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HULL WATER POLLUTION CONTROL FACILITY

July 2019

MONTHLY OPERATING REPORT



NPDES NO. MA0101231

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Cover pictures:[top] Aerial Photo of Hull WPCF[bottom] D Street Stormwater Station Pump removal

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1 EXECUTIVE SUMMARY

This Monthly Operating Report provides a summary of the pertinent information and activities that occurred at Hull WPCF during the month of July 2019.

- One lost-time incident for the month of July.
- There were 144 effluent samples taken in the month of July. Please see page (8) for details.
- There were no effluent permit violations.
- Plant average flows were higher than the previous 2 months, due to several rain events. Overall
 rainfall was higher than June, with several days where intense rain shower activity occurred. The
 average daily flow for the month was 1.94 MGD. A total of 7.70 inches of rainfall was recorded for
 the month. The rain event on 7/17 pushed plant flows up after 2.5 inches of precipitation fell in a
 short duration. Added plant coverage and PS coverage was needed.
- The plant and collection system odors were moderate. The Bioxide system was in service for the entire month, and adequate dosing of Bioxide was achieved, with good results. No dose changes were made.
- Asset Management Accounts checkbook for tracking of expenses was completed for the close out of year #4. A summary of the final close totals for [04M], is attached. 05M checkbook totals year to date is on-going and attached. A review of the account status between W&C and Hull Sewer Dept. is an on-going process.
- There were 2 grinder pump call outs during the month of July that the staff responded to and corrected.
- There was one Sanitary System Overflow reported in July. Location: 7 Douglas Ave. A complete report was submitted to MADEP and details in Compliance section.
- W&C O&M staff assisted where requested for selection of some of the equipment off the "Critical Equipment List" so that the HSD could purchase directly. W&C provided updated quotes for those specific items as requested by the Sewer Department.
- There was one noise complaint called in for July, due to the scrubber fan motor. The motor was replaced.
- W&C coordinated project for removal of the old vertical turbine pump from the D Street Stormwater Station.
- W&C assisting with pump station 5 pump selection process.

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



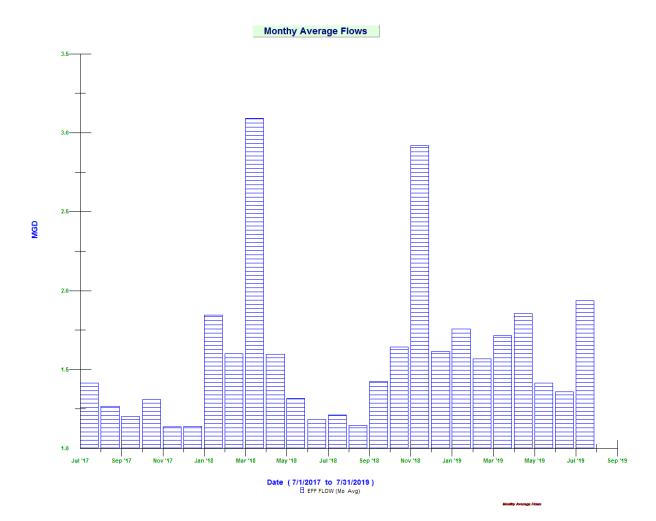
Average Daily Flows and Loadings for the Month:

	Eff Flow MGD	Inf Flow MGD	Inf BOD LBS	Inf TSS LBS	Eff BOD LBS	EFF TSS LBS
July 2017	1.414	1.625*	4178	4579	188	403
July 2018	1.213	1.877 *	1679	1918	82	165
July 2019	1.937	2.044 *	4374**	9130**	67	215

* Meter drift – influent flow meters are strap on doppler flow meters, and the internal pipe condition prevents getting a strong signal. The staff adjusts accordingly and utilizes the area velocity meter in the aeration tank inlet channel as needed. All loadings are based on the effluent flow meter.

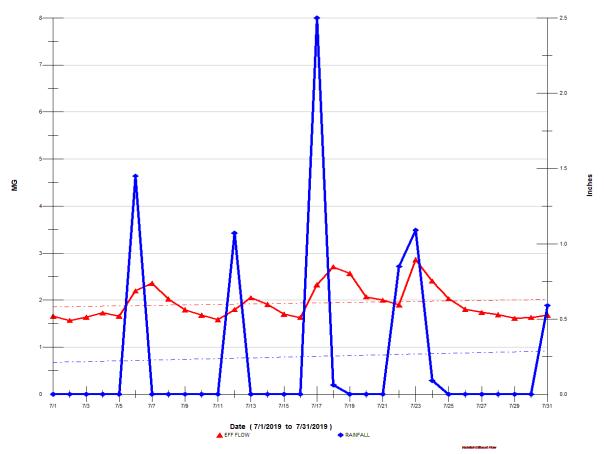
** Influent sewage very dirty on a few sample days, possibly due to sampler line drop location and Godwin pump suction pipe at influent manhole and main interceptor cleaning.

2.1 AVERAGE EFFLUENT MONTHLY FLOWS – TWO YEAR COMPARISON



Monthly average flow for July was 1.94 MGD, an amount higher than previous 2 months and higher than previous July. There were several moderate to heavy rain events in July. The total precipitation for the month was 7.70 inches. The graph shows a 2-year summary of the monthly average flows.

2.2 MONTHLY SUMMARY OF RAINFALL AND THE INFLUENCE ON EFFLUENT FLOWS



Rainfall and Effluent Flow

This graph shows the days where plant flows were higher due to rainfall [Blue Peaks]. This graph provides a good indication of the influence that the heavier rainfall periods had on the effluent flows. There were 4 events that impacted plant flows. Inflow and Infiltration out in the collection system has been noted with the increased effluent flow values when it rains.

3 COMPLIANCE



Plant Effluent

• There were no permit exceedances for the month of July.

Plant process conditions continued to be good & maintaining very well. The clarifier surface was good during the month. Only one secondary clarifier was online. Sludge settleability remained good and no chlorination of the RAS was needed. The process solids inventory is stable with minor variations depending on plant flows and wasting schedule. Effluent clarity was good, with minor fluctuations seen. The aeration process mode remains in contact stabilization mode, and all sewage bypassing the primary clarifiers, with varying amounts of limited flow into aeration tank #1, depending on system inventory and flows. The current split is approximately 10-15% to aeration tank #1, with all RAS flow going to aeration tank #1, and approximately 85-90% of flow going into aeration tank #3. This process mode allows for lower solids loading to the secondary clarifiers, while maintaining a higher system solids inventory.

- A Copy of the NPDES report for July 2019 was submitted to the DEP and then forwarded to the Hull Sewer Dept.
- Continued working with corporate team [Frank C & Alan F] for Scada to Hach Wims data management computer data export and transitioning data sharing between SCADA, HACH, and Power BI for analysis.
- The Use of Drylet continued, and improved secondary effluent quality was very evident, especially during the higher flow periods. The costs for use of the Drylet product is one that W&C has assumed, and the hope is that the product costs will be offset by the lower sludge generation and lower sludge disposal. The daily dose of Drylet product continues at the original "2 scoops" dosed (2 pounds).
- To date, the facility's biological system continues to operate very well with the supplemental bacteria that is being added daily, and secondary clarifier performance is very good.

Photos below show the typical Julye conditions with the plant in contact stab mode process flow mode, with some feed to aeration tank #1 also. Continued good settling characteristics in the secondary sludge and low [slightly higher] turbidity in clarified effluent. Moderate brown system color, and no odors.





- There was one SSO reported on 7/14/19 at 7 Douglas Ave., as a result of a sewer lateral line blockage leading to a small unmapped sewer manhole. With the initial response, the sewer manhole was pumped out into a plastic tote stop any additional spillage to the road surface. This immediate response kept the area stable until the following morning, when additional investigative response and corrective actions completed. The SSO amount reported was less than 10 gallons and the liquid evaporated on the road surface. Due to the uncertainty of the sewer laterals in that area, and ownership, the reporting was delayed by one day.
- SPCC: Regular inspections of the temporary AST, new AST and fuel day tank, as well at container storage of waste oil. Updated file.
- The rain event on 7/17 caused for plant flows to rise for several hours. The influent gate was used to equalize flows, until the rain stopped. Plant coverage was expanded until pump station wet wells and plant flows returned to more normal levels.
- Worked on standard operating procedure for the AST fuel storage tank and systems [by Mike Anderson]

4 KEY PERFORMANCE INDICATORS



4.1 WATER QUALITY - JULY 2019

Parameter I			Permit Re	quirements		Results					
Parameter	Units	Daily Max	Daily Min	Weekly Avg. Max	Monthly Avg. Max	Freq	Period Avg.	Period Min	Period Max	# of Sample s	# of Violations
Eff TSS	MG/L	50		45	30	ı X Week	13.4	11.0	18.0	5	0
Eff TSS	LBS			1152	768	1 X Week	215.4	215.4 144. 357.8 0			0
% TSS Rem	%		85			1 X Month	97.9				о
Eff BOD	MG/L	50		45	30	ı X Week	4.0	3.2	5.4	5	0
Eff BOD	LBS			1152	768	ı X Week	66.7				0
% BOD Rem	%		85			1 X Month	98.7				0
Eff Chlorine	MG/L	1.0			0.7	₃ X Day	0.12 0.02 0.54		93	0	
Eff Fecal	#/100 ML	260			88	1 X Week	21	10	220	5	0
Eff pH	SU	8.5	6.5			1X Daily	6.9	6.7	7.1	31	0
Enterococci	#/100 ML	276			35	1 X Week	14	10	55	5	0

• There were 144 effluent samples taken in the month of May with zero [0] NPDES Permit exceedances.

Gallons Treated vs Sludge Disposed

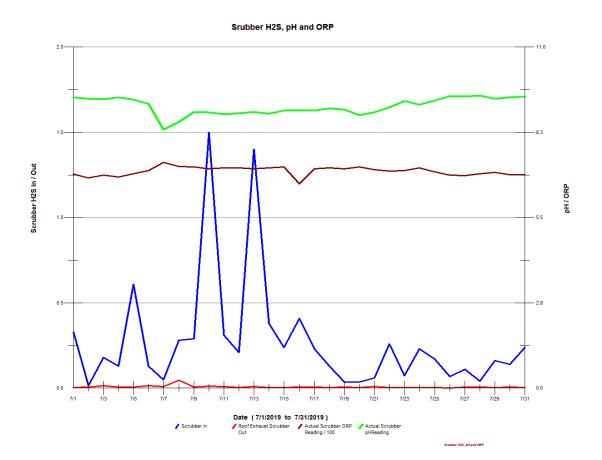
Month	Effluent Treated, MG	Sludge Disposed, Gals				
July 2017	43.83	107,000				
July2018	37.60	105,500				
July 2019	60.05	62,500				

5 ODOR CONTROL

There were no odor complaints reported in July 2019.

The gravity thickener and primary clarifier remained off-line as these tanks are the source of a lot of the odors within the facility, if in service. There was one rain event where one of the primary tanks was placed on-line to equalize some of the influent flows on 7/17. The tank remained on-line for a couple of days, and eventually cleaned out by the weekend of 7/20-21 since some nuisance odors existed. The above ground sludge storage tank was in service to receive thickened sludge from the RST thickening process, and this tank is emptied during the weekday Monday through Friday period, lessening the chance for odors during truck filling on weekends, although some Saturday service was needed in July. The secondary scum well pumping was limited to week-day periods to avoid odors on the weekend. Continued flushing of the aeration tank troughs to minimize build-up of solids that can cause odors. Off-line aeration tanks and clarifiers kept empty to prevent odors.

The odor scrubber system was on-line for entire the month. The scrubber fan speed remains at the mid-range due to moderate levels of hydrogen sulfide production. With the continued addition of Bioxide at PS 3, the H2S levels have been stable. The facility realizes electrical savings, when the fan operates at a lower speed.



Graph shows some small peaks for H2S to the scrubber, but these are all below 1.5 ppm. These [blue] peaks are primarily due to the H2S generated in the first half of the month, when the weather conditions were very hot, and loadings to the plant increased due to summer activities. The portable H2S meter was functional during the month.

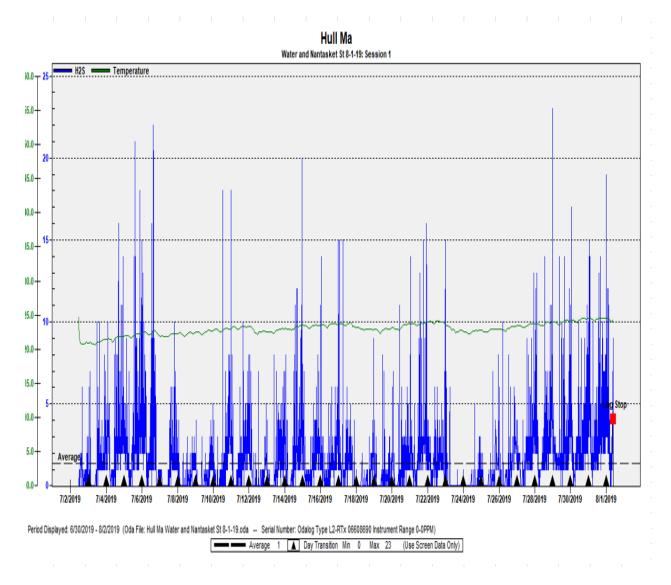
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- "In-Pipe" bacteria addition continued with all 24 dosing stations operational. No additional actions taken for headworks sulfide reduction plan proposed by "In-Pipe. The inspection/replacement with full bottles took place on 7/16/19. Additional kick-start vegetable protein and bacteria was not added in July due to time constraints. The kick-start program will continue to follow this plan following the summer months, and we will evaluate the overall effectiveness and odor reduction. All work being tracked on the Utility Cloud [UC].
- Continued the bi-weekly change outs of the bacteria bottles at three lift stations Microbe Dosing Stations (MDU's) with installation just in front of the three largest pump stations [in the wet wells or manhole just prior to the station. [PS 3, PS 5, PS 9] The re-load plan is delivering an additional 5.4 liters per month in total (1.8 liters x 3 locations). The goal is to see if we get a step change and reduce odors, while at the same time potentially reducing sludge. This change is being monitored closely over the summer months, for pump stations and at the plant.
- No changes On-going frequent pumping of the secondary scum wells. Tank cleaning
 performed quickly and as needed. For the warmer weather months, this timing of this activity to be
 scheduled during the week only, to avoid unforeseen odor issues on the weekends.
- Mixing systems/aerators all functional at the pump stations, except for pump station #3. New Medora Gridbee mixing system for PS 3 not installed yet. Mixer/Aerators at PS 1, PS4. PS6 & PS 9 are on timed control through SCADA.

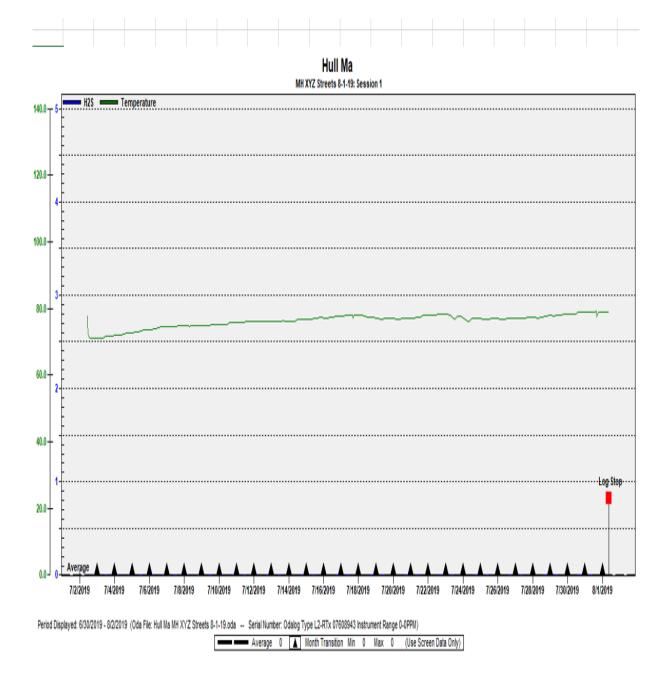
The Bioxide system continued to operate at a feed rate at 137 gpd. Data from the odor data loggers was downloaded from 4 manhole locations on 8/1/19. Overall, everything was looking very good. The Nitrate residual was carrying all the way down the Hull interceptor sewer line, effectively treating the H2S.

Notes from Evoqua's site visit:

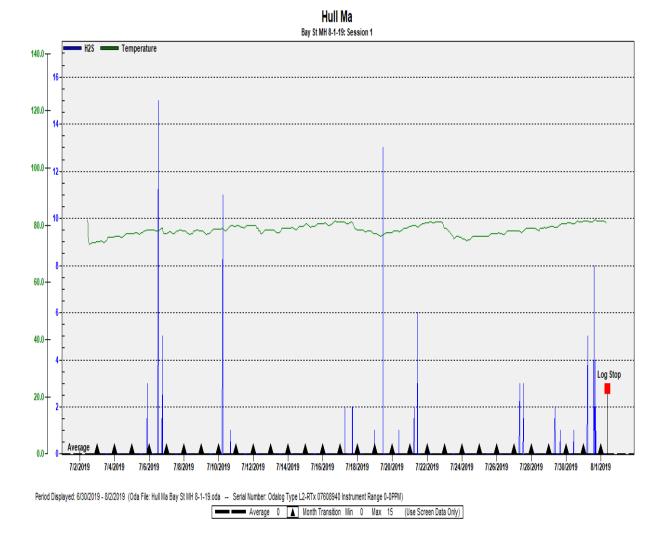
- PS 3 (no changes in feed rates)
- Nantasket & Water St MH showed 10+ on nitrate plus high H2S. This H2S is coming from Water St Line (Bay St MH) based on residual sulfide test
- XYZ Street MH shows good Nitrate and 0 ppm sulfide which is good.
- MH #20125 (just before WWTP, Nantasket Line) shows Nitrate and high sulfide. Spinnaker Flow is contributing the H2S shown on graph, we know this due to past liquid and vapor data tests.



Water Street and Nantasket Ave Manhole [end of force main from PS 3] and where PS 4 discharges also. A lot of pikes in H2S mostly from PS 4.



Manhole on Nantasket Ave at XYZ Streets - no H2S detected on meter



Manhole at Bay Street and Porazzo Road. [sewage coming from PS 4] Some H2S spikes from PS 4

Grab Sample test results

			Total			Chem	Vapor Phase Data		Data
			Sulfide		Temp.	Res	Min.	Max.	Avg.
Date	Sample point	Time	mg/L	pН	C	mg/L	ppm	ppm	ppm
8/1/19	MH 20125	8:45am	0.0	7.1	22.5	10.0	0	316.0	6.0
8/1/19	MH XYZ Streets	9:00 AM	0.0	7.3	22.6	10.0	0	0.0	0.0
8/1/19	ter St and Nantas	9:30am	0.0	7.6	22.9	10.0	0	23.0	1.0
8/1/19	Bay St MH	9:45am	0.2	7.2	24.9	0.0	0	15.0	0.0

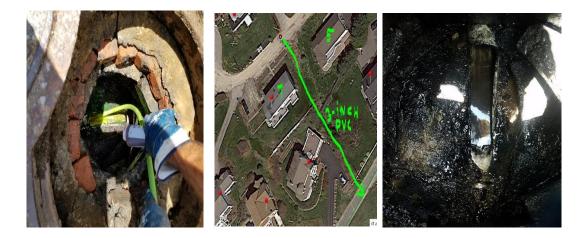
6 MAINTENANCE SUMMARY

6.1 TASKS COMPLETED THIS MONTH

The SEMS monthly work order summary for July is compiled and attached as a pdf file for review.

Key items of note are listed below.

- 1) In-Pipe units battery change out and circuit board troubleshooting and replacement as needed.
- 2) On-going E-1 Repairs: Replaced Grinder 2 pumps: 44 Chatham & 14 Dellawanda
- 3) On-going issue the need to add oil to sec clarifier gear boxes, since only one SC is online. All the units have leaks [lower gear box seals are no good]. We are using a flowable grease product that is heavier to lessen the amount of leakage. The estimated use of product with just SC1 online is 0.5 gallons per week. The other 2 units [SC #2 and GT #1] will need to be filled up before use.
- 4) Weekly exercise without loads and Monthly load tests completed on all generators including the portable generator and pump stations.
 - 5) Responded to SSO at 7 Douglas Ave on 7/14/19. Work with Town and pumper truck and jetter to relieve blockage. Verify that all lines were clear with push camera.



- 6) Completed repairs to portable trash pump [4A]; Pump test run ok.
- On-going repairs to the Rotary sludge thickening [RST] unit drum wheel replacement on-going as needed. Alignment wheels/bearings replaced. Drive chain replaced. Some additional work on SCADA controls is pending.

- 8) Effluent flow meter at plant at times problematic with the signal dropping out. Adjustments and check by SCADA group, but results suspect at times. Flow totals for July checked against the manually collected readings. Scheduled service call with vendor for equipment check out.
- 9) Continued to address and replace Yazkawa variable frequency drive internal cooling fans. The drives are approximately 6 years old. The VFD's were inventoried, and a supply of fans were ordered to cover all our units. [influent pumps, effluent pumps, RAS pumps, mechanical aerators, RST feed sludge pumps] If they do experience a cooling fan failure, the drive and equipment are inoperable, unless there is a bypass feature.
- 10) Scrubber fan unit maintenance motor was replaced with new unit, due to motor bearing noise. Noise levels much lower. Existing motor overhauled for back-up unit.
- 11) PS 6 Pump #1 pulled pump rotating assembly for inspection and cleaning. Some hardened rags/debris causing pump to trip out.
- 12) PS 5 replaced drive coupling on Pump #2. [worn component]
- 13) Closely watch and respond to several lower voltage issues for plant power during several extended hot weather periods, that caused high electrical demands in the Town. No issues with plant operation. The in-plant power meter was able to track the voltage conditions.
- 14) AST SCADA programing and graphics updated in system and add low level fuel alarm for day tank.
- 15) Responded to station alarm at PS 1 due to lightning strike replaced blown fuses on motor softstart units 1 & 2 [7/17/19]
- 16) RAS Pump #1 [older volute] developed a leak due to internal wear and tear. Disassembled the pump for inspection. A temporary repair will be made using specialty repair putty [steel & ceramic coatings] until the pump can be replaced. Picture shows hole. Pitting of the pump volute bowl sign of component wear.



17) Several RAS pump cleanings required due to rag build-up. Photo shows typical accumulation of rags/debris removed from impeller. Increase in cleaning frequency may be due to recent interceptor cleaning project commencement.



18) Mechanical bar screen – remove and lubricate upper guide wheels. Corrosion due to H2S and moist environment. Per factory, this is not an uncommon occurrence.



- 19) Several Dig-Safe mark outs and sewer manhole frame and cover inspections completed, due to emergencies, upcoming paving projects, planned replacements. Responded to all calls regarding rattling manhole covers, broken manhole covers/rims, sunken manholes covers/rims. Where possible new manhole cushion rings installed. All collection system work that W&C completed is documented in the monthly Work Order Report and utility cloud.
- 20) An additional remote Scada connection was programmed in using the sonic wall [firewall] versus the TeamViewer software issues until licensing issues could be cleared up. SCADA group working on getting the "TeamViewer" connection re-instituted. Remote log in is very useful for monitoring the plant and pump stations during inclement weather and when staff are dispatched during non-routine hours.

6.2 ON GOING PROJECT UPDATES



- Drylet bacterial process enhancement continued in July. Process plan is to continue use of the product if benefits seen. The effectiveness and costs will be reviewed annually. [See effluent/compliance section].
- Electrician worked on pump station ventilation issues to correct deficiencies. Parts ordered. SCADA tie-in for remote timers for grid-bee aerators at PS 1 and PS 9.
- No further work done to date: Alternative use for one of the existing primary clarifiers, especially the #1
 PC, is still being considered, since the drive unit had sustained extensive damage. Conversion to a
 mixed tank and floating aerator are being considered. This would allow for hydraulic flow into the tank,
 keep it mixed and fresh, and not restrict flow at the D-box, which is currently a concern, as having the
 primary tanks off-line in the warmer months eliminates many of the odors around the facility. To date a
 couple of budgetary quotes have been received.
- Pump Station #1 The new pumps are currently operating normally. We will wait until the force main is cleaned and re-lined to evaluate pump capacity and performance.
- The Duperon site visit is still scheduled for mid-August [8/13-14]. The technician will be on site for a day to inspect the unit and provide an evaluation with recommendations. The only notable condition is the corrosion of some of the stainless components and failing wash compactor piping, due to corrosion.
- Continued work on obtaining quotes for the operations building stairwell roof repairs. Reached out to several roofing contractors.

- Pump Station 9 [PS 9] Currently operational, with one of the pumps [#2] having a leaking mechanical seal. One of the pump assemblies was replaced with a used one for the short-term, while service is being done on the removed pump assembly. The spare pump assembly was been repaired, and to be scheduled for installation. The "special order" check valve was received from the manufacturer in July. The other pump assembly parts have been ordered. This check valve, one isolation valve, and pump assemblies will be replaced hopefully in August. At PS #9, the structural and overall station condition assessment and corrective action is part of the larger structural project being discussed.
- Participate in pre-construction and regular construction meetings for the two sewer projects going on in the town. Gunrock Area and Main Interceptor.
- As a result of the PS 4 force main leak, W&C working with HSD to come up with a plan to modify the bypass that was installed in mid-May. The current riser pipe will be changed to be sub-grade with a drain line installed.
- Still waiting for upgraded keypads for the deragger units at PS6. Hull will receive the first new units, when available. The units will provide greater monitoring and programming capabilities.
- Mike Anderson and Frank C working to complete/close out Energy Grant project documents.
- D Street Stormwater Pump Station old vertical turbine pump was removed on July 7-8. W&C worked with Williamson NE to complete the work. The old pump was removed, after a hole was cut in the building's roof. The exterior piping was also removed and capped off. The DPW provided assistance with the roll-off container for disposal of the scrapped steel materials.



Bottom volute end of old pump

exterior discharge pipe

Vertical lift pump being removed

Please see the attached summary of the Asset Management accounts for contract year (4) & (5).

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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.

- One lost-time incident for month of July. Broken finger while transporting engine hoist down from roof, after scrubber fan motor was replaced. The hoist was used to hoist the motor from the 2nd floor up to the roof. W&C did perform an internal review of the incident for root cause analysis and to come up with possible changes in the procedure and future equipment need for an equipment hoist on the roof.
- Worked with Risk Management Team to complete sub-contractor approval for Williamson New England. [for D Street Pump removal project]
- Safety Stand Down discussion on 7/24/19 Broken finger incident at facility.
- Ryan H forklift training -7/14/19 [by Jim G]
- Ongoing Daily safety briefing meetings, review site safety policies with sub-contractors, safety tailgate topics. Pure Safety topic– July – "Extreme Weather"
- Monthly staff safety meeting conducted on 7/31/19
 - New hire and intern safety reminders
 - Lessons Learned from June 2019 Near misses and incidents from other company projects.
 - July 4th HSE Alert warm weather
 - Toolbox topic Lifting and carrying materials
 - Toolbox topic ladders, OSHA fact sheet
 - Safety discussion point sewer worker fatality article
 - Safety discussion point driver awareness
 - Safety discussion point fall protection equipment recall

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:

- Ryan Holman began employment with W&C in late June, as O&M Tech 1. He has a MA Grade 3M operator's license. His initial work schedule is set for Monday through Friday. Various on-the-job [OJT] tasks were reviewed during this time. Eventually, he will be transitioned to the Tuesday through Saturday work schedule and incorporated into the "on-call" rotation.
- Monthly staff Safety training completed Pure Safety and monthly safety meeting. W&C "near-miss" incidents at all projects for July discussed.
- Operational updates and process control discussions, especially with recent electrical issues and plant shutdowns, pump station operations, odor issues, dig-safes, etc.
- Jim G continues to work with staff on various SEMS updates work order management & scheduling
- RCM Reliability Centered Maintenance workshops Criticality [3-day] held at the facility several days in July.
- Plant hosted training from Flygt/Xylem on Pumps and Pumping Systems on 7/11/19. Hull and Cohasset staffs attended.

Staffing related items:

- Cody Piepenbrink had been on the "on-call" list for plant coverage, but due to very limited availability, was removed from staff list.
- Mike Anderson [former intern] and currently working for W&C part-time worked on special projects AST S.O.P., and equipment inventory updates. He we continue to provide part-time assistance as needed in Hull.
- Continued involvement with Mass Maritime [MM] internship program/career fair for future interns. Corporate human resources department leading the effort for future intern for next year's winter and summer months.
- Andrew Zamanian, a junior at MM and our summer intern for this summer, participating in many of the daily rounds, and collection system activities and tasks. He received various on-site training where needed.
- Sunday rotation schedule in place with Jim Gagliard working every other Sunday, and remaining weekends being filled by Roger B., Aram V., and Bill B. When Bill is not scheduled for a Sunday, he will be on a Monday-Friday schedule.
- Supplementing staff needs with O&M tech support where needed. Jody S providing coverage when staff levels are lower due to sickness, vacation, or training. Started process to include Richard Gould from the Linden Ponds project for various fill-in coverage as needed. Initial focus – pump station inspections/locations.

9 COLLECTION SYSTEM

9.1 WET WELL CLEANING

The actual schedule for wet well cleaning: May 2019 to April 2020:

(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, 2019				Х	Х						
June, 2019											
July, 2019											
Aug., 2019											
Sept. 2019											
Oct.,2019											
Nov, 2019											
Dec., 2019											
Jan., 2020											
Feb., 2020											
March 2020											
April 2020											

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 July.

- 4 Mildred St.
- 44 Chatham [grinder]
- 88 Manomet Ave
- 135 Atlantic Ave

Manholes:

• Staff responded to a large number of rattling manhole covers, broken manhole covers/rims and sunken manholes covers/rims. A number of the calls were repeat calls, due to contractors working in the Town on various projects and due to frame and cover replacements that had some defective components.

Dig Safe mark outs:

• Numerous Dig-Safe mark outs were completed throughout the Town of Hull in order to assist/facilitate the Town's paving projects and the emergency repairs of the broken water lines, broken sewer laterals due to gas main work.

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

10 PROJECT MANAGEMENT & ADMINISTRATION



10.1 ON-GOING PROJECTS AND SUPPORT ITEMS

- Asset management checkbook for tracking of expenses. Review of account status between W&C and Hull Sewer Dept. for 04M was completed. The remaining expenses posted, and final totals presented. The current summaries for the account status for year 4 and year 5 asset management accounts, as of 8/29/19, are included as an attached pdf file with this report. The 05M checkbook spreadsheet with proposed maintenance task plan for the year was set up and presented as an attachment with this report.
- Assist the Sewer department with proposed items for purchase from encumbered funds, primarily from the critical spares list. [i.e. Amwell gear boxes, portable generator, effluent submersible pump]
- Utility Cloud was fully operational during the month of July with additional work being tracked through the GIS / asset management / cloud-based program. Work is intended to grow each month as the staff works with Bill and Andy Crawford on specific workflow usage in Hull. A copy of the UC printout for July is attached. The grinder pump sticker replacement project will be tracked in the UC.
- Continued to prepare proposal for options for D Street pump upgrade. A review of various options and quotes for D Street Stormwater station nearly complete. HMLP provided a set up to monitor the power quality for several days to confirm electrical voltage and assist with pump selection options. A portable trash pump was set up at the station that has float control for remote starting capability, which will be useful during heavy rain periods. The pump would start automatically and pump when needed.
- Continued to assist and provide information to T&B engineering when requested for the HVAC system upgrade, lab relocation, layout of building - floor plan options, electrical chases, and duct work for the HVAC system.
- Continued to assist with the W&C engineers on task order projects as questions arose. Bill B working
 with Nick V and Tim H for the PS 5 pump selection and station needs. Co-ordinate and run some
 station drawdown tests to confirm PS5 flows and pumping. Also, providing assistance on the
 headworks by-pass project, effluent outfall, and critical spare equipment needs.
- Contacted T&B for information related to the gravity thickener domes [covers], and T&B was able to locate the manufacturer and dimension specifications for the units in Hull. This information will be needed when the gear box is replaced in GT1 and if the failed equipment in GT2 is removed.
 Hull Water Pollution Control Facility

Monthly Operating Report

- Working on Annual Operating Report for contract years 3 and 4.
- Met with coatings specialists from TNEMEC [for headworks project] and Sherwin Williams [for general coatings information for smaller scope items] in July.
- Assist where requested for SSO information and unauthorized summary information for the Town's MS4 report.
- Assisted W&C and Sewer Dept with facility profile update to be included in a future issue of the MWPCA Mass Water Pollution Control Association's upcoming newsletter.