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COMMITMENT & INTEGRITY DRIVE RESULTS

# HULL WATER POLLUTION CONTROL FACILITY

# **MARCH 2021**

# MONTHLY OPERATING REPORT



NPDES NO. MA0101231

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#### **Cover pictures:**

[top] 8-inch Premier/Vortex portable pump set up at SMH-2 for secondary effluent bypass of the effluent wet well to the CCT.

[bottom] Aerated grit tank – bottom screw [broken wall bearing]

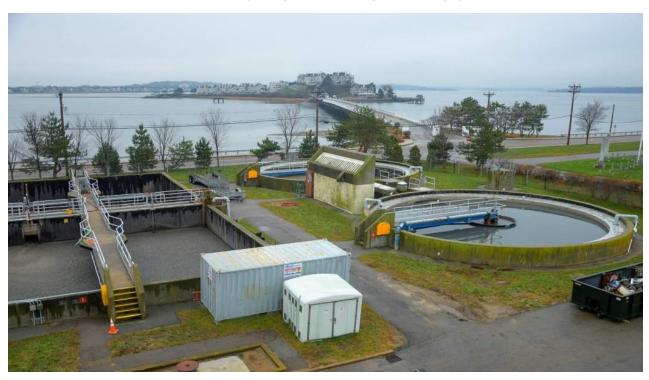
#### 1 EXECUTIVE SUMMARY

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

- No lost-time incidents for the month of March.
- Continued/On-going covid-19 safety operations: Regular daily operations and staff scheduling.
   On-going coordination with vendors and contractors for project work. Following CDC, Town, State and Company with mandated safety protocols and mask use. Staffing levels normal as it pertains to covid19.
- There were **154** effluent samples taken in the month of March [details on page (12).] All effluent samples collected were compliant. The average daily flow for the month was 1.003 MGD. A total of 3.04 inches of rainfall was recorded, with the highest daily total amount on 3/31. Process conditions were and compliant.
- The were no Sanitary System Overflows [SSO] reported.
- The plant and collection system odors remained low due to low sewage temperatures The Bioxide system was dosing at low rates for most of the month.
- Worked on aerated grit system to get system operational. Grit pump room work, tank cleaning, grit screw issues due to failed support bearings.
- Co-ordinate efforts for plant effluent bypass, either with total plant shutdowns or effluent bypass pumping.
- The 06M Asset Management Accounts checkbook summary and planned expenses updated for contract year #6 are attached. Latest revision date: 5/9/21.
- There was 1 grinder pump call outs during the month of March with one pump replacement.
- W&C O&M continued to support the Engineering projects remaining HW and pump station punch list items PS9, PS5 and effluent gate projects, & planned HVAC and other plant engineering upgrades.

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**

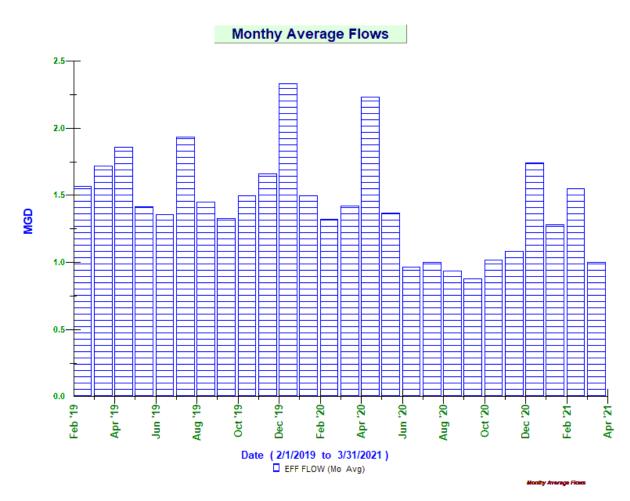


#### Average Daily Flows and Loadings for the Month:

	Eff Flow MGD	Inf Flow MGD	Inf BOD LBS	Inf TSS LBS	Eff BOD LBS	EFF TSS LBS
Mar 2019	1.715	2.010 *	919	1750	54	117
Mar 2020	1.421	1.578*	1656	3776	55	115
Mar 2021	1.003	1.166*	2557	3365	26	66

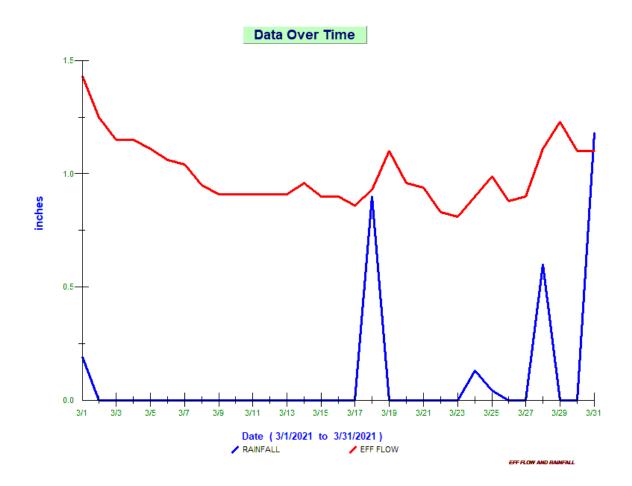
<sup>\*</sup> On-Going -The influent flow meters are strap on doppler flow meters, and the internal pipe condition prevents getting a strong signal. The staff utilizes the area velocity meter in the aeration tank inlet channel as well as the headworks influent Parshall Flume meter. All reported loadings are based on the effluent flow meter. All meters are tied into the Scada system so that influent flows can be monitored. Flows in 2020 are lower due to improvements in the collection system to reduce inflow and infiltration.

#### 2.1 AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

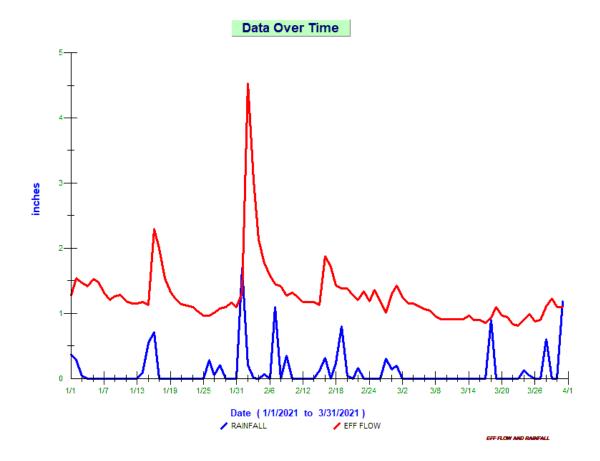


The monthly average flow for March was 1.00 MGD, lower than the previous few months. The total precipitation for the month was 3.04 inches. The graph shows the 2-plus year summary of the monthly average flows.

#### 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 a couple of wet days in March. The wet weather had little or no impact on plant flows.



This graph shows the data from the last 3 months and there was some minor flow impact from wet weather.

#### 3 COMPLIANCE



#### > Plant Effluent

There were no permit exceedances in the month of March.

• Plant process conditions were stable during the month. Adjustments to the timed aeration schedule were made as needed. The flow related impacts from February and plant flow stoppages for the secondary effluent gate work did create process conditions where filamentous bacteria growth in the MLSS occurred. Sludge settleability was slowed and dark greasy foam/sludge mats were evident on the surfaces of the SC and aeration tanks. Chlorination of the RAS was started on March 10<sup>th</sup>, and an increased sludge wasting plan was enacted. After a few weeks, improvements were seen and SC #1 was taken offline, as it was not needed. No compliance issues. Pictures below.

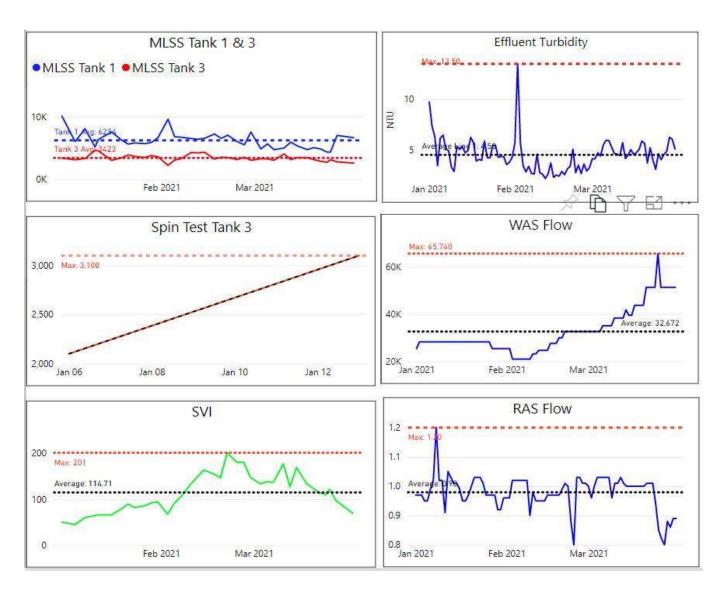


- A Copy of the monthly NPDES reports for March 2021 was submitted to the EPA & DEP and then forwarded to the Hull Sewer Dept.
- The 1st quarter toxicity report was submitted.
- Weekly sampling schedule adjusted to accommodate capital projects and flow shutdowns/bypasses.
- MA Tier 2 Hazardous chemical inventory report for 2020 submitted. Plant site plan pictured below.

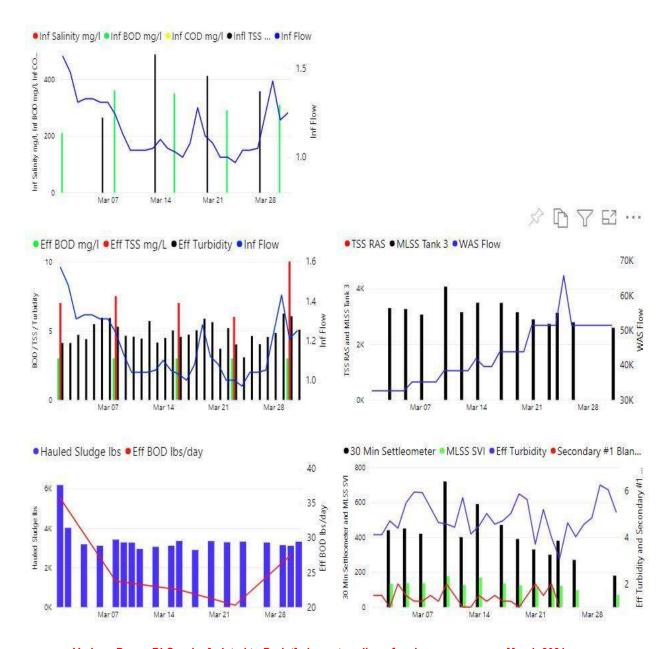




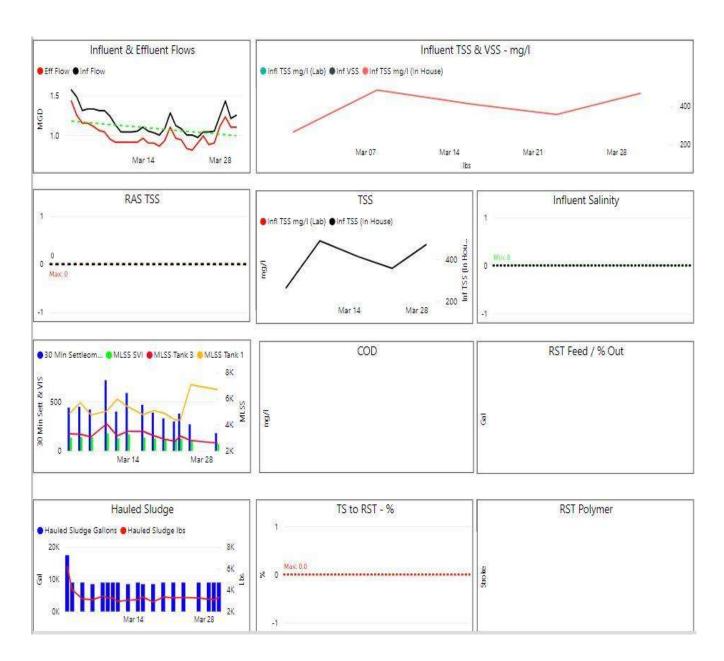
Monthly Process Summary graphs from power BI – March 2021.



Graphs shows trending of secondary processes using Power BI for the 3-month period ending on 3/31/21. The tank solids levels under aeration showed a decrease, since wasted gallons were increased to get the solids inventory lower and waste out some of the undesirable filamentous bacteria. Sludge settling that is measured as SVI [sludge volume index] had been slower, showed an improvement and trending towards a lower value [a positive sign]. Effluent turbidity was stable.



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



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

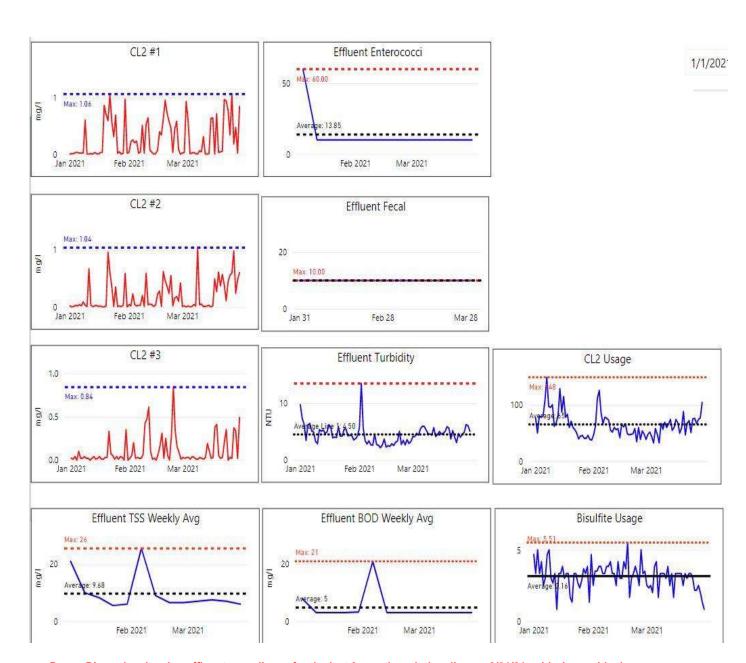
### **4 KEY PERFORMANCE INDICATORS**



#### 4.1 WATER QUALITY - MARCH 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	7.5	6.0	10.0	5	0
Eff TSS	LBS			1152	768	1 X Week	65.5	40.5	91.7		0
% TSS Rem	%		85			1 X Month	98.1				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	26.0	20.3	35.8		0
% BOD Rem	%		85			1 X Month	99.0				0
Eff Chlorine	MG/L	1.0			0.7	3 X Day	0.23	0.01	0.64	93	0
Eff Fecal	#/100 ML	260			88	1 X Week	10	10	10	5	0
Eff pH	SU	8.5	6.5			1X Daily	6.9	6.5	7.2	31	0
Enterococci	CFU/1 00 ML	276			35	1 X Week	10	10	10	5	0

There were <u>154</u> effluent samples taken in the month of March.

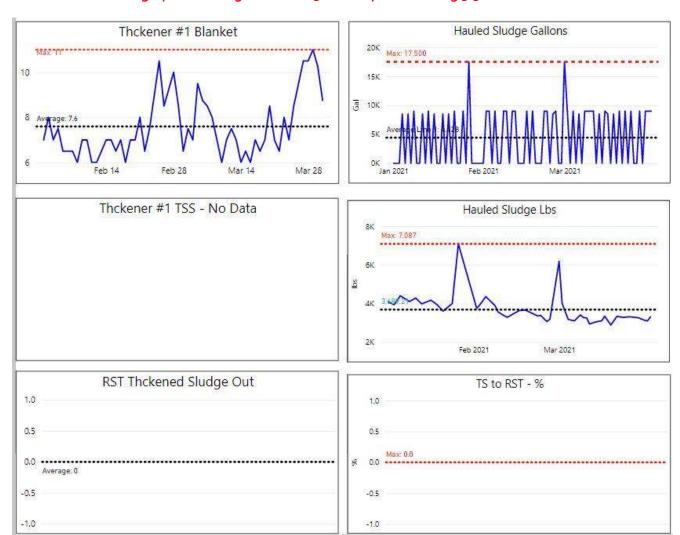


Power BI graphs showing effluent compliance for the last 3-month period ending on 3/31/21 - chlorine residuals, effluent compliance, & chemical use. Bleach [sodium hypochlorite] & sodium bisulfite trending same/slightly lower, and effluent quality was stable.

#### **Gallons Treated vs Sludge Disposed**

Month	Effluent Treated, MG	Sludge Disposed, Gals
March 2019	53.17	114,500
March 2020	44.05	161,000
March 2021	31.09	177,500

#### Additional Power BI graphs for sludge solids for 3-month period ending 3/31/21.



#### 5 ODOR CONTROL

There were no odor complaint calls received during the month of March for the wastewater facility. There were some issues with floating sludge on the surface of the secondary clarifiers and intermittent surface spray water was needed. Adjustment made and sludge wasting increased from process that overloaded the gravity thickener and some odors were seen. The gravity thickener and primary clarifier were both online. The Bioxide system was on and the feed rates were gradually increased until improvement in data seen at Nantasket/Water MH. Overall feed rate was still low in the month of March. The monthly graphs are attached below.

- "In-Pipe" bacteria addition continued with all 24 Microbe Dosing Stations [MDU] operational. The monthly bottle changes were completed on 3/11/21. The bi-weekly change outs of the bacteria bottles at three lift stations in the wet wells or manhole just prior to the station. [PS 3, PS 5, PS 9] were done on 3/23/21.
- Mixing systems/aerators were all functional and in timed mode at the pump stations wit, except for pump station #3. [Bioxide addition is at PS 3].
- Hydrogen sulfide monitoring units [H2S] were recording and being trended on the odor scrubber for monitoring inlet and outlet H2S levels. Weekly neighborhood monitoring around the plant done with portable Jerome meter weekly.

[pictured below: 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 as close to the plant has had no H2S present.



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 excess nitrate concentration in the sewage is available to treat the additional H2S contributed from other parts of the system – PS4, contributions from lines feeding the interceptor, PS5, PS6, etc. all the way to the plant.

There were low H2S levels in the system for most of March mostly due to lower wastewater temperatures and limited wet weather events.

#### **6 MAINTENANCE SUMMARY**

#### 6.1 TASKS COMPLETED THIS MONTH

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

Key items of note are listed below.

- Several confined space tank entries were made into the aerated grit chamber to perform initial inspections and repairs to the grit screw, which subsequently failed due to a seized wall/cap bearing. Follow up tank draining, and cleaning was performed to determine cause for failure. Sub-contracted with IPC-Lydon to potentially repair the screw only to find that the corrosion of the shaft was too significant to consider repairs. The repair plan was scrapped as repair costs were high and uncertain, new grit system may be fast tracked, and W&C had some ideas to change the diffuser location to create enough mixing to allow the grit pump to function as intended and pump to the grit classifier.
  - o 3/3 Hoadley vac truck in for grit tank cleaning. 3000 lbs. of grit to Hull landfill.
  - On 3/5 After cleaning out grit tank found grit screw at drive side missing bolt and half of a flight.
     Added two new bolts thru stub shaft with limited modifications and ready for service.
  - On 3/9 CSE into pump room, inspect pump, exercise valves, tighten belts, test run pump. Room
    condition was dusty due to HW area work. CSE to grit pump room. Assisted by ES and BB, tighten
    belts, flush lines, exercise valves & inspect pump operation. Room very dusty from HW area work.
  - 3/16-17 CSE into grit pump room try to tighten gland to stop leakage, ran system with plant water and then drive coupling failed and significant leakage started. AV & DW Confined Space Entry with other assisting for 2+ hours in grit pump room pulling about drive coupling failure, packing gland, and inspecting system,
  - March 18<sup>th</sup> Inspected grit system screw at tail shaft today using push camera and found stub shaft broken off at wall. Made inquiries on repairs and custom fabrication ideas with contractors,
  - IPC Lydon on site March 30th 3-person crew for grit tank entry to remove grit screw from trough and to remove babbited bearings. Bearing failure both sides and screw shaft rotted on ends and in poor condition.
  - On March 31st CSE into aer grit tank to move grit screw to the side. Also, CSE into grit pump room to remove stub shaft and blank off opening to prevent leakage into grit pump room.

    Pictured: grit screw shaft that goes into the grit pump room, grit screw shaft bearing failure, grit pumps in grit pump room.











LS A - Assisted by BB, ES, and Glenn F. Many site visits to address failed pump. Pull failed CCW assembly with 4/2012 motor code on 3/2. Deliver to repair shop [IPS -Industrial Pump Sales] where it was determined that the mechanical seal had failed, and water shorted the motor windings. IPS installed the CCW impeller on a spare motor assy [date code Y 01] that was a spare at the plant. W&C installed on 3/9 and it test ran ok and online. After several days in service this assembly developed a loud bearing noise. The pump was shut off, evaluated, and then removed from service and brought back to IPS for inspection. A bad motor bearing was found and a rebuild was needed.

Other issues to be addressed at LS A – leaking discharge pipe, leaking suction valve for pump #2.

- March 22<sup>nd</sup> Tecta America in for annual roof inspection for Ops building and other building roofs at the plant. Report to follow with condition assessment and recommendations.
- On March 31st Found PS5 generator leaking coolant reported by Brian K. Determined that water had pump seal failed. Gen service company contacted, and a replacement unit ordered.
- On March 30<sup>th</sup> Install new rotating assembly for RAS pump #3.
- PS #9 replace sump pump and discharge check valve in pump room. PS #4 install new discharge check valve.
- Meet D&C at PS #5 on Mar 4<sup>th</sup> for insertion of plug-in road, and station shutdown for upgrade work to begin.
- On Mar 8<sup>th</sup> Hoadley dumped some grease and trash removed from PS5 wet well cleaning at plant dump pit related to PS5 construction. Plant staff cleaned out the debris.
- On Mar 11<sup>th</sup> Jody S worked with IPC Lydon in Secondary Gallery to remove failed mag meter and associated piping. New PVC line section installed and installed an older [working] strap-on ultrasonic flow meter.
- On March 14<sup>th</sup> Bring down all the boxes from the HSD designated as trash and dispose in 2-yd cart in grit classifier room. Then lower bins and boxes to garage from second floor for Iron Mountain pick up.

Whipps [gate Mfr] onsite for effluent gate inspection with D&C. W&C decided to fill AerTk as EQ storage rather than doing a plant shut down, Whipps greased the shaft and worked the isolation gate through the range and the seals functioned fine. Gate is operational. Discussed other gate issues – influent gate, D-box, etc.

**PIC** 

• Glenn F - installed new lighting in sludge pump room due to failed fixtures and repaired defective/broken electrical conduits. Also, added an additional light fixture in the 2<sup>nd</sup> floor storage area. All new fixtures are LED.



• Various hypo system leaks addressed. [tubing connections and piping]



 Water pump on the generator for PS5 seal failure. Gen service company has a refurbished unit on order since the engine is obsolete now.



#### 6.2 ASSET MANAGEMENT ACCOUNTS

- Please see the attached summary and planned expenditures for the Asset Management accounts for contract year (6). Most recent through 05/09/21.
- Note: there are several purchase orders still open for ongoing and planned maintenance that are pending in the 06M budget. These projects are being reviewed on a regular basis with the HSD and costs updated in the year #6 checkbook. A detailed summary of 06M projects pending presented to the HSD on 3/18/21.

#### 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 March.
- Monthly PM's Emergency eyewash and shower inspections, fire extinguisher and emergency lighting inspections completed.
- On-going Coronavirus Covid-19 awareness and updates discussed daily & as needed. Staff separation, facility visitors, personal hygiene & company initiatives. Daily non-contact temp checks for staff & visitors. Work with onsite contractors to ensure that Covid-19 procedures in place and being followed. Continue to work with O&M health & safety, W&C Engineering, to ensure safety protocols in place for the ongoing engineering projects at the facility. Vaccines: what to know, effectiveness, availability.
- On-going daily safety briefing meetings with staff, covid updates & reminders, site specific safety policies for sub-contractors, safety tailgate meetings. Pure Safety topic– March – Compressed gas safety.
- Monthly staff safety meeting conducted on 3/30/21. the staff participated virtually via Microsoft Teams. Major topics discussed: Review Lessons Learned for Feb 2021, aerosol cans safety in handling and disposal, Sun/UV safety, nutrition, and tick safety [company hosted review session].
- Discuss Operations updates/reminders
- New corporate H&S "Hub" safety tracking program initiated/rolled out
- Solicit for annual hoist inspection with Applied Dynamics.

pic

#### 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 February discussed.
- Staff completed "Conflict-of-Interest" training per State of MA mandate and at request of the Town.
- Regular 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.
- No off-site training currently due to Covid-19 limitations & conditions. Staff continued to use the virtual training sessions offered through NEIWPCC. These modules to be used for training, educational advancement, contact hours for wastewater license renewal, and certification exam preparation. Sessions attended: Pumps, collection systems, math, solids handling, wastewater processes.

#### Staffing related items:

- The regular staff labor was supplemented with the two O&M Specialists to cover all the necessary shifts, since the regular staff was reduced by one person [on medical leave] through early March. Paul Horigan and Jody St. George provided the assistance.
- Weekend staff schedule posted that will have some Saturday staff coverage on overtime basis.
- Bill Boornazian [APM] submitted resignation letter effective 4/16/21, as he is moving on to a position out of state and not with W&C. Posting for replacement being worked on.
- No status change Mass Maritime [MM] internship program on hold until possibly summer 2021.
- No changes made to the Sunday schedule plan. Coverage continued with Aram V., Roger B., and Joe B.

#### 9 COLLECTION SYSTEM

#### 9.1 WET WELL CLEANING

The actual schedule for wet well cleaning: May 2020 to April 2021:

(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, 2020	Х				Х							
June, 2020												
July, 2020	X			X								
Aug., 2020												
Sept. 2020	X											
Oct.,2020	Х			Х	Х							
Nov, 2020												
Dec., 2020	Х			Х	Х							
Jan., 2021												
Feb., 2021					Х							
March 2021					Х							
April 2021												

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 March.

- 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 March. Monthly Pump Station Inspections completed and combined with monthly station PM's.
- Upload tie-cards to the UC as requested.

- Grinder pump summary:
  - o 73 Park Ave. pump and chamber loaded with rags/debris and not operational. The pump was replaced late in the day on 3/30 with a rebuilt pump. The control panel will need to be replaced in early April.

#### 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, 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 where able to complete them. Most of the calls were for water main breaks/gas company emergencies.
- 3/1 75 Main Street backup and blockage call sewage on side of house and suspected a broken pipe under the house - recommended plumbers to the homeowner.
- 3/14 61 Barnstable grinder pump call [call came in on 3/13]. Responded & issue appeared to be an in-home blockage. Chamber, pump, and control panel all were ok. Homeowner ran water & pump cycled on as it should.
- Mid-month for several days dig safe mark out work for Town Roadway & Storm drain work.
   House laterals and various sewer mains marked out.
- 58 Harborview back-up call out on 3/22 verified flow in the street. Used push camera to find the lateral connection at location 76 ft. No obstructions found.
- 23 "O" Street call out on 3/25 for water in driveway. Inspected by DW and KA water issue with line to the house leaking. Advised homeowner to contact the water department.
- 9 Glover Ave slow flow and backing up into the house. Checked the manhole in the street and found accumulated debris and paper hanging up on an exposed stud or something similar in the invert. The clog was cleared.
- Sewer back-up call to California Underground. ES investigated and found that the street was ok.
   The push camera was used to locate the service. Additional area cleaning was recommended.
   Truax was consulted and will be contracted to jet clean the lines at a future date.
- 3/19 32 Dellawanda [owner owned grinder pump] provide assistance/recommendations for homeowner to address issues.

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

#### 10 PROJECT MANAGEMENT & ADMINISTRATION



#### 10.1 ON-GOING PROJECTS AND SUPPORT ITEMS

#### March updates:

- Ongoing support of engineering projects review and provide feedback and participate in calls as available. Continued support and follow up calls for cleanup in areas related to the headworks & Pump Station concrete work. Provided updates on cleaning status, hazardous materials disposal, and PS access. Continued work with the Town, W&C Engineering, and D&C Construction to kick off the effluent pump room and PS5 projects. Other items listed below:
  - Hosted design team on site for 2 days 3/30-31 for ongoing engineering project review of Ops building structural building needs
  - BB support Audrey 3/1 with pump station concrete repair cleanup final inspections improved conditions found
  - o On 3/2 Engineering update call with Town, W&C, & Weston and Sampson
  - BB assist Hatch group on 3/5 with site walk and questions with Brian for flood berm project
  - BB coordinate with Egan on painting headworks door slab plan for no access unless emergency for remainder of week for the 3-coat process. Completion of LS A door painting.
  - Structural Call 3/16 about interior architectural work planning for plant upgrades project
  - o WPCF DBR call on 3/19
- Conference calls on PS#5 / Effluent pump room project, coordinate with D&C Construction for remote PS work at PS4 and LS A, and special MH [SMH-2] at plant. Calls/coordination calls with D&C and Engineering on the effluent MH, gate, and effluent pump room. FEMA grant meeting, berm project.

- Provided data requested for annual CMOM report. [AV, BB, RS].
  - Number of grinder pump service calls
  - Number of dig safe mark outs
  - Appendix A Updated copy of the WPCF implementation schedule and collection system plan originally put together by Ops and Engineering team
  - Appendix B Collection system work orders
  - Appendix C Completed CMOM expenditures by W&C
  - Appendix D SSO summary table
- Co-ordinate plant flow shutdowns for SMH-2 project and return plant to service. SMH gate
  questions/assistance as needed. Also assist at PS5 as needed for construction work to start
  there. Pictured: New secondary isolation gate that isolates flow to the effluent pump room.



- Making the necessary arrangements for the installation of two "deraggers" at PS#3 to help reduce the pump and check valve clogging/ragging issues. Mechanical Solutions Inc will provide the installation and be assisted by W&C and an electrician.
- Waiting for confirmation from HSD on corrective action plan for the Ocean Ave sewer line that
  is tuberculated and has a restricted section. Truax has a small trailer jetter unit that is used on
  smaller pipes in conjunction with a chain knocker attachment with a spinning cable that
  contains carbide tips.
- Project On Hold: Sludge holding tank #1, the installation of diffuser piping. Having an
  additional tank for waste activated sludge storage would add to the storage capacity during the
  warmer months. Still to investigate what spare parts are on site and the additional parts/items
  needed. An update on the existing inventory of parts will be made with a recommended
  purchase cost and presented.

- Scope of work for PS 4 needs to be worked out more as it remains unclear whether the work would be done by D&C Construction or another contractor. The scope of work and materials needs to be finalized with another site visit needed.
- Continued work and discussions with the HSD on the radio/communications proposal project for communication between the plant and the pump stations. Follow-up call by Rob S. to HSD & W&C, and W&C was given the authorization to proceed in late March. As a follow up, Doug Tirrell did some research on MGL and applicability to this Communications Project – professional services and materials.
- Obtained quotes for the Ops building backside overhead roll-up door that is in poor condition and falling apart. Currently the door is inoperable. Solicited quotes for replacement.
- Evaluating replacement sludge transfer pumps to replace the CH&E pump. Install pressure
  gauge on working pump to determine discharge pressure when pumping sludge to the tanker
  truck. Vendors from two companies being looked at.
- D&C assisted W&C staff on March 24<sup>th</sup> with the Vortex 8" pump set up at SMH-2 with discharge hoses to CCT #1 for use during the week of April 4<sup>th</sup>. W&C worked on feeding a new PVC tube through the chemical manholes to sec building for the bypass hypo feed to SMH-2.
- Assisted the HSD where requested for litigation support and data requests Rob Scott & Steve Rose.
- Evaluation of replacement costs for the pumps at LS A. Soliciting information and quotes for pump replacement from several vendors.
- Coordinated installation of the new effluent mag flow meter, with preliminary electrical work completed. Completion expected in early April. Pictured: old Magmeter in between valves.



- 06Z billing assistance provide as requested.
- Researching needs foe various aluminum hatches in facility

- Reach out to Mersino Dewatering [formerly Vortex] for influent and effluent HDPE pipe tube fabrication.
- Influent FM pipes in sub-basement area of concern and being monitored. Outer pipe layer corroding away and breaking away from remaining pipe. Looking at repair options.



- GT sandblasting/painting preliminary look at the possibility to have this project occur during the summer season 2021. Coatings inquiry to Mfr.
- Set up for D Street PS inspection and anode inspection with Ind Pump Sales pending delivery of the anode blocks.
- Roof report review on pending repairs, upcoming HVAC planned roof modifications, and general life expectancy of the existing roof.

		^	sset Management A	ccounts - rear o				
			Actual to date		Projec	ted for Final Estima	ate	
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta	
06M-101A	Preventive Maint	\$210,555.68	\$137,523.31	\$73,032.37	(\$28,300.00)	\$109,223.31	\$101,332.37	
06M-102B	Capital and Major Repairs	\$140,000.00	\$128,208.15	\$11,791.85	\$80,077.00	\$208,285.15	(\$68,285.15	
06M-103A	Major Sub Contractors	\$178,370.75	\$210,570.99	(\$32,200.24)	\$0.00	\$210,570.99	(\$32,200.24	
blank					\$0.00			
	Asset Management	\$528,926.43	\$476,302.45	\$52,623.98	\$51,777.00	\$528,079.45	\$846.98	

	Time	Time Status						
Budget expended	NOW=	5/9/2021						
experided	Start	5/1/2020						
65.3%	102.3%	37.0%						
91.6%	102.3%	10.8%						
118.1%	102.3%	-15.7%						
90.1%	102.3%	12.3%						

\$52,623.98

065	D Street	\$7,500.00	\$4,168.42	\$3,331.58	\$0.00	\$4,168.42	\$3,331.58	55.6%	102.3%	46.8%
06C	Odor Control Chemicals	\$100,000.00	\$95,614.80	\$4,385.20	\$0.00	\$95,614.80	\$4,385.20	95.6%	102.3%	6.7%

Estimated total remaining

\$8,563.76

FOR MARCH 2021 M.O.R.

# Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV) Maintenance Account - Year 6 - 05\_01\_20 to 04\_30\_21

					\$51,777.00			<u>5/9/2021 13:04</u>
Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Mechanical Work Labor by O&M specialists	On Going		101A				Jody St. George, and WC Support Staff - estim \$3000/month; Total budget \$36,000; Incl annual scrubber cleaning, remove old blowers [mech]; Adj made 9/9/20; adj 10/15; adj 11/25; Adj 1/6/21; Adj 1/28/21; adj 3/17/21, adj 4/6/21; adj 4/12
1	Pump and Motor Repairs [invoiced and pcard]	On Going		101A				to keep existing equipment running - utilize various outside contractor repair shops, new purchases. Duperon motor, RST eurodrives, orig budget \$20,000; adj 10/15; RAS motor rewing, influent motor rewind. Adj remaining \$\$ 10/29; Infl Pump #2 repairs - pending impeller repair & motor rewind [11/17]; Adj 11/25; adj 1/6/21; adj made 3/17; adj made 4/12; adj made 4/19; adj 5/3/21 to zero
1	Lubricants	On Going		101A				Various Suppliers for oil and grease. Budgeted \$3500; adj 11/17; adj to \$1,500 1/28; Adj 3/3. Ordered additional lubricants March 2021.
1	Generator Repairs	completed		101A		\$2,760.80		General Repair Work - Original Placeholder \$3,000- PS4- \$2,800 & other; to date cost noted
1	Fire Alarm Inspections and Service	On Going		101A				Semi Annual - Hart Security [October & April , central station, & Service]Orig budget \$3000, as of 11/17 \$1,500 pd.; adj 11/25; Planned April 2021 \$650
1	Universal waste disposal	Pending		101A				Placeholder - \$500; zero the budget, will incur if needed
1		Pending		101A				
1	Service the Forklift	completed		101A				\$400 - Annual cost - outside vendor; work completed. Waiting for report and invoice. 11/17 service completed.
1	Overhead Hoist Inspection	On Going		101A				Annual task - Applied Dynamics - PO is issued for April, PO# 102708
1	Flow meter verification and calibration	Pending		101A				Annual - Ray Ferland 1 visit annually Aug/Sept. On hold as new effluent flow meter set to be installed April 2021 [orig budget \$1,000
1	Facility Building - Roof Inspection	completed		101A				\$2800 Annual Placeholder - Established contract with Tecta America [Visit #3] Bill to be paid late March. Report pending
1	Pump Station #9 - Repairs Immediate	pending		101A				New valve, new check valve, replace pump assembly - Jody St. G. to assist; items rec'd [used upaprox 50% of orig 4,000]; pending to be used if needed.
1	Jerome H2S Meter Inspection	Pending		101A				\$1100 Placeholder for Annual Inspection - sent out includes annual service \$1100; 4/6 - may defe to 07M
1		Pending		101A	- 1			
1	butterfly valves for PW pumps 4 valves	completed		101A				purchase and install - expect November installation [staff & O&M] 11/17 - completed November 2020.
1	Hoisting platform ladder for the AST	Completed		101A				Completed, purchased for use with screenings box - \$600.00
1	Weather Station	completed		101A				Installed by Glenn F, June 2020, programming by SCADA group
1	Janitorial Supplies	On Going		101A				Estimated annual expenditures - Orig budget \$4,000; adj 4 months - 9/9; adj 10/15; adj 1/6/21; adj 1/28; Adj budget to zero 3/24/21
1	Backflow device testing	Pending		101A				done by, 3rd party - orig budget \$400
	Manhole Inspections	Pending		101A				As required,and/or scheduled

1 of 6 5/9/2021

FOR MARCH 2021 M.O.R.

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05\_01\_20 to 04\_30\_21

					\$51,777.00	<u>5/9/2021 13:04</u>			
Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments	
2	General mechanical and electrical items/supplies	On Going		101A				Grainger, FWWebb, EJP, Hoadley, mcMasterCarr, etc; orig budget \$18,000. Adj 9/9/20; adj 10/15; adj 10/29; adj 1/6/21; adj made 1/28; adj made 3/17; adj made 4/6 - budget to zero	
2	IR Survey or Vibration Analysis Survey	On Going		101A				Annual - 2 to 3 Days - Aeration System Blowers, Pump Station Pumps, etc./tbd; possibly Paul H from W&C adj budget to \$2000 1/6/21. Could be 3-4 days of work \$4000; May happen in 07M??Reviewed and EESCO would be the contractor of choice. PO# 102815 - \$5550	
2	Valves	completed		101A				Replacements and/or Service - On-Going - As Needed; Placeholder - Cut planned budget to 2k 10/15; 4-inch valves ordered. May be some additional valves needed for PS 4; adj for plug valves received in Feb/Mar.	
2	Hoses	completed		101A				Replacements and/or Service - On-Going - As Needed; Purchased three 6-inch hoses for the RAS bypass. [\$1800]; orig buget \$3000; addit 6" discharge hoses purchased Dec 2020	
2	Sump Pumps	completed		101A				Replacements and/or Service - On-Going - As Needed - Cut budget from 1200 to \$600 11/17; adj 1/6/21 to zero; Purchasing as needed.	
2	Install 6" or 8" drop pipes in secondary clarifier #1 and #2 OR 8- inch drop pipe for infl manhole	On Going		101A				Targeted budget \$2,000 - In-house staff to facbricate, ? go to 8" pipe? If needed??On hold, since effl MH work will have a standpipe for bypass pumping. Retarget \$\$ for infl MH 8-inch drop pipe, ordered 3/4/21; PO 103621 is in the checkbook. \$1,300; requested quote for effluent dischg pipe [estim \$6,421]	
2	Effluent pump room pump bracket testing	Completed		101A				by Lightship Group - completed Aug 2020. On purchase order cost \$950]	
2		Pending		101A					
2	Misc. Materials	On Going		101A				Hardware Store - \$200.00 per month - reoccurring expense; orig budget \$2,400; adj to \$1,000 on 11/17; adj 1/6/21; adj 1/28; adj 3/17	
2		Pending		101A					
2	PS 1 impellers/flow	Pending		101A				look at increasing size of impellers, after Gunrock work completed; on hold due to area low flows [\$5,000]	
2	Lift Station A	Pending		101A				Pump efficiency lower than desired - new pump or impeller & mech seal	
2		Pending		101A					
3	Install new aeration channel angle iron for a slide gate	Pending		101A				Jody S to install - 2 days, if we do.\$2,500 estimate, or push to Engin project	
3	Install a flow meter on the generator cooling water system - plant water	Pending		101A				Have an estimate [Oct 2018]; possible after 5/1/20	
3	Lockers for the staff - Install	On Going		101A	\$1,500.00			Additional lockers ordered to replace those removed years ago; pending delivery	
3	Purchase (1) spare Euro drives for the RST drum drive	Completed		101A				spare part item now in stock [\$800]	
3	Purchase an LMI pump for the RST	Completed		101A				spare part item now in stock [\$1700]	
of 63 5/9/	2021 Purchase an equipment lift or gantry	Pending		101A	2020_05_01_06M_Ch	eckbook_YTD		planned cost \$2,500 for moving elec hoists around, & other equip; delete item for noveent #624ed co	

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05\_01\_20 to 04\_30\_21

					\$51,777.00	<u>5/9/2021 13:04</u>				
Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments		
Р	Purchase Dehudifiers for pump stations LS A & PS 4, PS 5. PS 6			101A				\$4,000 - orig budget for 4 pump stations - A,4,5,6; delete budget to zero on 4/6;		
		Pending		101A						
	Lab Equip Calibration	Pending		101A				Annual service \$600- usually Jan/Feb. Last done April 2020. Will be May 2021 service		
		Pending		101A						
	Mech seal[s] for RAS pumps ! & 2	Pending		101A				Orig budget \$2,000 - for RAS pumps 1 & 2 - pending, but will need to do. Could defer to 07M;  Adj to zero on 5/3		
		Pending		101A						
	Vaughan chopper pumps - new pump ends for PSL & WAS	On Going		1028				Had Rep in late Feb 2021 to look at all chopper pumps and will provide updated quotes for parts needed. \$\$ TBD. Recommending pump replacement for PSL pump #1; PO issued for \$15,950		
	Purchase Two 6" valves for PS 4	Completed		101A				Estim cost \$1450; Invoice paid.		
	Springs for check valves	Completed		101A				Original budget \$400; Purchased		
1	Tecta Roof Repairs - proposed per 2020 inspection	Pending		1028				Estim: \$7,620.00 - TBD when work to be scheduled; will be in 2020 06M. 4/12 - Pending report for 2021; with report and additional items 4/28 - toal adj up to 24,870.00; on a PO 4/29		
1	(GT) Steel rake mechanism inspection and needed repairs	completed						to be completed by NEPV under critical spares bond account. Completed at end of November.		
1	(SC#1) Steel rake mechanism inspection and needed repairs	Completed						completed by Lydon under critical spares bond account.		
1	(SC#2) Steel rake mechanism inspection and needed repairs	Completed						completed by Lydon under critical spares bond account.		
1	Pri D-Box repairs	Pending		1028				possibly by D&C Construction as part of structural repair project.Estim \$15,000.		
1	Replace scrubber recirc pump	completed	-	102B		\$2,410.80		spare pump ordered & received October 2020, bill pd Nov2020.		
1	Sludge transfer pump #1 rebuild	On Going		102B	\$3,300.00			Estim - parts - \$5,000 and rebuild pump needed. Still on target for rebuild.3/4 update. 3/4/21: Update: Unit sent out for evaluation. Revised quote & repairable. Ok'd for repair - 4/9/21		
1	Dynablend System is obsolete - mixing valve worn - need in kind or like system	On Going		102B				May or may not proceed with replacement, since unit still functioning, and polymer addition point changed and yielding good results. Shuttling down in December 2020. Cost \$12,000 might be held off. Took off list 3/24/21. Put mixing chamber estimate back on list 3/29 - \$5,717.10		
2	grit classifier spare parts	Pending	T T	102B				based on limited spare parts currently. Yet to be ordered [11/17]On hold pending grit screw operability 3/17; On hold 4/6; remove from planned budget 4/12 [\$3,500]		
2	Pump Station Ladders	Pending		102B				We are complete except for PS #9; nothing further planned for PS 9, since new pump station planned.		
2	Sanitaire hardware purchase for aer tk 1	Completed		102B		\$3,054.03		Purchased July 2020		
3 of 62 5/9/	<sup>0</sup> 代eplace 6" potable water valve in basement and misc. valves	Pending		1028	2020_05_01_06M_C	heckbook_YTD		While doing project check/replace 1 1/4 valves as needed - Requires a water shutdowg การสาราชย์ until after 5/1/20; orig planned cost \$3,000.		

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05\_01\_20 to 04\_30\_21

\$61,777.00

		Widnis		\$51,777.00	5/9/2021 13:04			
Priority Description Status completed Task						Final Completed Cost	Lead	Comments
2	Install (4-5) additional yard hydrants	completed		1028	remaining	\$10,563.64		original budget \$\$12,000 - hydrants alreadfy purchased, and materials & contractor installation [2 days]; 1st day completed Aug 2020 - \$5194.88. Second day planned early October - \$5,368.76 3 replacements planned. Completed 10/27; Need to roll up final costs. Hydrants and paving.Nov2020.
	Remaining yard paving - plant - WAS/PSL and by fuel tank	completed		1028		\$4,362.77		For plant work
2	PS 4 valves, check valves - installation	On Going		1028			(1)	Placeholder - After structural work, replace. Valves and check valves. May be a changeorder for D&C Constr.[\$4,000]. Also 1 day for pump & hauling 2 trucks [\$3200]; More \$\$ will be needed here, due to scope changes. On hold 3/17; latest D&C estimate \$18,000; deleted 7,500 budgeted 4/6
3		Pending		1028				
3	Influent Distribution Box - Aerate Primary/Influent D- Box/Overflow Project	Pending		1028				Contracted Project - need State Approval - Facility/Process modification. Facilities Plan possible modification
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
1	Jerome meter replacement	Pending		102B				replace unit, if done \$11,000
-	Rotating Sludge Thickener - Thickened Sludge Pump - rotor/stator	Completed		101A				purchased spare stator approx cost \$900.
	D'Allessandro - WAS line replacement & gate valve	Completed		102B		\$16,018.78		Work Authorization submitted 10/14/20; paid Nov2020.
	GT sandblasting/painting	Pending		1028				Estimate \$45,000 - would need to go out for competitive bid request
	Lydon Labor - March & April	completed		103A		\$5,366.18		Sec WAS piping [1 day], Grit screw [2 days] if feasible to repair. [3 person crew] \$3400/day; pending invoices 4/6
	Truax \$\$ unspent	On Going		101A	-\$32,100.00			Adjusted with latest Truax bill 4/28 \$1,910.
	Electrical LS A hook up	completed		102B		\$1,182.28		estimate look at 2 options - going with option one for new hokk up only; early October planned. Completed Nov2020. Bill to be paid.
1	Electrical Work	On Going		103A				Electricians: Glen Fellows, HiVoltage, other, remv old blowers.lighting, sec bldg elec outlets - \$2,000/month; orig budget \$25,000; adj YTD - funds left; adj 9/30; Adj 10/15/20; adj 11/17/20; adj 1/6/21; clear remaining budget.
1	SCADA Work	On Going		103A				Steve Rose and the SCADA Support Team; orig budget \$25,000; reduce by \$6K on 9/9/20; adj 1/28; clear this budget, and costs will post as they are incurred. [1/28]
1	E-One Repairs and Replacement	On Going		103A				Based on historical costs. E1 repairs where cost-effective & new replacement pumps; control panels, other equip; Orig budget \$25,000; adj made 1/6/21; adj made 1/28; adj 3/17 - reduce budget to zero, with recent purchases/repairs. Remaining parts/repairs 4/12/21;
1	Annual Generator inspection	completed		103A		\$4,900.00		Annual - Highland Power/ME Electrical Power - Generator PM/Service work - due in November, Early Dec target completion. Completed.
1	Automatic Transfer Switch inspection and servicing	Pending		103A	<b>有</b>			\$2400 - Annual Service planned for April Highland Power - NETS - Transfer Switch; Part of Gen Svc PO.
4 of 61 5/9/2	021 Wetwell Inspections and Cleaning - Pump Stations	On Going		103A	2020_05_01_06M_C	hackbook_YTD		As required, plant or pump stations; orig budget \$10,000; reduce to zero on 9/9 06M Planned Co

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05\_01\_20 to 04\_30\_21

\$51,777.00

					\$51,777.00	5/9/2021 13:04			
Priority	Description	Status	completed	Task Estimates & funds		s Final Completed Lead		Comments	
1	Wetwell Inspection and Cleaning- Plant	On Going		103A					
1	Sewer Line Cleaning - Emergencies	On Going		103A				Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, or other, collection system & plant; orlg budget \$10,000; YTD already over \$10k.	
1	Collection System - emerg & unplanned calls - Jetting & CCTV work	On Going		103A	11.			Budget - orig \$20,000; reduce it it \$10,000; adj down \$3,100 1/28; Use of Hoadley Vactor truck through early march 2021. Adj 3/17; adj for 4/1 work	
1	Collection System - Jetting Work & CCTV Truax \$35,000	On Going		193A				up to 35K - roadway proj work related - TBD for contractor [Truax] PO was issued. 11/25 - no work completed to date. Requested by HSD.	
1	Aer tank repairs [labor]	Completed		103A				2 days - millwrights - Lydon \$3800	
1	Pump Station communication - changover to radio - phase 1	On Going		1028	\$66,777.00			Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated 2021. 4/27: [\$74,602-\$7825.25 = \$66,776.75]	
1	Pump Station communication - changover to radio - phase 2	Pending		102B				Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated memo Nov 2017	
1	Pump Station communication - changover to radio - phase 3	Pending		102B				Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated memo Nov 2017	
1	Pump Station communication - changover to radio - phase 4	Pending		1028				Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated memo Nov 2017	
2	Pump Station Communication - electrical contractor services	Pending		102B	\$10,000.00			Electrician costs - Install antennae, and related components to allow for SCADA tie in.	
2	Regen Aeration System - Pump Station #5	Pending		103A	The state of the s			Orig est \$1,500 -Tie into the SCADA system - Glen Fellows; may wait until after 5/1/20; on hold.	
2	cancel Dehumidifiers at four pstat - install new EFF flow meter	completed		103A		\$2,066.48		Orig budget approx 2K per station - PS A,4, 5 &6 - if done. Extra elec cost for new eff mag meter install incl here [added 3/29/21] Dehum on hold for 06M [4/12/21]	
2	SHT1 - demo of equip, air piping & diffuser install/materials	Pending		103A				In-house O&M project and staff labor \$10,000, demo of tank equip \$5,000; air piping \$10,000; materials \$5,000 - rough estimate - future needs. Removing these \$\$ 30K [3/24/21]	
2	Generators - Load Bank Testing Pump Stations	On Going		103A		\$6,300.00		Lock at under (6M - PS#1, PS#3, PS#4, PS#5, PS#6, and PS#9]Looking to do spring 2021. 2 units//day. \$6300	
	Ted Berry - RAS line repairs	completed		1028		\$9,950.00		PO issued for anticipated repairs in mid-December, work completed, waiting for final bill	
	Lydon Mech work - screenings box and Sec Bldg wye	completed		103A				Work completed - October 2020 - \$3,439.98 & \$2,767.28	
	CPE - ABBA RAS pump rotating assembly	completed		1028		( ) = 180 i	MI	proposed cost \$8858 - on a purchase order.	
	Generators - Load Bank Testing at plant	On Going		103A		\$4,800.00		Gen #1 and #1 - last done 4 years ago - \$4800	
	Highland Power/MSElectric&Power - Servicing the heat exchangers, fuel filters, etc	On Going		103A		\$4,550.00		Per proposal \$4,550.00	
	Front building window repairs	Pending		101A				To be done under Engin project	
1	Low pressure sewer valve box insp & mtce	Pending		103A				placeholder for contractoror O&M inspections and potential repairs; Looking at Rosano-Davis or another contractor & W&C to investigate; remove placeholder budget of \$7,500 on 1/28	
5 of 61 5/9/	/2024eration Tank #3 - installation of new diffusers and piping grid	Pending		102B	2020_05_01_06M_C	heckbook_YTD		\$50,000 Placeholder cost in the event needed 06M Planned Co	

# Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV) Maintenance Account - Year 6 - 05\_01\_20 to 04\_30\_21

\$51,777.00

5/9/2021 13:04

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments	
	LS A pumps - Repairs to P2 by Industrial Pump	On Going		101A	\$2,300.00			Placeholder - 4/12 - Evaluating cost for pump repair while relacement costs for parts or new pumps are looked at	
	LS A P2 suction valve replacement	Pending		101A				Vac truck, or pumper truck & Jody S, I day	
	Deragger PS3	On Going		102B				2 units - for installation at PS 3; PO# 102752; electrician will be aditional	
1	Garage back side overhead door replacement	On Going		1028				Solicited estimates for replacement.[estimate if approved]Overhead Door, Collins Door, on a PO:	
	TOTAL				\$51,777.00				



Inspections

**Corrective Maintenance** 

Preventative Maintenance

**Total Work Orders** 

# **Maintenance History Report Hull Wastewater**

Start Date: 3/1/2021 End Date: 3/31/2021

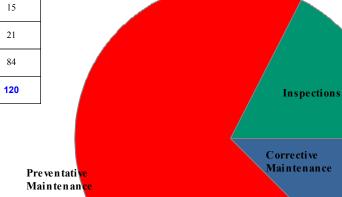
# **Work Order History By Type**



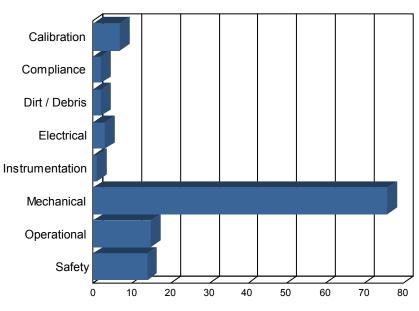
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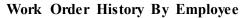
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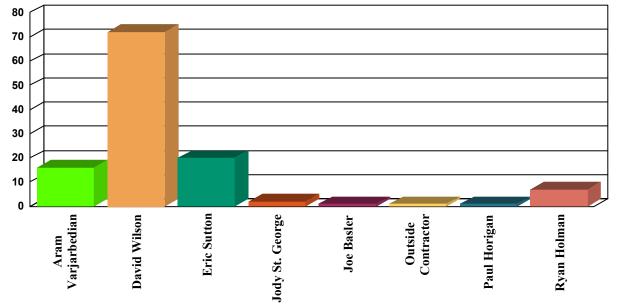
84



# **Work Order History by Reason**







Employee	WO Count	Labor Hours
Aram Varjarbedian	16	16
David Wilson	72	22
Eric Sutton	20	10
Jody St. George	2	4
Joe Basler	1	1
Outside Contractor	1	9
Paul Horigan	1	0
Ryan Holman	7	7
Totals	120	68

# **Corrective Maintenance**

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/1/21	13649	Odor Control System	Disassemble, clean, reassemble flow control sight glass	Completed	Jody St. George	3/1/21	Completed
3/2/21	13650	Wet Scrubber System	sight glass dirty, P2 valve leak	AV &JS. Clean discharge line sight glass for scrubber recirc. Replace o-rings on the P2 discharge ball valve	Aram Varjarbedian	3/1/21	Completed
3/5/21	13651	Grit Screw Drive	Repair and rebolt grit screw	After cleaning out grit tank found grit screw at drive side missing bolt and half of a flight. Added two new bolts thru stub shaft with limited modifications and ready for service.	Jody St. George	3/5/21	Completed
3/8/21	13652	GasAlert Max XTII #1	Failed calibration	Performed monthly calibration Oxygen sensor failed during calibration. Powered down meter and recalibrated all sensors. Oxygen sensor failure verified. BW Technology AAY80-390R-BW	David Wilson	3/8/21	Completed
3/9/21	13653	Grit Pump 1	inspect, test run	CSE to grit pump room. Assisted by ES and BB, tighten belts, flush lines, exercise valves.inspect pump operation. Room very dusty from HW area work.	Aram Varjarbedian	3/11/21	Completed
3/9/21	13654	Grit Pump 2	inspect , test run	CSE into pump room, inspect pump, exercise valves, tighten belts, test run pump. Room condition was dusty due to HW area work.	Aram Varjarbedian	3/9/21	Completed
3/10/21	13655	PS A Pump 2	motor/pump failed	Assisted by BB, ES, and Glenn F. Over past week.  Pull failed CCW assy with 4/2012 motor code on  3/2. Shop [IPS] determined mech seal fail, motor shorted. IPS installed CCW impeller on spare motor assy [date code Y 01]. W&C installed on 3/9 test ok and on line. AV pick & delivery to shop	Aram Varjarbedian	3/10/21	Completed
3/17/21	13656	Sludge Recirculating Pump	Replace drive belts and inspect components	LOTO of equipment. Inspected sheaves and replaced drive belts. Verified alignment and tension. Inspected motor seals. Inspected pump seals and oil level. Installed belt gaurd and returned to service.	David Wilson	3/17/21	Completed
3/24/21	13669	23 - WW Pump Stations	Diagnose noise and thread repair PS A pump 2.	LOTO of pump 2. Seperated pump from volute and opened cleanout. Cleaned threads and installed time certs in two stripped holes. Energized circuit for bumb test to verify rotataion. CCW. LOTO pump 2 and reassembled pump. Bled out air and tested pump output. 60gpm @21psi. Deadheaded pump to verify that the pump is not cavitating. Returned to service. Installed c-clamp on suction flange and verifited 25ftlbs of torque on discharge flange. Believe unusual sounds are from a failing bearing or bearings. Pump is available but disabled in SCADA.	David Wilson	3/24/21	Completed
3/28/21	13670	Buildings	outside area clean up	with RH, KA clean up front area of rocks, and debris	Aram Varjarbedian	3/28/21	Completed
3/28/21	13673	Hypochlorite Pump 2	Repair leak on discharge plumbing.	Turned off pump and drained discharge line. Repaired leak and returned to service.	David Wilson	3/29/21	Completed

# **Corrective Maintenance**

Status <u>Date</u>	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/28/21	13672	Hypochlorite Pump 3	Repair Hypo leak	Turned off pump and isolated suction valve.  Disassembled and replaced two threaded pipe reducer fittings and a hose fitting. Returned to service.	David Wilson	3/29/21	Completed
3/28/21	13674	Hypochlorite Pump 1	Replace leaking hose fitting.	Isolated pump and replaced fitting. Trimmed hose snd cleaned area.	David Wilson	3/29/21	Completed
3/29/21	13671	RAS Pump 2	Clean and repair threads.	LOTO of equipment. Seperated pump from volute. Cleaned impeller and inspected volute threads. Installed time-cert in stripped bore. Returned to service. 1.2mgd @60hz	David Wilson	3/29/21	Completed
3/30/21	13808	Operations Building	lighting repairs	glenn F - install new lighting in sludge pump room due to failed fixtures, repair defective conduits. Add additional fixture in second floor storage area. new fixtures are LED.	Outside Contractor	3/30/21	Completed

#### Inspections

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Status Date	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/1/21	13301	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		Eric Sutton	3/1/21	Completed
3/1/21	13312	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		Eric Sutton	3/1/21	Completed
3/1/21	13320	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		Eric Sutton	3/1/21	Completed
3/9/21	13314	Universal waste area	Universal Waste Storage Area Inspection		Aram Varjarbedian	3/9/21	Completed
3/9/21	13313	Waste Oil Storage	Waste Oil Area Inspection		Aram Varjarbedian	3/9/21	Completed
3/15/21	13298	Fire Extinguishers	WWTF Fire Extinguisher Inspections - Monthly		David Wilson	3/1/21	Completed
3/28/21	13204	Eyewash Stations	WWTF Eyewash Inspection - Weekly	Inspected and tested all emergency eyewash and shower stations throughout the plant	Ryan Holman	3/7/21	Completed
3/28/21	13205	Eyewash Stations	WWTF Eyewash Inspection - Weekly	Inspected and tested all emergency eyewash and shower stations throughout the plant	Ryan Holman	3/14/21	Completed
3/28/21	13026	Eyewash Stations	WWTF Eyewash Inspection - Weekly	Inspected and tested all emergency eyewash and shower stations	Ryan Holman	2/21/21	Completed
3/28/21	13027	Eyewash Stations	WWTF Eyewash Inspection - Weekly	Inspected and tested all emergency eye wash and shower stations throughout the plant.	Ryan Holman	2/28/21	Completed
3/28/21	13206	Eyewash Stations	WWTF Eyewash Inspection - Weekly	Tested and inspected all emergency eyewash and shower stations throughout the plant. Also recharged with an aircompressor.	Ryan Holman	3/21/21	Completed
3/28/21	13208	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly	Tested and inspected all emergency lighting throughout the plant. Unit located outside of the control room	Ryan Holman	3/10/21	Completed
3/28/21	13321	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms	No issues. Upcoming oil chg. Mi=119800	Aram Varjarbedian	3/1/21	Completed
3/29/21	13207	Eyewash Stations	WWTF Eyewash Inspection - Weekly		David Wilson	3/28/21	Completed
3/31/21	13260	PS A	PS #A Inspection - Monthly		David Wilson	3/4/21	Completed
3/31/21	13259	PS 9	PS #9 Inspection - Monthly		David Wilson	3/4/21	Completed

# Inspections

Status Date	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/31/21	13257	PS 5	PS #5 Inspection - Monthly		David Wilson	3/4/21	Completed
3/31/21	13258	PS 6	PS #6 Inspection - Monthly		David Wilson	3/4/21	Completed
3/31/21	13256	PS 4	PS #4 Inspection - Monthly		David Wilson	3/4/21	Completed
3/31/21	13255	PS 3	PS #3 Inspection - Monthly		David Wilson	3/4/21	Completed
3/31/21	13254	PS 1	PS #1 Inspection - Monthly		David Wilson	3/4/21	Completed

revent	ative wa	aintenance					
Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/2/21	13302	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Eric Sutton	3/1/21	Completed
3/3/21	13267	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Eric Sutton	3/3/21	Completed
3/3/21	13274	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	3/3/21	Completed
3/3/21	13279	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	3/3/21	Completed
3/3/21	13286	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Eric Sutton	3/3/21	Completed
3/5/21	13262	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Eric Sutton	3/3/21	Completed
3/5/21	13272	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		Eric Sutton	3/3/21	Completed
3/5/21	13273	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		Eric Sutton	3/3/21	Completed
3/5/21	13284	PS 5 Generator	PS #5 Generator Inspection and Load Test -  Monthly		Eric Sutton	3/3/21	Completed
3/5/21	13296	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		Eric Sutton	3/3/21	Completed
3/5/21	13285	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		Eric Sutton	3/3/21	Completed
3/6/21	13225	Influent Pumps	Semi Annual "Clean influent pumps 1, 2, 3, 4 and 5 Air relieve valves"		Paul Horigan	3/1/21	Completed
3/6/21	13150	High level floats	Weekly High Float Alarm test		Joe Basler	2/21/21	Completed
3/8/21	13299	GasAlert Max XTII #1	4 gas meter calibration - monthly		David Wilson	3/1/21	Completed
3/8/21	13137	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		David Wilson	2/25/21	Completed
3/8/21	13326	Meters - 4 Gas Confined Space #2	4 gas meter calibration - monthly		David Wilson	3/1/21	Completed
3/8/21	13136	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		David Wilson	2/25/21	Completed
3/8/21	13135	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		David Wilson	2/25/21	Completed
3/8/21	13133	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		David Wilson	2/25/21	Completed
3/8/21	13214	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	3/1/21	Completed

Status	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule	Status
3/8/21	13334	Generators "All Pump Station"	Generator - Monthly Load Test		David Wilson	3/7/21	Completed
3/9/21	13141	GasAlert Max XTII #2	monthly calibration	Zeroed gas meter and verified calibration. No issues found	David Wilson	2/25/21	Completed
3/9/21	13039	Grit Screw Drive	Grit Screw Drive PM - Quarterly	Visual insp only,unit very corroded. All fittings not accessible. Verify operation ok.	Aram Varjarbedian	2/12/21	Completed
3/9/21	13131	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Eric Sutton	2/22/21	Completed
3/9/21	13219	Influent Sluice Isolation Gate	Weekly operate through full range	Operate and closed as part of plant shutdown today	Aram Varjarbedian	3/3/21	Completed
3/9/21	13043	Influent Sluice Isolation Gate	Weekly operate through full range	Operate as part of flow shut down for DC Constr. Sticky at 70 and 45%	Aram Varjarbedian	2/24/21	Completed
3/9/21	13252	Sludge Transfer Pump 1	Monthly Check Pump Couplings	Unit out of service for repairs. Motor disconnected	Aram Varjarbedian	3/3/21	Completed
3/9/21	13250	Primary Sludge Pump 1	Monthly Check Pump Couplings	Unit off line and disassembled for eval/repairs	Aram Varjarbedian	3/3/21	Completed
3/9/21	13330	Generators "All Pump Station"	Generator Weekly - Test Run no load		Eric Sutton	3/1/21	Completed
3/9/21	13224	Mechanical Screen & Washpress System	Monthly Maintenance		David Wilson	3/1/21	Completed
3/10/21	13220	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	3/10/21	Completed
3/11/21	13247	Primary Scum Pump	Pen Valley Double Disc pumps - Quarterly		David Wilson	3/11/21	Completed
3/11/21	13251	Primary Sludge Pump 2	Monthly Check Pump Couplings		David Wilson	3/3/21	Completed
3/11/21	13248	Secondary Scum Pump 1	Pen Valley Double Disc pumps - Quarterly		David Wilson	3/11/21	Completed
3/11/21	13249	Secondary Scum Pump 2	Pen Valley Double Disc pumps - Quarterly		David Wilson	3/11/21	Completed
3/11/21	13074 13067	Primary Sludge Pump 2	Vaughan Centrifugal pump - Semi Annual		David Wilson  David Wilson	2/18/21	Completed
3/15/21	13070	RST Feed Pump 1  RST Feed Pump 2	Vaughan Centrifugal pump - Semi Annual  Vaughan Centrifugal pump - Semi Annual		David Wilson	2/18/21	Completed
3/15/21	13253	Sludge Transfer Pump 2	Monthly Check Pump Couplings		David Wilson	3/3/21	Completed
3/16/21	13210	Generator #2 - Backup Detroit	Generator Weekly - Test Run no load	Checked fluid levels and brought up to operating	David Wilson	3/15/21	Completed
	13221	500 Influent Sluice Isolation Gate	·	temp. Recorded all run data. No issues found.			·
3/17/21	13215		Weekly operate through full range  Generator Weekly - Test Run no load	Exercised gate locally.	David Wilson  David Wilson	3/17/21	Completed
		Generator #1- Emergency Kohler 750	·	Checked fluid levels and brought up to operating temp. Recorded all run data. No issues found.			Completed
3/18/21	13288	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	Checked fluid levels and brought up to operating temp. No issues found.	David Wilson	3/17/21	Completed
3/18/21	13293	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	Checked fluid levels and brought up to operating temp. No issues found.	David Wilson	3/17/21	Completed
3/18/21	13281	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	Checked fluid levels and brought up to operating temp. No issues found.	David Wilson	3/17/21	Completed
3/18/21	13269	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	Checked fluid levels and brought up to operating temp. No issues found.	David Wilson	3/17/21	Completed
3/18/21	13276	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly	Checked fluid levels and brought up to operating temp. No issues found.	David Wilson	3/17/21	Completed
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Status Date	WO#	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/18/21	13264	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	Checked fluid levels and brought up to operating temp. No issues found.	David Wilson	3/17/21	Completed
3/18/21	13303	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Checked fluid levels and brought up to operating temp. Recorded all run data. No issues found.	David Wilson	3/15/21	Completed
3/18/21	13331	Generators "All Pump Station"	Generator Weekly - Test Run no load	Checked fluid levels and brought up to operating temp. Recorded all run data. No issues found.	David Wilson	3/15/21	Completed
3/22/21	13216	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Checked all fluids and brought up to operating temp. No issues found.	David Wilson	3/22/21	Completed
3/23/21	13304	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	Checked all fluids. Brought up to operating temp.  No issues found.	David Wilson	3/22/21	Completed
3/23/21	13332	Generators "All Pump Station"	Generator Weekly - Test Run no load	Checked all fluid levels and brought up to operating. No issues found.	David Wilson	3/22/21	Completed
3/23/21	13211	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Checked all fluids and brought up to operating temp. No issues found.	David Wilson	3/22/21	Completed
3/26/21	13051	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly		David Wilson	2/23/21	Completed
3/26/21	13052	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly		David Wilson	2/25/21	Completed
3/26/21	13163	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	2/28/21	Completed
3/26/21	13209	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	3/1/21	Completed
3/26/21	13203	Portable Generator - Honda	Portable Generator Inspection - Monthly		David Wilson	3/3/21	Completed
3/26/21	13335	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	3/7/21	Completed
3/26/21	13336	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	3/14/21	Completed
3/26/21	13337	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	3/21/21	Completed
3/28/21	13322	High level floats	Weekly High Float Alarm test	Tested all high level floats and alarms	Ryan Holman	3/7/21	Completed
3/28/21	13323	High level floats	Weekly High Float Alarm test	Done by joe and dave	David Wilson	3/14/21	Completed
3/28/21	13323	High level floats	Weekly High Float Alarm test		David Wilson	3/14/21	Completed
3/28/21	13324	High level floats	Weekly High Float Alarm test	Joe and dave	David Wilson	3/21/21	Completed
3/28/21	13319	Chlorine probe ATI	Change electrolyte	No changes, tracking ok	Aram Varjarbedian	3/1/21	Completed
3/28/21	13316	Chlorine probe ATI	Weekly calibration	Tracking well no changes made	Aram Varjarbedian	3/1/21	Completed
3/28/21	13317	Chlorine probe ATI	Weekly calibration	Tracking well, no changes made. Close WO	Aram Varjarbedian	3/15/21	Completed
3/29/21	13245	RST Feed Pump 1	Monthly Check Pump Couplings		David Wilson	3/3/21	Completed
3/29/21	13246	RST Feed Pump 2	Monthly Check Pump Couplings		David Wilson	3/3/21	Completed
3/29/21	13338	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	3/28/21	Completed
3/29/21	13325	High level floats	Weekly High Float Alarm test		David Wilson	3/28/21	Completed
3/30/21	13289	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Eric Sutton	3/24/21	Completed

Status <u>Date</u>	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/30/21	13294	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Eric Sutton	3/24/21	Completed
3/30/21	13282	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	3/24/21	Completed
3/30/21	13277	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	3/24/21	Completed
3/30/21	13244	RAS Pump 3	Monthly Check Pump Couplings		David Wilson	3/3/21	Completed
3/30/21	13242	RAS Pump 1	Monthly Check Pump Couplings		David Wilson	3/3/21	Completed
3/30/21	13243	RAS Pump 2	Monthly Check Pump Couplings		David Wilson	3/3/21	Completed
3/31/21	13333	Generators "All Pump Station"	Generator Weekly - Test Run no load		David Wilson	3/29/21	Completed
3/31/21	13400	RAS Pump 2	Monthly Check Pump Couplings		David Wilson	4/7/21	Completed
3/31/21	13401	RAS Pump 3	Monthly Check Pump Couplings		David Wilson	4/7/21	Completed
3/31/21	13399	RAS Pump 1	Monthly Check Pump Couplings		David Wilson	4/7/21	Completed

Date	Asset ID	Asset Description	Asset Class	Name	Workflow Class
3/1/2021 11:46	04-065	75 MAIN ST	Hull Parcels	Sutton, Eric	Hull - Sewer Backup
3/18/2021 8:53	06-076	27 JAMES AVE	Hull Parcels	Sutton, Eric	Hull - Markout
3/1/2021 15:01	10-010	45 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
3/25/2021 11:47	15-174	23 O STREET	Hull Parcels	Sutton. Eric	Hull - Sewer Customer Complaint
3/29/2021 11:29		715 NANTASKET AVE	Hull Parcels		Hull - Markout
3/4/2021 14:01		78 LYNN AVE	Hull Parcels		Hull - Markout
3/20/2021 12:58		135 KENBERMA ST	Hull Parcels		Hull - Markout
3/20/2021 13:01		145 KENBERMA ST	Hull Parcels		Hull - Markout
3/20/2021 13:04		147 KENBERMA ST	Hull Parcels		Hull - Markout
3/19/2021 14:00		80 KENBERMA ST	Hull Parcels		Hull - Markout
3/19/2021 13:55		47 KENBERMA ST	Hull Parcels		Hull - Markout
3/19/2021 13:54		71 KENBERMA ST	Hull Parcels		Hull - Markout
3/19/2021 13:57		79 KENBERMA ST	Hull Parcels		Hull - Markout
3/19/2021 13:58		83 KENBERMA ST	Hull Parcels		Hull - Markout
3/20/2021 13:55		59 BEACH AVE	Hull Parcels		Hull - Markout
3/20/2021 12:05		144 KENBERMA ST	Hull Parcels		Hull - Markout
3/20/2021 13:03		99 REVERE ST	Hull Parcels		Hull - Markout
3/20/2021 12:51		101 REVERE ST	Hull Parcels		Hull - Markout
3/20/2021 12:54		142 KENBERMA ST	Hull Parcels		Hull - Markout
3/20/2021 13:02		73 SAMOSET AVE	Hull Parcels		Hull - Markout
3/20/2021 12:43		134 KENBERMA ST	Hull Parcels		Hull - Markout
3/20/2021 12:41		81 REVERE ST	Hull Parcels		Hull - Markout
3/20/2021 12:52		98 REVERE ST	Hull Parcels		Hull - Markout
3/20/2021 12:32		70 SAMOSET AVE	Hull Parcels		Hull - Markout
3/20/2021 12:48		88 REVERE ST	Hull Parcels		Hull - Markout
3/20/2021 12:42		82 REVERE ST	Hull Parcels		Hull - Markout
3/20/2021 12:39		80 REVERE ST	Hull Parcels		Hull - Markout
3/19/2021 13:52		108 NEWPORT RD	Hull Parcels		Hull - Markout
3/19/2021 13:50		84 NEWPORT RD	Hull Parcels		Hull - Markout
3/19/2021 13:48		107 NEWPORT RD	Hull Parcels		Hull - Markout
3/19/2021 14:01		88 KENBERMA ST	Hull Parcels		Hull - Markout
3/20/2021 12:35		476 NANTASKET AVE	Hull Parcels		Hull - Markout
3/20/2021 12:37		474 NANTASKET AVE	Hull Parcels		Hull - Markout
3/30/2021 14:52		4 BAY ST	Hull Parcels		Hull - Sewer Backup
3/16/2021 14:59		15 MARGINAL RD	Hull Parcels		Hull - Markout
3/29/2021 11:13		10 BERKLEY RD	Hull Parcels		Hull - Markout
3/29/2021 14:41		30 ROCKLAND CIRCLE	Hull Parcels		Hull - Markout
3/29/2021 14:42		0 ROCKLAND CIRCLE	Hull Parcels		Hull - Markout
3/29/2021 15:01		27 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:52		11 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:50		9 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:49		7 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:59		22 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:57		20 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:55		18 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:54		0 WYOLA RD	Hull Parcels		Hull - Markout
3/29/2021 14:53		10 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/29/2021 14:45		8 ROCKLAND CIRCLE	Hull Parcels		Hull - Markout
3/29/2021 14:44		6 ROCKLAND CIRCLE	Hull Parcels		Hull - Markout
3/29/2021 15:00		26 ROCKVIEW RD	Hull Parcels		Hull - Markout
3/5/2021 14:10		42 STATE PARK RD	Hull Parcels		Hull - Markout
3/29/2021 10:49		8 MONTANA AVE	Hull Parcels		Hull - Markout
3/4/2021 14:04		49 SUMMIT AVE	Hull Parcels		Hull - Markout
3/5/2021 14:08		32 REEF POINT	Hull Parcels		Hull - Markout
3/16/2021 14:50		18 SUMMIT AVE	Hull Parcels		Hull - Markout
3/22/2021 10:11		58 HARBOR VIEW RD	Hull Parcels		Hull - Sewer Backup
3/29/2021 11:18		45 HULL SHORE DRIVE	Hull Parcels		Hull - Markout

3/31/2021 14:42	73 Park Ave	73 Park Ave Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
3/11/2021 15:00	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/23/2021 13:40	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:57	Bacteria UNIT #22	UNIT #22	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:55	Bateria UNIT # 8	UNIT#8	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:51	Bateria UNIT #1	UNIT #1	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:55	Bateria UNIT #10	UNIT #10	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 15:04	Bateria UNIT #11	UNIT #11	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:58		UNIT #12	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
	Bateria UNIT #13	UNIT #13	Hull In Pipe Bacteria Unit		Hull - In Pipe Bacteria Units
	Bateria UNIT #14	UNIT #14	Hull In Pipe Bacteria Unit		Hull - In Pipe Bacteria Units
			·	,	·
3/11/2021 15:02		UNIT #15	Hull In Pipe Bacteria Unit		Hull - In Pipe Bacteria Units
3/11/2021 15:03	Bateria UNIT #16	UNIT #16	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 15:08	Bateria UNIT #17	UNIT #17	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 15:07	Bateria UNIT #18	UNIT #18	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 15:06	Bateria UNIT #19	UNIT #19	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:52	Bateria UNIT #2	UNIT #2	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 15:02	Bateria UNIT #20	UNIT #20	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:58	Bateria UNIT #23	UNIT #23	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:50	Bateria UNIT #24	UNIT #24	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 15:07	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/23/2021 13:40	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:50	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/23/2021 13:38	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:53	Bateria UNIT #5	UNIT #5	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
3/11/2021 14:53		UNIT #6	Hull In Pipe Bacteria Unit		Hull - In Pipe Bacteria Units
3/11/2021 14:54		UNIT #7	Hull In Pipe Bacteria Unit		Hull - In Pipe Bacteria Units
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3/11/2021 14:56 3/25/2021 15:14		UNIT #9 MH-20154	Hull In Pipe Bacteria Unit Sanitary Manhole		Hull - In Pipe Bacteria Units Hull - Sewer Backup
3/9/2021 11:35	MH-20371-1	MH-20371-1	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection