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COMMITMENT & INTEGRITY DRIVE RESULTS

HULL WATER POLLUTION CONTROL FACILITY

August 2021

MONTHLY OPERATING REPORT



NPDES NO. MA0101231

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Cover pictures:

[top] Pump Station #4 bypass pump set up, while piping repairs being completed [bottom] D Street Stormwater station – auxiliary pump set up in the event needed during forecasted August tropical storms/rain events.

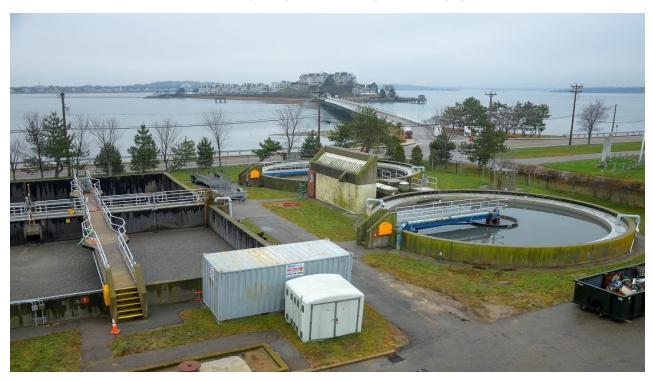
1 EXECUTIVE SUMMARY

This Monthly Operating Report provides a summary of the pertinent information and activities that occurred at Hull WPCF during the month of August 2021.

- No lost-time incidents for the month of August.
- Continued/On-going covid-19 safety operations: Regular daily operations and staff scheduling, adhering to company and CDC guidelines and updates. Staffing levels normal as it pertains to covid19. Resume face mask use per Town mandate.
- There were 152 effluent samples taken in the month of August [details on page (12).] All effluent samples collected were compliant. The average daily flow for the month was 1.58 MGD. A total of 5.33 inches of rainfall was recorded, with the highest daily total amount recorded on 8/4-8/5 [3.17"]. Process conditions remained compliant. The peak daily flow for 8/5 was 4.04 MG. Additional staff coverage and remote assistance provided to maintain plant systems during the high flow periods.
- The was one Sanitary System Overflows [SSO] reported, because of a small overflow at the Primary Distribution Box, a high flow period.
- The plant and collection system odors were low to moderate as flows were above average during the month. Remote monitoring with the Vapor-Link to monitor H2S levels.
- The MCC #2 electrical incident corrective work continued and was completed by the end of August. W&C worked with the HSD on providing information and assistance as needed.
- Evaluation of aeration Tank #3 tank cleaning completed and hardware and piping inspection
- The Asset Management Accounts summaries for contract year #7 is attached. Latest revision date: 11/22/21.
- There were four grinder pump replacement call outs during the month of August.
- Tentative date for electrical MCC and switch gear maintenance by EESCO set for September
- W&C O&M continued to support the Engineering projects pump station #9, plant influent and secondary system, pump station #4 change-order work.
- Plant Staffing Plant O&M Tech 1 new employee started on 8/4/21.
- Weekly Bio Bot sampling continuing. [Covid-19 Wastewater Monitoring Program].

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



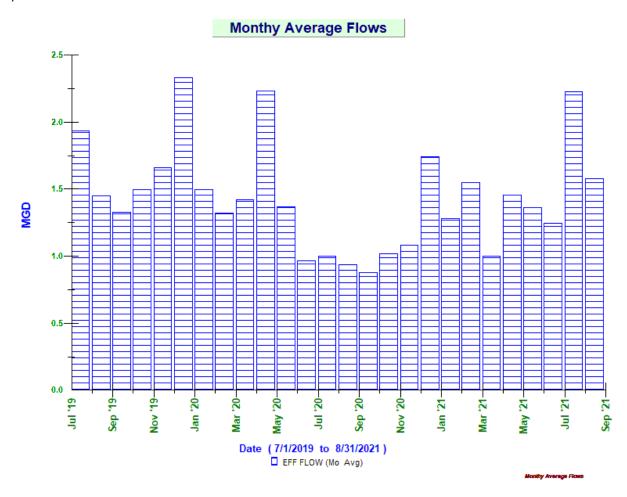
Average Daily Flows and Loadings for the Month:

	Eff Flow MGD	Inf Flow MGD	Inf BOD LBS	Inf TSS LBS	Eff BOD LBS	EFF TSS LBS
Aug 2019	1.449	1.684 *	1617	4326	64	142
Aug 2020	0.936	0.975*	1145	1875	42	135
Aug 2021	1.579	1.89*	1970	3516	37	74

^{*} On-Going -The existing influent flow meters are strap on doppler flow meters, and the internal & external pipe condition prevents getting a strong signal. The staff utilizes the area velocity meter in the aeration tank inlet channel as well as the headworks influent Parshall Flume meter. 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.

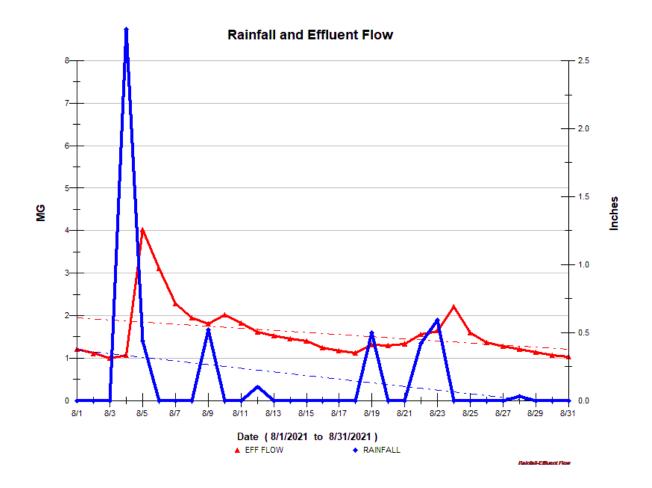
2.1 AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

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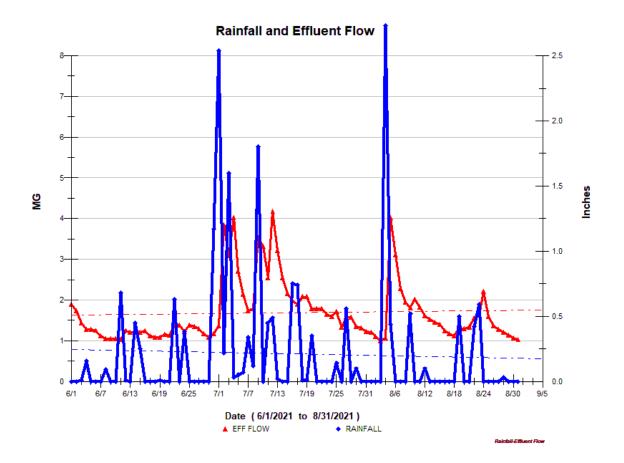
The monthly average flow for August was 1.58 MGD, lower than the previous month, but considered a wet month. The total precipitation for the month was 5.33 inches, with 3.17 inches of rain on 8/4-5. The graph shows the 2-plus year summary of the monthly average flows. 2021 August average almost 0.5MGD higher than August 2020.

2.2 MONTHLY SUMMARY OF RAINFALL AND THE INFLUENCE ON EFFLUENT FLOWS



This graph shows the days where precipitation occurred [rainfall] [Blue Peaks]. This graph indicates that there were several wet weather days in August. The wet weather did impact on the plant flows.

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This graph shows the data from the last 3 months and indicates the times when rainfall impacted the plant flows. 3.17 inches of rain fell during the 8/4-5 period.

3 COMPLIANCE



> Plant Effluent

There were no permit exceedances in the month of August.

- Plant process conditions were very stable during the month, even as the daily flow average was 0.5
 MGD higher for the month.
- Continued with one diffused aeration tank and one mechanical aeration tank in service while aeration tank #3 repairs being made. The process mode continues as a complete mix arrangement where RAS flow was returned to both aeration tanks.
- Pictured [L to R]: Aeration tank #1, #3, final clarifier



Aeration tank #3 loss of air due to piping failure Aeration tank #2 – mechanical aerator

- High flow management activity
 - 8/5 rain event pushed flows up, where throttling of the influent flows needed. Additional tanks put online, and the influent gate used for remainder of the day into the late evening to manage flows into the facility.
 One additional primary clarifier and an additional secondary clarifier placed on-line. Remote SCADA monitoring and adjustments as need.

- 8/19-21 storm preparation for anticipated TS. Flood barriers installed, various areas sandbagged, trash pumps set up at D Street, and secondary clarifiers.
- 8/20 storm planning. Several calls made for electrician availability and other needs. Preparedness update form completed and sent to HSD. Provided updates as needed to HSD.over the course of the weekend.
- A Copy of the monthly NPDES reports for August 2021 was submitted to the EPA & DEP and then forwarded to the Hull Sewer Dept.
- Quarterly WET test samples collected.
- Storm preparedness for tropical Storms in late August "Henri" and "Ida".







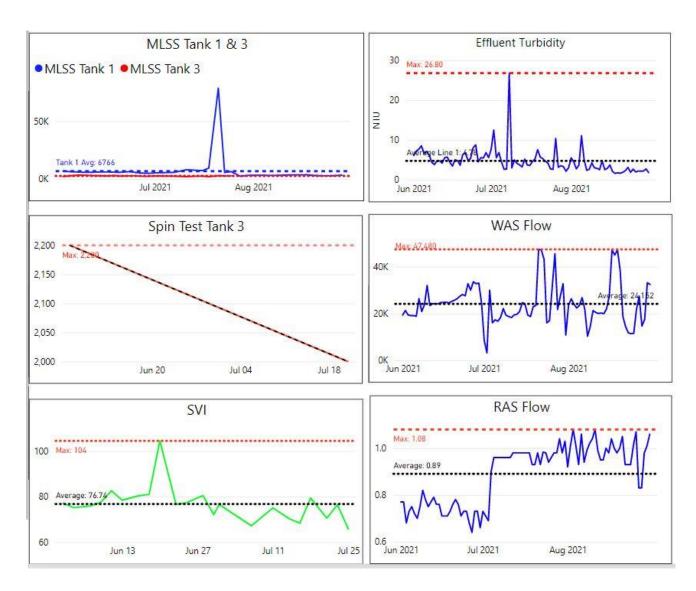
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• There was one sanitary system overflow event logged, as plant flows rose very quickly due to excessive rainfall. While initiating additional tankage online and throttling back on the influent gate that allows flow into the facility, a small quantity of sewage overflowed the distribution box by the primary clarifiers. The liquid quantity was small, and confined to the plant property, with no runoff to the nearby drainage structures. A full SSO report for the 8/5 incident was submitted. The area was cleaned up and lime applied.

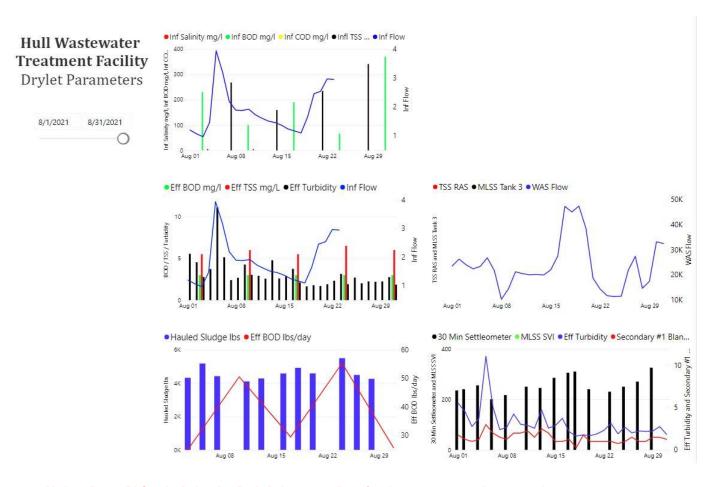




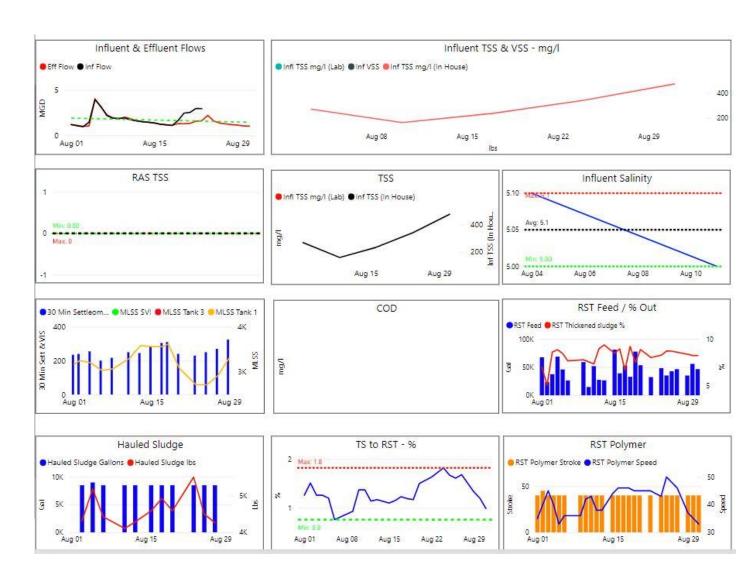
Monthly Process Summary graphs from power BI - August 2021.



Graphs shows trending of secondary processes using Power BI for the 3-month period ending on 8/31/21. The tank solids levels under aeration showed little or no change, and wasted gallons were stable until the end of the July when the aeration system piping issue arose. The sludge settling that is measured as SVI [sludge volume index] remained low [a positive sign]. Effluent turbidity was stable and trending lower.



Various Power BI Graphs [related to Drylet] shows trending of various processes – August 2021.



Additional Power BI Graphs that show trending of various parameters - August 2021

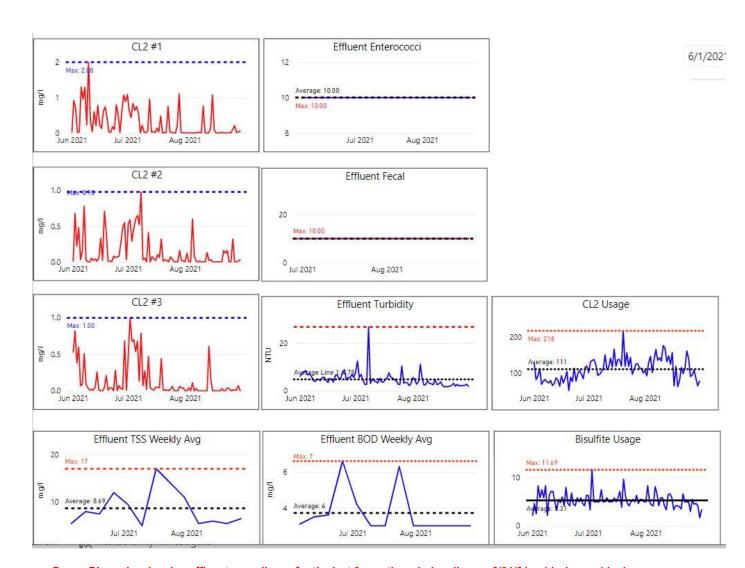
4 KEY PERFORMANCE INDICATORS



4.1 WATER QUALITY - AUGUST 2021

Parameter I	nfo		P	ermit Requ	irements				Results		
Parameter	Units	Daily Allowed Max in month	Min %	Weekly Avg. Max Allowed in month	Monthly Avg	Freq	Period Monthly Avg.	Period Weekly Min	Period Daily Max	# Of Samp les	# Of Violations
Eff TSS	MG/L	50		45	30	1 X Week	5.9	5.5	6.9	5	0
Eff TSS	LBS			1152	768	1 X Week	74.5	45.9	119.8		0
% TSS Rem	%		85			1 X Month	98.0				0
Eff BOD	MG/L	50		45	30	1 X Week	3.0	3.0	3.0	5	0
Eff BOD	LBS			1152	768	1 X Week	37.2	25.0	55.3		0
% BOD Rem	%		85			1 X Month	98.4				0
Eff Chlorine	MG/L	1.0			0.7	3 X Day	0.06	0.00	0.36	93	0
Eff Fecal	#/100 ML	260	_	_	88	1 X Week	10	10	10	4	0
Eff pH	SU	8.5	6.5			1X Daily	6.9	6.8	7.1	31	0
Enterococci	CFU/1 00 ML	276			35	1 X Week	10	10	10	4	0

There were 152 effluent samples taken in the month of August.

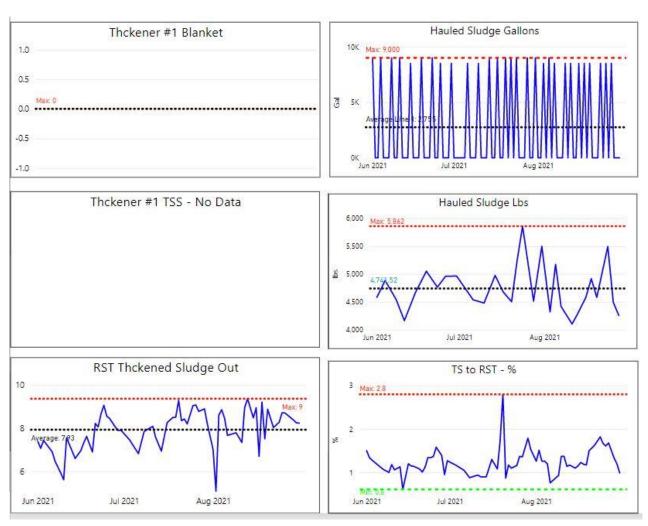


Power BI graphs showing effluent compliance for the last 3-month period ending on 8/31/21 - chlorine residuals, effluent compliance, & chemical use. Bleach [sodium hypochlorite] & sodium bisulfite stable, and effluent quality was stable. Turbidity [clarity] of the effluent improved.

Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
August 2019	44.90	78,500
August 2020	29.01	42,500
August 2021	48.96	94,000

Additional Power BI graphs for sludge solids for 3-month period ending 8/31/21. Trends indicate heavier solids/sludge production for July-Aug period. Process changes due to aeration system failure, and partly due to seasonal increase.



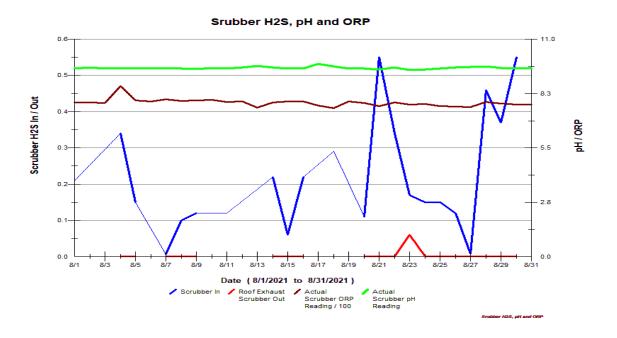
5 ODOR CONTROL

There were two odor complaint calls received during the month of August.

- 8/1 at 2pm
 aeration tank #3 remaining solids from taking tank offline. Tank cleaning was still in progress.
- 8/3 at 6pm odors from aeration feed channel, due to stagnant area. Additional flushing water added to move things around and lessen the odor.

The Bioxide system was on, and the feed rates were adjusted as needed according to data seen at Nantasket/Water MH and XYZ/Nantasket MH. The monthly graphs are attached below.

- "In-Pipe" bacteria no monthly or bi-monthly changeouts completed in August.
- No changes: Mixing systems/aerators were all functional and in timed mode at the pump stations with, except for pump station #3. [Bioxide addition is at PS 3], and at PS #5, with newer Flygt pumps, as the mixer is causing air entrapment in the new pumps.
- No changes Hydrogen sulfide monitoring units [H2S] were recording and being trended on the odor scrubber for monitoring inlet and outlet H2S levels. The scrubber fan speed increased to maximum speed. [see graph below]
- Weekly Neighborhood monitoring around the plant done as needed.
- The gravity thickener remained off-line. The Primary tanks were used only as needed for high flow management. [In service for very short duration and tanks then were pumped down and cleaned out.

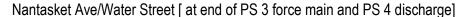


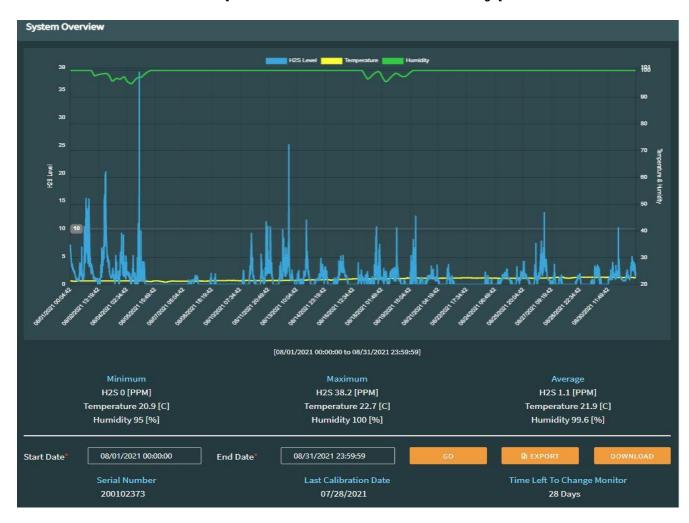
[pictured below: Scrubber trend, and trending graphs for H2S levels recorded from the vapor link system cellular at manhole at XYZ Street/Nantasket Ave and Nantasket Ave/Water Street.

XYZ - Nantasket Ave [closest to plant]



The odor data logging unit at XYZ that was being used to monitor overall H2S levels close to the plant has had little or no H2S present. There were spikes seen and feed rates were increased as needed from mid-month forward. When system flows were high, the chemical feed rates were lowered, as there is less sulfide production seen





Pump station #3 - Bioxide stored here and where the chemical is added. The H2S level is monitored at the end of the force main at Nantasket & Water Street. The goal is for the excess nitrate concentration remaining in the sewage to be available to treat the additional H2S added from other parts of the system – PS4, contributions from lines feeding the interceptor, PS5, PS6, etc. all the way to the plant.

6 MAINTENANCE SUMMARY

6.1 TASKS COMPLETED THIS MONTH

The SEMS monthly work order summary for August is compiled and attached for review.

Additional key items of note are listed below.

• Continued working on MCC2 issues. Completed the installation of the two new VFD's for the aeration blowers, repair all damaged wiring, clean up MCC and area.



 Aeration tank #3 repairs – evaluation of the tank hardware deficiencies made, and replacement hardware needed. All new concrete floor anchors installed, due to corrosion of the existing components. W&C staff working with Lydon to complete the repairs needed. Pictured: Ongoing repairs, and corroded anchor plate.



• Pump Station #4 repairs – Bypass pumping set up by D&C Construction and repair work commenced on Monday 8/16. W&C cleaned out the wet well, after the bypass pumping was started and the sewer line to the wet well was plugged. D&C work started with the demo/removal of the old valves and piping, followed by W&C's inspection and cleaning of the pumps. The new suction HDPE pipes were sleeved in from the wet well and fused by D&C. Then the pump discharge piping was also replaced. The new valves, check valves, and piping pieces were installed, and work completed in 4 days. The station service was resumed on Thursday 8/20. All the work was completed safely and without incident. [pictured – L to R: concrete debris removed from pump, bypass set up, old pipe components]



Pictured: New components installed: top – new suction pipe and valve, bottom: new discharge check valve, isolation valve and 3-way pipe & discharge HDPE pipe.







- 75HP aeration blower motor sent out for overhaul to First Electric bearing and shaft issues.
- Send out several motors that were stored in blower room [second floor] for evaluation, after inventory and several of the motors were for equipment no longer at the facility.
- Electrician installed new piping from top level to mid-level for control of pumps and deragger equipment. New conduit and fixtures for lower pump room lighting also installed.
- Develop request for quotation [RFQ] for new pump replacements "in kind" at PS 4.
- RAS pump #1 rotating assembly sent out for repairs.



6.2 ASSET MANAGEMENT ACCOUNTS

- Please see the attached summary totals and planned expenditures for the Asset Management accounts for contract year (7). Most recent through 11/22/21.
- Planned expenditure list updated. Monthly review & update.

7 SAFETY



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

- No lost time incidents reported for August
- Monthly PM's Emergency eyewash and shower inspections, fire extinguisher and emergency lighting inspections completed. Monthly facility safety inspection completed.
- On-going Coronavirus Covid-19 awareness and updates discussed daily & as needed. Post updated signage, discuss covid protocol changes. Ongoing: Work with onsite contractors to ensure that Covid-19 procedures in place and being followed. Company Covid Standdown to discuss company changes.
- On-going daily safety briefing meetings with staff, covid updates & reminders, site specific safety policies for sub-contractors, safety tailgate meetings. Pure Safety topic– August – Respiratory Protection.
- Monthly staff safety meeting conducted on 8/31/21. Major topics discussed: Covid updates, living well reminders, Job Aids: heat stress, hearing protection, hurricane preparedness, H&S attitude. Other topics: Hurricane preparedness, face coverings, dehydration, and heat stress, hearing protection.
- Staff CPR/First Aid training renewal where needed. New hire training/on-boarding.

8 STAFF DEVELOPMENT

Training is an important part of any operation to ensure employee health and safety is assured, quality standards are maintained, 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:

- Monthly staff Safety training completed Pure Safety and monthly safety meeting. W&C "near-miss" incidents at all projects for July discussed. Staff required to complete Cyber Security training from W&C.
- Regular [usually daily] operational updates and process control discussions, pump station operations, especially with construction projects going on at the plant and pump stations. Safety Covid-19, dig-safes, etc.

Staffing related items:

- The regular staff labor was supplemented by the two O&M Specialists as needed to cover all the necessary shifts, since the regular staff was reduced by one person. Paul Horigan and Jody St. George provided the additional assistance.
- Weekend staff schedule updated and continued to have some Saturday & Sunday staff coverage on overtime basis and with use of part-time staff. Sunday coverage rotation continued with Aram, Roger, and Joe.
- Mass Maritime [MM] intern Joel Terrio completed internship & worked out very well. An internship survey/questionnaire was completed. Joel T will remain on staff in a part-time role [working weekends] through Summer 2022. Pictured below: Joel Terrio presenting summary of internship experience in Hull.
- New hire Luis Bello [O&M Tech 1] started on 8/4/21, On-board training & orientation completed.



9 COLLECTION SYSTEM

9.1 WET WELL CLEANING

The actual schedule for wet well cleaning: May 2021 to April 2022:

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

Frequency of	Pump Station										
cleaning	Α	1	3	4	5	6	9	D			
May, 2021											
June, 2021	X										
July, 2021											
Aug., 2021	X			X							
Sept. 2021											
Oct.,2021											
Nov, 2021											
Dec., 2021											
Jan., 2022											
Feb., 2022											
March 2022											
April 2022											

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

9.2 COLLECTION SYSTEM MAINTENANCE

Woodard & Curran assisted/conducted camera work and sewer system support in the Hull collection system at the following areas during the month of August.

- In-Pipe units on-going maintenance of dosing units as needed. Staff conducts board troubleshooting, dosing pump repairs and replacements, and works with "In-Pipe" technician on these issues.
- All Pump station generators loaded, and non-loaded generator runs were done for the month.
- All Pump station wet wells were inspected in August. Monthly Pump Station Inspections completed and combined with monthly station PM's.
- Upload new/updated tie-cards to the UC as requested.

- Grinder pump summary:
 - o 11 North Truro
 - o 15 Logan Ave.
 - o 26 Rockview.
 - 49 Rockaway

Dig Safe mark outs:

 On-going Dig-Safe mark outs. These are completed throughout the Town of Hull to assist/facilitate scheduled and emergency gas repairs, broken water mains, upcoming roadway paving projects, and other residential and town projects and are listed in the UC summary.

Collection system support: Ongoing backup and blockage call outs requiring an increase in manpower and time to support. Below summarizes W&C's efforts at the various call out locations.

- Complete emergency dig-safe requests & regular dig safe mark outs, when able to complete them.
- o 8/4 297 Nantasket Ave back up call at 3pm. Main lines were clear
- o 8/22 various responses to pump stations due to tropical storm no major issues.
- o 8/26 PS 1 reset soft starters for pumps after power loss.
- 26 Roosevelt blockage was homeowner side. Main was clear. Use sewer push camera to locate the lateral off the main.
- 8/30 DW/JT assist DPW at 8 Pt Allerton use push camera to inspect 4-inch pipe through a broken lateral on a drain line. Also, provide couplings and pipe for repair.
- 8/21 Late day comm fail at PS6 found UPS had tripped. Reset and PLC powered back up. All
 ok.

Collection system work is being documented and tracked in Utility Cloud and a summarized report for the month of August has been included as an attachment with the Monthly Operating Report.

10 PROJECT MANAGEMENT & ADMINISTRATION



10.1 ON-GOING PROJECTS AND SUPPORT ITEMS

August updates:

- PS1 mid-level leakage checked out and determined that the leakage is unrelated to ALU's recent work. Some remediation will be needed for the crack in the foundation.
- Review of effluent pump replacement needs at the facility the 60HP pump was sent out for evaluation, a replacement 35HP pump due to age and lack of seal protection is recommended. Requested a replacement cost for the 20HP effluent pump.
- Ongoing support of engineering projects with review and feedback provided PS9 and generator questions, & 90% design on the influent pumps/secondary project. As able to participate in the discussion calls, GMPS inspections.
- Pump capacity flow checks at PS 4 and LS A with Jason K and Claudia B. New pressure gauges installed and wet well drawdowns and fill up conducted several times. AV assisted.



- Worked with HSD, investigation team, & electrician to restore full operability to MCC #2. Town
 eventually decided not to pursue an insurance claim.
- Ordered parts from Xylem/Sanitaire to replace the parts needed to fix aeration tank #3. All mounting hardware was replaced with 316 SS hardware.
- Project On Hold: Sludge holding tank #1, diffuser piping. Consider for possible 2022 [08M] project [year #8].
- Radio Communications Project Working on procurement document of radio communications system equipment for pump stations [Sue Hines & Doug Tirrell]
- Drawdown testing to calculate pump capability at LS A conducted, and the output flows not as poor as anticipated. One of the pumps is delivering about 75% flow, and the other pump is delivering 50%. The flow meter will need to be looked at and repositioned to give a more accurate flow indication.
- Ongoing [noted last month]: Influent FM pipes in sub-basement an area of concern and being monitored. No change in status.
- Pending & possibly could be a 2022 project: GT1 sandblasting/painting determined not feasible in 2021.
- Contacted Duperon Corp, supplier of the bar screen for a site visit. The visit is on their service calendar and will be scheduled when the company has another client service call in the area.
- New Sludge Transfer pump installation and piping proposals reviewed and Industrial Pump of Tiverton, RI awarded the work.
- Working on Thompson trash pumps new control panels.
- On-going work with FRMahony for E-1 pump repairs and new pump replacements. Repair response had been slow, and new inventory very limited. Hull Sewer inventory of spare pumps very low.
- Based upon EESCO's IR study, a mid-September electrical shutdown is planned for the MCC and Switchgear maintenance and cleaning.
- Initiated a RFQ from several pump manufacturers replacement portable 6-inch trash pump.
- Mersino Pump presented a proposal to modify the 12-inch bypass piping by the Primary D-Box, so that bypassed influent pumped flow can go to the D-Box before the screenings box, in addition to directly to the screenings box.

		A	sset Management	Accounts - Year 7			
			Actual to date		Projec	ted for Final Estima	ite
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta
07M-101A	Preventive Maint	\$213,028.73	\$81,787.14	\$131,241.59	\$41,200.00	\$122,987.14	\$90,041.59
07M-102B	Capital and Major Repairs	\$140,000.00	\$84,839.96	\$55,160.04	\$113,400.00	\$198,239.96	(\$58,239.96
07M-103A	Major Sub Contractors	\$180,465.81	\$123,211.76	\$57,254.05	\$95,000.00	\$218,211.76	(\$37,745.95
blank					#REF!		
	Asset Management	\$533,494.54	\$289,838.86	\$243,655.68	#REF!	\$539,438.86	(\$5,944.32

	Time Status						
Budget expended	NOW=	11/22/2021					
expended	Start	5/1/2020					
38.4%	156.3%	117.9%					
60.6%	156.3%	95.7%					
68.3%	156.3%	88.0%					
54.3%	156.3%	102.0%					

#REF!

075	D Street	\$7,500.00	\$2,183.39	\$5,316.61	\$0.00	\$2,183.39	\$5,316.61	29.1%	156.3%	127.2%
07C	Odor Control Chemicals	\$100,000.00	\$81,192.00	\$18,808.00	\$0.00	\$81,192.00	\$18,808.00	81.2%	156.3%	75.1%

For August 2021 m.o. R. Estimated total remaining 07M, 07C, 07S

\$18,180.29

Hull 2021-2022 - 07M Projects, Tasks, and Needs - (AV) Maintenance Account - Year 7 - 05_01_21 to 04_30_22

11/22/2021 13:02

#REF!

FOR AUGUST 2021 MOR

	FOR AUGUST 2021 MOR					According to the second	Additional Conference of the C	111222021 10.02
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	\$9,000.00			Jody St. George, Paul Horigan & WC Support Staff - Total budget \$25,000; incl annual scrubber cleaning, remove old blowers [mech]; other Items as needed. Adj budget down to \$9,000 - 11/22.
1	Pump and Motor Repairs [invoiced and pcard]	On Going		101A	\$6,000.00			to keep existing equipment running - utilize various outside contractor repair shops, new purchases, orig budget \$20,000; adjust to 6000 11/22.
1	Lubricants	On Going		101A	\$1,500.00			Various Suppliers for oil and grease. Budgeted \$3500.
1	Generator Repairs	On Going		101A	\$2,000.00			General Repair Work - Original Placeholder \$3,000; pending invoice for water solenoed main gen oct 2020; Adj 11/22 to \$2000.
1	Fire Alarm Inspections and Service	On Going		101A	\$2,000.00			Semi Annual - Hart Security [October & April , central station, & Service]Orig budget \$3000.
2	Universal waste disposal	Pending		101A	\$500.00			Placeholder - \$500; zero the budget, will incur if needed
1	Service the Forklift	Pending		101A	\$400.00			Placeholder \$400 - Annual cost - outside vendor
1	Overhead Hoist Inspection	Pending		101A	\$1,500.00			Annual task - Applied Dynamics - PO is usually issued for April. \$1500
1	Flow meter verification and calibration	Pending		101A	\$1,000.00			Placeholder - Annual - Ray Ferland 1 visit annually [orig budget \$1,000
1	Facility Building - Roof Inspection	Pending		101A	\$2,800.00			\$2800 Annual Placeholder - Established contract with Tecta America
1	Pump Station #9 - Repairs Immediate	completed		101A		\$6,900.00		Costs from D&C to be charged to budget Oct 2021
2	Jerome H2S Meter Inspection	Pending		101A				\$1100 - Placeholder for Annual Inspection - sent out includes annual service \$1100; not done in year #6 [remove placeholder 10/25
1	Janitorial Supplies	On Going		101A	\$2,500.00			Estimated annual expenditures - Orig budget \$4,000;
1	Manhole Inspections	Pending		101A				As required,and/or scheduled
2	General mechanical and electrical items/supplies	On Going		101A	\$6,500.00			Grainger, FWWebb, EJP, Hoadley, mcMasterCarr, etc; orig budget \$18,000, adjust to \$9,000 on 10/20; adjust to 6500 on 11/22;
1	IR Suřvey	completed		101A	u e			Done in 2021 [September]
2	Hoses	completed		101A				Replacements and/or Service - On-Going - As Needed; Purchased three 6-inch hoses, close out budget Oct 2021
1	Replace UPS batteries - plant and pump stations & town trailer	On Going		101A	\$4,500.00			in process - started Oct 2021; Readjust budget to \$4,500.on 11/22.
1	Spare A-C pump rotating assembly repair	completed		101A		\$4,400.74		10/18 - currently in shop for repairs at Seacoast Supply. No PO issued. Repaired unit received back.

1 of 4 11/22/2021 2020_05_01_07M_Checkbook_YTD draft 07M Planned Costs

Hull 2021-2022 - 07M Projects, Tasks, and Needs - (AV) Maintenance Account - Year 7 - 05_01_21 to 04_30_22

	FOR AUGUST 2021 MOR				#REF!		11/22/2021 13:02	
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
2	Misc. Materials	On Going		101A	\$1,000.00			Hardware Store - \$200.00 per month - reoccurring expense; orig budget \$2,400;
4	Install a flow meter on the generator cooling water system - plant water	Pending		101A				Have an estimate [Oct 2018]; possible after 5/1/20
1	Lab Equip Calibration	completed		101A				Annual service \$600- usually Jan/Feb. Last done May 2021; process invoice Oct 2021
1	Mech seal[s] for RAS pumps ! & 2	completed		101A		\$4,648.39		P1 repairs in progress as of 10/1/21; estim cost \$5,000. No P0 issued.
2	Tecta Roof Repairs - proposed per 2021 inspection	Pending		102B				TBD
2	yard hydrants - installation	Pending		102B	\$5,000.00			sub-contractor labor - pending; Have materials on hand
1	Pump Station #4 - purchase two new pumps	Completed		102B				Cost: On a PO with MSI - # estim \$35,000 - by AEPump
1	Pump Station #4 - install new pumps	Completed		102B	\$10,000.00			Most likely by D & C
1	Effluent Pump #3 - repairs	On Going		102B	\$25,000.00			Currently the 60HP pump is at Flygt Repair shop - estimated repairs and new power cord - \$25,000
1	Sanitaire hardware purchase for aer tk 1	Completed		1029		\$12,776.00		Purchase more hardware - done June/July 2021 [not billed yet]
1	Additional Sanitaire hardware/equip needs	completed		1028		\$2,612.00		Additional 350 membrane diffusers for aeration tank #1 [ordered 10/19/21
3	Replace 6" potable water valve in basement and misc. valves	Pending		102B				While doing project check/replace 1 1/4 valves as needed - Requires a water shutdown, on hold until after HVAC project completed. Orig planned cost \$3,000.
2	Naw 6" portable trash pump	On Going		1028	\$60,000.00			Purchase from either Sourcewell or other -best estimate:
1	New Effluent Flygt Pump #4	On Going		102B				20 HP pump ordered October 2021. on a PO Estim cost: \$17,000 plus freight
3	New 4-inch valves for pri building between the tanks Installation	Pending		1028				Valves - cost: \$2500, sub-contracted labor - either WC or outside co.\$4,000 - totl estim \$6,500
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		1028				replace unit, if done \$11,000
3	Gravity Thickener #1 sandblasting/painting	Pending		1028				Estimate \$45,000+ - would need to go out for competitive bid request, Target late spring/early summer 2022 ?
of 4 ² 11/2	AUMA spare electric actuator	Pending		1028	2020_0\$ 4 0 100 7 00 _Chec	book_YTD draft		one spae unit, for inventory - Quoted by A&N. PO requested.

Hull 2021-2022 - 07M Projects, Tasks, and Needs - (AV) Maintenance Account - Year 7 - 05_01_21 to 04_30_22

	FOR AUGUST 2021 MOR				#REF!		11/22/2021 13:02	
Priority 1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Grit classifier system parts	Pending		102B	\$9,000.00			No spare parts - tail shift housing, tail shaft, bushing, retainer plate, etc.Estimate from DGMarshall, and Envirodyne
2	Replacement Pumps LS A	Pending		1028	1 1 1 1 1 1 1			Pump efficiency lower than desired - new pumps may be needed. Estimate?
1	Electrical Work	On Going		103A	\$4,000.00			Electricians: Glen Fellows, HiVoltage, other; remv old blowers.lighting, sec bidg elec outlets - \$2,000/month; orig budget \$25,000; adjust down to \$4,000.
1	SCADA Work	On Going		103Å	\$12,500.00			Steve Rose and the SCADA Support Team; orig budget \$25,000;
1	E-One Repairs and Replacement	On Going		103A	\$3,000.00			Based on historical costs. E1 repairs where cost-effective & new replacement pumps; control panels, other equip; Orig budget \$25,000, More replacement pumps versus repairs. Reduce budget to 15K on 10/6; adj to 12K on 10/25; Adjust budget on 11/22 to \$3000
1	Annual Generator inspection	Pending		103A	\$5,000.00			placeholder 2021 Annual \$4,900 - MSElectrical Power - Generator PM/Service work - due in November, Early Dec target completion.
1	Automatic Transfer Switch inspection and servicing	Pending		103A	\$2,400.00			\$2400 - Annual Service planned for April Highland Power - NETS - Transfer Switch; Part of Ge Svc PO.
1	Wetwell Inspections and Cleaning - Plant/Pump Stations	On Going		103A	\$8,000.00			As required, plant or pump stations; orig budget \$10,000
1	Sewer Line Cleaning - Emergencies	On Going		103A	\$5,000.00			Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BM or other, collection system & plant; orig budget \$10,000; adj budget down to \$5,000 10/20
1	Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors	On Going		103A	\$10,000.00			Budget - 15,000, adj down to 10K on 10/20;
1	Mersino 6" pump rental	On Going		183A	\$4,100.00			approx 3k per month; adj budget down due to payments 11/22.
1	Aer tank repairs [labor] through September	completed		103A			1000	4 days - millwrights - Lydon \$8000
2	Aer tank repairs [labor] for diffuser membrane replacement	completed		103A		\$1,952.92		2 days - millwrights - Lydon \$6300; Aeration tank #3, aeration tank #1
3	Regen Aeration System - Pump Station #5	Pending		103A				Orig est \$1,500 -Tie into the SCADA system - Glen Fellows;
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: \$31,000. Maybe year 8M project
4	Generators - Load Bank Testing Plant & Pump Stations	Pending		103A				Look at under CBM - recently done under 06M.
1	EESCO electrical MCC work - plant	completed		103A		\$10,235.00		In progress as of September 2021, and to be completed October 2021
1	EESCO MCC work at the Pump Stations	Pending		103A				TBD quoted for Oct/Nov 2021
1	Low pressure sewer valve box insp & mtce	Pending		103A				placeholder for contractoror O&M inspections and potential repairs; Looking at Rosano-Davis of another contractor & W&C to investigate; budget of \$7,500 on hold
1	LS A pumps - Repairs to P2 by Industrial Pump	On Going		101A				Placeholder - 4/12 - Evaluating cost for pump repair while relacement costs for parts or new pumps are looked at
of 4 ¹ 11/2	PC #2 rake repairs - Lydon	On Going		103A	\$33,000,00 2020_05_01_07M_Check	kbook_YTD draft	184	Time and materials per proposal;[\$18,000]Revised estimate due to additional issues not seen w first inspection. Estimated additional \$\$ - \$15,000 07M Planne

Hull 2021-2022 - 07M Project	ts, Tasks, a	ind Needs - (AV)
Maintenance Account - Ve	ar 7 - 05 01	21 to 04 30 22

FOR AUGUST 2021 MOR					#REF!	A Section of the sect		11/22/2021 13:02
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	PC2 remaining repairs - turnbuickles	Pending		103A	\$2,000.00			Istallation
1	Aeration Tank #1 mechanical assistance	Pending		103A	\$6,000.00			hardware replacement and diffuser replacement - Late Nov, Early Dec.
1	Deragger PS3 for Pump #2	On Going		1028				Needs to be completed by MSI
	TOTAL				\$249,600.00			

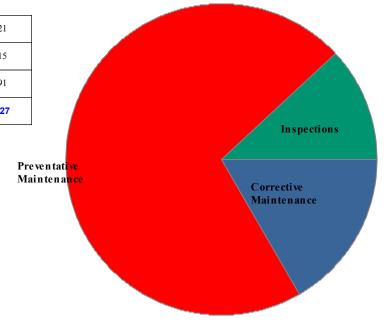


Maintenance History Report

Start Date: 8/1/2021 End Date: 8/31/2021

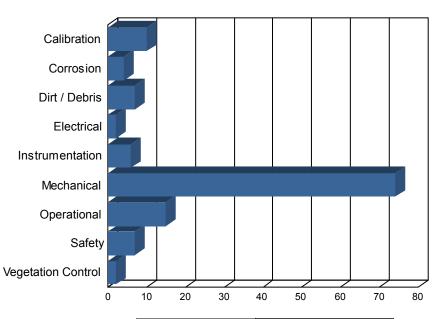
Hull Wastewater



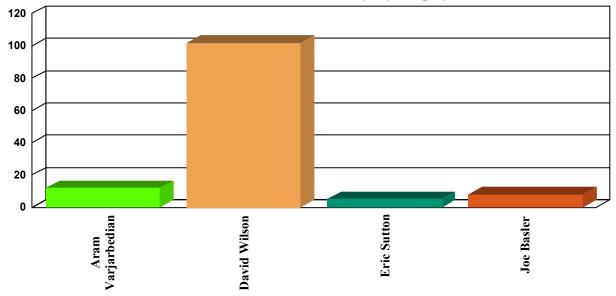


Work Order History By Type

Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
Aram Varjarbedian	12	29
David Wilson	102	27
Eric Sutton	5	3
Joe Basler	8	6
Totals	127	65

Corrective Maintenance

Status Date	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/4/21	14455	Emergency Lighting & exit signs	Failed lights on emergency lighting unit.	Identified failed emergency lighting.	David Wilson	8/4/21	In Process
8/4/21	14456	Wet Scrubber System	Clean sight glass for recirculation pumps.	Shut down scrubber recirculation and caustic pumps. Removed flow meter for cleaning. Cleaned and installed. Returned to service.	David Wilson	8/4/21	Completed
8/11/21	14457	Fixed Gas Monitoring System	LEL sensor faulted	Verified fault. Red LED indicating fault. Read fault as Signal indeterminate. Troubleshoot with O&M manual. Performed manual reset and performed full calibration. Sensor would Zero but not span. Repeated flow chart and was able to calibrate sensor and verify the function.	David Wilson	8/11/21	Completed
8/17/21	14463	PS 4 Wet Well	clean wet well	with flow plugged off and station on contractor bypass, set up with Hoadley vac truck to clean out entire wet well for planned work. AV, DW, LB, ES.	Aram Varjarbedian	8/17/21	Completed
8/17/21	14464	PS A Wet Well	wet well needs cleaning	set up with Hoadley vac truck and clean wetwell.	David Wilson	8/17/21	Completed
8/17/21	14465	Primary Clarifiers	clean out scum well	with Hoadley vac truck, pump out and clean pri scum well, since process is off line. decant and dispose solids at landfill. DW, ES, LB	David Wilson	8/17/21	Completed
8/17/21	14458	Hypochlorite Pump 1	high hypo use with low ratio	AV, MS check pump and found siphoning when pump was shut off. head assy last replaced 16 months ago. install new head, reset counter, check for leaks.	Aram Varjarbedian	8/17/21	Completed
8/17/21	14459	Aeration Tank 3	air diffuser grid repairs	IPC LYDON, 2 TECHS, DAVE W, JOE B. CSE and permit. repairs day 1 approx 35 percent completed, new anchors and support hardware	Aram Varjarbedian	8/17/21	Completed
8/18/21	14461	PS 4 Pump 1	clogged pump	with suction elbow off of pump, clear out pump debris, hardened rag buildup in between wear rings. A lot of internal wear.	Aram Varjarbedian	8/18/21	Completed
8/18/21	14462	PS 4 Pump 2	clogged pump	AV, DW clean clogged pump, since suction elbow was removed from pump. Remove rags, and chunks of clay pipe jammed in impeller	Aram Varjarbedian	8/18/21	Completed
8/18/21	14460	Aeration Tank 3	diffuser supports and anchors	Dw, Ms, and 2 Lydon - millwrights, continue diffuser support replacement and new floor anchor installation. tank now approx 70% completed. CSE into tank, and permit for the day. A lot of the floor anchor hardware had corroded.	Aram Varjarbedian	8/18/21	Completed
8/25/21	14466	PS 4	yard weeds	JT, LB Weedwack area apply weedkiller. resident had called.	Aram Varjarbedian	8/25/21	Completed
8/26/21	14468	Aeration Tank 3	Sanitaire diffuser system repair.	CSE ES as attendant DW and 2 millwrights from IPC Lydon as entrants. Replaced worn hardware and repaired broken pvc.	David Wilson	8/27/21	Completed
8/27/21	14470	PS 4 Building	Assist national grid for gas meter repair	Es jt on site removed bolts inside station to uncover protection for gas meter. Gas co did repair recovered protection	Eric Sutton	8/27/21	Completed
8/27/21	14469	PS 1 Building	Soft starter tripped during transfer loss of power	Es ph on site, reset soft start, due to power loss.	Eric Sutton	8/26/21	Completed
8/27/21	14467	Aeration Tank 3	Sanitaire diffuser system repair.	CSE ES as attendant DW and 2 millwrights from IPC Lydon as entrants. Replaced worn hardware and repaired broken pvc.	David Wilson	8/27/21	Completed

Corrective Maintenance

Status <u>Date</u>	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/28/21	14471	34 - WW Secondary Treatment	Secondary clarifier complex.	Removed sump pump from pit in secondary water collection channel and cleared pump,reinstalled and pumped down secondary scum pit 1	Joe Basler	8/28/21	Completed
8/29/21	14472	23 - WW Pump Stations	PS 1, PS3 Yard area clean up	cut up old aluminum ladders for discard, and cut up large woody brush behind buildings for access and gas meter reading	Aram Varjarbedian	8/29/21	Completed
8/31/21	14474	PS 4 Pump 2	Install new bleeder and pressure gauge	Isolated pump 1. Removed old threaded adapter, nipple and valve. Installed new adapters, nipples and pressure gauge.	David Wilson	8/31/21	Completed
8/31/21	14475	PS A Pump 1	Replace failed guage	Isolated gauge and installed new replacement. 00-100psi	David Wilson	8/31/21	Completed
8/31/21	14473	PS 4 Pump 1	Install bleeder and pressure guage.	Isolated pump 1. Removed old threaded adapter, nipple and valve. Installed new adapters, nipples and pressure gauge.	David Wilson	8/31/21	Completed

Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/4/21	13975	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly	Tested all emergency lighting. Found one failed. David Wilson Corrective work order to follow.		7/14/21	Completed
8/4/21	14099	Fire Extinguishers	WWTF Fire Extinguisher Inspections - Monthly	Inspected all fire extinguishers. Unit outside of blower room on second floor needs to be replaced.	David Wilson	8/2/21	Completed
8/4/21	13837	Eyewash Stations	WWTF Eyewash Inspection - Weekly		David Wilson	7/25/21	Completed
8/7/21	14001	Eyewash Stations	WWTF Eyewash Inspection - Weekly	Tested and inspected all high level alarms and floats.	Joe Basler	8/1/21	Completed
8/9/21	14146	Blower Room Exhaust Fan 1	Monthly operational inspection	David Wilson		8/1/21	Completed
8/9/21	14147	Blower Room Exhaust Fan 2	Monthly operational inspection	David Wilson		8/1/21	Completed
8/19/21	14064	PS 9	PS #9 Inspection - Monthly		David Wilson	8/5/21	Completed
8/19/21	14067	PSA	PS #A Inspection - Monthly		David Wilson	8/5/21	Completed
8/19/21	14060	PS 5	PS #5 Inspection - Monthly		David Wilson	8/5/21	Completed
8/19/21	14063	PS 6	PS #6 Inspection - Monthly		David Wilson	8/5/21	Completed
8/19/21	14059	PS 4	PS #4 Inspection - Monthly		David Wilson	8/5/21	Completed
8/19/21	14055	PS 1	PS #1 Inspection - Monthly		David Wilson	8/5/21	Completed
8/19/21	14056	PS 3	PS #3 Inspection - Monthly		David Wilson	8/5/21	Completed
8/19/21	14123	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms	Recent July insp sticker. No issues, 128,000+ MILES INCL OIL CHG.	Aram Varjarbedian	8/2/21	Completed
8/30/21	14003	Eyewash Stations	WWTF Eyewash Inspection - Weekly		David Wilson	8/15/21	Completed

Status	WO#	Accet Name	Work Description	Work History Note	Employee	Schedule	Status
Date	WO #	Asset Name	Work Description	Work History Note	Employee	Date	

Status	WO#	A 4 No	Mode Description	Wards History Nata	Formione	Schedule	Status
Date		Asset Name	Work Description	Work History Note	Employee	Date	Otatas
8/4/21	13863	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly	Inspected air filter elements. Replaced with clean.	David Wilson	7/22/21	Completed
8/4/21	13842	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	7/26/21	Completed
8/4/21	13846	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	7/26/21	Completed
8/4/21	13850	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	7/28/21	Completed
8/4/21	13950	Generators "All Pump Station"	Generator Weekly - Test Run no load		David Wilson	7/26/21	Completed
8/4/21	14016	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	8/4/21	Completed
8/4/21	13862	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly		David Wilson	7/27/21	Completed
8/5/21	13866	Effluent Pumps	Effluent Pump - Monthly	All pumps operated during Aug 4th to Aug 5th high flow event. No issues	Aram Varjarbedian	7/15/21	Completed
8/7/21	13942	High level floats	Weekly High Float Alarm test	Tested and inspected all high level alarms.	Joe Basler	7/25/21	Completed
8/9/21	13955	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	7/25/21	Completed
8/9/21	13925	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		David Wilson	7/29/21	Completed
8/9/21	13933	GasAlert Max XTII #2	monthly calibration		David Wilson	7/29/21	Completed
8/9/21	13926	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		David Wilson	7/29/21	Completed
8/9/21	13927	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		David Wilson	7/29/21	Completed
8/9/21	13928	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		David Wilson	7/29/21	Completed
8/9/21	13929	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		David Wilson	7/29/21	Completed
8/9/21	14100	GasAlert Max XTII #1	4 gas meter calibration - monthly		David Wilson	8/1/21	Completed
8/9/21	14139	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	8/1/21	Completed
8/9/21	14124	High level floats	Weekly High Float Alarm test		David Wilson	8/1/21	Completed
8/9/21	14011	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		David Wilson	8/1/21	Completed
8/9/21	14134	Generators "All Pump Station"	Generator - Monthly Load Test		David Wilson	8/1/21	Completed
8/9/21	14107	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		David Wilson	8/1/21	Completed
8/9/21	14089	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/4/21	Completed
8/9/21	14088	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		David Wilson	8/4/21	Completed
8/9/21	14093	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/4/21	Completed
8/9/21	14083	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/4/21	Completed
8/9/21	14097	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	8/4/21	Completed
8/9/21	14079	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/4/21	Completed

Status Date	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/9/21	14087	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	8/4/21	Completed
8/9/21	14073	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/4/21	Completed
8/9/21	14078	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		David Wilson	8/4/21	Completed
8/9/21	14069	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/4/21	Completed
8/9/21	14077	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		David Wilson	8/4/21	Completed
8/9/21	14030	Secondary Clarifier 1	Clean Launder Screens - Quarterly		David Wilson	8/2/21	Completed
8/9/21	14068	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		David Wilson	8/4/21	Completed
8/9/21	14031	Secondary Clarifier 2	Clean Launder Screens - Quarterly		David Wilson	8/2/21	Completed
8/9/21	14132	pH meter	Clean and Calibrate		David Wilson	8/1/21	Completed
8/11/21	14024	Influent Pump 4	Monthly Check Pump Couplings		David Wilson	8/4/21	Completed
8/11/21	14020	Mechanical Screen & Washpress System	Monthly Maintenance		David Wilson	8/2/21	Completed
8/12/21	14054	PS 1	PUMP STATIONS - QUATERLY PM'S	Inspected hubs, couplings, pump seals, motor seals and valves. Exercised all valves. Greased all bearings. No unusual noises or vibrations. Ground water coming into dry well at mid level. Notified Pete Lyons.	David Wilson	8/3/21	Completed
8/19/21	14071	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/18/21	Completed
8/19/21	14075	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/18/21	Completed
8/19/21	14081	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/18/21	Completed
8/19/21	14085	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/18/21	Completed
8/19/21	14091	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/18/21	Completed
8/19/21	14095	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/18/21	Completed
8/19/21	14008	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	8/16/21	Completed
8/19/21	14090	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/11/21	Completed
8/19/21	14084	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/11/21	Completed
8/19/21	14094	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/11/21	Completed
8/19/21	14074	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/11/21	Completed
8/19/21	14080	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/11/21	Completed
8/19/21	14070	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/11/21	Completed
8/19/21	14066	PS A	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/3/21	Completed

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/19/21	14065	PS 9	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/3/21	Completed
8/19/21	14062	PS 6	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/3/21	Completed
8/19/21	14058	PS 4	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/3/21	Completed
8/19/21	14061	PS 5	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/3/21	Completed
8/19/21	14057	PS 3	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/3/21	Completed
8/19/21	14135	Generators "All Pump Station"	Generator - Annual PM		Eric Sutton	8/15/21	Completed
8/19/21	14136	Generators "All Pump Station"	Generator Weekly - Test Run no load		Eric Sutton	8/16/21	Completed
8/19/21	14012	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	8/16/21	Completed
8/19/21	14104	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Eric Sutton	8/16/21	Completed
8/19/21	14017	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	8/11/21	Completed
8/19/21	14018	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	8/18/21	Completed
8/19/21	14140	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	8/8/21	Completed
8/19/21	14141	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	8/15/21	Completed
8/19/21	14121	Chlorine probe ATI	ATI, change membrane	AV,JB CHANGED MEMBRANE AND SOLUTION	Joe Basler	8/1/21	Completed
8/19/21	14118	Chlorine probe ATI	Weekly calibration	Cal against lab.	Joe Basler	8/16/21	Completed
8/19/21	14117	Chlorine probe ATI	Weekly calibration	Completed with Aug 19th service	Joe Basler	8/2/21	Completed
8/19/21	14120	Chlorine probe ATI	Change electrolyte	Changed when changing membrane	Joe Basler	8/1/21	Completed
8/19/21	13935	Chlorine probe ATI	Weekly calibration	Completed Aug 19th	Joe Basler	7/19/21	Completed
8/19/21	14048	Primary Sludge Pump 1	Monthly Check Pump Couplings	New pump installed July 2021. Ran ok and minimally, since PC is off line	Aram Varjarbedian	8/4/21	Completed
8/19/21	14049	Primary Sludge Pump 2	Monthly Check Pump Couplings	New pump installed Aug 2021 and new overload relay in panel by Hivoltage	Aram Varjarbedian	8/4/21	Completed
8/19/21	14126	High level floats	Weekly High Float Alarm test	,p	David Wilson	8/15/21	Completed
8/24/21	14013	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	8/23/21	Completed
8/24/21	14009	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	8/23/21	Completed
8/24/21	14137	Generators "All Pump Station"	Generator Weekly - Test Run no load		David Wilson	8/23/21	Completed
8/24/21	14105	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		David Wilson	8/23/21	Completed
8/26/21	14125	High level floats	Weekly High Float Alarm test		David Wilson	8/8/21	Completed
8/27/21	14026	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly	Inspected air filter. Replaced with a clean filter. Washed take off.	David Wilson	8/24/21	Completed

Status Date	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/27/21	14029	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly	Inspected air filter. Still clean. Blower offline.	David Wilson	8/26/21	Completed
8/27/21	14032	Aeration Tank 1 Oxygen Probe	AT #1 DO Probe Clean and Calibrate - Monthly	Cleaned and inspected LDO probe. Calibrated sensor0.3 offset.	David Wilson	8/3/21	Completed
8/27/21	14033	Aeration Tank 3 Oxygen Probe	AT #3 DO Probe Clean and Calibrate - Monthly	Cleaned and inspected LDO probe. Calibrated sensor88 offset.	David Wilson	8/3/21	Completed
8/30/21	14072	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/25/21	Completed
8/30/21	14076	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/25/21	Completed
8/30/21	14082	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/25/21	Completed
8/30/21	14086	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/25/21	Completed
8/30/21	14092	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/25/21	Completed
8/30/21	14096	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/25/21	Completed
8/30/21	14019	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	8/25/21	Completed

	Asset ID	Asset Description	Asset Class	Name	Workflow Class
8/19/2021 8:11	01-020	3 ARTHUR ST	Hull Parcels	Sutton, Eric	Hull - Markout
8/10/2021 11:39	02-026-A	1 CHANNEL ST	Hull Parcels	Sutton, Eric	Hull - Markout
8/24/2021 10:17	09-094	12 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/24/2021 10:00	09-095	8 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2021 13:08	10-013	39 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2021 13:07	10-017	29 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2021 10:33	10-023	0 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/9/2021 10:06	11 N Truro St	11 N Truro St Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
8/5/2021 11:49	13-045	4 T STREET	Hull Parcels	Sutton, Eric	Hull - Markout
8/5/2021 11:45	13-045	4 T STREET	Hull Parcels	Sutton, Eric	Hull - Markout
8/9/2021 12:24	13-133	303 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/12/2021 14:00	15 Logan Ave	15 Logan Ave Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
8/19/2021 9:42	15-104	259 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/23/2021 12:47	23-005	547 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/10/2021 12:05	23-038	125 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout
8/4/2021 13:28	25-079	43 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2021 10:37	26 Rockview Rd	26 Rockview Rd Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
8/5/2021 11:48	27-137	11 WHITEHEAD AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/5/2021 8:15	33-042	297 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Sewer Backup
8/5/2021 10:06	33-042	297 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Sewer Backup
8/4/2021 13:35	33-128	39 MERRILL RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/27/2021 13:31	35-070	26 ROOSEVELT AVE	Hull Parcels	Sutton, Eric	Hull - Sewer Backup
8/2/2021 10:45	36-060	61 BAY STREET	Hull Parcels	Sutton, Eric	Hull - Markout
8/4/2021 14:14	45-168	56 NORTH TRURO ST	Hull Parcels	Sutton, Eric	Hull - Markout
8/6/2021 14:30	49 Rockaway Ave	49 Rockaway Ave Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
8/23/2021 12:45	51-041	23 STONY BEACH RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/2/2021 11:13	53-033	124 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/6/2021 14:09	54-029	16 DRIFTWAY	Hull Parcels	Sutton, Eric	Hull - Markout
8/4/2021 12:55	56-001	1 HARBOR VIEW RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/4/2021 13:02	56-037	1153 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2021 13:12	MH-20236	SEMS_Asset	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection
8/19/2021 13:16	MH-20390	SEMS_Asset	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection
8/9/2021 12:19	MH-20490	SEMS_Asset	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection
8/5/2021 8:41	MH-20818	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Hull - Sewer Backup
8/5/2021 9:53	MH-20818	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Hull - Markout