



[woodardcurran.com](http://woodardcurran.com)

COMMITMENT & INTEGRITY DRIVE RESULTS

# HULL WATER POLLUTION CONTROL FACILITY

## SEPTEMBER 2023

## MONTHLY OPERATING REPORT



NPDES NO. MA0101231

# **Table of Contents**

1	Executive Summary .....	3
2	Flows and Loadings.....	4
	Average effluent monthly flows – 2+ year comparison.....	5
	Two Month Summary of Rainfall and the Influence on Effluent Flows.....	6
3	Compliance .....	7
4	Key Performance Indicators .....	10
6	Maintenance Summary .....	16
5	Safety.....	18
6	Staff Development.....	19
7	Collection System .....	20
a.	Wet Well Cleaning .....	20
b.	Collection System Maintenance .....	20
8	Project Management & Administration.....	22
a.	On-Going Projects and Support Items .....	22

# 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 September 2023.**

- No lost-time incidents for the month of September.
- There were 152 effluent samples taken in September.
- There was one alarm call after hours that required a response by W&C staff.
- The Asset Management Accounts summaries for contract year #9 is attached- latest revision date is 9/16/23.
- There were two 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.
- W&C staff continued with the Bio-Bot Covid-19 wastewater sampling & monitoring program three days per week.
- Hurricane "Lee" threatened New England prior to the weekend of Sept 15 & 16, but fortunately Lee did not affect the town of Hull.
- Tighe & Bond and D&C Construction were onsite Sept 6 for the final walk thru punch list review for incomplete Phase I work.
- On Sept 27 pump station #9 was open and available to any qualified sub-contractors having an interest in bidding on the work planned for the replacement of that pump station.

***Mike Sullivan – Plant Manager  
Town of Hull WPCF  
11/9/2023***

**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



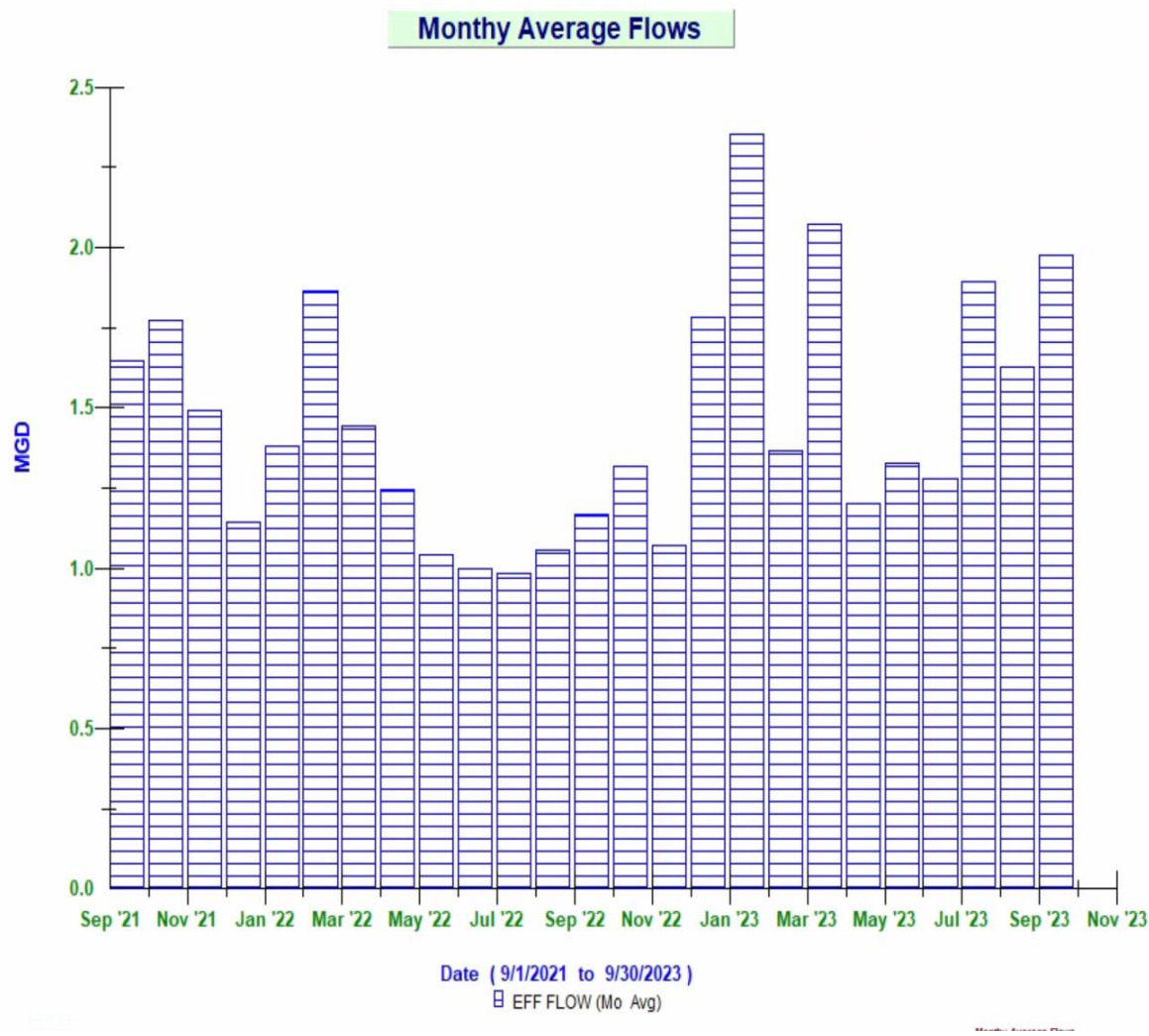
### Average Daily Flows and Loadings for *SEPTEMBER*

Month / Year	Eff Flow	Inf Flow	Inf BOD	Inf TSS	Eff BOD	EFF TSS
	MGD	MDG	LBS	LBS	LBS	LBS
Sep '21	1.65	1.61	2,548.75	3,743.35	167.97	84.06
Sep '22	1.17	1.26	1,417.38	2,516.80	82.18	221.29
Sep '23	1.97	1.94	1,332.98	3,105.00	94.42	307.49

\* 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.

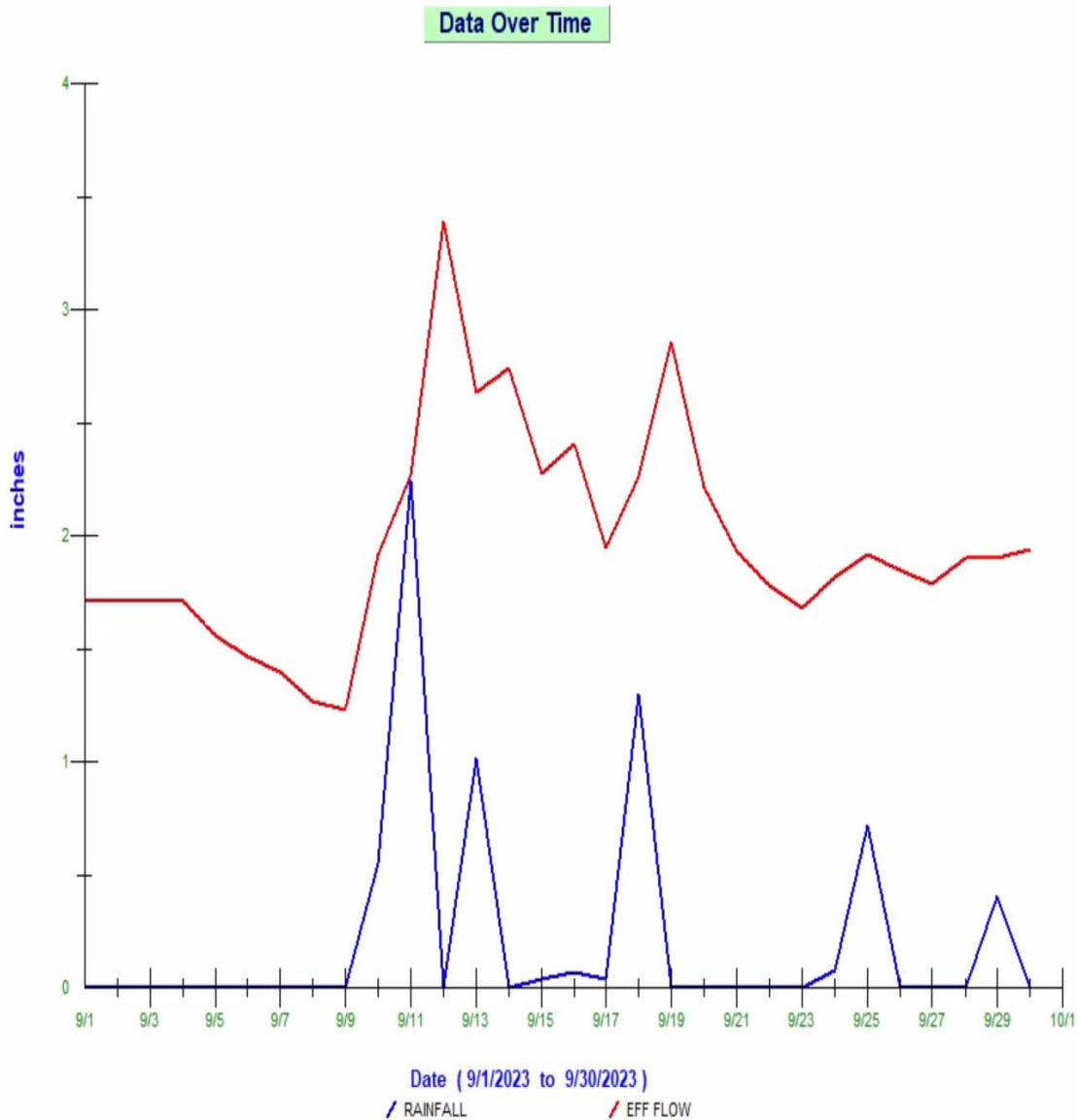
AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

The monthly average effluent flow for September was 1.37 MGD, a little less than 1.68 MGD in August. Total precipitation for September was 6.48 inches, a bit more than the 6.04 inches in August-but with 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].

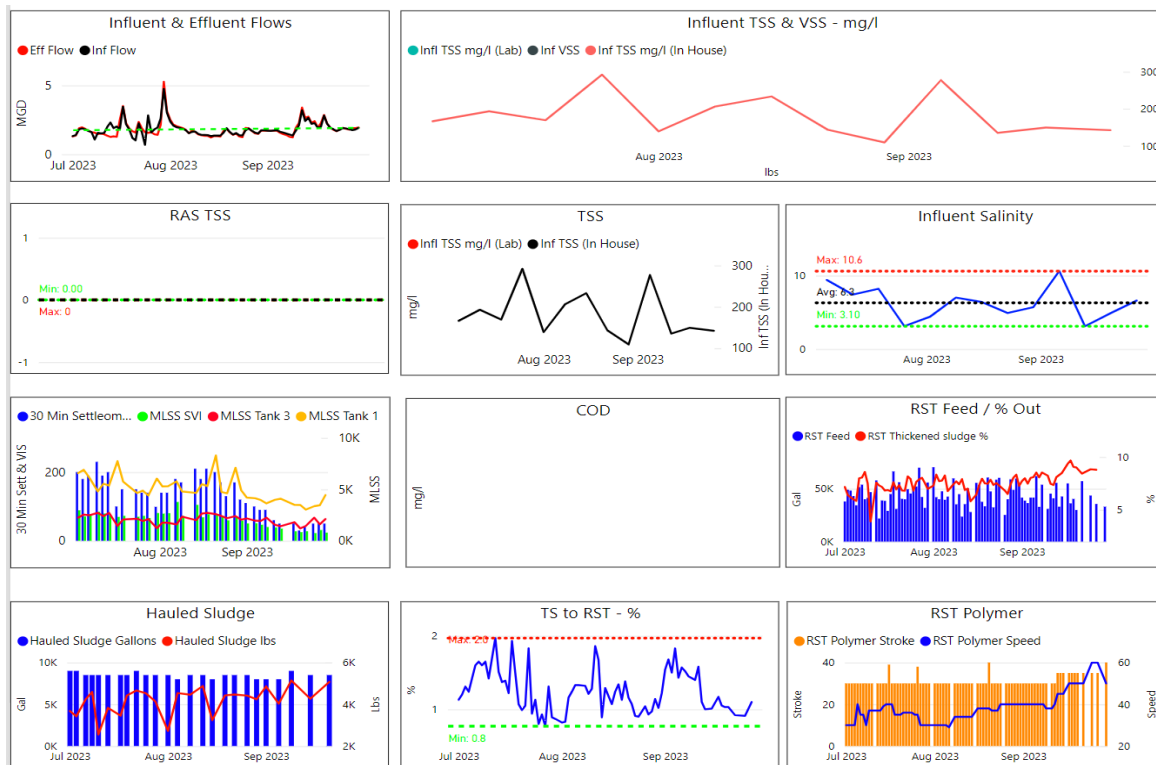


# 3 COMPLIANCE



## ➤ Plant Effluent

- The plant process conditions through September were steady, and the effluent turbidity was acceptable.



Monthly Process Summary graphs from power BI: July-August-September 2023



## SECONDARY PROCESSES – POWER BI GRAPHS



### Hull Wastewater Treatment Facility

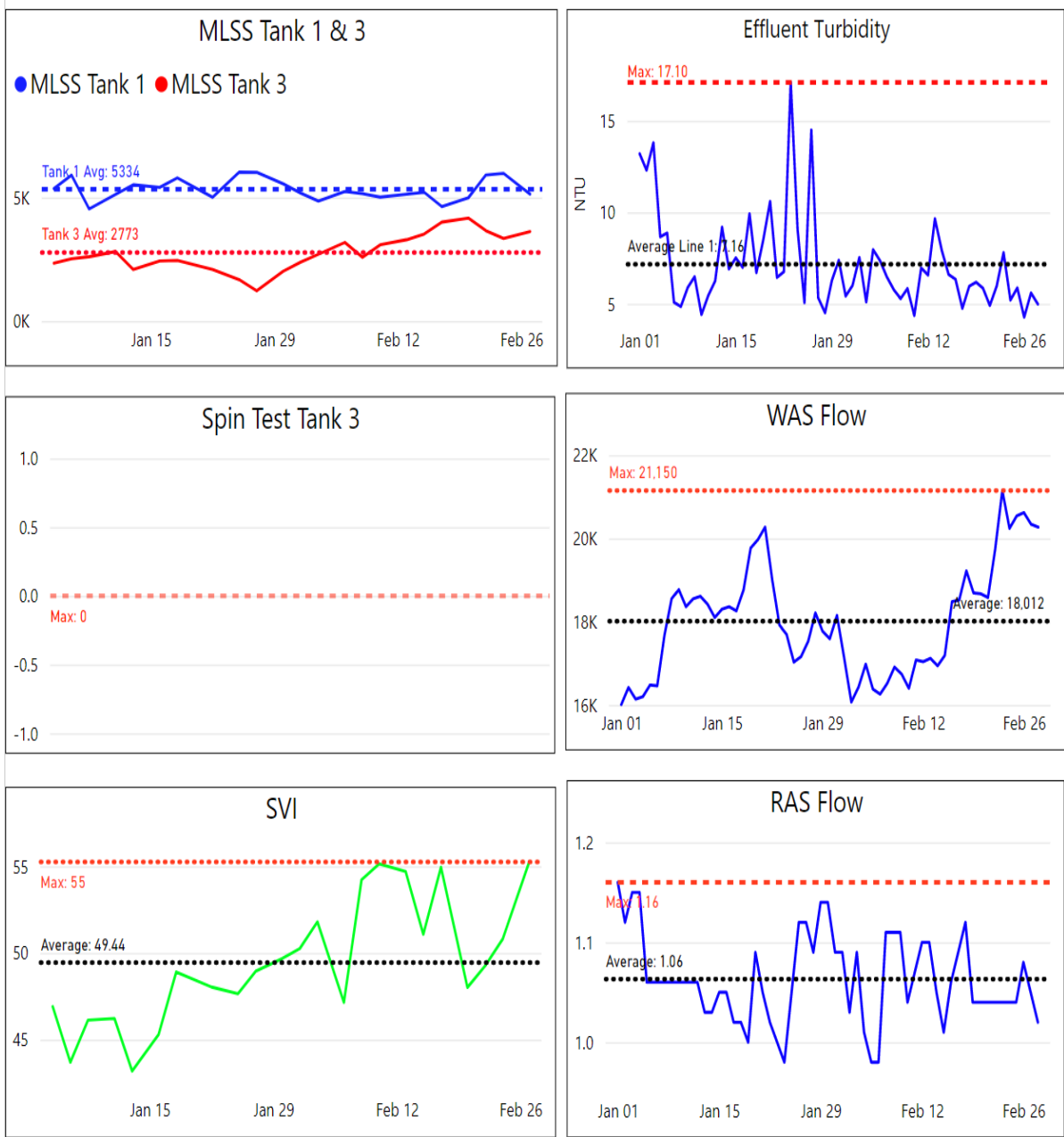
8/1/2023

9/30/2023



2-month period ending on 9/30/2023.





Additional Power BI Graphs showing trends of various processes – 9/1/2022 - 9/30/2023.

## 4 KEY PERFORMANCE INDICATORS



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	16.7	10.5	23.8	4	0
Eff TSS	184	LBS			1152	768	1 X Week	307.5	282.4	341.1	4	0
% TSS Rem	208	%		85			1 X Month	90.5			1	0
Eff BOD	108	MG/L	50		45	30	1 X Week	4.9	3.5	5.5	4	0
Eff BOD	185	LBS			1152	768	1 X Week	94.4	65.1	128.8	4	0
% BOD Rem	207	%		85			1 X Month	93.7			1	0
Eff Chlorine	142	MG/L	1			0.7	3 X Day	0.18	0.00	0.79	90	0
Eff Fecal	111	#/100 ML	260			88	1 X Week	10.8	10.0	20.0	12	0
Eff pH	136	SU	8.5	6.5			1X Daily	6.6	6.5	6.9	30	0
Enterococci	255	#/100 ML	276			35	1 X Week	14	10	40	4	0

There were 152 effluent samples taken in September.

## EFFLUENT COMPLIANCE POWER BI GRAPHS

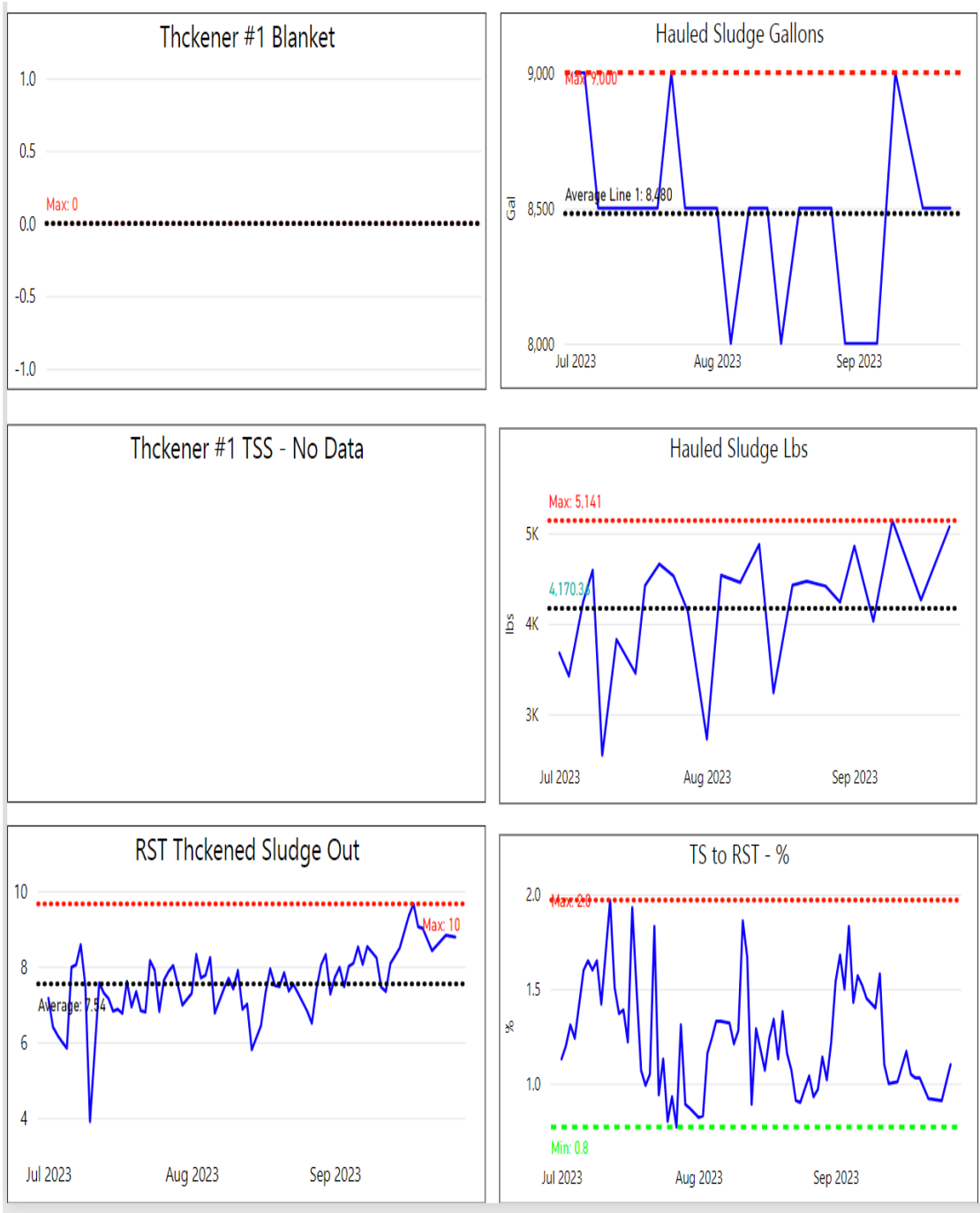


**The quality of the effluent was satisfactory, turbidity (NTU) levels were normal.**

## Sewage Gallons Treated vs Sludge Disposed

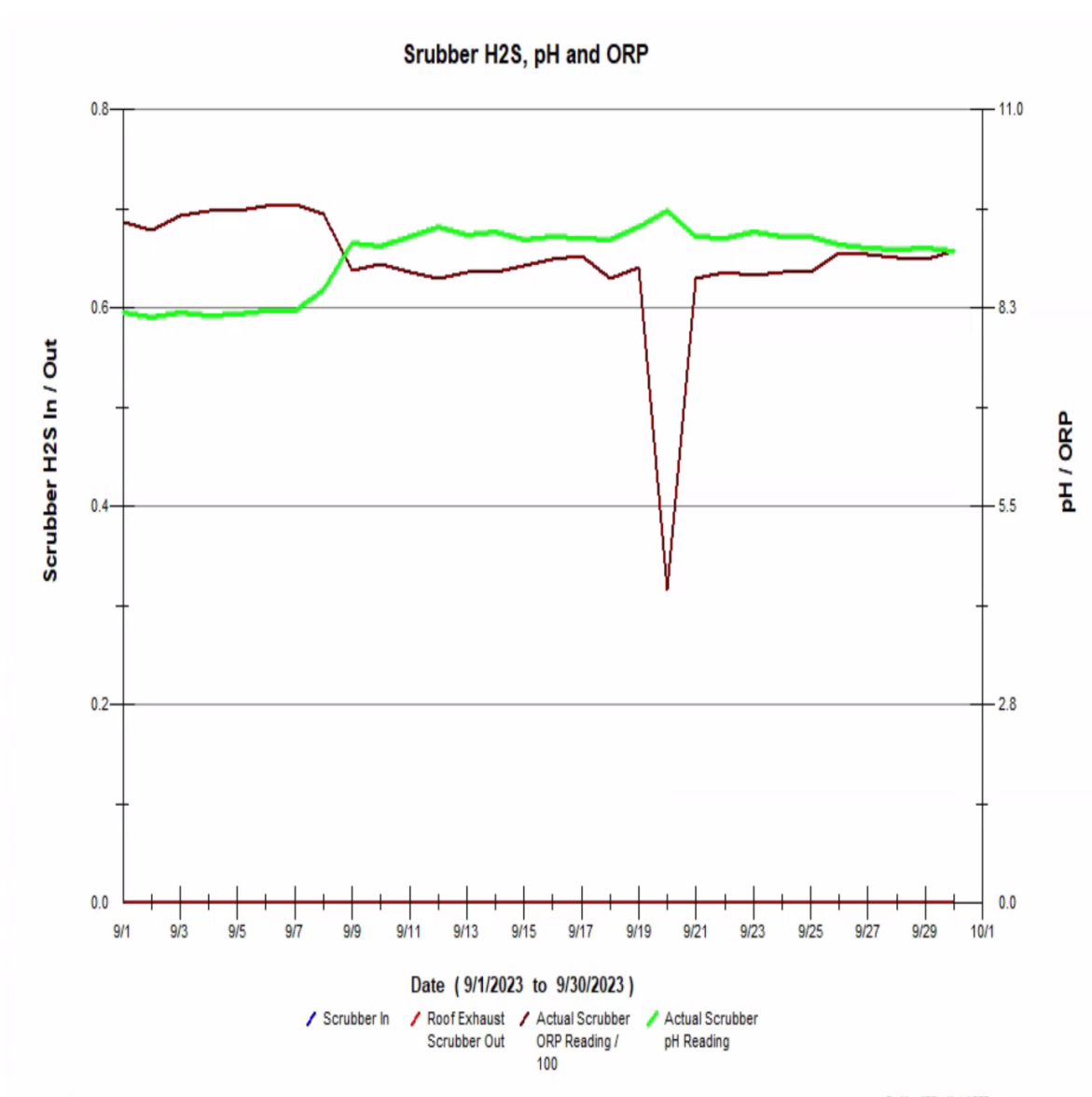
Month	Effluent Treated, MG	Sludge Disposed, Gals
September, 2021	49.4	85,000
September, 2022	35	34,000
September, 2023	59.2	42,000

Additional Power BI graphs for sludge solids for 3-month period ending 9/30/2023.



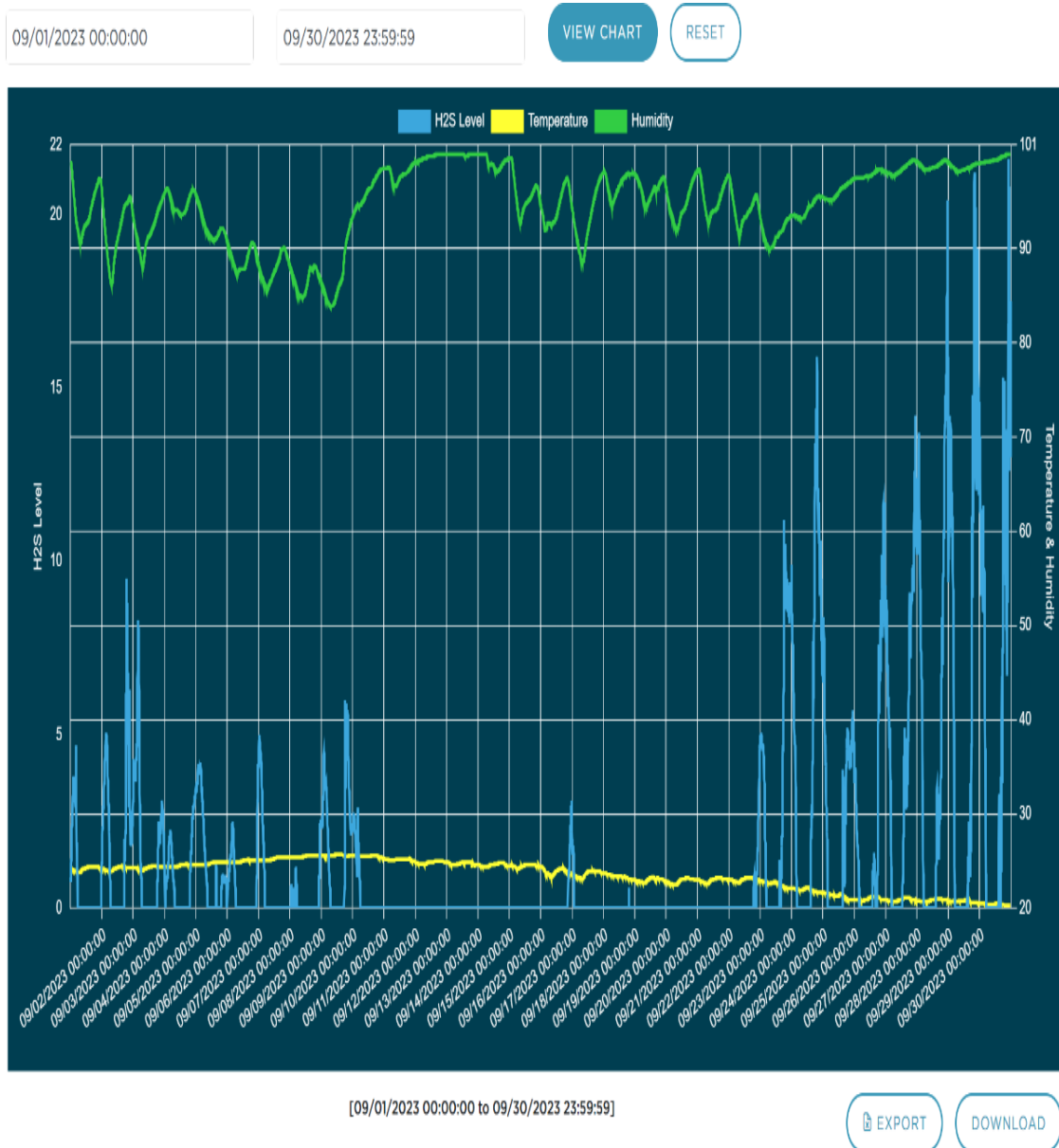
The Bioxide system was on, and the feed rates were minimal, as normal seasonal temperatures were cooler and we had ample rainfall. Monthly graphs are attached below, the daily average Bioxide use for September was about 91 gallons per day.

- The “In-Pipe” bacteria containers in the collection system manholes were changed out on September 8th & 21<sup>st</sup>.
- Slight changes - Hydrogen sulfide (H<sub>2</sub>S) monitoring units were recording and trending on the odor scrubber. [inlet and outlet]. Increased scrubber fan speed slightly. See graph below:



[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.

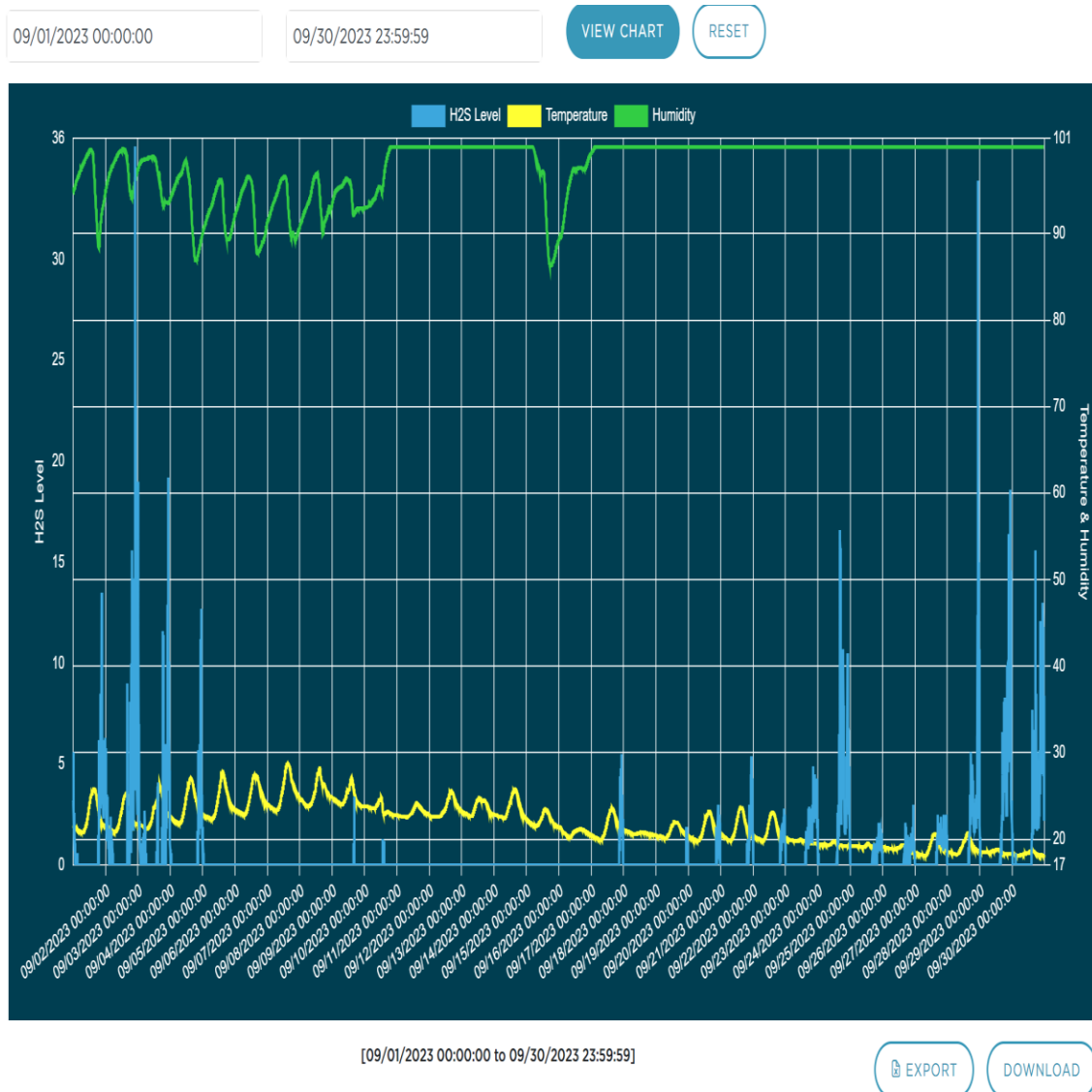
### XYZ – Nantasket Ave [closest to plant]



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 in the manhole at Nantasket Ave & Water Street. Bioxide is added to allow excess nitrate (NO<sub>3</sub>) in the sewage system to treat the additional hydrogen sulfide gases (H<sub>2</sub>S) incoming from other parts the collection system – such as PS #4, and contributions from lines feeding the interceptor - PS #5, PS #6, PS #9, Spinnaker Island, etc., all the way to the wastewater plant. H<sub>2</sub>S levels through September were minimal with generally mild temps for the winter, and adjustments for substantially less Bioxide feed were made.



Nantasket Ave



## 6 MAINTENANCE SUMMARY

asi

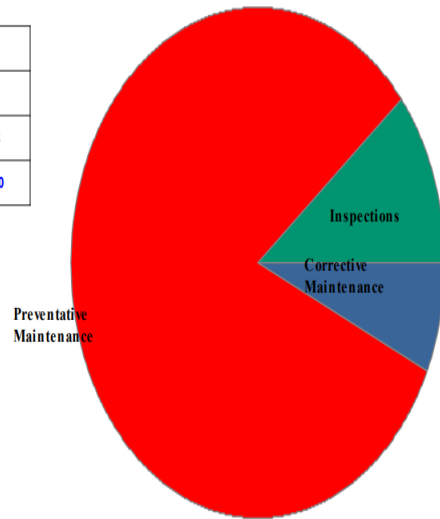


### Maintenance History Report Hull Wastewater

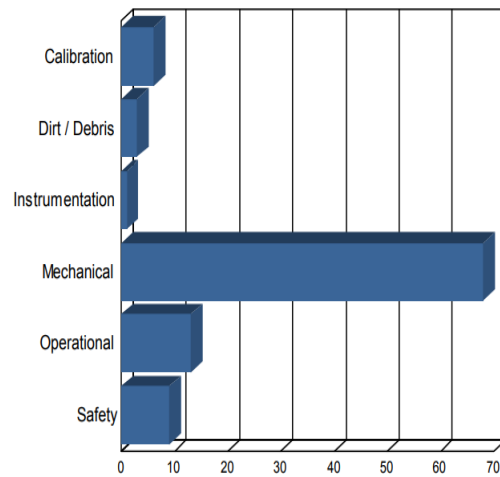
Start Date: 9/1/2023  
End Date: 9/30/2023

Work Order History By Type

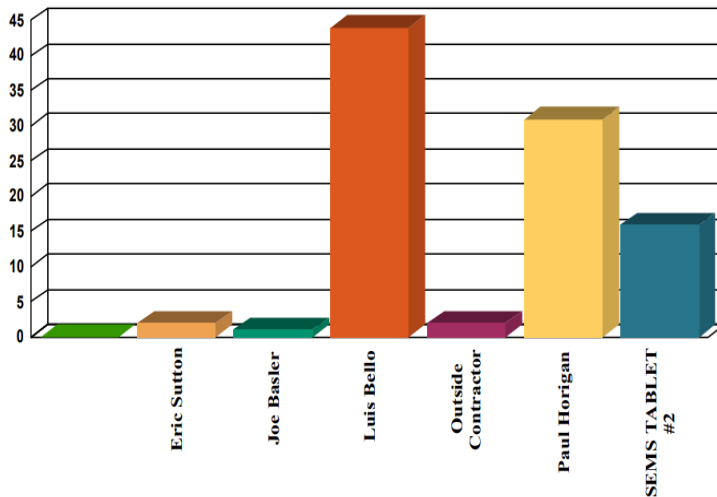
Corrective Maintenance	7
Inspections	11
Preventative Maintenance	82
<b>Total Work Orders</b>	<b>100</b>



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
Eric Sutton	2	0
Joe Basler	1	0
Luis Bello	44	0
Outside Contractor	2	0
Paul Horigan	31	18
SEMS TABLET #2	16	178
Unassigned	4	2
<b>Totals</b>	<b>100</b>	<b>197</b>

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

South Shore Generator was called in to look at the emergency generator at Pump Station #1, which would not start for the weekly "No Load" test running. SSG checked out the unit fully and deemed that it simply needed a new battery, which was ordered and later installed by W&C staff.

Hi-Voltage Electric was called onsite Sept 11<sup>th</sup> as one of the three garage doors would not open by the button. Upon investigation the circuit breaker for the three doors was found to be compromised due to age and corrosion. The breaker was replaced, and the panel was cleaned up.

On September 14th Annese Electric installed the new gas metering unit for the headworks- O2-Oxygen, H2S- Hydrogen Sulfide gas, and LEL- lower explosive level. The unit is mounted in a weatherproof box, but it does require a heat source, as the meters will not function properly below 40 degrees Fahrenheit.

With Hurricane Lee potentially hitting New England on Sept 15-16, two 6-inch portable pumps were rented as both of Hull's Thompsen 6-inch pumps were down for repairs. The pumps were kept onsite for another week as, yet another tropical storm (unnamed) was threatening the Atlantic coast.

Irvine Plumbers were onsite Sept 22 to re-establish the potable water line going down into the influent pump room, as the line was inadvertently removed sometime during Phase I demolition. The influent pumps normally use the plant water system for their seal water supply, but as a backup, a potable water line is maintained. The backup line has a garden hose bib connection and a hose can be hooked into the seal water supply line to the 5 influent pumps if ever necessary.

Secondary Clarifier #1 was drained and hosed out cleaned of sludge out on Friday September 29 for a bi-annual inspection by Lydon Millwrights. On that Wednesday before, 8.5 X 11-inch color paper flyers were handed out to some 40 homes in the neighboring areas explaining the work W&C was to do and the potential for some foul odors to be generated during the tank draining and cleaning. There were no odor complaints of record.

W&C staff helped the DPW with setting up portable pumps and hoses at the Kenberma drainage station, which is at the west end of Draper Avenue. One of the pumps there needs to be replaced and an auxiliary pump is necessary.

- **Please see the attached summary totals and planned expenditures for the Asset Management accounts for contract year (8). Most recent through 9/16/2023**

## 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 September.
- 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.
- W&C's Pure Safety topic for September was electrical lockout & tag out (LOTO) procedures and Arc-Flash prevention.
- The monthly W&C SPARKS safety meeting was held on September 28, including a review of W&C's monthly "Lessons Learned!" from August.
- W&C's monthly safety inspection checklist for the plant was completed.

## 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 SPARKS safety meeting was held on September 28th. Topics discussed were scaffolding, rigging & hoists, and reviewing the "near-miss" incidents occurring at all W&C projects in the August "Lessons Learned!"
- Regular, usually daily, operational updates and process control discussions, pump station operations, Dig Safe requests, and the Phase2 construction project work scope ongoing at the plant. Daily safety briefings are held each morning with all W&C staff.

### **Staffing related items:**

- On Sept 13 Luis B. and the W&C's new hires Ben P. and Clyde L. all attended NEIWPCC's "Pump-A-Palooza" seminar, which is put on by pump manufacturers. The event is an opportunity to learn about many different pumps used in wastewater treatment applications and their operation & maintenance.
- New hire Ben Porcher continued learning the permit required daily lab duty, which will help in weekend staffing coverage.
- Plant continued to have Sunday coverage supplemented with part-time staffers Roger Boltrushek and Ryan Holman, as well as Plymouth W&C staff member Rysaiah Jones.
- 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, 2023								
June, 2023	X			X				
July, 2023								
Aug., 2023								
Sept. 2023								
Oct.,2023								
Nov, 2023								
Dec., 2023								
Jan., 2024								
Feb., 2024								
March 2024								
April 2024								

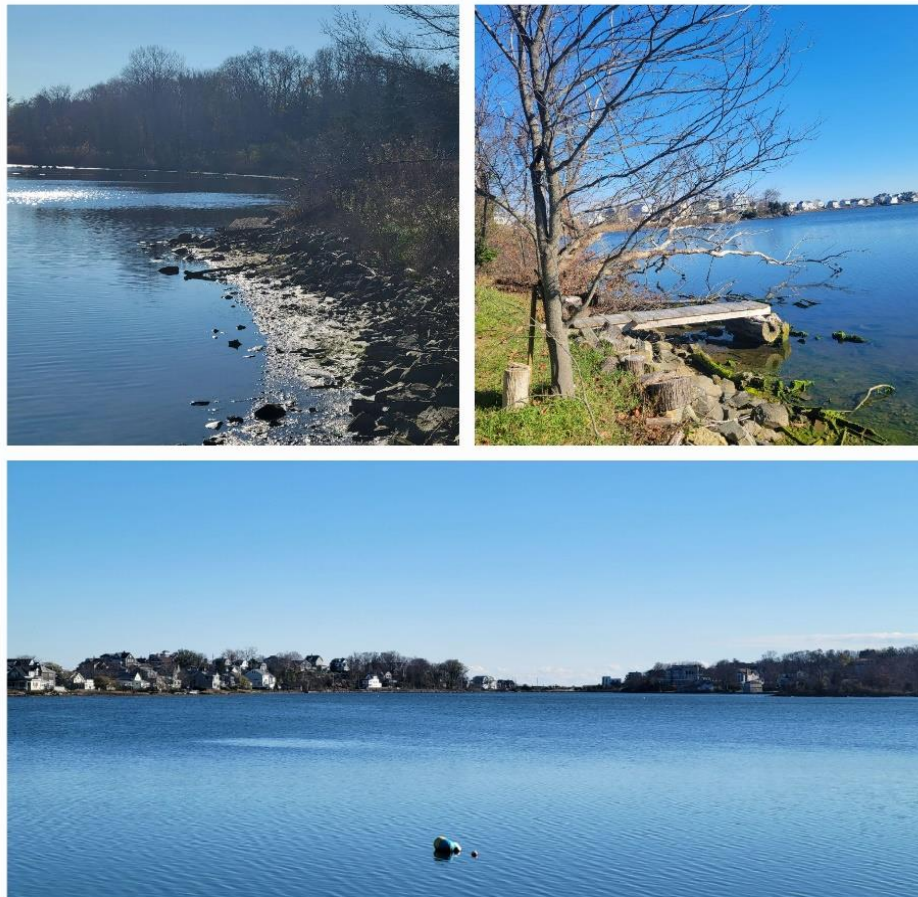
All pump stations except for Pump Station 3 and Station D have an aerator/mixer in the wet wells.

### 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 2 calls from residents for E-One Grinder pump service– see UC summary.
- A sinkhole was reported at Hillside Avenue and Fairmont Road-W&C staff checked the sewer lines via cctv. There was no sinkhole but rather a drainage issue which the DPW addressed.
- The pump station emergency generators testing consists of a weekly “No Load” running and a monthly “Loaded” running.
- All Pump station wet wells were inspected in September- 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 the Sewer Dept. and to help facilitate scheduled and emergency gas repairs, broken water mains, roadway paving projects, and other residential and town projects. All Dig-Safes are listed in the UC summary.



## 8 PROJECT MANAGEMENT & ADMINISTRATION



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

#### September updates:

- Phase 2 engineers Woodard & Curran have been onsite regularly for the influent process, aeration, and operations building upgrades project. The major construction sub-contractor Barletta Heavy of Canton has been onsite regularly and sub-contractors Annese Electric, Harding & Smith, and Mersino.
- Plant Manager Mike S. and Assistant Plant Manager Joe B. meet weekly with John S. and Tom Molinari to discuss the Sewer Department operations, any treatment plant issues, the collection system, and any upcoming projects.



Date	Asset ID	Asset Description	Asset Class	Name
9/14/2023 13:33	03-092	9 LAFAYETTE RD	Hull Parcels	Sutton, Eric
9/6/2023 12:28	05-068	15 HIGHLAND AVE	Hull Parcels	Sutton, Eric
9/6/2023 14:05	06-013	122 SPRING ST	Hull Parcels	Sutton, Eric
9/14/2023 13:19	09-059	1 HOLBROOK AVE	Hull Parcels	Sutton, Eric
9/25/2023 13:23	10-025	21 HOLBROOK AVE	Hull Parcels	Sutton, Eric
9/14/2023 13:17	10-043	43 HOLBROOK AVE	Hull Parcels	Sutton, Eric
9/28/2023 10:50	10-098	50 HOLBROOK AVE	Hull Parcels	Sutton, Eric
9/12/2023 12:39	13-063	808 NANTASKET AVE	Hull Parcels	Sutton, Eric
9/13/2023 14:06	13-103	794 NANTASKET AVE	Hull Parcels	Sutton, Eric
9/13/2023 13:58	14-077	81 CENTRAL AVE	Hull Parcels	Sutton, Eric
9/21/2023 10:32	14-103	13 N STREET	Hull Parcels	Sutton, Eric
9/1/2023 10:39	14-137	108 CENTRAL AVE	Hull Parcels	Sutton, Eric
9/25/2023 13:11	15-042	45 K STREET	Hull Parcels	Sutton, Eric
9/21/2023 10:56	15-065	245 BEACH AVE	Hull Parcels	Sutton, Eric
9/28/2023 8:30	15-138	50 N STREET	Hull Parcels	Sutton, Eric
9/28/2023 13:34	15-147	33 N STREET	Hull Parcels	Sutton, Eric
9/21/2023 10:36	15-176	27 O STREET	Hull Parcels	Sutton, Eric
9/26/2023 12:29	15-191	295 BEACH AVE	Hull Parcels	Sutton, Eric
9/21/2023 10:34	17-038	67 B STREET	Hull Parcels	Sutton, Eric
9/8/2023 11:10	17-170-A	727 NANTASKET AVE	Hull Parcels	Sutton, Eric
9/13/2023 13:39	18-129	47 HALVORSEN AVE	Hull Parcels	Sutton, Eric
9/21/2023 10:10	18-129	47 HALVORSEN AVE	Hull Parcels	Sutton, Eric
9/7/2023 13:50	20-049	63 PROSPECT AVE	Hull Parcels	Sutton, Eric
9/8/2023 11:23	20-053	55 PROSPECT AVE	Hull Parcels	Sutton, Eric
9/7/2023 12:10	20-059	41 PROSPECT AVE	Hull Parcels	Sutton, Eric
9/11/2023 13:49	20-078	26 VETERANS RD	Hull Parcels	Sutton, Eric
9/28/2023 8:41	21-125	246 KINGSLEY RD	Hull Parcels	Sutton, Eric
9/18/2023 14:35	23-061	0 LINCOLN ST	Hull Parcels	Sutton, Eric
9/18/2023 14:36	23-062	9 LINCOLN ST	Hull Parcels	Sutton, Eric
9/1/2023 10:35	23-107	108 SAMOSET AVE	Hull Parcels	Sutton, Eric
9/12/2023 14:24	23-118	77 MANOMET AVE	Hull Parcels	Sutton, Eric
9/25/2023 12:46	24-078	81 WARFIELD AVE	Hull Parcels	Sutton, Eric
9/25/2023 12:55	24-167	24 PACKARD AVE	Hull Parcels	Sutton, Eric
9/12/2023 14:02	25-056	40 MASSASOIT AVE	Hull Parcels	Sutton, Eric
9/14/2023 12:55	26-087	112 NEWPORT RD	Hull Parcels	Sutton, Eric
9/25/2023 13:44	27-097	25 SAMOSET AVE	Hull Parcels	Sutton, Eric
9/12/2023 14:32	27-132	8 EDGEWATER RD	Hull Parcels	Sutton, Eric
9/12/2023 13:15	28-031	61 KINGSLEY RD	Hull Parcels	Sutton, Eric
9/12/2023 13:22	29-031	83 EDGEWATER RD	Hull Parcels	Sutton, Eric
9/28/2023 13:36	29-052	62 EDGEWATER RD	Hull Parcels	Sutton, Eric
9/20/2023 11:55	29-054	58 EDGEWATER RD	Hull Parcels	Sutton, Eric
9/20/2023 11:59	29-111	46 WHITEHEAD AVE	Hull Parcels	Sutton, Eric
9/12/2023 13:19	30-012	111 EDGEWATER RD	Hull Parcels	Sutton, Eric

9/28/2023 11:38 33-042-A	31 SAGAMORE TERRACE	Hull Parcels	Sutton, Eric
9/13/2023 13:18 33-104	115 BAY STREET	Hull Parcels	Sutton, Eric
9/28/2023 9:40 33-137	34 PORRAZZO RD	Hull Parcels	Sutton, Eric
9/12/2023 14:39 33-142	0 MERRILL RD	Hull Parcels	Sutton, Eric
9/21/2023 11:34 34-025	22 HILLSIDE RD	Hull Parcels	Sutton, Eric
9/21/2023 9:32 34-029	12 HILLSIDE RD	Hull Parcels	Sutton, Eric
9/6/2023 13:10 34-054	4 EASTERN AVE	Hull Parcels	Sutton, Eric
9/21/2023 11:01 34-071	17 PORRAZZO RD	Hull Parcels	Sutton, Eric
9/21/2023 11:29 34-071	17 PORRAZZO RD	Hull Parcels	Sutton, Eric
9/21/2023 11:54 35-003	93 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
9/7/2023 11:39 35-026	97 BAY STREET	Hull Parcels	Sutton, Eric
9/14/2023 12:48 35-031	109 BAY STREET	Hull Parcels	Sutton, Eric
9/21/2023 11:48 35-042	3 ISLAND VIEW RD	Hull Parcels	Sutton, Eric
9/21/2023 12:10 35-145	123 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
9/21/2023 9:34 36-004	4 HILLSIDE RD	Hull Parcels	Sutton, Eric
9/21/2023 11:35 36-004	4 HILLSIDE RD	Hull Parcels	Sutton, Eric
9/21/2023 12:06 36-065	11 LINCOLN AVE	Hull Parcels	Sutton, Eric
9/21/2023 11:56 36-069	17 LINCOLN AVE	Hull Parcels	Sutton, Eric
9/21/2023 12:03 36-082	7 STANDISH RD	Hull Parcels	Sutton, Eric
9/21/2023 12:05 36-082	7 STANDISH RD	Hull Parcels	Sutton, Eric
9/21/2023 12:17 36-102	7 MAYFLOWER AVE	Hull Parcels	Sutton, Eric
9/21/2023 12:19 36-103	9 MAYFLOWER AVE	Hull Parcels	Sutton, Eric
9/21/2023 9:36 39-083	7 WYOLA RD	Hull Parcels	Sutton, Eric
9/21/2023 9:36 39-094	61 PARK AVE	Hull Parcels	Sutton, Eric
9/6/2023 14:02 39-160	0 ROCKLAND TERRACE	Hull Parcels	Sutton, Eric
9/21/2023 10:02 43-063	0 ROCKAWAY AVE	Hull Parcels	Sutton, Eric
9/26/2023 8:00 45-085	10 ORLEANS ST	Hull Parcels	Sutton, Eric
9/6/2023 12:47 48-001	120 NANTASKET AVE	Hull Parcels	Sutton, Eric
9/7/2023 11:13 49-069	36 ATLANTIC HSE RD	Hull Parcels	Sutton, Eric
9/26/2023 13:14 49-078	248 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/1/2023 14:29 51-015	7 RICHARDS RD	Hull Parcels	Sutton, Eric
9/26/2023 13:28 51-015	7 RICHARDS RD	Hull Parcels	Sutton, Eric
9/28/2023 11:32 51-018	19 RICHARDS RD	Hull Parcels	Sutton, Eric
9/26/2023 13:37 51-022	215 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/12/2023 15:04 51-037	26 STONY BEACH RD	Hull Parcels	Sutton, Eric
9/21/2023 9:38 52-021	150 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/8/2023 11:38 52-040	143 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/25/2023 14:14 52-042	145 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/14/2023 12:43 53-029	0 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/28/2023 10:57 54-041	86 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/28/2023 10:59 54-041	86 ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/28/2023 10:55 54-043	82 A ATLANTIC AVE	Hull Parcels	Sutton, Eric
9/8/2023 14:46 Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric
9/28/2023 8:58 Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric

9/8/2023 14:49	Bacteria UNIT #22	UNIT #22
9/8/2023 14:35	Bateria UNIT # 8	UNIT # 8
9/8/2023 14:24	Bateria UNIT #1	UNIT #1
9/8/2023 14:35	Bateria UNIT #10	UNIT #10
9/8/2023 14:42	Bateria UNIT #11	UNIT #11
9/8/2023 14:48	Bateria UNIT #12	UNIT #12
9/8/2023 14:48	Bateria UNIT #13	UNIT #13
9/8/2023 14:47	Bateria UNIT #14	UNIT #14
9/8/2023 14:45	Bateria UNIT #15	UNIT #15
9/8/2023 14:44	Bateria UNIT #16	UNIT #16
9/8/2023 14:40	Bateria UNIT #17	UNIT #17
9/8/2023 14:41	Bateria UNIT #18	UNIT #18
9/8/2023 14:41	Bateria UNIT #19	UNIT #19
9/8/2023 14:25	Bateria UNIT #2	UNIT #2
9/8/2023 14:43	Bateria UNIT #20	UNIT #20
9/8/2023 14:49	Bateria UNIT #23	UNIT #23
9/8/2023 14:23	Bateria UNIT #24	UNIT #24
9/8/2023 14:40	Bateria UNIT #3	UNIT #3
9/28/2023 8:57	Bateria UNIT #3	UNIT #3
9/8/2023 14:22	Bateria UNIT #4	UNIT #4
9/28/2023 8:32	Bateria UNIT #4	UNIT #4
9/8/2023 14:32	Bateria UNIT #5	UNIT #5
9/8/2023 14:31	Bateria UNIT #6	UNIT #6
9/8/2023 14:33	Bateria UNIT #7	UNIT #7
9/8/2023 14:49	Bateria UNIT #9	UNIT #9
9/6/2023 12:38	MH-20789	SEMS_Asset
9/28/2023 9:56	MH-20815	SEMS_Asset

Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Hull In Pipe Bacteria Unit	Sutton, Eric
Sanitary Manhole	Sutton, Eric
Sanitary Manhole	Sutton, Eric



[illegible]

Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Hull - In Pipe Bacteria Units	<a href="#">View</a>
Generic WO	<a href="#">View</a>
Sewer Main Cleaning & CCTV	<a href="#">View</a>



# Maintenance History Report

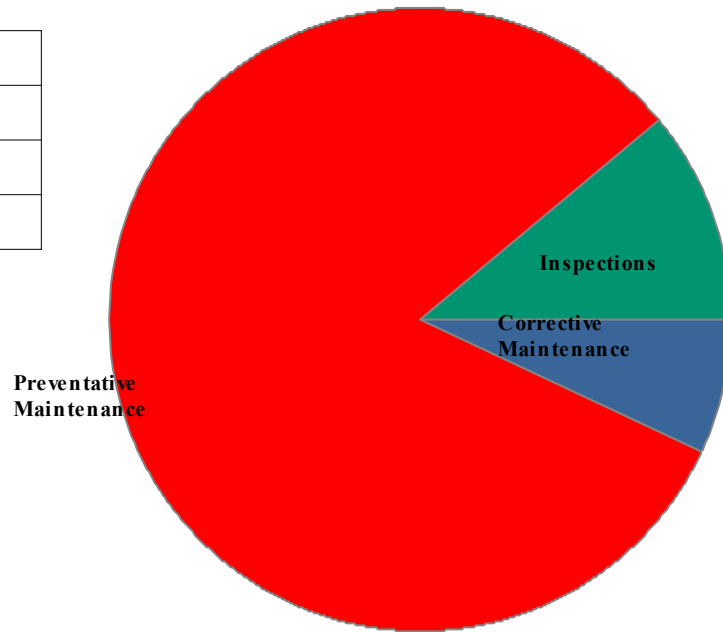
Start Date: 9/1/2023

End Date: 9/30/2023

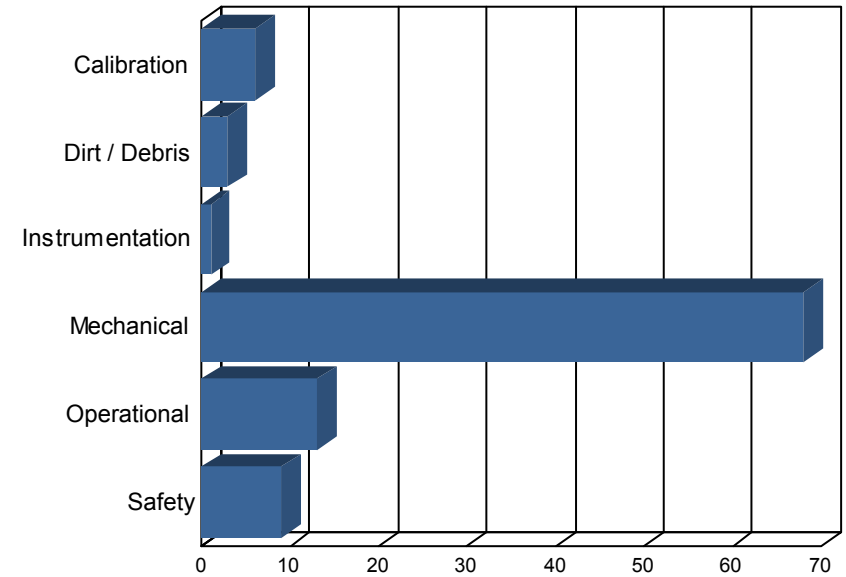
## Hull Wastewater

### Work Order History By Type

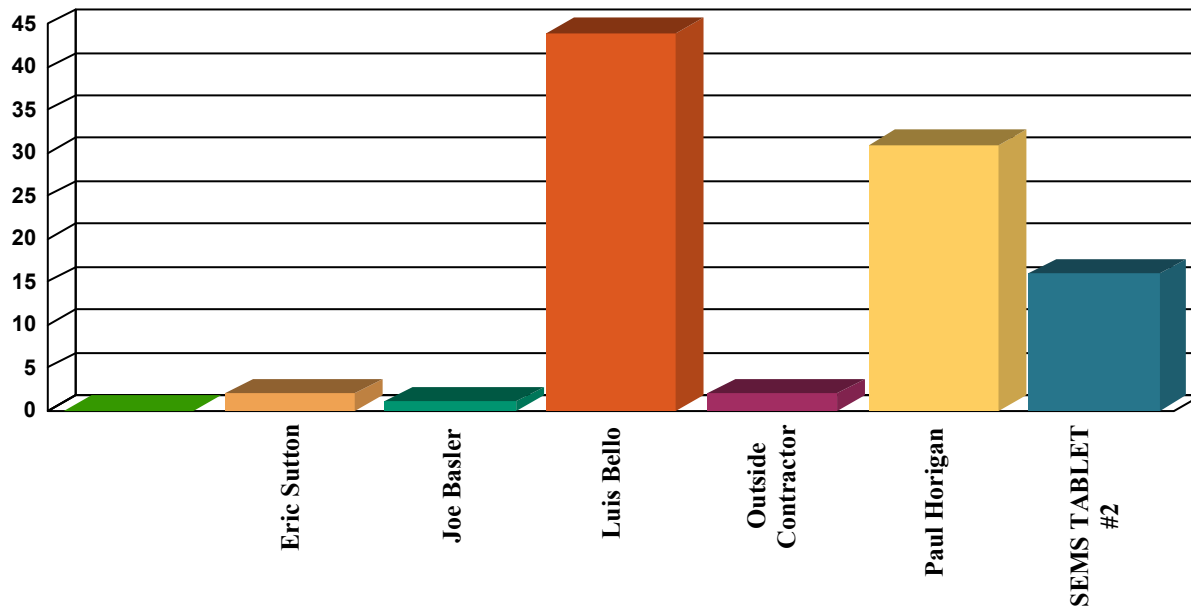
Corrective Maintenance	7
Inspections	11
Preventative Maintenance	82
<b>Total Work Orders</b>	<b>100</b>



### Work Order History by Reason



### Work Order History By Employee



Employee	WO Count	Labor Hours
Eric Sutton	2	0
Joe Basler	1	0
Luis Bello	44	0
Outside Contractor	2	0
Paul Horigan	31	18
SEMS TABLET #2	16	178
Unassigned	4	2
<b>Totals</b>	<b>100</b>	<b>197</b>



## Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
9/17/23	18495	RAS Pump 2	Remove debris	LOTO performed	Eric Sutton	9/17/23	Completed
9/17/23	18494	RAS Pump 1	Remove debris due to low flow	LOTO performed pulled pump removed debris	Eric Sutton	9/17/23	Completed
9/19/23	18496	Portable Diesel Pump 4A Thompson 4" 600 - 700gpm	Replace starter and battery	Relace starter and battery	Paul Horigan	9/20/23	Completed
9/20/23	18497	Portable Diesel Pump 6A Thompson 6" 900 - 1000 gpm	Portable pump	Replace. Battery	Paul Horigan	9/20/23	Completed
9/20/23	18498	Portable Diesel Pump 4B Thompson 4" 600 - 700 gpm	Portable pump	Replace starter	Paul Horigan	9/20/23	Completed
9/20/23	18499	Portable Diesel Pump 6A Thompson 6" 900 - 1000 gpm	Portable pump	Replace cracked 6" cam lock	Paul Horigan	9/20/23	Completed
9/30/23	18635	RST unit	Broken drum wheel	Removal and replacement of middle drum wheel.		9/30/23	Completed

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
9/7/23	18491	Truck 4 - 2015 Nissan Frontier	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.		9/7/23	Completed
9/7/23	18492	Truck 1 - 2010 Dodge Ram 1500	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.		9/7/23	Completed
9/7/23	18493	Truck 2 - 2009 Chevy 2500 HD	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.		9/7/23	Completed
9/7/23	17998	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		Luis Bello	8/7/23	Completed
9/7/23	18008	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		Luis Bello	8/7/23	Completed
9/7/23	18017	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		Luis Bello	8/7/23	Completed
9/14/23	18178	Blower Room Exhaust Fan 1	Monthly operational inspection	Showed Louis how to do this PM	Paul Horigan	9/1/23	Completed
9/14/23	18179	Blower Room Exhaust Fan 2	Monthly operational inspection	Showed Louis how to do this PM	Paul Horigan	9/1/23	Completed
9/20/23	18053	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		SEMS TABLET #2	9/13/23	Completed
9/22/23	17424	30 - WW Treatment Plant - General	Monthly H&S Inspection		SEMS TABLET #2	5/1/23	Completed
9/22/23	17255	30 - WW Treatment Plant - General	Monthly H&S Inspection		SEMS TABLET #2	4/3/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
9/5/23	18057	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		Luis Bello	9/3/23	Completed
9/5/23	17901	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		SEMS TABLET #2	8/28/23	Completed
9/5/23	18168	Generators "All Pump Station"	Generator - Monthly Load Test		Luis Bello	9/3/23	Completed
9/5/23	17961	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	8/30/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
9/5/23	17966	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	8/30/23	Completed
9/5/23	17973	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	8/30/23	Completed
9/5/23	17985	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	8/30/23	Completed
9/5/23	17990	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	8/30/23	Completed
9/5/23	17978	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	8/30/23	Completed
9/5/23	18031	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	8/28/23	Completed
9/7/23	18062	Influent Sluice Isolation Gate	Weekly operate through full range		Luis Bello	9/6/23	Completed
9/7/23	17907	Influent Sluice Isolation Gate	Weekly operate through full range		Luis Bello	8/30/23	Completed
9/11/23	18104	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		Luis Bello	9/6/23	Completed
9/11/23	18113	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		Luis Bello	9/6/23	Completed
9/11/23	18114	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		Luis Bello	9/6/23	Completed
9/11/23	18124	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		Luis Bello	9/6/23	Completed
9/11/23	18141	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		Luis Bello	9/3/23	Completed
9/11/23	18123	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		Luis Bello	9/6/23	Completed
9/11/23	18125	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/6/23	Completed
9/11/23	18129	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/6/23	Completed
9/11/23	18119	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/6/23	Completed
9/11/23	18115	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/6/23	Completed
9/11/23	18109	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/6/23	Completed
9/11/23	18105	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/6/23	Completed
9/14/23	18063	Influent Sluice Isolation Gate	Weekly operate through full range		Luis Bello	9/13/23	Completed
9/14/23	18160	High level floats	Weekly High Float Alarm test		Luis Bello	9/10/23	Completed
9/14/23	18173	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	9/10/23	Completed
9/18/23	18106	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	9/13/23	Completed
9/18/23	18110	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	9/13/23	Completed
9/18/23	18116	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	9/13/23	Completed
9/18/23	18126	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	9/13/23	Completed
9/18/23	18130	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	9/13/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
9/18/23	18142	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	9/11/23	Completed
9/18/23	18143	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	9/18/23	Completed
9/18/23	18120	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	9/13/23	Completed
9/18/23	18169	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	9/11/23	Completed
9/18/23	18170	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	9/18/23	Completed
9/19/23	17897	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	8/28/23	Completed
9/19/23	17696	GODWIN Portable Pump	Test Run Godwin Pump-Monthly	Completed as requested	Paul Horigan	9/19/23	Completed
9/19/23	17836	GODWIN Portable Pump	Test Run Godwin Pump-Monthly	Completed with next PM	Paul Horigan	9/19/23	Completed
9/19/23	17997	GODWIN Portable Pump	Test Run Godwin Pump-Monthly	Complete with next PM	Paul Horigan	8/2/23	Completed
9/19/23	18139	GODWIN Portable Pump	Test Run Godwin Pump-Monthly	Completed as requested	Paul Horigan	9/6/23	Completed
9/19/23	18058	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Ccompleted	Paul Horigan	9/11/23	Completed
9/19/23	18054	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Completed	Paul Horigan	9/11/23	Completed
9/19/23	17624	Fixed Gas Monitoring System	Quarterly Calibration Headworks room gas meters		Outside Contractor	6/7/23	Completed
9/20/23	17735	PS Onan Trailer mounted generator	Montly operational test run	Did not complete will complete with next PM	Paul Horigan	6/1/23	Completed
9/20/23	17610	Portable Generator - Honda	Portable Generator Inspection - Monthly	Did not complete will complete wiyh next PM	Paul Horigan	6/7/23	Completed
9/20/23	17879	PS Onan Trailer mounted generator	Quarterly Loaded test run	Didnotcomplete will complete with next PM	Paul Horigan	7/1/23	Completed
9/20/23	17701	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Did not complete will complete with next PM	Paul Horigan	6/26/23	Completed
9/20/23	17838	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test	Did not complete will complete with next PM	Paul Horigan	7/2/23	Completed
9/20/23	17839	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Did not complete will complete with next PM	Paul Horigan	7/10/23	Completed
9/20/23	17999	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test	Did not complete will complete with next PM	Paul Horigan	8/6/23	Completed
9/20/23	17842	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Did not complete will complete with next PM	Paul Horigan	7/31/23	Completed
9/20/23	17745	Portable Generator - Honda	Portable Generator Inspection - Monthly	Did not complete will complete with next PM	Paul Horigan	7/5/23	Completed
9/20/23	17840	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Did not complete will complete with next PM	Paul Horigan	7/17/23	Completed
9/20/23	17841	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Did not complete will complete with next PM	Paul Horigan	7/24/23	Completed
9/20/23	18000	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Did not complete will complete with next PM	Paul Horigan	8/14/23	Completed
9/20/23	17888	Portable Generator - Honda	Portable Generator Inspection - Monthly	Did not complete will complete with next PM	Paul Horigan	8/2/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
9/20/23	17902	Generator #1- Emergency Kohler 750	Generator #1 PM -Annual	Did not complete will complete with next PM	Paul Horigan	8/15/23	Completed
9/20/23	18001	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Did not complete will complete with next PM	Paul Horigan	8/21/23	Completed
9/20/23	18059	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Completed as requested	Paul Horigan	9/18/23	Completed
9/20/23	18055	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Completed as requested	Paul Horigan	9/18/23	Completed
9/20/23	18048	Portable Generator - Honda	Portable Generator Inspection - Monthly	Completed as requested	Paul Horigan	9/6/23	Completed
9/20/23	18326	PS Onan Trailer mounted generator	Quarterly Loaded test run	Completed	Paul Horigan	10/1/23	Completed
9/20/23	18061	Fixed Gas Monitoring System	Quarterly Calibration Headworks room gas meters		Outside Contractor	9/6/23	Completed
9/25/23	18014	Chlorine probe ATI	Change electrolyte		Joe Basler	8/1/23	Completed
9/25/23	18107	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/20/23	Completed
9/25/23	18111	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/20/23	Completed
9/25/23	18117	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/20/23	Completed
9/25/23	18127	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/20/23	Completed
9/25/23	18131	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/20/23	Completed
9/25/23	18121	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		SEMS TABLET #2	9/20/23	Completed
9/25/23	18003	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		Luis Bello	8/31/23	Completed
9/25/23	18004	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		Luis Bello	8/31/23	Completed
9/25/23	18005	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		Luis Bello	8/31/23	Completed
9/25/23	18007	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		Luis Bello	8/31/23	Completed
9/25/23	18006	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		Luis Bello	8/31/23	Wating for Parts
9/25/23	18011	GasAlert Max XTII #2	monthly calibration		Luis Bello	8/31/23	Wating for Parts
9/25/23	18136	GasAlert Max XTII #1	4 gas meter calibration - monthly		Luis Bello	9/1/23	Completed
9/25/23	18066	Mechanical Screen & Washpress System	Monthly Maintenance		Luis Bello	9/4/23	Completed
9/25/23	17767	Mechanical Screen & Washpress System	Monthly Maintenance		Luis Bello	7/3/23	Completed
9/25/23	17281	Mechanical Screen & Washpress System	Annual Maintenace		Luis Bello	4/3/23	Completed

Asset Management Accounts - Year 9							
		Actual to date			Projected for Final Estimate		
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta
09M-101A	Preventive Maint	\$242,712.26	\$76,005.47	\$166,706.79	\$114,140.00	\$190,145.47	\$52,566.79
09M-102B	Capital and Major Repairs	\$140,000.00	\$34,151.12	\$105,848.88	\$70,500.00	\$104,651.12	\$35,348.88
09M-103A	Major Sub Contractors	\$206,459.14	\$98,686.84	\$107,772.30	\$179,000.00	\$277,686.84	(\$71,227.70)
blank							
	<b>Asset Management</b>	<b>\$589,171.40</b>	<b>\$208,843.43</b>	<b>\$380,327.97</b>	<b>\$363,640.00</b>	<b>\$572,483.43</b>	<b>\$16,687.97</b>

\$380,327.97

Budget expended	Time Status	
	NOW=	11/8/2023
	Start	5/1/2020
31.3%	352.5%	321.2%
24.4%	352.5%	328.1%
47.8%	352.5%	304.7%
35.4%	352.5%	317.0%

09S	D Street	\$7,500.00	\$4,222.43	\$3,277.57	\$0.00	\$4,222.43	\$3,277.57
-----	----------	------------	------------	------------	--------	------------	------------

56.3%	352.5%	296.2%
-------	--------	--------

09C	Odor Control Chemicals	\$100,000.00	\$129,448.00	(\$29,448.00)	\$0.00	\$129,448.00	(\$29,448.00)
-----	------------------------	--------------	--------------	---------------	--------	--------------	---------------

129.4%	352.5%	223.0%
--------	--------	--------

\$350,879.97

Estimated total  
remaining 09M,  
09C (\$12,760.03)

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			<a href="#">11/8/2023 14:25</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Mechanical Work Labor by O&M specialists	Pending		101A	\$25,000.00			Placeholder for Jody St. George, Paul Horigan & WC Support Staff - Total budget \$25,000;
1	Pump and Motor Repairs/Replacements [invoiced and pcard]	Pending		101A	\$20,000.00			to keep existing equipment running - utilize various outside contractor repair shops, new purchases. orig budget \$20,000;
1	Lubricants	Pending		101A	\$1,000.00			Various Suppliers for oil and grease. Budgeted \$1000.
1	Generator Prev. Maintenance and Repairs	Pending		101A	\$21,698.61			Orig budget \$25,000. General PM and CM Repair Work - <b>Placeholder</b>
1	Fire Alarm Inspections and Service	Pending		101A	\$4,000.00			Original Budget \$4,000 - Semi Annual - Flight Alarm Co.Inspections, central station, and service calls
2	Universal waste disposal	Pending		101A	\$500.00			Placeholder - \$500
1	Service the Forklift	Pending		101A	\$400.00			Placeholder \$400 - Annual cost - outside vendor.
1	Overhead Hoist Inspection & repairs	Pending		101A	\$1,700.00			Annual task - Applied Dynamics - Inspection Work - due in spring/summer 2023
1	Flow meter verification and calibration	Pending		101A	\$1,200.00			Placeholder \$1,200 - Annual - Ray Ferland or other 1 visit annually -
1	Facility Building - Roof Inspection	Pending		101A	\$2,800.00			\$2800 Annual Placeholder - Established contract with Tecta America. Need for new proposal.
2	Jerome H2S Meter Inspection	Pending		102B	\$11,000.00			Placeholder if new meter is to be planned for. Factors for new meter replacement to be considered.
1	Janitorial Supplies	Pending		101A	\$3,000.00			Orig budget \$3,000 - Estimated annual expenditures
1	Manhole Inspections	Pending		101A				As required,and/or scheduled
2	General mechanical and electrical items/supplies	Pending		101A	\$20,000.00			Grainger, FWWebb, EJP,Hoadley, McMasterCarr, etc; orig budget \$20,000,
1	Thompson Pump repairs	Pending		101A				
2	Large Hoses & fittings	Pending		101A	\$3,000.00			Orig budget \$3,000. Replacements and/or Service - On-Going - As Needed.
1		Pending		102B				
3		Pending		101A				
		Pending		101A				

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			<a href="#">11/8/2023 14:25</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Lab Equip Calibration	Pending		101A	\$640.00			Annual service \$640
1		Pending		101A				
	Duperon Service Call	Pending		102B				recommended services per last visit, need repair report[s]
2		Pending		101A				
1		Pending		102B				
2	New Magnetic flow meters for RAS and WAS	Pending		102B	\$9,000.00			hardware - does not include installation [estimate for Equip - \$9,000] May or may not occur. Remove from planned projects for 09M.
2		Pending		102B				
1		Pending		102B				
1		Pending		102B				
1		Pending		102B				
3	Sanitaire hardware purchase for aer tk 1	Pending		102B				Purchase more hardware ??
1		Pending		102B				
2		Pending		102B				
2	Pump Station #3 - spare rotating, assy, or pump	Pending		102B				TBD- estimates being obtained
3	New 4-inch valves or 6-inch valves for pri building between the tanks & Installation	Pending		102B				Valves - cost: \$3000, sub-contracted labor - either WC or outside co.\$5,000 - <b>totl estim \$8,000</b>
3	Odor log data loggers & calibr kit	Pending		102B				if funds avail
3		Pending		102B				
3	Gravity Thickener #1 sandblasting/painting	Pending		102B				Estimate \$50,000+ - would need to go out for competitive bid request



Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			<a href="#">11/8/2023 14:25</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
2		Pending		102B				
1	Grit classifier system parts	Pending		102B	\$4,500.00			Plan for additional tail shaft assy and housing & bushings. Pricing out items/costs by various vendors incl Mfr. 3/16 update - recommendations provided for spare parts
	Plant Water System [Pump and/or parts]	Pending		102B	\$6,000.00			consider spare motor or complete unit. Under review/hold [est \$6,000].
1		Pending		102B				
1	Electrical Work	Pending		103A	\$35,000.00			Orig budget \$35,000. Electricians: Glen Fellows, HiVoltage, or other;
1	SCADA Work - service calls, etc	Pending		103A	\$6,000.00			Steve Rose and the SCADA Support Team; budget \$6,000;
1	E-One Repairs and Replacement	Pending		103A	\$65,000.00			Orig budget: \$65,000. Based on historica/recent costs.
1	Automatic Transfer Switch inspection and servicing	Pending		101A	\$2,400.00			\$2400 - Annual Service planned for NETS - Transfer Switch
1	Wetwell Inspections and Cleaning - Plant/Pump Stations	Pending		103A	\$8,000.00			As required, plant or pump stations; orig budget \$8,000;
1	Sewer Line Cleaning - Emergencies, pump & haul	Pending		103A	\$10,000.00			Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, or other, collection system & plant; budget \$10,000
1	Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors	Pending		103A	\$15,000.00			Budget - 15,000, Plan to be developed
1		Pending		102B				
3		Pending		103A				
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 ??. For consideration with outside contractor
4	Generators - Load Bank Testing Plant & Pump Stations	Pending		103A				Look at 09M -last done under 06M. SSGen - review cost estimates.
1	Generators and portable pumps - Annual repairs	Pending		103A	\$20,000.00			SSGen - \$20,000
1	MCC work at the Pump Stations & IR scan for plant and pumps	Pending		103A				Review recent propsal and develop plan
3	Low pressure sewer valve box insp & mtce	Pending		103A				placeholder for contractor O&M inspections and potential repairs; Looking at Rosano-Davis or another contractor & W&C to investigate;come up with plan to rempve covers and inspect
1	Grit screw installation	Pending		102B	\$40,000.00			\$40,000 placeholder installation.

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			<a href="#">11/8/2023 14:25</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1		Pending		102B				
1		Pending		101A				
	HDWK fiberglass slide gate	Pending		101A	\$3,500.00			Soliciting estimates for at least one new slide gate. Placeholder [Jan 2023] \$3,000; Adjust estimate up to \$3,500 for one gate. No orders placed yet. 3/16 [AV]
1	SC #1 Structural Steel Repairs	Pending		103A	\$20,000.00			Based on T&M - center supports, scrapers, other - IPC Lydon.
TOTAL					\$360,338.61			