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COMMITMENT & INTEGRITY DRIVE RESULTS

# HULL WATER POLLUTION CONTROL FACILITY

APRIL  
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 April 2023.**

- No lost-time incidents for the month of April.
- Continuing Covid-19 awareness- adhering to W&C, Town of Hull, and CDC guidelines and sharing any protocol updates.
- There were 152 effluent samples taken in April.
- There were no after-hours alarm calls that required a response by W&C staff.
- The Asset Management Accounts summaries for contract year #8 is attached- the latest revision date is 4/1/2023.
- There were no 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 BioBot 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***

***5/31//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



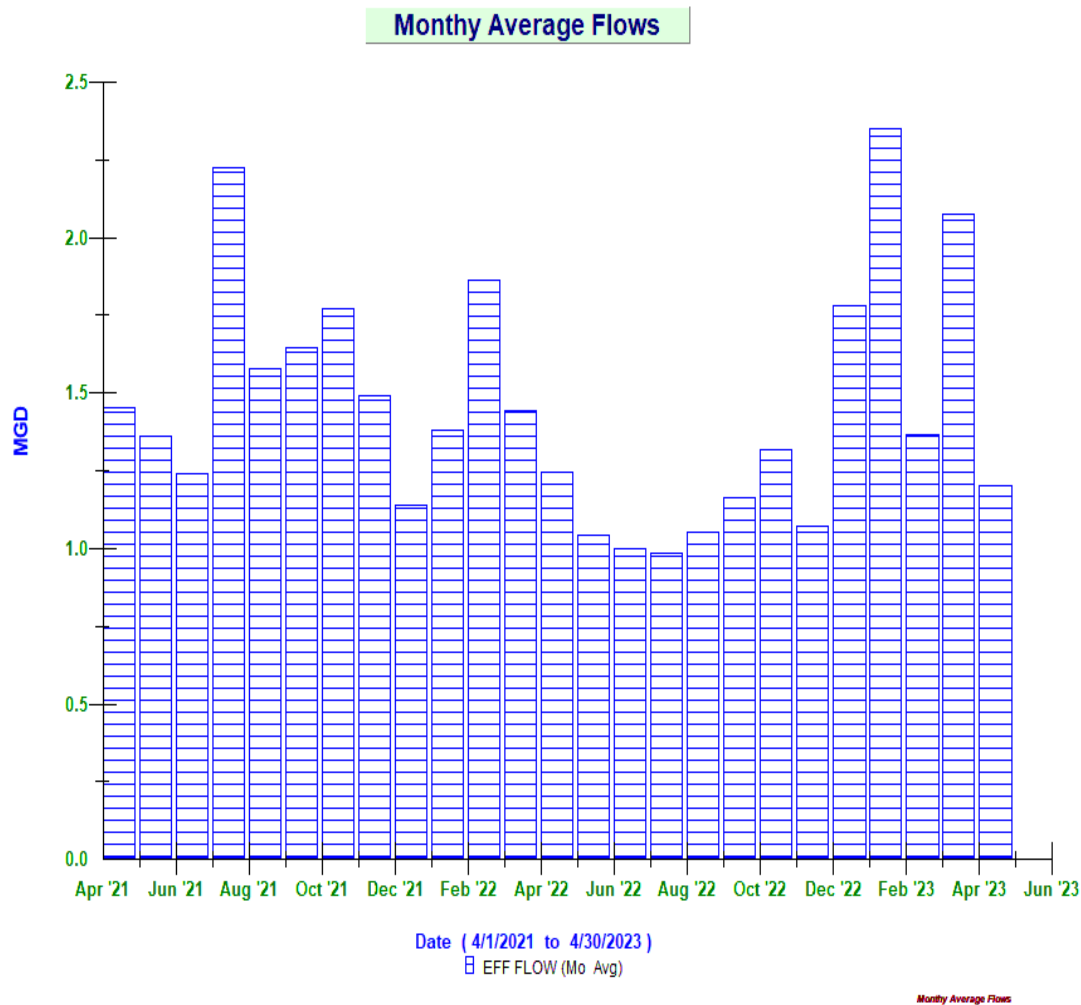
### Average Daily Flows and Loadings for *April 2023*

Month / Year	Eff Flow	Inf Flow	Inf BOD	Inf TSS	Eff BOD	EFF TSS
	MGD	MDG	LBS	LBS	LBS	LBS
Apr '21	1.45	1.67	1,795.81	2,244.69	60.18	128.84
Apr '22	1.24	1.33	1,542.90	1,703.70	36.49	54.90
Apr '23	1.20	1.29	1,331.06	1,722.52	64.65	94.73

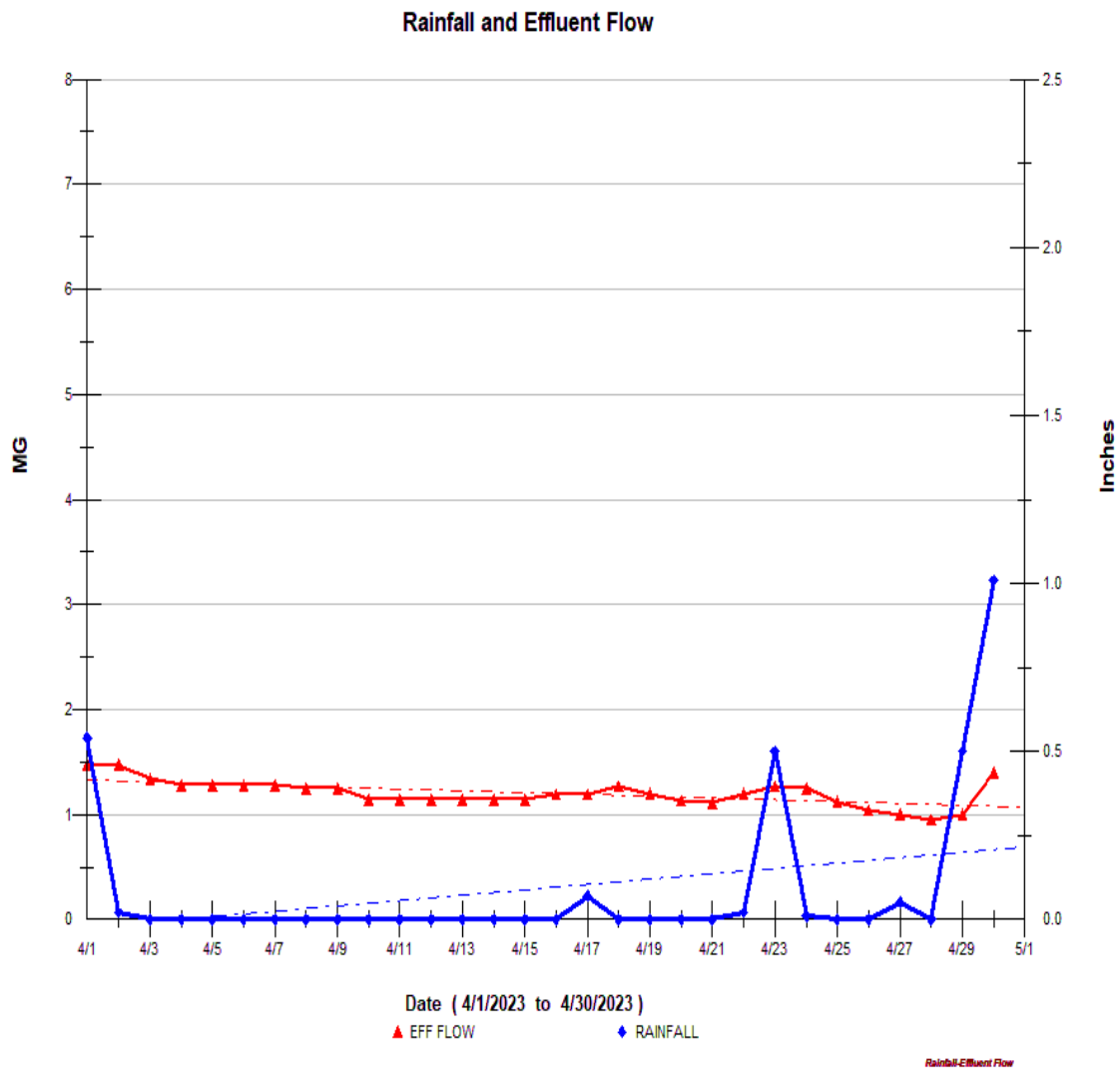
\* On-Going -the existing influent flow meters are strap-on doppler flow meters, and the existing pipe condition prevents getting a strong signal. An area velocity meter in the aeration tank inlet channel is used as well as the headworks influent Parshall Flume meter to monitor influent flows. All reported 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 April was 1.20 MGD, a bit less than the 2.07 MGD seen in March. The total precipitation for April was 3.90 inches, much less than March’s 6.77 inches, 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



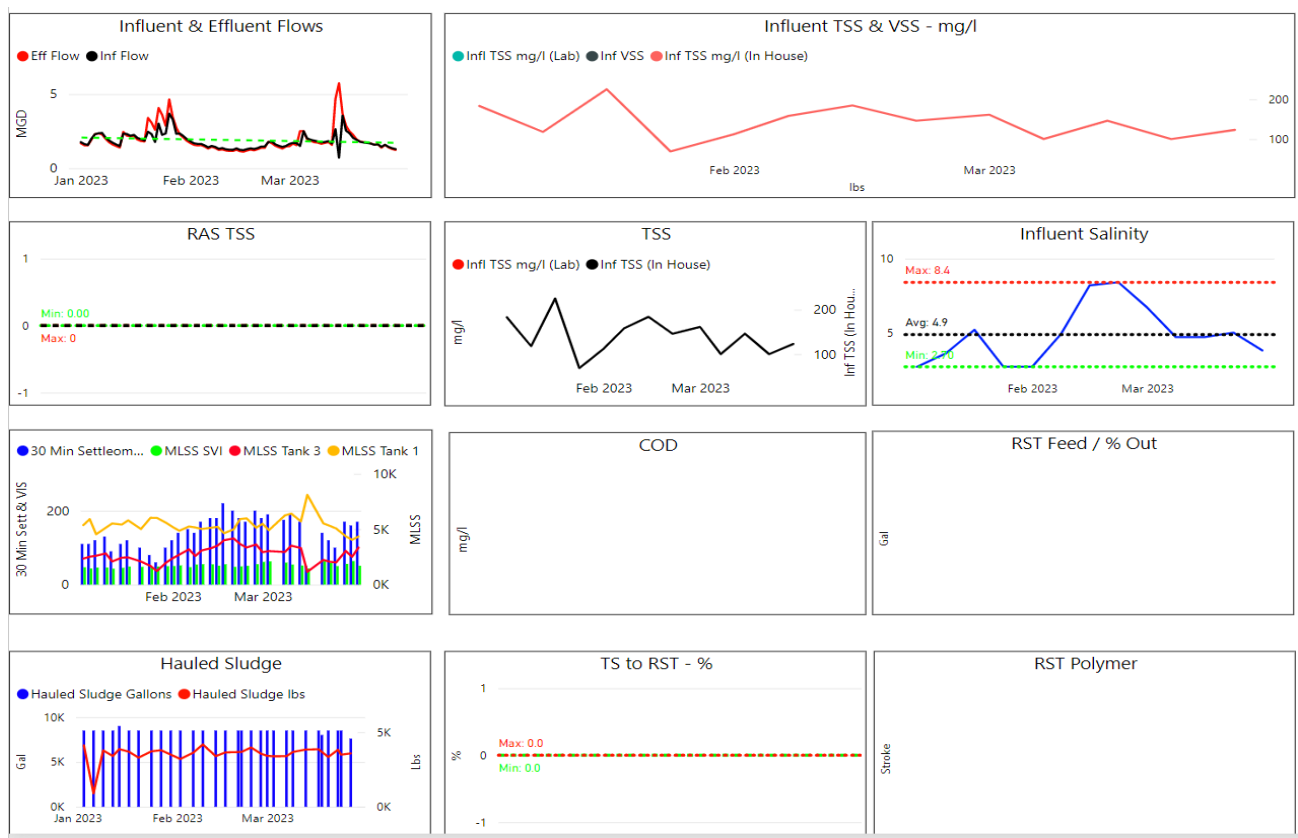
**This graph shows the days where precipitation occurred [rainfall] [Blue Peaks].**

# 3 COMPLIANCE



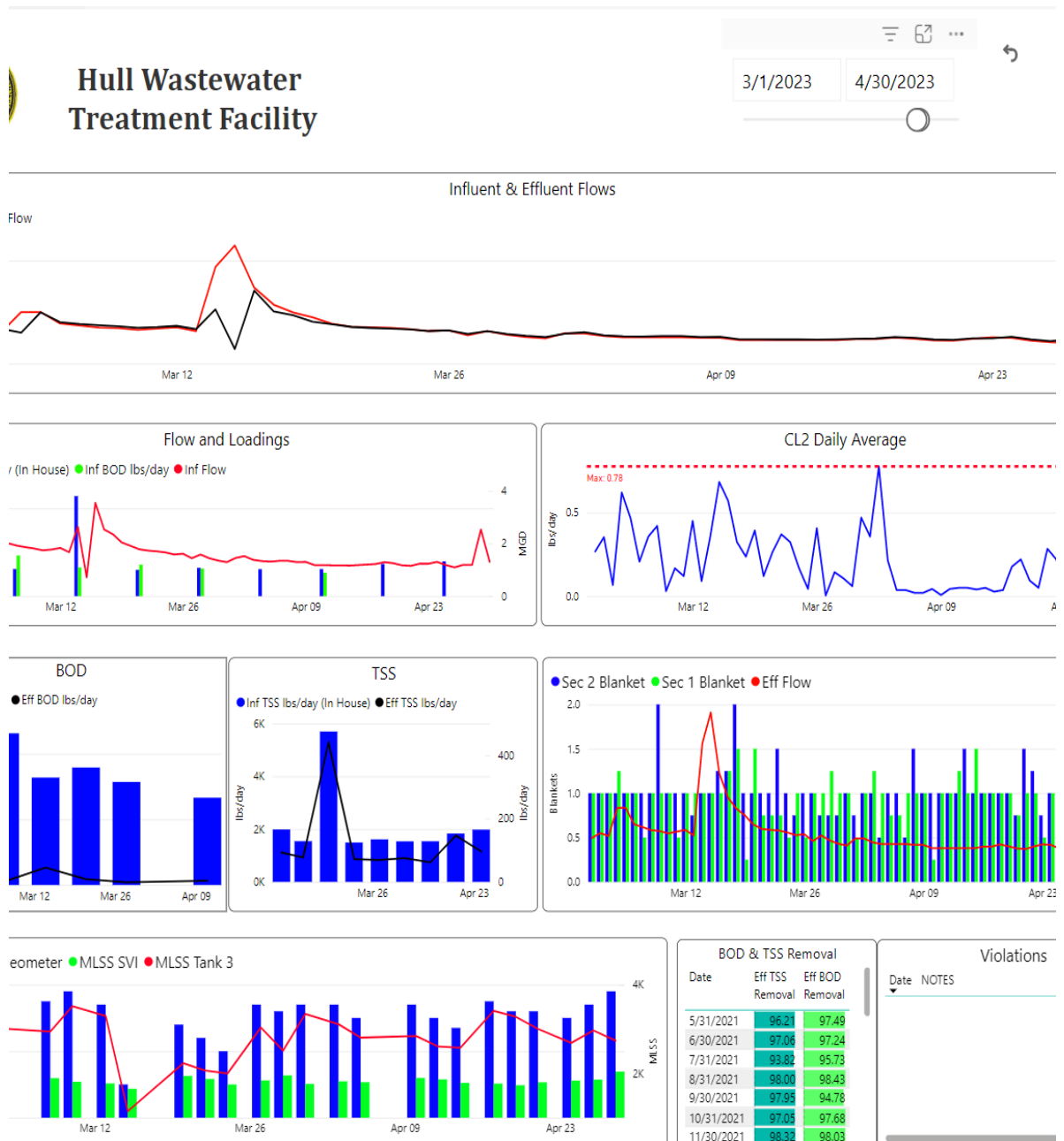
## ➤ Plant Effluent

- The plant process conditions through March were steady.



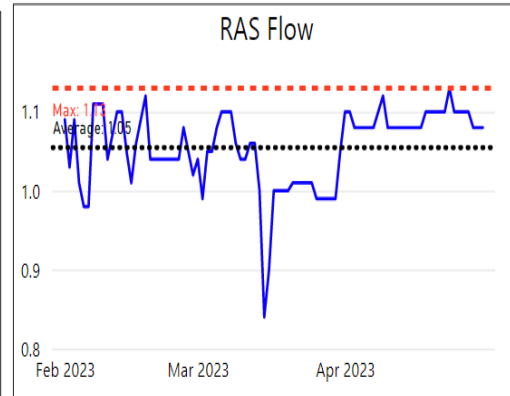
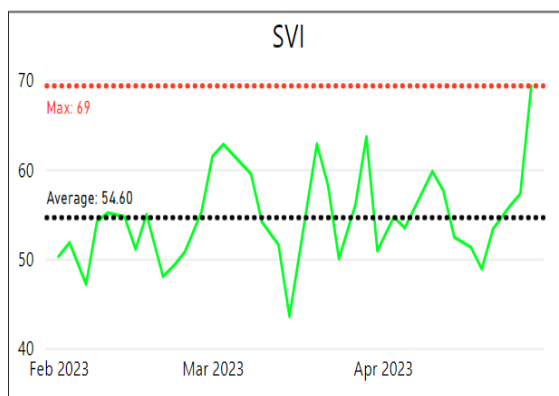
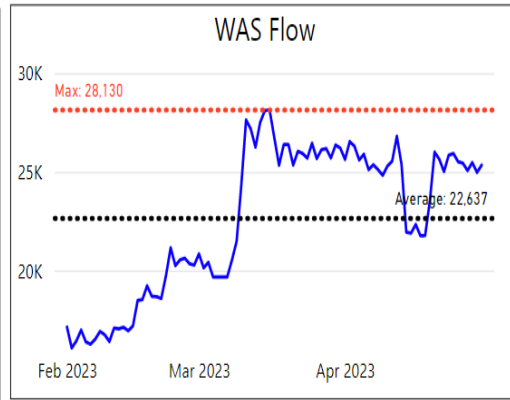
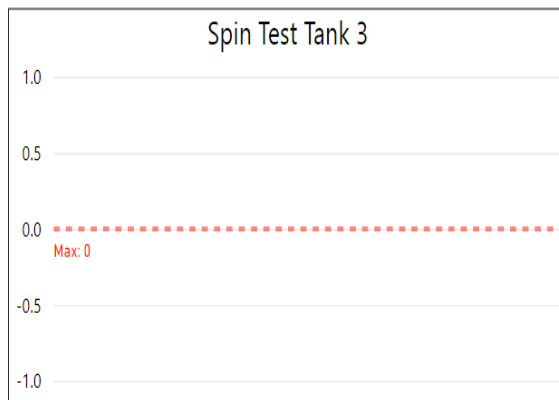
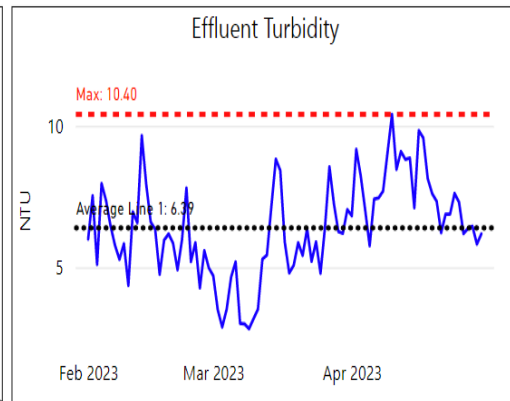
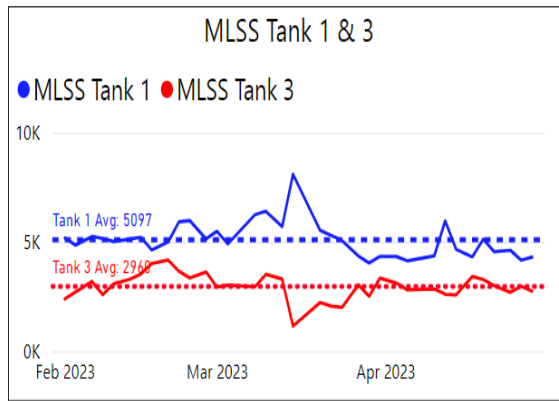
Monthly Process Summary graphs from power BI: February-March-April 2023

## ➤ SECONDARY PROCESSES – POWER BI GRAPHS



2-month period ending on 4/30/2023.





**Additional Power BI Graphs showing trends of various processes – 2/1/2023- 4/30/2023.**

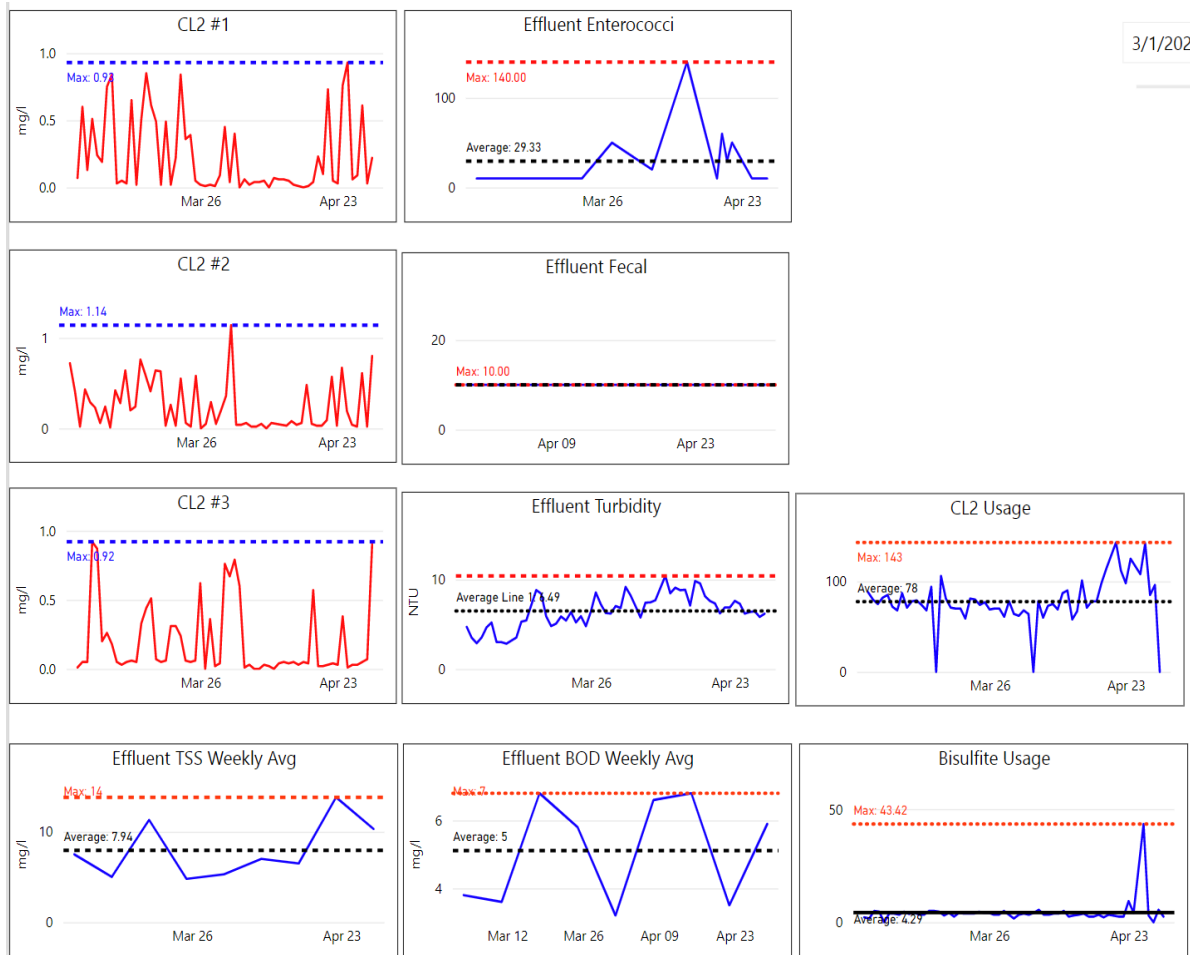
## 4 KEY PERFORMANCE INDICATORS



<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	7.7	6.3	10.0	5	0
Eff TSS	184	LBS			1152	768	1 X Week	68.4	54.6	85.4	5	0
% TSS Rem	208	%		85			1 X Month	96.1			1	0
Eff BOD	108	MG/L	50		45	30	1 X Week	3.3	3.0	3.9	5	0
Eff BOD	185	LBS			1152	768	1 X Week	29.3	24.0	33.2	5	0
% BOD Rem	207	%		85			1 X Month	97.7			1	0
Eff Chlorine	142	MG/L	1			0.7	3 X Day	0.08	0.00	0.33	93	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			1 X Daily	6.7	6.5	6.9	31	0
Enterococci	255	#/100 ML	276			35	1 X Week	10	10	10	4	0

There were 152 effluent samples taken in April.

## ➤ EFFLUENT COMPLIANCE POWER BI GRAPHS



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

### Sewage Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
April 2021	43.6	123,000
April 2022	37.3	129,000
April 2023	30.1	102,000

➤ **Additional Power BI graphs for sludge solids for 3-month period ending 4/30/2023.**



The Bioxide system was on, but the feed rates were minimal, as normal seasonal temperatures were cooler. Monthly graphs are attached below, and the daily average Bioxide use for March was about 30 gallons per day.

- The “In-Pipe” bacteria containers in the collection system manholes were changed out on April 2<sup>nd</sup> and 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:



## XYZ – Nantasket Ave [closest to plant]

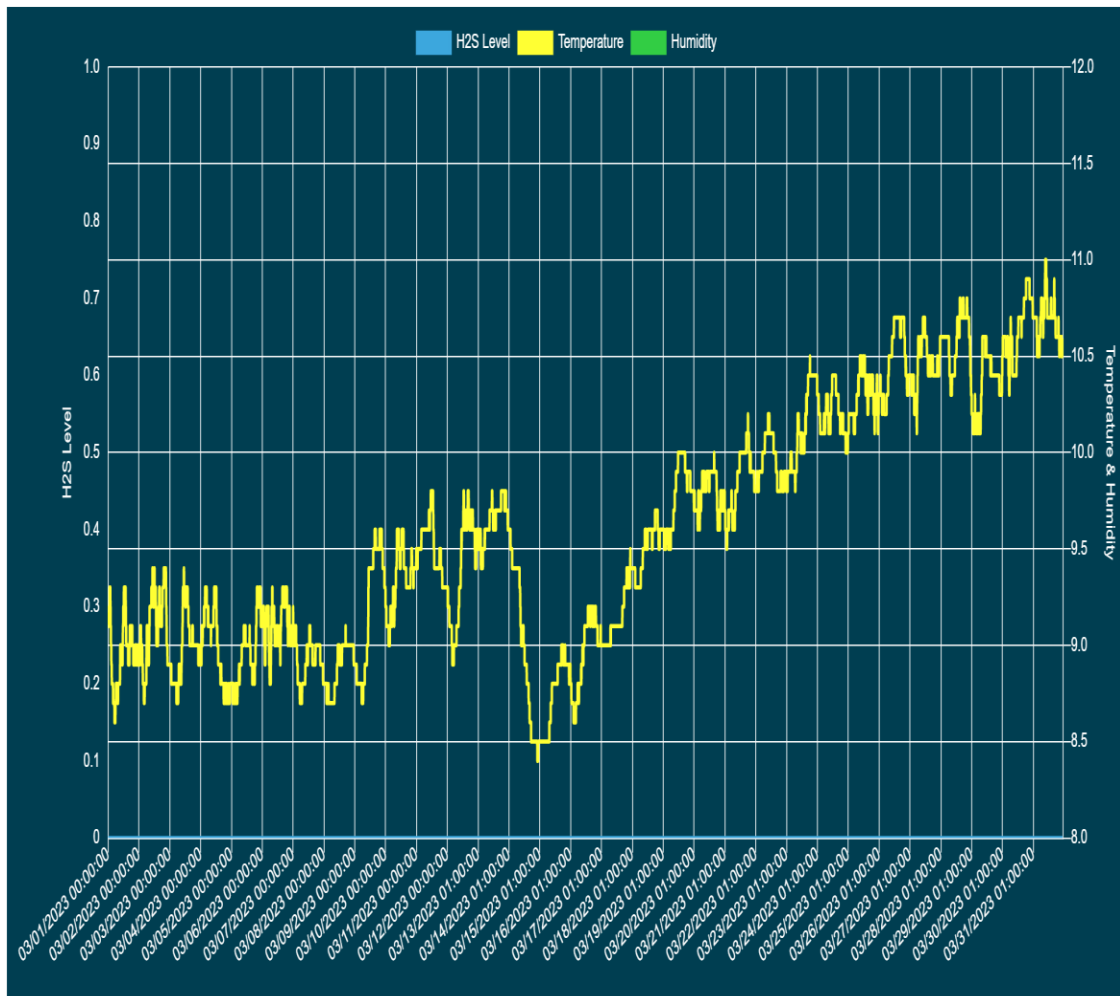
Start Date\*

03/01/2023 00:00:00

End Date\*

03/31/2023 23:59:59

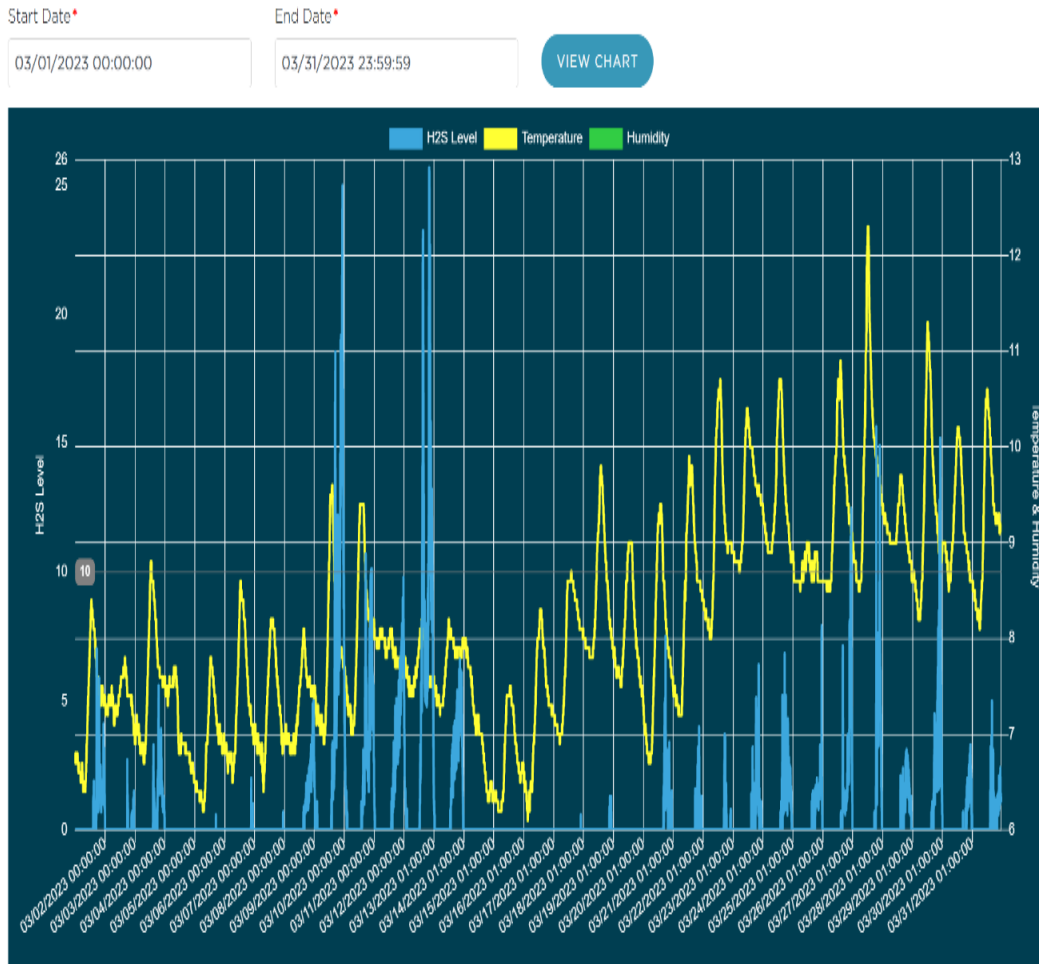
[VIEW CHART](#)



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 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 March were minimal with generally mild temps for wintertime, and adjustments for substantially less Bioxide feed were made. The average daily use of Bioxide in the collection system through April was 45 gallons per day.



Nantasket Ave

# 5 MAINTENANCE SUMMARY

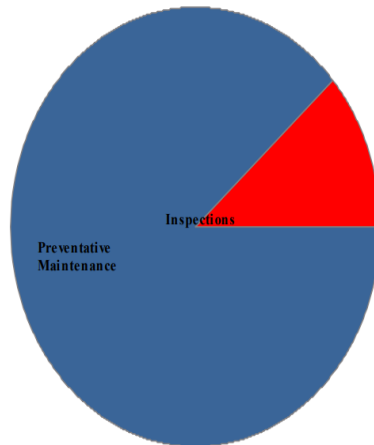


## Maintenance History Report Hull Wastewater

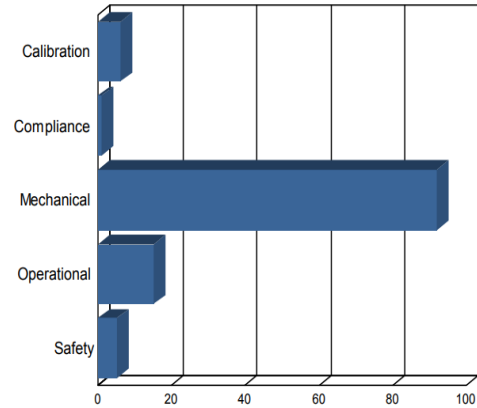
Start Date: 4/1/2023  
End Date: 4/30/2023

Inspections	14
Preventative Maintenance	105
<b>Total Work Orders</b>	<b>119</b>

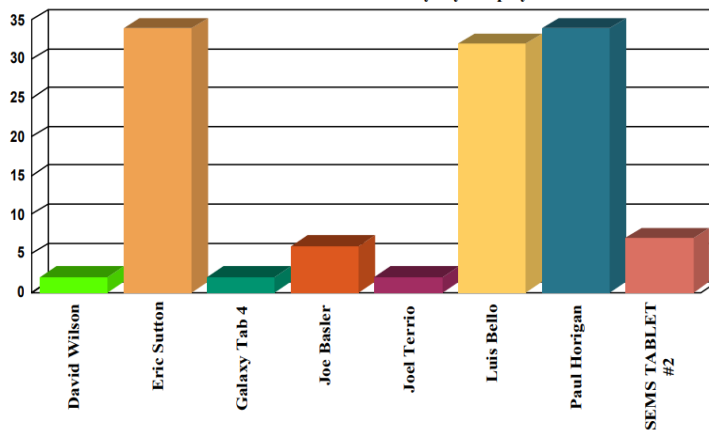
Work Order History By Type



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
David Wilson	2	2
Eric Sutton	34	17
Galaxy Tab 4	2	1
Joe Basler	6	3
Joel Terrio	2	0
Luis Bello	32	12
Paul Horigan	34	33
SEMS TABLET #2	7	6
<b>Totals</b>	<b>119</b>	<b>73</b>



## 6 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 April.
- 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 April was back safety & injury prevention.
- The monthly W&C SPARKS safety meeting was held on April 26, including a review of W&C's monthly "Lessons Learned!"
- W&C's monthly safety inspection checklist for the plant was completed.
- In April the site-wide chemical inventory list was updated. This is one of several tasks assigned annually by W&C's Safety Management group as part of Operations & Maintenance.

## 7 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 April 26. Topics discussed were forklift operation, sitework trenching, and guarding floor & wall openings on the jobsite. Staff also reviewed the "near-miss" incidents occurring at all W&C projects during the month of March in "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, Joe B, Luis B, Eric S, and Joel T.
- O&M Specialists Paul Horigan and Jody St George continue to assist as needed with plant O&M projects.
- Sadly, mechanic David Wilson has left W&C for another position that is better suited for him and his family.
- On March 5 & 12 Eric Sutton & Luis Bello each took some wastewater license renewal required TCH classes online through NEIPCC in order to maintain their licenses. The NEIPCC 2-year license renewal is due by 12/31/2023 and is for good for the next two years.

## 8 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 no calls for E-One Grinder pump service– see UC summary.

There were 2 sewer backup calls from residents, one April 14 at 27 Prospect Street, which required the homeowner to call in a plumber. On April 10 the other sewer back up call came in from 173 Spring Street, a troublesome area of the collection system. W&C staff opened the nearby manhole and discovered a large pile of flushable cleaning wipes and other debris blocking the flow. The manhole was cleaned out and a normal flow resumed. Some 540 feet of the sewer line was jetted clean by Rosano-Davis. Thereafter W&C staff viewed the line via TV camera and discovered a large blockage of grease and rags contributing to the flow problem- it was removed.

- Pump station back-up power emergency generator testing- consisting of weekly no load running and a monthly loaded running.
- All Pump station wet wells were inspected in April- these 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.



## 9 PROJECT MANAGEMENT & ADMINISTRATION



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

#### **April updates:**

- Phase 1 construction work in the operations building is nearly complete with just some minor punch list tasks being addressed. Phase 2 lead contractor Barletta Engineering of Canton, MA has been onsite periodically and is gearing up for working in May.
- Plant Manager Mike S. and Assistant Plant Manager Joe B. continue to meet weekly with John S. and Brian K. to discuss the Hull Sewer Department operations, any treatment plant issues, the collection system maintenance, and any upcoming projects.

<b>Date</b>	<b>Asset ID</b>	<b>Asset Description</b>	<b>Asset Class</b>	<b>Name</b>
4/24/2023 8:42	03-018	94 MAIN ST	Hull Parcels	Sutton, Eric
4/25/2023 12:05	03-030	9 WILLOW STREET	Hull Parcels	Sutton, Eric
4/10/2023 14:19	03-034	173 SPRING ST	Hull Parcels	Sutton, Eric
4/14/2023 8:17	04-060	18 NEWTON ST	Hull Parcels	Sutton, Eric
4/11/2023 10:27	05-029	1 VAUTRINOT AVE	Hull Parcels	Sutton, Eric
4/19/2023 8:22	05-030	3 VAUTRINOT AVE	Hull Parcels	Sutton, Eric
4/5/2023 14:03	05-077	71 HIGHLAND AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:59	06-055	127 SPRING ST	Hull Parcels	Sutton, Eric
4/6/2023 13:57	11-060	5 BEACON RD	Hull Parcels	Sutton, Eric
4/25/2023 12:06	12-007	36 STANDISH AVE	Hull Parcels	Sutton, Eric
4/19/2023 13:18	13-008	18 U STREET	Hull Parcels	Sutton, Eric
4/24/2023 8:52	13-152	18 Q STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:15	14-028	62 CENTRAL AVE	Hull Parcels	Sutton, Eric
4/11/2023 12:25	14-029	35 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:31	14-030	37 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:40	15-001	39 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:52	15-002	41 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:55	15-003	43 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:01	15-004	45 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:12	15-005	47 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:20	15-006	49 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:38	15-007	51 H STREET	Hull Parcels	Sutton, Eric
4/4/2023 13:52	15-075	59 J STREET	Hull Parcels	Sutton, Eric
4/14/2023 11:08	15-196	40 P STREET	Hull Parcels	Sutton, Eric
4/11/2023 11:05	16-037	49 CENTRAL AVE	Hull Parcels	Sutton, Eric
4/11/2023 11:07	16-039-A	53 CENTRAL AVE	Hull Parcels	Sutton, Eric
4/11/2023 13:14	16-140	48 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:05	16-141	46 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:58	16-142	44 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:48	16-143	42 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:43	16-144-A	40 A H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:32	16-145	40 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:27	16-146	36 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:18	16-147	34 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 12:21	16-147	34 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 11:17	16-148	56 CENTRAL AVE	Hull Parcels	Sutton, Eric
4/11/2023 11:20	16-149	54 CENTRAL AVE	Hull Parcels	Sutton, Eric
4/11/2023 11:22	16-150	50 CENTRAL AVE	Hull Parcels	Sutton, Eric
4/24/2023 11:28	16-176	47 F STREET	Hull Parcels	Sutton, Eric
4/25/2023 12:18	17-139	51 F STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:23	17-171	52 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:17	17-172	50 H STREET	Hull Parcels	Sutton, Eric
4/11/2023 13:20	17-172	50 H STREET	Hull Parcels	Sutton, Eric



4/13/2023 11:29 18-104	5 PROSPECT AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:07 18-104-A	3 PROSPECT AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:25 18-105	7 PROSPECT AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:28 18-118	6 PROSPECT AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:32 18-120	4 PROSPECT AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:34 18-121	2 PROSPECT AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:02 18-122	48 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/13/2023 10:56 18-123	46 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 14:31 18-126	41 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/13/2023 10:52 18-127	43 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/13/2023 10:59 18-129	47 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:10 18-133	61 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:13 18-134	63 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/14/2023 14:45 20-071	0 VETERANS RD	Hull Parcels	Sutton, Eric
4/13/2023 10:52 20-095	40 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 14:00 20-116	6 ELM STREET	Hull Parcels	Sutton, Eric
4/12/2023 12:56 20-118	28 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 13:31 20-121	26 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 13:30 20-122	24 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 13:29 20-123	20 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 13:28 20-124	18 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 14:22 20-126	25 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 14:19 20-127	23 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 14:16 20-128	21 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/11/2023 13:58 20-130	4 CIRCUIT AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:16 20-132	29 MILFORD ST	Hull Parcels	Sutton, Eric
4/11/2023 13:52 20-133	31 CIRCUIT AVE	Hull Parcels	Sutton, Eric
4/12/2023 12:58 20-140	17 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 13:26 20-142	1 HULLPORTSIDE ST	Hull Parcels	Sutton, Eric
4/12/2023 13:25 20-143	15 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/12/2023 13:24 20-146	11 HALVORSEN AVE	Hull Parcels	Sutton, Eric
4/28/2023 11:43 21-012	160 SAMOSET AVE	Hull Parcels	Sutton, Eric
4/21/2023 11:25 21-067	105 MANOMET AVE	Hull Parcels	Sutton, Eric
4/25/2023 12:27 21-072	117 MANOMET AVE	Hull Parcels	Sutton, Eric
4/5/2023 14:07 22-170	91 TOURAINE AVE	Hull Parcels	Sutton, Eric
4/13/2023 13:41 23-136	88 MANOMET AVE	Hull Parcels	Sutton, Eric
4/21/2023 11:26 25-119	52 A SAMOSET AVE	Hull Parcels	Sutton, Eric
4/24/2023 8:53 25-119	52 A SAMOSET AVE	Hull Parcels	Sutton, Eric
4/19/2023 8:47 26-014	59 BATES ST	Hull Parcels	Sutton, Eric
4/19/2023 8:44 26-161-A	88 KENBERMA ST	Hull Parcels	Sutton, Eric
4/19/2023 9:03 27-121	15 EDGEWATER RD	Hull Parcels	Sutton, Eric
4/4/2023 11:34 27-138	15 WHITEHEAD AVE	Hull Parcels	Sutton, Eric
4/28/2023 11:56 29-055	1 SECOND ST	Hull Parcels	Sutton, Eric
4/14/2023 7:20 33-104	115 BAY STREET	Hull Parcels	Sutton, Eric



4/13/2023 11:55 34-036	25 HILLSIDE RD	Hull Parcels	Sutton, Eric
4/28/2023 11:10 36-006	48 BAY STREET	Hull Parcels	Sutton, Eric
4/28/2023 10:57 36-013	35 BAY STREET	Hull Parcels	Sutton, Eric
4/28/2023 11:11 36-013	35 BAY STREET	Hull Parcels	Sutton, Eric
4/4/2023 11:32 36-028	1 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
4/28/2023 11:24 36-082	7 STANDISH RD	Hull Parcels	Sutton, Eric
4/6/2023 8:40 36-111	20 STANDISH RD	Hull Parcels	Sutton, Eric
4/4/2023 11:19 37-003	193 NANTASKET AVE	Hull Parcels	Sutton, Eric
4/4/2023 11:13 39-900	121 NANTASKET AVE	Hull Parcels	Sutton, Eric
4/28/2023 10:34 45-054	8 ONSET STREET	Hull Parcels	Sutton, Eric
4/11/2023 10:48 48-013	23 STATE PARK RD	Hull Parcels	Sutton, Eric
4/4/2023 11:01 49-045	277 ATLANTIC AVE	Hull Parcels	Sutton, Eric
4/4/2023 11:05 49-078	248 ATLANTIC AVE	Hull Parcels	Sutton, Eric
4/28/2023 10:16 49-078	248 ATLANTIC AVE	Hull Parcels	Sutton, Eric
4/28/2023 10:07 51-011	211 ATLANTIC AVE	Hull Parcels	Sutton, Eric
4/11/2023 10:42 51-068	38 VALLEY BEACH AVE	Hull Parcels	Sutton, Eric
4/25/2023 12:36 51-076	12 MAPLE LANE	Hull Parcels	Sutton, Eric
4/11/2023 10:45 51-078	8 MAPLE LANE	Hull Parcels	Sutton, Eric
4/5/2023 10:41 52-032	25 GUN ROCK AVE	Hull Parcels	Sutton, Eric
4/4/2023 11:07 53-046	104 ATLANTIC AVE	Hull Parcels	Sutton, Eric
4/13/2023 11:56 54-022	20 SUMMIT AVE	Hull Parcels	Sutton, Eric
4/25/2023 12:38 54-022	20 SUMMIT AVE	Hull Parcels	Sutton, Eric
4/19/2023 8:28 56-037	1153 NANTASKET AVE	Hull Parcels	Sutton, Eric
4/10/2023 14:24 61 Barnstable St	61 Barnstable St Grinder Pump	Hull Grinder Pumps	Sutton, Eric
4/21/2023 9:28 Bateria UNIT #21	UNIT #21	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:31 Bateria UNIT #22	UNIT #22	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:22 Bateria UNIT # 8	UNIT # 8	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:19 Bateria UNIT #1	UNIT #1	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:23 Bateria UNIT #10	UNIT #10	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:26 Bateria UNIT #11	UNIT #11	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:30 Bateria UNIT #12	UNIT #12	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:29 Bateria UNIT #13	UNIT #13	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:27 Bateria UNIT #14	UNIT #14	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:28 Bateria UNIT #15	UNIT #15	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:27 Bateria UNIT #16	UNIT #16	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:23 Bateria UNIT #17	UNIT #17	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:25 Bateria UNIT #18	UNIT #18	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:25 Bateria UNIT #19	UNIT #19	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:20 Bateria UNIT #2	UNIT #2	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:26 Bateria UNIT #20	UNIT #20	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:30 Bateria UNIT #23	UNIT #23	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:19 Bateria UNIT #24	UNIT #24	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 9:24 Bateria UNIT #3	UNIT #3	Hull In Pipe Bateria Unit	Sutton, Eric
4/21/2023 8:54 Bateria UNIT #4	UNIT #4	Hull In Pipe Bateria Unit	Sutton, Eric

4/21/2023 9:21 Bateria UNIT #5	UNIT #5
4/21/2023 9:20 Bateria UNIT #6	UNIT #6
4/21/2023 9:21 Bateria UNIT #7	UNIT #7
4/21/2023 9:32 Bateria UNIT #9	UNIT #9
4/6/2023 13:54 MH-20005	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
Sanitary Manhole	Sutton, Eric

[illegible]

[illegible]

[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>
Generic WO	<a href="#">View</a>



# Maintenance History Report

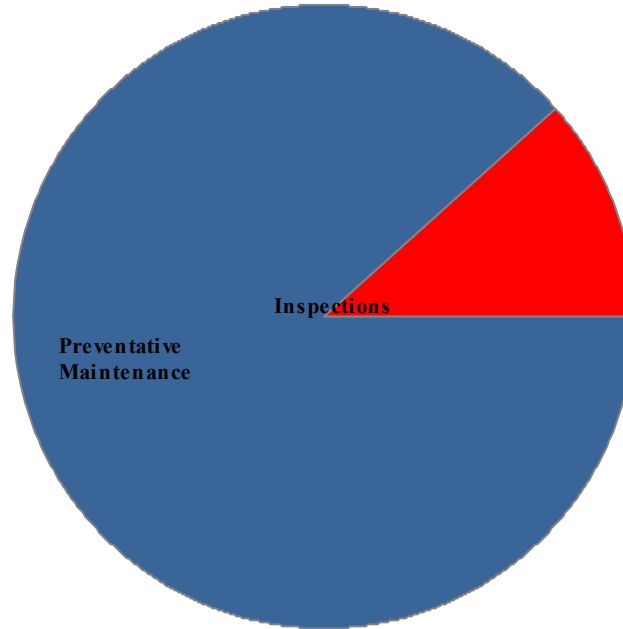
## Hull Wastewater

Start Date: 4/1/2023

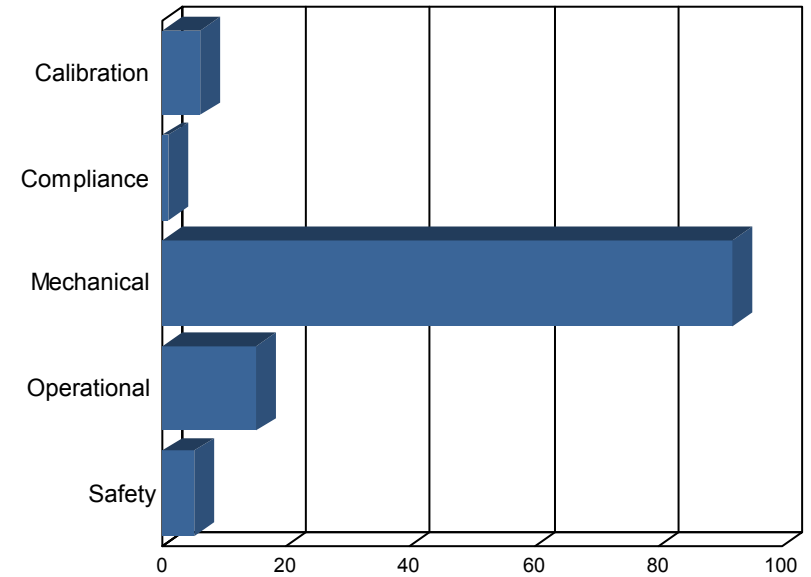
End Date: 4/30/2023

### Work Order History By Type

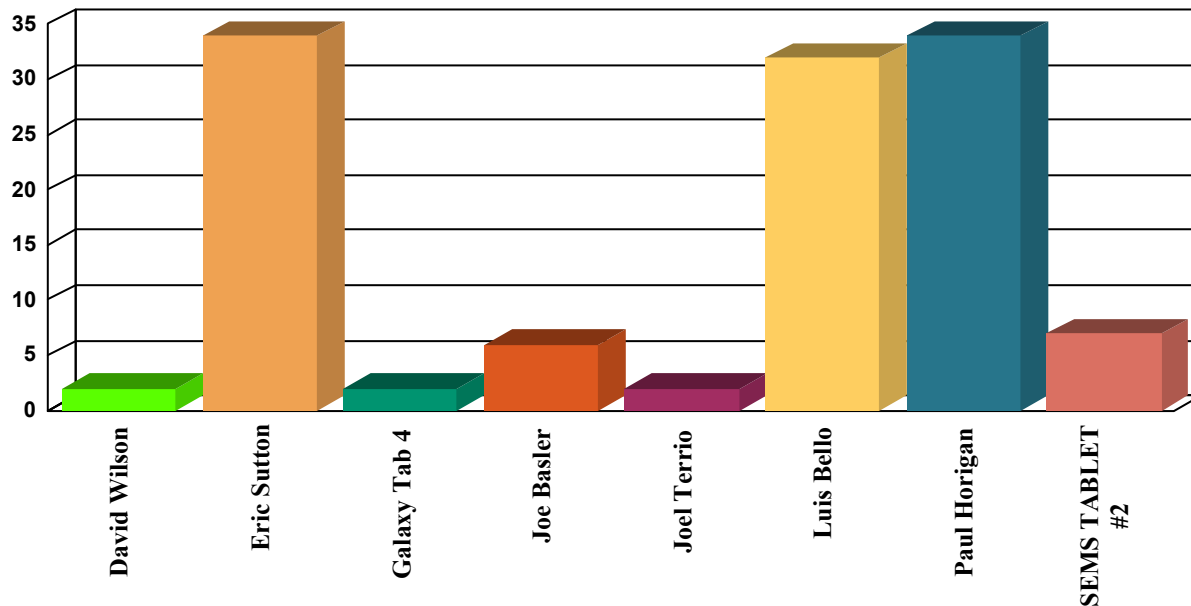
Inspections	14
Preventative Maintenance	105
Total Work Orders	119



### Work Order History by Reason



### Work Order History By Employee



Employee	WO Count	Labor Hours
David Wilson	2	2
Eric Sutton	34	17
Galaxy Tab 4	2	1
Joe Basler	6	3
Joel Terrio	2	0
Luis Bello	32	12
Paul Horigan	34	33
SEMS TABLET #2	7	6
Totals	119	73

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
4/3/23	17373	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		Eric Sutton	4/3/23	Completed
4/7/23	17742	Truck 3 - 2015 Chevy 3500 HD	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.	Galaxy Tab 4	4/7/23	Completed
4/7/23	17743	Truck 2 - 2009 Chevy 2500 HD	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.	Galaxy Tab 4	4/7/23	Completed
4/7/23	17589	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		Luis Bello	4/3/23	Waiting for Parts
4/7/23	17583	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		SEMS TABLET #2	4/3/23	Completed
4/7/23	17264	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		Luis Bello	4/12/23	Completed
4/11/23	17398	Blower Room Exhaust Fan 1	Monthly operational inspection	Completed as requested	Paul Horigan	4/1/23	Completed
4/11/23	17399	Blower Room Exhaust Fan 2	Monthly operational inspection	Completed as requested	Paul Horigan	4/1/23	Completed
4/11/23	17589	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms	Dispatched To 6032936642	SEMS TABLET #2	4/3/23	Waiting for Parts
4/18/23	17397	Blower Room Exhaust Fan 1	Monthly inspection	completed as requested	Paul Horigan	4/1/23	Completed
4/24/23	17382	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks		David Wilson	4/1/23	Completed
4/26/23	17312	PS 9	PS #9 Inspection - Monthly		SEMS TABLET #2	4/6/23	Completed
4/28/23	17574	Blower Room Exhaust Fan 1	Monthly operational inspection		Paul Horigan	5/1/23	Completed
4/28/23	17575	Blower Room Exhaust Fan 2	Monthly operational inspection		Paul Horigan	5/1/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
4/3/23	17314	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		Eric Sutton	4/5/23	Completed
4/3/23	17315	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Eric Sutton	4/5/23	Completed
4/3/23	17319	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Eric Sutton	4/5/23	Completed
4/3/23	17323	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		Eric Sutton	4/5/23	Completed
4/3/23	17324	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		Eric Sutton	4/5/23	Completed
4/3/23	17325	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	4/5/23	Completed
4/3/23	17329	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	4/5/23	Completed
4/3/23	17333	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		Eric Sutton	4/5/23	Completed
4/3/23	17343	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		Eric Sutton	4/5/23	Completed
4/3/23	17339	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Eric Sutton	4/5/23	Completed
4/3/23	17351	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		Eric Sutton	4/2/23	Completed



## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
4/3/23	17334	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly	%	Eric Sutton	4/5/23	Completed
4/3/23	17335	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Eric Sutton	4/5/23	Completed
4/3/23	17395	PS Onan Trailer mounted generator	Montly operational test run		Eric Sutton	4/1/23	Completed
4/3/23	17389	Generators "All Pump Station"	Generator - Monthly Load Test		Eric Sutton	4/2/23	Completed
4/6/23	17276	Influent Sluice Isolation Gate	Weekly operate through full range		Luis Bello	4/5/23	Completed
4/6/23	17375	High level floats	Weekly High Float Alarm test		Joe Basler	4/2/23	Completed
4/6/23	17390	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	4/2/23	Completed
4/6/23	17306	Sludge Transfer Pump 2	Monthly Check Pump Couplings		Luis Bello	4/5/23	Completed
4/7/23	17585	Portable Generator - Honda	Portable Generator Inspection - Monthly		Luis Bello	4/5/23	Completed
4/7/23	17375	High level floats	Weekly High Float Alarm test		SEMS TABLET #2	4/2/23	Completed
4/7/23	17265	Generator #2 - Backup Detroit 500	Generator - Monthly Load Test		SEMS TABLET #2	4/11/23	Completed
4/7/23	17269	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		SEMS TABLET #2	4/11/23	Completed
4/7/23	17375	High level floats	Weekly High Float Alarm test		SEMS TABLET #2	4/2/23	Completed
4/11/23	17269	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		Paul Horigan	4/11/23	Completed
4/11/23	17265	Generator #2 - Backup Detroit 500	Generator - Monthly Load Test	Completed as requested	Paul Horigan	4/11/23	Completed
4/11/23	17270	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Completed with monthly load test	Paul Horigan	4/11/23	Completed
4/11/23	17266	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Completed with monthly load test	Paul Horigan	4/10/23	Completed
4/12/23	17352	PS Kohler Trailer Mounted Generator	Generator Weekly - Test Run no load		Joel Terrio	4/10/23	Completed
4/12/23	17386	Generators "All Pump Station"	Generator Weekly - Test Run no load		Joel Terrio	4/10/23	Completed
4/14/23	17391	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Joe Basler	4/9/23	Completed
4/17/23	17336	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	4/12/23	Completed
4/17/23	17316	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	4/12/23	Completed
4/17/23	17320	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	4/12/23	Completed
4/17/23	17326	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	4/12/23	Completed
4/17/23	17330	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	4/12/23	Completed
4/17/23	17340	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	4/12/23	Completed
4/18/23	17282	Influent Pump 1	Monthly Check Pump Couplings	Completed as requested	Paul Horigan	4/5/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
4/18/23	17305	Sludge Transfer Pump 1	Monthly Check Pump Couplings	Completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17298	RAS Pump 2	Monthly Check Pump Couplings	Completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17285	Influent Pump 4	Monthly Check Pump Couplings	Completed	Paul Horigan	4/5/23	Completed
4/18/23	17283	Influent Pump 2	Monthly Check Pump Couplings	Completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17271	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Luis Bello	4/17/23	Completed
4/18/23	17267	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	4/17/23	Completed
4/18/23	17316	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/12/23	Completed
4/18/23	17317	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/19/23	Completed
4/18/23	17320	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/12/23	Completed
4/18/23	17321	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/19/23	Completed
4/18/23	17326	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/12/23	Completed
4/18/23	17327	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/19/23	Completed
4/18/23	17336	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/12/23	Completed
4/18/23	17337	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/19/23	Completed
4/18/23	17340	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/12/23	Completed
4/18/23	17341	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/19/23	Completed
4/18/23	17330	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/12/23	Completed
4/18/23	17331	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	completed as requested	Luis Bello	4/19/23	Completed
4/18/23	17282	Influent Pump 1	Monthly Check Pump Couplings	completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17283	Influent Pump 2	Monthly Check Pump Couplings	completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17284	Influent Pump 3	Monthly Check Pump Couplings	completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17285	Influent Pump 4	Monthly Check Pump Couplings	completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17271	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	completed as requested	Paul Horigan	4/17/23	Completed
4/18/23	17272	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	completed as requested	Paul Horigan	4/24/23	Completed
4/18/23	17267	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	completed as requested	Paul Horigan	4/17/23	Completed
4/18/23	17268	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	completed as requested	Paul Horigan	4/24/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
4/18/23	17286	Influent Pump 5	Monthly Check Pump Couplings	completed as requested	Paul Horigan	4/5/23	Completed
4/18/23	17391	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY	completed as requested	Paul Horigan	4/9/23	Completed
4/18/23	17392	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY	completed as requested	Paul Horigan	4/16/23	Completed
4/19/23	17286	Influent Pump 5	Monthly Check Pump Couplings		Paul Horigan	4/5/23	Completed
4/21/23	17291	Effluent Pumps	Effluent Pump - Monthly	Done	Paul Horigan	4/15/23	Completed
4/21/23	17297	RAS Pump 1	Monthly Check Pump Couplings	Completed as requested	Paul Horigan	4/5/23	Completed
4/21/23	17299	RAS Pump 3	Monthly Check Pump Couplings	Completed	Paul Horigan	4/5/23	Completed
4/21/23	17376	High level floats	Weekly High Float Alarm test		Luis Bello	4/9/23	Completed
4/21/23	17392	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	4/16/23	Completed
4/24/23	17337	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Eric Sutton	4/19/23	Completed
4/24/23	17341	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Eric Sutton	4/19/23	Completed
4/24/23	17331	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	4/19/23	Completed
4/24/23	17277	Influent Sluice Isolation Gate	Weekly operate through full range		Eric Sutton	4/12/23	Completed
4/24/23	17278	Influent Sluice Isolation Gate	Weekly operate through full range		Joe Basler	4/19/23	Completed
4/24/23	17327	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	4/19/23	Completed
4/24/23	17321	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Eric Sutton	4/19/23	Completed
4/24/23	17317	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Eric Sutton	4/19/23	Completed
4/24/23	17353	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Eric Sutton	4/17/23	Completed
4/24/23	17300	RST unit	RST Annual Maintenance		David Wilson	4/3/23	Completed
4/24/23	17387	Generators "All Pump Station"	Generator Weekly - Test Run no load		Eric Sutton	4/17/23	Completed
4/24/23	17377	High level floats	Weekly High Float Alarm test		Eric Sutton	4/16/23	Completed
4/24/23	17370	Chlorine probe ATI	Weekly calibration		Joe Basler	4/10/23	Completed
4/24/23	17216	Chlorine probe ATI	Weekly calibration		Joe Basler	3/27/23	Completed
4/24/23	17383	pH meter	Clean and Calibrate		Joe Basler	4/1/23	Completed
4/24/23	17338	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Eric Sutton	4/26/23	Completed
4/24/23	17342	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Eric Sutton	4/26/23	Completed
4/24/23	17332	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	4/26/23	Completed
4/24/23	17328	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	4/26/23	Completed
4/24/23	17318	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Eric Sutton	4/26/23	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
4/24/23	17322	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Eric Sutton	4/26/23	Completed
4/24/23	17354	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Eric Sutton	4/24/23	Completed
4/24/23	17388	Generators "All Pump Station"	Generator Weekly - Test Run no load		Eric Sutton	4/24/23	Completed
4/26/23	17359	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		Luis Bello	4/27/23	Completed
4/26/23	17357	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		Luis Bello	4/27/23	Completed
4/26/23	17356	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		Luis Bello	4/27/23	Completed
4/26/23	17355	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		Luis Bello	4/27/23	Completed
4/28/23	17393	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY	Completed as requested	Paul Horigan	4/23/23	Completed
4/28/23	17288	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly	Completed	Paul Horigan	4/27/23	Completed
4/28/23	17394	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Paul Horigan	4/30/23	Completed
4/28/23	17280	Mechanical Screen & Washpress System	Monthly Maintenance		Paul Horigan	4/28/23	Completed
4/28/23	17446	Mechanical Screen & Washpress System	Monthly Maintenance		Paul Horigan	5/1/23	Completed

Asset Management Accounts - Year 8							
	FOR M.O.R. March 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	\$108,658.72	\$118,855.96	\$0.00	\$108,658.72	\$118,855.96
08M-102B	Capital and Major Repairs	\$140,000.00	\$182,349.81	(\$42,349.81)	\$0.00	\$182,349.81	(\$42,349.81)
08M-103A	Major Sub Contractors	\$192,737.48	\$233,603.68	(\$40,866.20)	\$0.00	\$233,603.68	(\$40,866.20)
blank							
	Asset Management	\$560,252.16	\$524,612.21	\$35,639.95	\$0.00	\$524,612.21	\$35,639.95

\$35,639.95

Budget expended	Time Status	
	NOW=	5/24/2023
	Start	5/1/2020
47.8%	306.4%	258.7%
130.2%	306.4%	176.2%
121.2%	306.4%	185.2%
93.6%	306.4%	212.8%

08S	D Street	\$7,500.00	\$8,391.00	(\$891.00)	\$0.00	\$8,391.00	(\$891.00)
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111.9%	306.4%	194.6%
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08C	Odor Control Chemicals	\$100,000.00	\$148,059.01	(\$48,059.01)	\$0.00	\$148,059.01	(\$48,059.01)
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148.1%	306.4%	158.4%
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Estimated total remaining 08M, 08C (\$12,419.06)

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR March 2023 M.O.R.					\$0.00			5/24/2023 12:14
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				Placeholder for Jody St. George, Paul Horgan & W.C. Support Staff - Total budget \$25,000, adjust 8/30 to keep existing equipment running - edit 11/28 reduce to \$10,000 for repair \$4,500; new purchases - orig budget \$20,000 - edit 8/30; edit 9/26; edit 11/28 to \$0,000. Reduce budget to zero 1/3/23
1	Pump and Motor Repairs/Replacements [invoiced and pcard]	On Going		101A				Various Suppliers for oil and grease. Budgeted \$2000. Cut placeholder \$\$ to \$900; Adjust to zero 1/3/23
1	Lubricants	On Going		101A				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]. Edit to zero 4/11.
1	Generator Prev. Maintenance and Repairs	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.
1	Fire Alarm Inspections and Service	On Going		101A				Placeholder - \$500 - Unlikely to be used in year 8. Will use these funds for electronic waste disposal. Completed Dec 2023
2	Universal waste disposal	completed		101A				Placeholder \$400 - Annual cost - outside vendor. <b>Completed June 2022</b>
1	Service the Forklift	completed		101A		\$231.00		Annual task - Applied Dynamics - Inspection Work - May 2022 \$1500 plus some corrective actions, \$1500 left to do for repairs [completed Aug 2022];
1	Overhead Hoist Inspection & repairs	completed		101A		\$1,666.52		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	Flow meter verification and calibration	completed		101A		\$1,175.00		\$2800 Annual Placeholder - Established contract with Tecta America. Completed <b>May 2022</b>
1	Facility Building - Roof Inspection	completed		101A		\$2,800.00		Placeholder if meter is sent out for calibration - \$1,100; Update Sept 2022 - meter evaluation needed and if new meter should be considered.
2	Jerome H2S Meter Inspection	Pending		101A				Orig budget \$3,000 - Estimated annual expenditures - adjust 8/30; Adjust 10/31. <b>Adjust to zero 1/3/23</b>
1	Janitorial Supplies	On Going		101A				As required,and/or scheduled
1	Manhole Inspections	Pending		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>
2	General mechanical and electrical items/supplies	On Going		101A				Rotating assembly failure - bearings, shft, mech seal parts & labor. Est labor \$6500. Seacoast repair. All bills to post by end of September
1	Thompson Pump repairs 6TS-244 [6A]	completed		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
2	Large Hoses & fittings	On Going		101A				D&C Quoted - waiting for updated quote with FRP door - Estimate \$6,500; updated estimate, confirmed with email to D&C & HSD approval.
1	hypo room access/entry door	Pending		102B		\$10,737.00		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>
3	Misc. Materials	on Going		101A				replace older/failing unit [DR700]; new unit purchased May 2022
	New Hach Spec Meter for chlorine	completed		101A				Annual service \$640
1	Lab Equip Calibration	completed		101A				4-6 week lead time ARO. Ordered July 2022; Waiting for updated delivery date. Confirmed Nov 2022 piece is being made. Part not on site yet as of 4/18 - \$3,000 - will be an 09M cost.
1	RAS pumps - spare impeller	On Going		101A				Service done - September 2022. Recommendations made.
1 of 3	Duperon Service Call	completed		101A		\$2,500.00		2022_05_01_08M_Checkbook_YTD 041323 av
					08M Planned Costs			

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR March 2023 M.O.R.					\$0.00			<a href="#">5/24/2023 12:14</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
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.
1	Grit classifier system parts	On Going		102B				waiting for wear shoes - charge is to 07M - estim \$3500. Wear shoe Items received July 2022. Plan for additional tail shaft assy and housing & bushings. Pricing out items/costs by various vendors incl Mfr. Edit to zero 4/11. \$4,500 cost - will look at for early in 09M.
	Plant Water System [Pump and/or parts]	On Going		102B				consider spare motor or complete unit. Under review/hold [est \$6,000].



Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR March 2023 M.O.R.					\$0.00			<a href="#">5/24/2023 12:14</a>
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
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				Steve Rose and the SCADA Support Team; budget \$20,000; Adj for cyber security protection subscr to \$14k; Reduce placeholder budget to \$7,000. Edit to zero 4/11.
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				As required, plant or pump stations; orig budget \$8,000; Update acct 9/28; edit to zero 4/11
1	Sewer Line Cleaning - Emergencies, pump & haul	On Going		103A				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; edit to zero 4/11
1	Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors	On Going		103A				Budget - 15,000, 8/30 - reduce budget due to recent work; Update acct 9/28; edit to zero 4/11
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 contractor 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 placeholder installation - TBD year 8 or year 9 - Remove 4/11
1	Est Grit screw purchase	On Going		102B				placeholder hardware purchase. PO issued Oct 2022 \$48,122
1	AUMA actuator repairs & service	completed		101A				PO# 105407 - issued for service call and 2 motors. \$4,000
	HDWK fiberglass slide gate[s]	Pending		101A				Soliciting estimates for at least one new slide gate. Placeholder [Jan 2023] \$7,000. Move to 09M.
1	SC #2 Structural Steel Repairs	completed		103A				Based on T&M - center supports, scrapers, other - IPC Lydon. Invoice pending
TOTAL					\$0.00			