inspected hubs and coupling.	David Wilson	2/1/23	Completed
2/6/23	16971	RAS Pump 2	RAS Pump #2 PM - Quarterly	LOTO of equipment. Exercised valves. Inspected hubs and coupling. Lubed upper and lower bearings of the motor and the pump. Inspected mechanical seal. Returned to service.	David Wilson	2/1/23	Completed
2/6/23	16970	RAS Pump 2	Monthly Check Pump Couplings	Inspected hubs and coupling.	David Wilson	2/1/23	Completed
2/6/23	16972	RAS Pump 3	RAS Pump #3 PM - Quarterly	LOTO of equipment. Exercised valves. Inspected hubs and coupling. Lubed upper and lower bearings of the motor and the pump. Inspected mechanical seal. Returned to service.	David Wilson	2/1/23	Completed
2/6/23	16969	RAS Pump 1	Monthly Check Pump Couplings	Inspected hub and coupling.	David Wilson	2/1/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/6/23	16968	RAS Pump 1	RAS Pump #1 PM - Quarterly	LOTO of equipment. Exercised valves. Inspected hubs and coupling. Lubed upper and lower bearings of the motor and the pump. Inspected mechanical seal. Returned to service.	David Wilson	2/1/23	Completed
2/6/23	16945	Grit Screw Drive	Grit Screw Drive Oil Change - Annual		David Wilson	2/1/23	Completed
2/7/23	16790	Generator #2 - Backup Detroit 500	Generator - Monthly Load Test		David Wilson	1/1/23	Completed
2/7/23	16940	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		David Wilson	2/5/23	Completed
2/7/23	17408	PS 9 Pump 1	Bypass pump set up as backup to pump 1.	DW/LB Yaskawa cooling fans on order. Set up 6" Thompson pump at PS9 as a backup to pump 1.	David Wilson	2/7/23	Completed
2/9/23	17069	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	2/5/23	Completed
2/9/23	16944	Grit Screw Classifier	Grit classifier Oil Change - Annual	Locked out classifier (#29). Removed belt guard. Inspected belts and pulleys. Removed drain plug and drained oil. Moved vent plug to 12 o'clock position instead of oil level hole. Inspected classifier shoe hardware.	David Wilson	2/1/23	Completed
2/9/23	16931	Portable Generator - Honda	Portable Generator Inspection - Monthly		David Wilson	2/1/23	Completed
2/14/23	16986	PS 1	PUMP STATIONS - QUATERLY PM'S		David Wilson	2/7/23	Completed
2/14/23	16989	PS 3	PUMP STATIONS - QUATERLY PM'S		David Wilson	2/7/23	Completed
2/14/23	16998	PS A	PUMP STATIONS - QUATERLY PM'S		David Wilson	2/7/23	Completed
2/14/23	17002	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	2/8/23	Completed
2/14/23	17006	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	2/8/23	Completed
2/14/23	17012	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	2/8/23	Completed
2/14/23	17026	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Eric Sutton	2/8/23	Completed
2/14/23	17016	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	2/8/23	Completed
2/14/23	17022	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	2/8/23	Completed
2/14/23	17056	High level floats	Weekly High Float Alarm test		Luis Bello	2/5/23	Completed
2/14/23	16950	Mechanical Screen & Washpress System	Monthly Maintenance	Cleaned and inspected wash press and flexrake. Lubed bearings.	David Wilson	2/6/23	Completed
2/14/23	16990	PS 4	PUMP STATIONS - QUATERLY PM'S		David Wilson	2/7/23	Completed
2/14/23	16993	PS 5	PUMP STATIONS - QUATERLY PM'S		David Wilson	2/7/23	Completed
2/14/23	16994	PS 6	PUMP STATIONS - QUATERLY PM'S		David Wilson	2/7/23	Completed
2/14/23	16997	PS 9	PUMP STATIONS - QUATERLY PM'S		David Wilson	2/7/23	Completed
2/15/23	17070	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	2/12/23	Completed
2/15/23	17057	High level floats	Weekly High Float Alarm test		Luis Bello	2/12/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/15/23	16947	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	2/8/23	Completed
2/15/23	16962	Aeration Tank 1 Oxygen Probe	AT #1 DO Probe Clean and Calibrate - Monthly	Cleaned and inspected LDO probe. Tested calibration. -.70 ppm offset.	David Wilson	2/7/23	Completed
2/15/23	16963	Aeration Tank 3 Oxygen Probe	AT #3 DO Probe Clean and Calibrate - Monthly	Cleaned and inspected LDO probe. Tested calibration. 1.80ppm offset.	David Wilson	2/7/23	Completed
2/16/23	16889	Chlorine probe AT1	Change electrolyte		Joe Basler	1/1/23	Completed
2/16/23	16887	Chlorine probe AT1	Weekly calibration		Joe Basler	1/16/23	Completed
2/16/23	16888	Chlorine probe AT1	Weekly calibration		David Wilson	1/30/23	Completed
2/16/23	17065	Generators "All Pump Station"	Generator Weekly - Test Run no load		David Wilson	2/13/23	Completed
2/16/23	16941	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	2/13/23	Completed
2/16/23	17038	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		David Wilson	2/13/23	Completed
2/16/23	16937	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	2/13/23	Completed
2/16/23	16948	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	2/15/23	Completed
2/16/23	17003	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	2/15/23	Completed
2/16/23	17007	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	2/15/23	Completed
2/16/23	17013	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	2/15/23	Completed
2/16/23	17027	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	2/15/23	Completed
2/16/23	17017	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	2/15/23	Completed
2/16/23	17023	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	2/15/23	Completed
2/16/23	17063	pH meter	Clean and Calibrate	Cleaned and calibrated pH meter. Offset .43	David Wilson	2/1/23	Completed
2/16/23	17064	ORP meter	Clean and Calibrate	Cleaned and calibrated ORP meter. Offset 1.9mV	David Wilson	2/10/23	Completed
2/16/23	16967	Wet Scrubber Fan	Scrubber Exhaust Fan PM - Monthly	LOTO of equipment. Inspected belt deflection and pulleys. Cleaned and inspected pillow block bearings. Inspected motor seals and bearings. Lubed all bearings and checked mounting hardware.	David Wilson	2/8/23	Completed
2/21/23	16951	Influent Pump 1	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16952	Influent Pump 2	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16953	Influent Pump 3	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16954	Influent Pump 4	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16955	Influent Pump 5	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16975	RST Feed Pump 1	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/21/23	16976	RST Feed Pump 2	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16982	Sludge Transfer Pump 1	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16983	Sludge Transfer Pump 2	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/21/23	16974	RST Feed Pump 1	Vaughan Centrifugal pump - Semi Annual		David Wilson	2/16/23	Completed
2/21/23	16977	RST Feed Pump 2	Vaughan Centrifugal pump - Semi Annual		David Wilson	2/16/23	Completed
2/21/23	16978	Primary Sludge Pump 1	Vaughan Centrifugal pump - Semi Annual		David Wilson	2/16/23	Completed
2/21/23	16981	Primary Sludge Pump 2	Vaughan Centrifugal pump - Semi Annual		David Wilson	2/16/23	Completed
2/22/23	16942	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	2/20/23	Completed
2/22/23	16938	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	2/20/23	Completed
2/22/23	17039	PS Kohler Trailer Mounted Generator	Generator Weekly - Test Run no load		Eric Sutton	2/20/23	Completed
2/22/23	17066	Generators "All Pump Station"	Generator Weekly - Test Run no load		David Wilson	2/20/23	Completed
2/22/23	17004	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	2/22/23	Completed
2/22/23	17008	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	2/22/23	Completed
2/22/23	17014	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	2/22/23	Completed
2/22/23	17018	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	2/22/23	Completed
2/22/23	17024	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	2/22/23	Completed
2/22/23	17028	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	2/22/23	Completed
2/22/23	16949	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	2/22/23	Completed
2/22/23	17058	High level floats	Weekly High Float Alarm test		Luis Bello	2/19/23	Completed
2/22/23	17071	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	2/19/23	Completed
2/23/23	16985	Waste Activated Sludge Pump 3	Vaughan Centrifugal pump - Semi Annual	Completed service. Oil level good. Inspected hubs and coupling. Greased motor bearings. Exercised valves.	David Wilson	2/16/23	Completed
2/27/23	17061	Recirculation pump #1	Monthly Check Pump Couplings		David Wilson	2/1/23	Completed
2/27/23	16966	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	2/1/23	Completed
2/27/23	17035	GODWIN Portable Pump	Test Run Godwin Pump-Monthly		SEMS TABLET #2	2/1/23	Completed
2/27/23	17060	Meters - 4 Gas Confined Space #2	4 gas meter calibration - monthly		SEMS TABLET #2	2/1/23	Completed
2/27/23	17033	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	2/1/23	Completed
2/27/23	16964	Effluent Pumps	Effluent Pump - Monthly		SEMS TABLET #2	2/15/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	17049	GasAlert Max XTII #2	monthly calibration		SEMS TABLET #2	2/23/23	Completed
2/27/23	17041	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		SEMS TABLET #2	2/23/23	Completed
2/27/23	17042	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		SEMS TABLET #2	2/23/23	Completed
2/27/23	17043	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		SEMS TABLET #2	2/23/23	Completed
2/27/23	17044	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		SEMS TABLET #2	2/23/23	Completed
2/27/23	17045	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		SEMS TABLET #2	2/23/23	Completed
2/27/23	16917	ATI Wet Hydrogen Sulfide Monitor Exhaust	System Maintenance		SEMS TABLET #2	1/1/23	Completed
2/27/23	16911	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	1/1/23	Completed
2/27/23	16818	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	1/1/23	Completed
2/27/23	16912	PS Onan Trailer mounted generator	Quarterly Loaded test run		SEMS TABLET #2	1/1/23	Completed
2/27/23	16869	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	1/1/23	Completed
2/27/23	16898	Recirculation pump #1	Monthly Check Pump Couplings			1/4/23	Completed
2/27/23	16716	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	12/1/22	Completed
2/27/23	16756	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	12/1/22	Completed
2/27/23	16662	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	12/1/22	Completed
2/27/23	16744	Recirculation pump #1	Monthly Check Pump Couplings			12/7/22	Completed
2/27/23	16558	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	11/1/22	Completed
2/27/23	16491	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	11/1/22	Completed
2/27/23	16591	Recirculation pump #1	Monthly Check Pump Couplings			11/2/22	Completed
2/27/23	16603	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	11/1/22	Completed
2/27/23	16571	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		SEMS TABLET #2	11/24/22	Completed
2/27/23	16370	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	10/1/22	Completed
2/27/23	16421	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	10/1/22	Completed
2/27/23	16319	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	10/1/22	Completed
2/27/23	16422	PS Onan Trailer mounted generator	Quarterly Loaded test run		SEMS TABLET #2	10/1/22	Completed
2/27/23	16406	Recirculation pump #1	Monthly Check Pump Couplings			10/5/22	Completed
2/27/23	16382	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		SEMS TABLET #2	10/27/22	Completed



## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	16211	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	9/1/22	Completed
2/27/23	16250	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	9/1/22	Completed
2/27/23	16157	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	9/1/22	Completed
2/27/23	16238	Recirculation pump #1	Monthly Check Pump Couplings			9/7/22	Completed
2/27/23	16072	pH meter	Clean and Calibrate		SEMS TABLET #2	8/1/22	Completed
2/27/23	16041	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	8/1/22	Completed
2/27/23	16084	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	8/1/22	Completed
2/27/23	15969	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	8/1/22	Completed
2/27/23	16070	Recirculation pump #1	Monthly Check Pump Couplings			8/3/22	Completed
2/27/23	15871	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	7/1/22	Completed
2/27/23	15911	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	7/1/22	Completed
2/27/23	15912	PS Onan Trailer mounted generator	Quarterly Loaded test run		SEMS TABLET #2	7/1/22	Completed
2/27/23	15820	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	7/1/22	Completed
2/27/23	15898	Recirculation pump #1	Monthly Check Pump Couplings			7/6/22	Completed
2/27/23	15715	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	6/1/22	Completed
2/27/23	15755	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	6/1/22	Completed
2/27/23	15655	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	6/1/22	Completed
2/27/23	15743	Recirculation pump #1	Monthly Check Pump Couplings			6/1/22	Completed
2/27/23	15550	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	5/1/22	Completed
2/27/23	15595	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	5/1/22	Completed
2/27/23	15489	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	5/1/22	Completed
2/27/23	15582	Recirculation pump #1	Monthly Check Pump Couplings			5/4/22	Completed
2/27/23	15389	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	4/1/22	Completed
2/27/23	15434	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	4/1/22	Completed
2/27/23	15435	PS Onan Trailer mounted generator	Quarterly Loaded test run		SEMS TABLET #2	4/1/22	Completed
2/27/23	15336	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	4/1/22	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	15421	Recirculation pump #1	Monthly Check Pump Couplings			4/6/22	Completed
2/27/23	15238	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	3/1/22	Completed
2/27/23	15277	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	3/1/22	Completed
2/27/23	15178	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	3/1/22	Completed
2/27/23	15264	Recirculation pump #1	Monthly Check Pump Couplings			3/2/22	Completed
2/27/23	15068	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	2/1/22	Completed
2/27/23	15095	Recirculation pump #1	Monthly Check Pump Couplings			2/2/22	Completed
2/27/23	15001	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	2/1/22	Completed
2/27/23	15107	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	2/1/22	Completed
2/27/23	14836	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	1/1/22	Completed
2/27/23	14887	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	1/1/22	Completed
2/27/23	14930	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	1/1/22	Completed
2/27/23	14931	PS Onan Trailer mounted generator	Quarterly Loaded test run		SEMS TABLET #2	1/1/22	Completed
2/27/23	14898	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		SEMS TABLET #2	1/27/22	Completed
2/27/23	14916	Recirculation pump #1	Monthly Check Pump Couplings			1/5/22	Completed
2/27/23	14727	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	12/1/21	Completed
2/27/23	14766	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	12/1/21	Completed
2/27/23	14667	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	12/1/21	Completed
2/27/23	14754	Recirculation pump #1	Monthly Check Pump Couplings			12/1/21	Completed
2/27/23	14754	Recirculation pump #1	Monthly Check Pump Couplings			12/1/21	Completed
2/27/23	14570	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	11/1/21	Completed
2/27/23	14616	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	11/1/21	Completed
2/27/23	14509	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	11/1/21	Completed
2/27/23	14404	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	10/1/21	Completed
2/27/23	14603	Recirculation pump #1	Monthly Check Pump Couplings			11/3/21	Completed
2/27/23	14353	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	10/1/21	Completed
2/27/23	14448	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	10/1/21	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/27/23	14449	PS Onan Trailer mounted generator	Quarterly Loaded test run		SEMS TABLET #2	10/1/21	Completed
2/27/23	14434	Recirculation pump #1	Monthly Check Pump Couplings			10/6/21	Completed
2/27/23	14238	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		SEMS TABLET #2	9/1/21	Completed
2/27/23	14265	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	9/1/21	Completed
2/27/23	14291	Recirculation pump #1	Monthly Check Pump Couplings			9/1/21	Completed
2/27/23	14303	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	9/1/21	Completed
2/27/23	14205	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	9/1/21	Completed
2/27/23	14035	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	8/1/21	Completed
2/27/23	14101	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	8/1/21	Completed
2/27/23	14144	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	8/1/21	Completed
2/27/23	13918	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	7/1/21	Completed
2/27/23	14130	Recirculation pump #1	Monthly Check Pump Couplings			8/4/21	Completed
2/27/23	13867	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	7/1/21	Completed
2/27/23	13956	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	7/1/21	Completed
2/27/23	13957	PS Onan Trailer mounted generator	Quarterly Loaded test run		SEMS TABLET #2	7/1/21	Completed
2/27/23	13944	Recirculation pump #1	Monthly Check Pump Couplings			7/7/21	Completed
2/27/23	13794	Recirculation pump #1	Monthly Check Pump Couplings			6/2/21	Completed
2/27/23	13766	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	6/1/21	Completed
2/27/23	13804	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	6/1/21	Completed
2/27/23	13814	Wet Scrubber System	Clean and Calibration		SEMS TABLET #2	6/1/21	Completed
2/27/23	13658	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	5/1/21	Completed
2/27/23	13614	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		SEMS TABLET #2	5/27/21	Completed
2/27/23	13637	Recirculation pump #1	Monthly Check Pump Couplings			5/5/21	Completed
2/27/23	13657	PS D - DPW Stormwater Pump Station	Generator Monthly test run		SEMS TABLET #2	4/1/21	Completed
2/27/23	13077	Sludge Storage Tank 2	Sludge Holding Tank #2 Cleaning - Annual		SEMS TABLET #2	2/3/21	Completed
2/28/23	17072	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		SEMS TABLET #2	2/26/23	Completed
2/28/23	17059	High level floats	Weekly High Float Alarm test		SEMS TABLET #2	2/26/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/28/23	17073	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	2/1/23	Completed
2/28/23	17073	PS Onan Trailer mounted generator	Montly operational test run		SEMS TABLET #2	2/1/23	Completed
2/28/23	16943	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		SEMS TABLET #2	2/27/23	Completed
2/28/23	16939	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		SEMS TABLET #2	2/27/23	Completed
2/28/23	17067	Generators "All Pump Station"	Generator Weekly - Test Run no load		SEMS TABLET #2	2/27/23	Completed
2/28/23	17040	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		SEMS TABLET #2	2/27/23	Completed

<b>Date</b>	<b>Asset ID</b>	<b>Asset Description</b>	<b>Asset Class</b>
2/16/2023 9:11	04-018	11 WESTERN AVE	Hull Parcels
2/16/2023 9:07	06-055	127 SPRING ST	Hull Parcels
2/28/2023 7:48	09-044-A	3 FITZPATRICK WAY	Hull Parcels
2/7/2023 14:22	10 Nantasket Ave	10 Nantasket Ave Grinder Pump	Hull Grinder Pumps
2/5/2023 12:18	101 Rockaway Ave	101 Rockaway Ave Grinder Pump	Hull Grinder Pumps
2/10/2023 8:19	101 Rockaway Ave	101 Rockaway Ave Grinder Pump	Hull Grinder Pumps
2/10/2023 8:21	101 Rockaway Ave	101 Rockaway Ave Grinder Pump	Hull Grinder Pumps
2/13/2023 9:30	11-011	895 NANTASKET AVE	Hull Parcels
2/10/2023 7:55	11-060	5 BEACON RD	Hull Parcels
2/27/2023 14:36	12-069	10 BLUFF RD	Hull Parcels
2/10/2023 7:50	12-081	836 NANTASKET AVE	Hull Parcels
2/17/2023 9:54	13-065	804 NANTASKET AVE	Hull Parcels
2/5/2023 12:12	145 N Truro St	145 N Truro St Grinder Pump	Hull Grinder Pumps
2/5/2023 12:15	145 N Truro St	145 N Truro St Grinder Pump	Hull Grinder Pumps
2/23/2023 10:21	15-008	729 NANTASKET AVE	Hull Parcels
2/16/2023 9:26	15-029	743 NANTASKET AVE	Hull Parcels
2/16/2023 9:28	15-047	46 L STREET	Hull Parcels
2/23/2023 10:28	15-161	48 O STREET	Hull Parcels
2/23/2023 10:31	15-196	40 P STREET	Hull Parcels
2/16/2023 9:37	16-079	5 E STREET	Hull Parcels
2/16/2023 9:39	16-081	9 E STREET	Hull Parcels
2/16/2023 9:42	16-087	21 E STREET	Hull Parcels
2/16/2023 9:46	17-118-A	57 E STREET	Hull Parcels
2/16/2023 9:48	17-119	59 E STREET	Hull Parcels
2/16/2023 10:00	17-126	77 E STREET	Hull Parcels
2/17/2023 12:35	19-043	70 A STREET	Hull Parcels
2/17/2023 12:32	19-045	168 MANOMET AVE	Hull Parcels
2/24/2023 13:20	19-147	176 SAMOSET AVE	Hull Parcels
2/17/2023 12:28	21-011	162 SAMOSET AVE	Hull Parcels
2/15/2023 9:35	21-055	118 MANOMET AVE	Hull Parcels
2/15/2023 9:38	21-059	110 MANOMET AVE	Hull Parcels
2/15/2023 9:50	21-063	102 MANOMET AVE	Hull Parcels
2/21/2023 13:59	22-142	259 KINGSLEY RD	Hull Parcels
2/23/2023 10:14	22-170	91 TOURAINE AVE	Hull Parcels
2/17/2023 12:24	23-086	6 WARREN STREET	Hull Parcels
2/15/2023 9:46	23-130	24 WARREN STREET	Hull Parcels
2/15/2023 9:55	23-135	90 MANOMET AVE	Hull Parcels
2/15/2023 10:05	23-139	82 MANOMET AVE	Hull Parcels
2/15/2023 10:11	23-154	147 KENBERMA ST	Hull Parcels
2/10/2023 7:59	24-068	25 WARFIELD AVE	Hull Parcels
2/23/2023 10:05	24-068	25 WARFIELD AVE	Hull Parcels
2/16/2023 10:26	24-078	81 WARFIELD AVE	Hull Parcels
2/15/2023 9:23	25-015	64 MANOMET AVE	Hull Parcels

2/15/2023 9:16 25-020	52 MANOMET AVE	Hull Parcels
2/17/2023 12:16 25-042	74 SAMOSET AVE	Hull Parcels
2/17/2023 12:21 25-055	42 MASSASOIT AVE	Hull Parcels
2/15/2023 9:08 25-088	98 REVERE ST	Hull Parcels
2/15/2023 8:54 25-089	44 MANOMET AVE	Hull Parcels
2/17/2023 12:13 25-090	42 MANOMET AVE	Hull Parcels
2/21/2023 14:02 25-090	42 MANOMET AVE	Hull Parcels
2/15/2023 8:27 25-095	34 MANOMET AVE	Hull Parcels
2/15/2023 8:21 25-096	32 MANOMET AVE	Hull Parcels
2/15/2023 8:10 25-166	26 MANOMET AVE	Hull Parcels
2/15/2023 8:04 27-006	14 MANOMET AVE	Hull Parcels
2/10/2023 8:01 27-015	13 MANOMET AVE	Hull Parcels
2/17/2023 12:08 27-018	19 MANOMET AVE	Hull Parcels
2/16/2023 10:35 28-051	31 WALTHAM ST	Hull Parcels
2/16/2023 11:19 29-138	51 MOUNTFORD RD	Hull Parcels
2/1/2023 12:55 30-042	1 NINTH STREET	Hull Parcels
2/27/2023 10:18 30-042	1 NINTH STREET	Hull Parcels
2/1/2023 12:57 31-063	145 EDGEWATER RD	Hull Parcels
2/27/2023 10:20 31-063	145 EDGEWATER RD	Hull Parcels
2/4/2023 15:38 32 Richards Rd	32 Richards Rd Grinder Pump	Hull Grinder Pumps
2/16/2023 11:23 32-072	44 CLIFTON AVE	Hull Parcels
2/10/2023 8:05 34 Wyola Rd	34 Wyola Rd Grinder Pump	Hull Grinder Pumps
2/10/2023 8:17 34 Wyola Rd	34 Wyola Rd Grinder Pump	Hull Grinder Pumps
2/1/2023 12:53 35-031	109 BAY STREET	Hull Parcels
2/27/2023 9:53 35-031	109 BAY STREET	Hull Parcels
2/1/2023 12:51 35-032	19 ISLAND VIEW RD	Hull Parcels
2/1/2023 12:49 36-006	48 BAY STREET	Hull Parcels
2/27/2023 9:51 36-006	48 BAY STREET	Hull Parcels
2/17/2023 11:59 36-012	33 BAY STREET	Hull Parcels
2/17/2023 12:00 36-013	35 BAY STREET	Hull Parcels
2/16/2023 11:33 36-080	3 STANDISH RD	Hull Parcels
2/16/2023 11:39 36-164	51 HAMPTON CIRCLE	Hull Parcels
2/6/2023 10:28 49-065	5 STATE PARK RD	Hull Parcels
2/10/2023 8:22 51-115	12 SEA VIEW AVE	Hull Parcels
2/21/2023 14:10 52-021	150 ATLANTIC AVE	Hull Parcels
2/21/2023 14:07 52-066	14 GUN ROCK AVE	Hull Parcels
2/21/2023 14:11 53-046	104 ATLANTIC AVE	Hull Parcels
2/24/2023 7:24 54 Salisbury St	54 Salisbury St Grinder Pump	Hull Grinder Pumps
2/16/2023 11:41 54-022	20 SUMMIT AVE	Hull Parcels
2/7/2023 14:23 Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit
2/16/2023 14:33 Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit
2/16/2023 14:37 Bacteria UNIT #22	UNIT #22	Hull In Pipe Bacteria Unit
2/16/2023 14:27 Bateria UNIT # 8	UNIT # 8	Hull In Pipe Bacteria Unit
2/16/2023 13:59 Bateria UNIT #1	UNIT #1	Hull In Pipe Bacteria Unit

2/16/2023 14:28 Bateria UNIT #10	UNIT #10	Hull In Pipe Bacteria Unit
2/16/2023 14:31 Bateria UNIT #11	UNIT #11	Hull In Pipe Bacteria Unit
2/16/2023 14:36 Bateria UNIT #12	UNIT #12	Hull In Pipe Bacteria Unit
2/16/2023 14:35 Bateria UNIT #13	UNIT #13	Hull In Pipe Bacteria Unit
2/16/2023 14:34 Bateria UNIT #14	UNIT #14	Hull In Pipe Bacteria Unit
2/16/2023 14:33 Bateria UNIT #15	UNIT #15	Hull In Pipe Bacteria Unit
2/16/2023 14:32 Bateria UNIT #16	UNIT #16	Hull In Pipe Bacteria Unit
2/16/2023 14:28 Bateria UNIT #17	UNIT #17	Hull In Pipe Bacteria Unit
2/16/2023 14:29 Bateria UNIT #19	UNIT #19	Hull In Pipe Bacteria Unit
2/16/2023 13:59 Bateria UNIT #2	UNIT #2	Hull In Pipe Bacteria Unit
2/16/2023 14:32 Bateria UNIT #20	UNIT #20	Hull In Pipe Bacteria Unit
2/16/2023 14:36 Bateria UNIT #23	UNIT #23	Hull In Pipe Bacteria Unit
2/16/2023 13:57 Bateria UNIT #24	UNIT #24	Hull In Pipe Bacteria Unit
2/7/2023 14:25 Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit
2/16/2023 14:29 Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit
2/7/2023 14:26 Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit
2/16/2023 13:57 Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit
2/16/2023 14:24 Bateria UNIT #5	UNIT #5	Hull In Pipe Bacteria Unit
2/16/2023 14:01 Bateria UNIT #6	UNIT #6	Hull In Pipe Bacteria Unit
2/16/2023 14:27 Bateria UNIT #7	UNIT #7	Hull In Pipe Bacteria Unit
2/16/2023 14:37 Bateria UNIT #9	UNIT #9	Hull In Pipe Bacteria Unit
2/16/2023 13:39 HULL_MH-25101	MH-25101	Sanitary Manhole
2/9/2023 8:49 MH-20012	SEMS_Asset	Sanitary Manhole
2/21/2023 14:17 MH-20037	SEMS_Asset	Sanitary Manhole
2/9/2023 8:44 MH-20141	SEMS_Asset	Sanitary Manhole
2/9/2023 8:41 MH-20143	SEMS_Asset	Sanitary Manhole
2/9/2023 8:38 MH-20221	SEMS_Asset	Sanitary Manhole
2/20/2023 11:59 MH-20299	SEMS_Asset	Sanitary Manhole
2/9/2023 8:35 MH-20390	SEMS_Asset	Sanitary Manhole
2/16/2023 13:45 MH-20580	SEMS_Asset	Sanitary Manhole
2/16/2023 13:42 MH-20664	SEMS_Asset	Sanitary Manhole
2/21/2023 14:04 MH-20693	SEMS_Asset	Sanitary Manhole
2/16/2023 13:41 MH-20803	SEMS_Asset	Sanitary Manhole
2/6/2023 14:42 MH-20818	SEMS_Asset	Sanitary Manhole
2/6/2023 14:43 MH-20824	SEMS_Asset	Sanitary Manhole
2/6/2023 14:50 MH-20829	SEMS_Asset	Sanitary Manhole
2/6/2023 14:53 MH-20830	SEMS_Asset	Sanitary Manhole
2/6/2023 14:51 MH-20831	SEMS_Asset	Sanitary Manhole
2/22/2023 8:43 MH-20973	SEMS_Asset	Sanitary Manhole
2/16/2023 13:52 MH-21026	SEMS_Asset	Sanitary Manhole
2/9/2023 8:29 MH-30016	SEMS_Asset	Sanitary Manhole
2/9/2023 8:31 MH-30017	SEMS_Asset	Sanitary Manhole
2/16/2023 13:48 MH-30017	SEMS_Asset	Sanitary Manhole
2/6/2023 14:45 MH-30057	SEMS_Asset	Sanitary Manhole

2/9/2023 8:21 MH-30069	SEMS_Asset	Sanitary Manhole
2/9/2023 8:26 MH-30070	SEMS_Asset	Sanitary Manhole
2/16/2023 13:49 MH-30070	SEMS_Asset	Sanitary Manhole
2/9/2023 8:47 MH-30075	SEMS_Asset	Sanitary Manhole



[illegible]

[illegible]

[illegible]

Sutton, Eric	Sewer Main Cleaning & CCTV	<a href="#">View</a>
Sutton, Eric	Sewer Main Cleaning & CCTV	<a href="#">View</a>
Sutton, Eric	Sewer Main Cleaning & CCTV	<a href="#">View</a>
Sutton, Eric	Sewer Main Cleaning & CCTV	<a href="#">View</a>

Asset Management Accounts - Year 8							
	FOR M.O.R. FEBRUARY 2023	Actual to date			Projected for Final Estimate		
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta
08M-101A	Preventive Maint	\$227,514.68	\$89,071.93	\$138,442.75	\$27,100.00	\$116,171.93	\$111,342.75
08M-102B	Capital and Major Repairs	\$140,000.00	\$167,849.80	(\$27,849.80)	\$54,237.00	\$222,086.80	(\$82,086.80)
08M-103A	Major Sub Contractors	\$192,737.48	\$179,221.42	\$13,516.06	\$44,000.00	\$223,221.42	(\$30,483.94)
blank							
	Asset Management	\$560,252.16	\$436,143.15	\$124,109.01	\$125,337.00	\$561,480.15	(\$1,227.99)

\$124,109.01

Budget expended	Time Status	
	NOW=	3/14/2023
	Start	5/1/2020
39.1%	287.0%	247.9%
119.9%	287.0%	167.1%
93.0%	287.0%	194.0%
77.8%	287.0%	209.2%

08S	D Street	\$7,500.00	\$8,391.00	(\$891.00)	\$0.00	\$8,391.00	(\$891.00)
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111.9%	287.0%	175.1%
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08C	Odor Control Chemicals	\$100,000.00	\$131,788.00	(\$31,788.00)	\$0.00	\$131,788.00	(\$31,788.00)
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131.8%	287.0%	155.2%
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Estimated total  
remaining 08M,  
08C (\$33,015.99)

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR January 2023 M.O.R.					\$125,337.00			<a href="#">3/14/2023 14:11</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Mechanical Work Labor by O&M specialists	On Going		101A	\$10,000.00			Placeholder for Jody St. George, Paul Horigan & WC Support Staff - Total budget \$25,000; adjust 8/30; adjust budget 9/20.Adjust budget 11/28; adjust budget 12/19 by 2K.
1	Pump and Motor Repairs/Replacements [invoiced and pcard]	On Going		101A				to keep existing equipment running - utilize various outside contractor repair shops, new purchases. orig budget \$20,000; adj 8/30; adj 9/26; adj 11/28 to \$9,000; Reduce budget to ZERO [PS4 rebuilt assy]
1	Lubricants	On Going		101A				Various Suppliers for oil and grease. Budgeted \$2000. Cut placeholder \$\$ to \$900; Adjust to zero 1/3/23
1	Generator Prev. Maintenance and Repairs	On Going		101A	\$10,000.00			Orig budget \$20,000. General PM and CM Repair Work - <b>Placeholder</b> - New PO needs to be issued; reduce by minor PM costs/invoices paid 11/28 - reduce by \$3,500. Adj placeholder down to \$10,000 [12/19].
1	Fire Alarm Inspections and Service	On Going		101A				Semi Annual - Hart Security [October & April , central station, & Service]budget \$3000. Semi-annual services completed in mid April. Adj 8/30; Oct Service completed. Adjust budget down to ZERO.
2	Universal waste disposal	completed		101A				Placeholder - \$500 - Unlikely to be used in year 8. Will use these funds for electronic waste disposal. Completed Dec 2023
1	Service the Forklift	completed		101A		\$231.00		Placeholder \$400 - Annual cost - outside vendor. <b>Completed June 2022</b>
1	Overhead Hoist Inspection & repairs	completed		101A		\$1,666.52		Annual task - Applied Dynamics - Inspection Work - May 2022 \$1500 plus some corrective actions, \$1500 left to do for repairs [completed Aug 2022];
1	Flow meter verification and calibration	completed		101A		\$1,175.00		Placeholder - Annual - Ray Ferland or other 1 visit annually - Targeting June 2022. Vendor needs to be contacted. Early Nov targeted date. Nov. Service completed.
1	Facility Building - Roof Inspection	completed		101A		\$2,800.00		\$2800 Annual Placeholder - Established contract with Tecta America. Completed <b>May 2022</b>
2	Jerome H2S Meter Inspection	Pending		101A	\$1,100.00			Placeholder if meter is sent out for calibration - \$1,100; Update Sept 2022 - meter evaluation needed and if new meter should be considered.
1	Janitorial Supplies	On Going		101A				Orig budget \$3,000 - Estimated annual expenditures - adjust 8/30; Adjust 10/31. <b>Adjust to zero 1/3/23</b>
1	Manhole Inspections	Pending		101A				As required,and/or scheduled
2	General mechanical and electrical items/supplies	On Going		101A				Grainger, FWWebb, EJP,Hoadley, McMasterCarr, etc; orig budget \$20,000, adjust tdown as year progresses; adj 8/30; adjust in Sept to 5,000. Adjust 11/28 to \$3,000; <b>Adjust t zero on 1/3/23</b>
1	<b>Thompson Pump repairs 6TS-244 [6A]</b>	completed		101A				Rotating assembly failure - bearings, shft, mech seal parts & labor. Est labor \$6500. Seacoast repair. All bills to post by end of September
2	Large Hoses & fittings	On Going		101A				Orig budget \$3,000. Replacements and/or Service - On-Going - As Needed; adj budget Sept. NIR and Wolf Creek. ZERO out the budget 12/19/22
1	hypo room access/entry door	Pending		102B	\$10,737.00			D&C Quoted - waiting for updated quote with FRP door - Estimate \$6,500; updated estimate, confirmed with email to D&C & HSD approval.
3	Misc. Materials	on Going		101A				Hardware Store - \$200.00 per month - reoccurring expense; budget \$2,400; Adjust 8/30; Adj 9/20; adj 11/28. <b>Adjust to zero 1/3/23</b>
	New Hach Spec Meter for chlorine	completed		101A				replace older/failing unit [DR700]; new unit purchased May 2022
1	Lab Equip Calibration	completed		101A				Annual service \$640

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR January 2023 M.O.R.					\$125,337.00			<a href="#">3/14/2023 14:11</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	RAS pumps - spare impeller	On Going		101A	\$3,000.00			4-6 week lead time ARO. Ordered July 2022; Waiting for updated delivery date. Confirmed Nov 2022 piece is being made.
	Duperon Service Call	completed		101A		\$2,500.00		Service done - September 2022. Recommendations made.
2	6" plug valves [4]	completed		101A		\$3,713.40		RAS pump #3 discharge & other. Pratt plug valves -Qty 4. ordered May 2022; received Aug 2022. GT1 outlet valve repaired and install flush connection. Difficult to remove due to limited access.
1	Duperon Service Call - Additional needs	completed		102B				Issued PO 105426 - \$8,269; work completed late Nov 2022.
2	New Magnetic flow meters for RAS and WAS	Pending		102B				hardware - does not include installation [estimate for Equip - \$8,500] May or may not occur. Remove from planned projects for 08M.
2	yard hydrants - installation	completed		102B				sub-contractor labor - pending; Have materials on hand. Spring 2022. Targeting Nov 2022. Completed Dec 2022 including conduit trench from Sec building to CCT.
1	Mech seals for new PS4 pumps & barrier tanks	completed		102B		\$10,068.55		Items ordered after approval. Installed & in service Aug 2022.
1	Pump Station #4 -New Pumps install	completed		102B		\$12,237.61		by D & C. Late June 2022 - revised estimated installation cost. Work completed July 2022.
1	Effluent Pump #3 - repairs	completed		102B		\$26,840.20		pump has been returned to facility
3	Sanitaire hardware purchase for aer tk 1	Pending		102B				Purchase more hardware ??
1	D&C plant water and potable water system repairs, upgrades various. Replace 6" potable water valve in basement and misc. valves	completed		102B		\$43,499.70		Also check/replace 1 1/4 valves as needed - Requires a water shutdown, other drainage piping, etc. T&M. Estimate \$43,000
2	new effluent P1 - Flowserve	completed		102B				Update 2/8 to AquaSolutions - purchase of new spare effluent pump #1 - 60HP pump delivered in late September. Cost encumbered in 07M. Pump received and paid for 07M.
2	Pump Station #3 - spare rotating, assy, or pump	Pending		102B				TBD- estimates being obtained
3	New 4-inch valves for pri building between the tanks Installation	Pending		102B				Valves - cost: \$3000, sub-contracted labor - either WC or outside co.\$5,000 - totl estim \$8,000
3	Odor log data loggers & calibr kit	Pending		102B				Current units obsolete and not supported by company, possibly look at under 05C if funds avail; remove the \$6,000 on 2/6/20 - 06C or 06M
3	Jerome meter replacement	Pending		102B				replace unit, if done \$11,000; evaluating options
3	Gravity Thickener #1 sandblasting/painting	Pending		102B				Estimate \$50,000+ - would need to go out for competitive bid request
2	Duperon Sumitomo Gear boxes	completed		102B		\$8,500.00		one spare gear box for flex rake and wash compactor [Delte Elec] ordered June 2022. Received in late August 2022. Waiting for invoicing. On Purchase order.

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR January 2023 M.O.R.					\$125,337.00			<a href="#">3/14/2023 14:11</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Grit classifier system parts	On Going		102B	\$3,500.00			waiting for wear shoes - charge is to 07M - estim \$3500. <b>Wear shoe Items received July 2022. Plan for additional tail shaft assy and housing &amp; bushings. Pricing out items/costs by various vendors incl Mfr.</b>
	Plant Water System [Pump and/or parts]	On Going		102B				consider spare motor or complete unit. Under review/hold [est \$6,000].
1	Replacement Pumps LS A [see notes]	completed		102B		\$9,749.96		Repair of rotating assembly - at IPS shop. Returned in September 2022.
1	Electrical Work	On Going		103A				Orig budget \$25,000. Electricians: Glen Fellows, HiVoltage, or other; adjust 8/30; adjust budget Sept 20th. Adjust for addit exp 9/28; adj down on 11/28. Adjust to ZERO on 12/19/22.
1	SCADA Work	On Going		103A	\$7,000.00			Steve Rose and the SCADA Support Team; budget \$20,000; Adj for cyber security protection subscr to \$14k; Reduce placeholder budget to \$7,000.
1	E-One Repairs and Replacement	On Going		103A				Orig budget: \$38,000. Based on historica/recent costs. E1 repairs where cost-effective & new replacement pumps; control panels, other equip; Adjust 8/30. <b>Adj 9/28 to Zero.</b>
1	Automatic Transfer Switch inspection and servicing	completed		101A		\$1,800.00		\$2400 - Annual Service planned for NETS - Transfer Switch; <b>Work comleted July 2022</b>
1	Wetwell Inspections and Cleaning - Plant/Pump Stations	On Going		103A	\$3,000.00			As required, plant or pump stations; orig budget \$8,000; Update acct 9/28;
1	Sewer Line Cleaning - Emergencies, pump & haul	On Going		103A	\$5,000.00			Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, or other, collection system & plant; <b>budget \$10,000</b> Update acct 9/28;
1	Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors	On Going		103A	\$5,000.00			Budget - 15,000, 8/30 - reduce budget due to recent work; Update acct 9/28;
1	Effluent Composite sampler	On Going		102B				Replace "tired" effluent composite sampler. Waiting for PO to be issued. <b>PO issued Dec 2022 for \$9760</b>
3	Pump Station #5 jet lines to wetwell and WW cleaning	completed		103A				included with wetwell/collection system work
3	SHT1 - demo of equip, air piping & diffuser install/materials	Pending		103A				demo concrete in tank - \$15,000 - sub-contractor and installation of new equip -additional new equip \$6,000; air piping to the tank \$10,000; Total estimate: \$31k to 35K ??. Maybe year 09M project ?
4	Generators - Load Bank Testing Plant & Pump Stations	Pending		103A				<b>Look at under 08M or 09M</b> - recently done under 06M.
1	Rosano Davis Pump & Haul PS9	completed		103A		\$28,800.00		for FM inspection
1	EESCO MCC work at the Pump Stations	Pending		103A				TBD 2 days - request for quotation. <b>Site visit done 10/27 by EESCO &amp; waiting for proposal.</b>
3	Low pressure sewer valve box insp & mtce	Pending		103A				placeholder for contractoror O&M inspections and potential repairs; Looking at Rosano-Davis or another contractor & W&C to investigate; budget of \$7,500 on hold
1	Est grit screw installation	Pending		102B	\$40,000.00			\$40,000 placeholder installation - TBD year 8 or year 9
1	Est Grit screw purchase	Pending		102B				placeholder hardware purchase. PO issued Oct 2022 \$48,122
1	AUMA actuator repairs & service	On Going		101A				PO# 105407 - issued for service call and 2 motors. \$4,000



Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR January 2023 M.O.R.					\$125,337.00			<a href="#">3/14/2023 14:11</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
	HDWK fiberglass slide gate	Pending		101A	\$3,000.00			Soliciting estimates for at least one new slide gate. Placeholder [Jan 2023] \$3,000
1	SC #2 Structural Steel Repairs	completed		103A	\$24,000.00			Based on T&M - center supports, scrapers, other - IPC Lydon. Invoice pending
TOTAL					\$125,337.00			