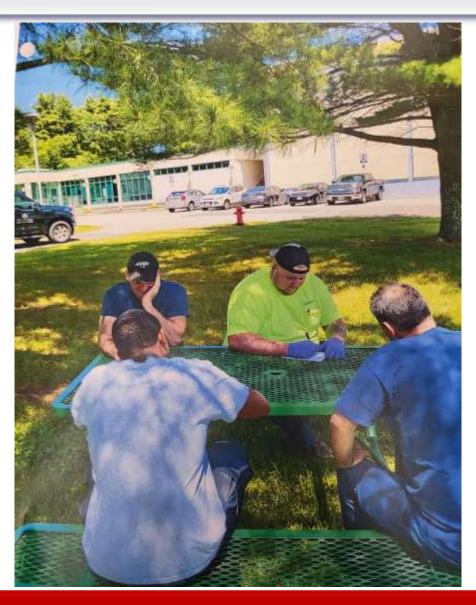
Monthly Operating Report

JUNE 2023



Rockland, MA WWTP





Mr. Chuck Heshion
Rockland Sewer Commission Chairman
587 Rear Summer Street
Rockland, MA 02370
RE: Rockland Wastewater Facility
Monthly Report—June 2023
Dear Mr. Heshion,
I have enclosed June's 2023 Monthly Operating Report (MOR) for the Veolia Operations and Maintenance contract.
Please contact me if you should you have any questions regarding this report.
Sincerely,
Rick Kotouch
Veolia Project Manager
CC: Daniel Duross
Sherri Vallie

JUNE 2023 MONTHLY OPERATING REPORT

1. SUMMARY:

The facility will be reporting **0** exceedance for the month of May 2023

- 1) There was **0** lost time / first aid injuries throughout the month
- 2) The facility treated a total of 52,040,000 Million Gallons. The average daily flow was 2.083 MGD
- 3) The total rainfall for this reporting period was **5.37**"
- 4) I&I Work is ongoing
- 5) **170** work orders were closed in June, with **15** as corrective maintenance work order and **3** were emergency call outs
- 6) Massachusetts general wastewater permit began April 1st.

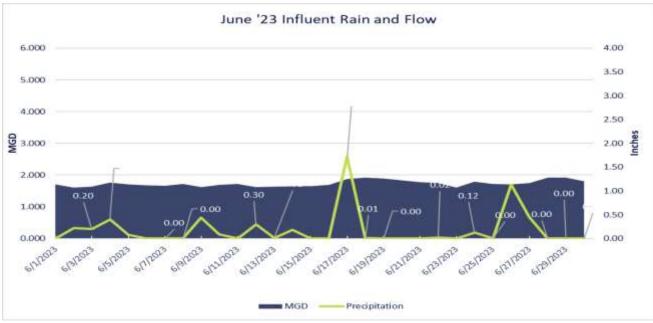
2. STAFFING:

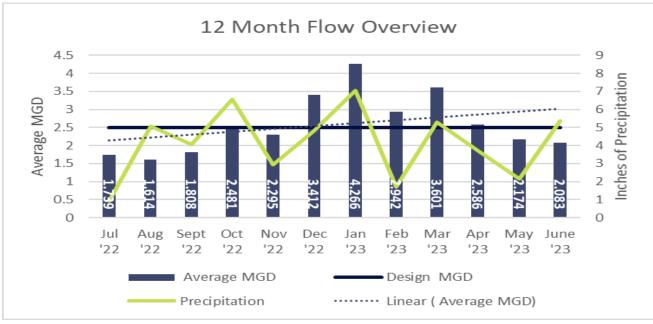
Current Employee Licenses as of 08/31/2022										
		Hoi	sting	\	Wastewate	r	NEW	NEWEA Laboratory		
Employee	Title	1C Forklift	1B Boom Truck & Forklift	3M	5C	7C	I	Ш	IV	I
Richard Kotouch	Project Manager					х			Х	
Megan Kelly-Lynch	Asst. Project Manager	Х				Х				
Steven Butts	Lab Technician					Х				Х
Charles Amaral	Maintenance Foreman				Х			Х		
Garry Murrill	O&M Tech II				Х			Х		
Maxwell Jackson	O&M Tech I			Х						
Cristian Ryan	Operator in Training									
Shaun Chaponis (Part Time Weekends)	O&M Tech II				Х		Х			

3 FLOWS AND LOADINGS:

3.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of 52,040,000 MG during the month. The daily average flow was 2.083 MGD. This was 0.092 MGD more than the previous June monthly average, which was recorded at 1.991 MGD. The highest daily flow was recorded on the June 18th as 2.350 MGD. The lowest daily flow was recorded on June 16th as 1.870 MGD.
- The highest peak flow was recorded on June 18th as 2.710 MGD.
- A total of **5.37**" of precipitation was received at the facility. The highest single day precipitation total was recorded on June 17th as **1.72**"
- The coldest day was June 5th at 42°F. The warmest day was June 9th at 90°F.





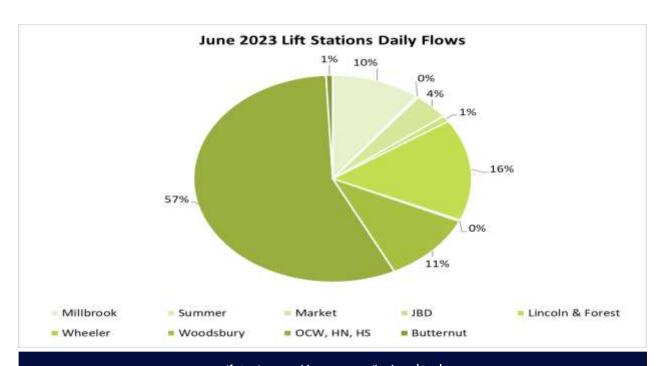
3.1 INFLUENT BOD AND TSS LOADING

	ROCKLAND FLOW AND LOADINGS TRACKING									
Month/Yr	Influent Flow	Effluent Flow	Influent Flow Moving Avg.	Effluent Flow Moving Avg.	Inf BOD	Inf. TSS	Inf. BOD Mov. Avg.	Inf. TSS Mov. Avg.		
	MGD	MGD	MGD	MGD	LBS	LBS	LBS	LBS		
Jul'22	1.739		2.810		3,316	3,546	3,446	3,990		
Aug'22	1.614		2.702		3,313	3,758	3,469	3,969		
Sep'22	1.808		2.597		3,716	3,838	3,581	3,880		
Oct'22	2.481		2.538		3,323	4,180	3,608	3,904		
Nov'22	2.295		2.469		4,948	3,227	3,832	3,881		
Dec'22	3.412		2.544		4,234	3,802	3,885	3,890		
Jan '23	4.266		2.67		4,250	3,763	2,913	3,897		
Feb '23	2.942	2.646	2.577	2.646	3,408	2,970	3,871	3,819		
Mar '23	3.601	3.601	2.592	3.123	3,539	3,250	3,842	3,718		
Apr '23	2.586	2.212	2.577	2.820	4,495	3,386	3,891	3,663		
May '23	2.497	2.174	2.603	2.658	4,969	2,999	3,988	3,560		
June '23	2.083	1.735	2.610	2.473	5,090	3,154	4,050	3,489		

3.2 LIFT STATION FLOWS

The lift stations accounted for **8,824,020** gallons throughout the month, **14%** of the total plant flow. Please note that monthly lift station flow totals are purely estimates based off of pump run hours and estimated flow rates. Values are not intended to in any way be used as design capacity volumes for potential future rehab / replacement projects.

Tot	al Flows for June 2023	
Station	Gallons	
Millbrook	910,440	
Summer	23,280	
Market	363,000	
John Burke	83,520	
Lincoln, Forest	1,402,800	
Wheeler	20,880	
Woodsbury	963,000	
OCW, HN, HS	4,989,600	
Butternut	67,500	
Total:	8,824,020	

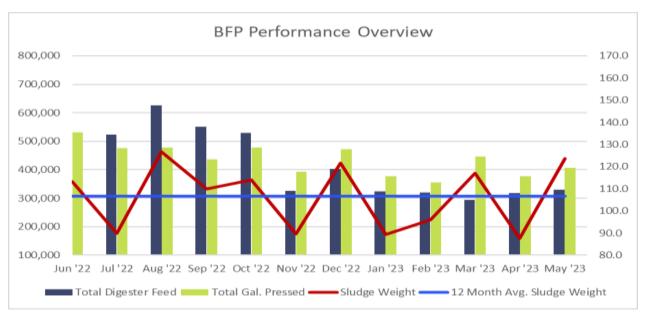


Lift Station Monthly Average Daily Flows (GPD) Millbrook Summer Market John Burke Lincoln Forrest Wheeler Woodsbur

Month	Millbrook	Summer	Market	John Burke	Lincoln	Forrest	Wheeler	Woodsbury	Old Country Way	Hingham North	Hingham South	Butternut
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD
Jul '22	27,975	1,223	14,318	1,644	2,110	36,581	586	32,865	51,755	73,335	273,484	Old System
Aug '22	31,459	1,076	15,581	2,145	2,439	40,442	703	38,265	44,100	134,843	113,574	3475
Sep '22	29,628	976	15,400	1,816	2,389	45,990	732	45,660	42,350	134,460	141,480	2040
Oct '22	38,114	1,092	14,758	1,386	2,419	49,181	743	43,897	46,810	149,807	273,484	3,870
Nov '22	35,316	1,112	14,450	1,840	2,460	46,410	918	40,740	46,970	142,920	165,599	2,640
Dec '22	47,052	888	14,750	2,480	2,580	56,070	786	57,780	60,155	169,200	199,974	3,658
Jan '23	47,052	888	14,750	2,480	2,580	56,070	786	57,780	60,155	169,200	199,974	3,658
Feb '23	44,087	866	13,554	5,186	3,000	52,950	4,899	50,207	58,650	164,565	199,029	3,182
Mar '23	48,137	1,029	14,893	3,180	3,879	56,625	868	52,650	69,450	172,221	220,629	4,243
Apr'23	46,209	994	15,054	3,180	3,343	57,150	861	52,714	53,325	137,507	170,486	3,857
May '23	36,566	874	15,321	4,226	2,786	49,800	784	40,436	52,425	145,800	180,514	2,796
June '23	32,516	831	12,964	2,983	2,250	50,100	746	34,393	49,575	33,264	178,200	2,411
Average	38,676	987	14,649	2,712	2,686	49,781	1,118	45,616	52,977	135,594	193,036	3,257

4.0 SOLIDS HANDLING

The BFP was operated a total of **125.55** hours this month and a total of **407,350** gallons were processed producing **123.54** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **2.08%** and the BFP Cake average percent solids were **21.52%**. The sludge processing Dry Tons conversion sheet is attached to this report.



Date	BFP Run Hours	Total Digester Feed	Total BFP Feed	Polymer Used	Actual Sludge Weight	Average Press Feed Total Solids	Average Cake Total Solids	Sludge Pick Up	Grit Removed
	HRS	Gal.	Gal.	Gal.	Wet Tons	%	%	Dumpster	Tons
June '22	151.3	439,371	530,756	132.9	113.3	2.26	21.92	6.00	
July '22	137.5	524,233	475,614	119.6	89.8	2.04	22.05	5.00	
Aug '22	152.6	626,023	477,850	132.8	126.8	2.15	23.45	7.00	
Sep '22	140.6	550,718	436,908	118.4	110.0	2.46	24.43	7.00	
Oct '22	154.3	528,474	478,215	142.4	114.0	2.48	22.86	6.00	
Nov '22	130.0	325,410	393,155	90.4	89.6	1.96	22.45	5.00	
Dec '22	150.5	403,272	472,903	115.2	121.6	1.73	20.27	6.00	
Jan '23	129.2	324,034	377,362	119.2	89.4	1.72	19.24	6.00	
Feb '23	134.3	320,572	355,441	115.5	96.1	1.59	18.77	6.00	
Mar '23	147.1	293,999	445,395	128.8	117.1	1.62	18.98	6.00	
Apr '23	123.3	318,169	377,424	105.6	87.5	2.21	20.87	6.00	
May '23	125.6	329,820	407,350	114.4	123.5	2.08	21.52	6.00	
Annual Total	1,676	4,984,095	5,228,373	1,435	1,279	****	****	72	0.00
Avg.	140	415,341	435,698	120	107	2.03	21.40	6.0	****

5.0 ENVIRONMENTAL COMPLIANCE

5.1 REGULATORY REPORTING

1. The EPA and MADEP May NETDMR was submitted on the CDX website on 6/8/2023

5.2 NPDES COMPLIANCE

The facility will be reporting (0) exceedance(s) for the month of May 2023

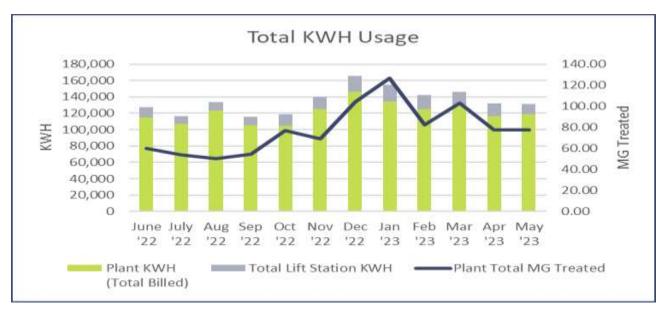
Date	Plant Flow	BOD	BOD	TSS	TSS	NH3	Total P	Ph	E. Coli Coliform	Aluminum	Copper	Dissolved Oxygen	Limits	Monthly Avg.	Weekly Avg.	Daily Max
	MGD	Mg/L	Lbs./Day	Mg/L	Lbs./Day	Mg/L	Mg/L	Ph	CFU/100 ml	Ug/L	Ug/L	Mg/L	BOD			
Mon, May 1	3.180							7.56				10.4	Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/l
Tue, May 2	3.100	4.0	103	8	207	0.10	0.19	7.64		2	5.0	10.1	Aprill 30	417 bs/day	417 lbs/Day	626 lbs/Day
Wed, May 3	3.100							7.58	96			9.7	May1 -	6 Mg/L	6 Mg/L	10Mg/L
Thur, May 4	3.000							7.54				9.6	Sept. 30	125 Lbs/Dav	125 lbs/Day	209 Lbs/day
Fri, May 5	2.300							7.67				10.3	TSS			
Sat, May 6	2.312							7.44				9.6	Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/l
Sun, May 7	2.266							7.43				9.6	Aprill 30	417 Lbs/Day	417 Lbs/Dav	626 lbs/Day
Mon, May 8	2.205							7.63				9.1	May1 -	10 Mg/L	10 Mg/L	15Mg/L
Tue, May 9	2.182	5.0	109	4.0	87	0.10	0.16	7.57	326			10.0	Sept. 30	209 Lbs/Day	209 lbs/Day	313 Lhs/day
Wed, May 10	2.147							7.48				9.9	NH3	116.81.812		11231313
Thur, May 11	2.069							7.53				10.2	Oct.1 - Mar.			
Fri, May 12	2.012							7.52				10.3	31	3.3 Mg/L	3.3 Mg/l	5.7 Mg/L
Sat, May 13	1.965							7.46				9.9	Apr. 1 -			
Sun, May 14	1.979							7.47				10.1	May 31	2.5 Mg/L	2.5 Mg/l	5.7 Mg/l
Mon, May 15	1.915							7.51				10.3	June1 -			
Tue, May 16	1.927	4.0	77	5.0	96	0.10	0.11	7.67				9.9	Sept. 30	1.0 Mg/L	1.0 Mg/L	1.5 Mg/L
Wed, May 17	1.844							7.55	14			9.5	Total Phps	phorus	<u>'</u>	
Thur, May 18	1.804							7.48				10.2	Apr.1 -		*******	******
Fri, May 19	1.748							7.49				10.4	Oct.31	0.2 Mg/L	********	*******
Sat, May 20	2.046							7.37				10.4	Nov. 1 -			*******
Sun, May 21	2.155							7.32				9.5	Mar. 31	1.0 Mg/L	*******	********
Mon, May 22	2.023							7.19				9.5	Ph			
Tue, May 23	2.001	4.0	80	6.0	120	0.40	0.10	7.47	54			10.1		6.5	- 8.3	
Wed, May 24	2.929							7.47				9.5	E. Coli			
Thur, May 25	1.896							7.54				9.5		126		409
Fri, May 26	1.778							7.59				9.6	*******	CFU/100ml	********	CFU/100ml
Sat, May 27	1.789							7.44				9.6	Aluminum			
Sun, May 28	1.746							7.52				9.5	*******	88 ug/l	*******	******
Mon, May 29	2.264							7.55				9.5	Copper			
Tue, May 30	2.040	6.0	102	2.0	34	1.00	0.09	7.58	9			9.4				
Wed, May 31	1.668							7.57				9.6				
Daily Max		6.00	109.25	8.00	206.02	1.00	0.19		326	******	******	******	May 1 -		> 7.4 mg/L	
Daily Max Daily Min.	3.180 2.040	6.00	109.25	8.00	206.83	1.00	0.19 ******	7.67 7.19	32b ******	******	******	9.10	Sept. 30	Plant		
·												9.10 ******				
Month Avg.	2.497	4.60	94.20	5.00	108.80	0.34	0.13	7.51	100	2	5.0	~~~~~		2.5	MGD	

6.0 ENERGY CONSUMPTION

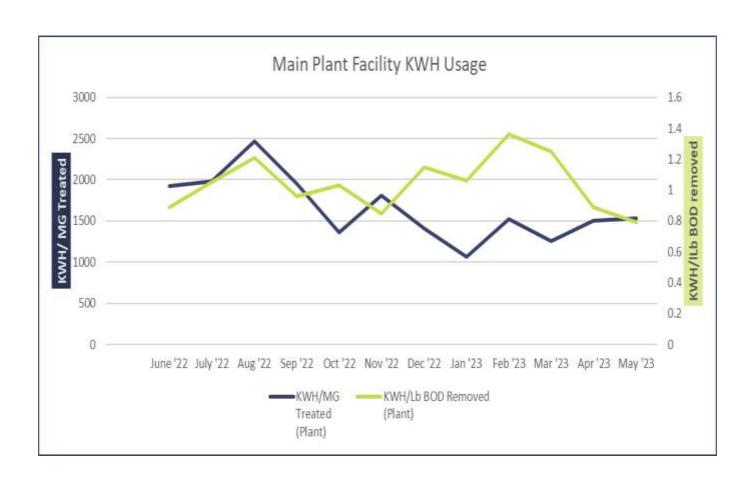
6.1 ELECTRICAL OVERVIEW

The department used a total of 131,437 *KWH* for the month of June 2023. Of this total, the lift stations accounted for 9.6%, using 12,637 KWH. The Main Plant accounted for the remaining 118,800 KWH. The KWH/ MG treated was 1,535 for the month, which is 9% lower than the previous 12-month average of 1,671 KWH/MG. The KWH/Lb. BOD Removed was 0.79 KWH/Lb. for the month, which is 7% lower than the previous 12-month average of 1.06 KWH/Lb.

	Monthly Energy Consumption										
Month	Plant Average Daily Flow (NO HFMP)	Plant Total Influent Flow	Plant KWH (Total Billed)	KWH/MG Treated (Plant)	Plant Lbs BOD Removed	KWH/Lb BOD Removed (Plant)	Off Peak Demand (Plant)	Peak Demand (Plant)	Total Lift Station KWH	Total KWH (Plant & Stations)	
	MGD	MG	KWH	KWH/MG	Lbs	KWH/Lb	KW	KW	KWH	KWH	
June '22	1.99	59.74	114,900	1,923	129,049	0.89	189	201	12,123	127,023	
July '22	1.74	53.90	106,800	1,981	101,883	1.05	198	216	9,326	116,126	
Aug '22	1.61	50.02	123,300	2,465	101,859	1.21	177	195	10,344	133,644	
Sep '22	1.81	54.23	105,900	1,953	110,510	0.96	186	210	9,877	115,777	
Oct '22	2.48	76.91	104,700	1,361	101,712	1.03	195	201	14,276	118,976	
Nov '22	2.3	68.86	124,800	1,812	146,152	0.85	186	213	15,469	140,269	
Dec '22	3.36	104.19	146,400	1,405	127,264	1.15	243	258	19,421	165,821	
Jan '23	4.08	126.55	134,400	1,062	126,998	1.06	252	258	20,049	154,449	
Feb '23	2.94	82.38	125,400	1,522	92,522	1.36	213	210	16,712	142,112	
Mar '23	3.33	103.31	129,600	1,254	103,530	1.25	204	213	16,322	145,922	
Apr '23	2.59	77.57	116,400	1,501	130,686	0.89	198	210	15,893	132,293	
May '23	2.50	77.40	118,800	1,535	151,100	0.79	183	189	12,637	131,437	
Average	2.56	77.92	120,950	1,648	118,605	1.04	202	215	14,371	135,321	



	Monthly Lift Station KWH													
Month	Hingham North	Hingham South	Spruce	Butternut	Old Country Way	Market	Woodsbury	Lincoln	Forest	Wheeler	Summer	Milbrook	John Burke	Total
June '22	2,540	4,300	109	63	853	347	892	168	1,371	59	74	1,234	113	12,123
July '22	2,119	2,900	110	49	741	337	685	134	1,202	49	69	832	89	9,326
Aug '22	2,293	3,200	102	54	871	334	820	153	1,337	54	68	967	91	10,344
Sept '22	2,094	2,900	110	48	807	348	928	172	1,269	48	56	1,015	82	9,877
Oct '22	2,943	4,100	195	73	952	887	1,308	260	1,942	69	80	1,325	142	14,276
Nov'22	2,907	4,600	218	66	1,184	832	1,240	308	2,043	63	67	1,734	207	15,469
Dec'22	3,575	6,100	156	83	1,427	957	1,841	352	2,515	63	63	2,026	263	19,421
Jan '23	3,577	6,500	145	90	1,802	924	1,848	341	2,466	123	62	1,863	308	20,049
Feb '23	3,039	5,000	141	70	1,281	862	1,440	325	2,187	227	59	1,749	332	16,712
Mar '23	2,995	5,100	246	434	1,260	851	1,353	283	1,915	58	67	1,524	236	16,322
Apr '23	3,531	4,100	176	0	1,174	781	1,447	311	2,179	82	65	1,922	125	15,893
May '23	2,373	3,800	114	69	956	695	1,034	201	1,587	57	59	1,459	233	12,637
Average	2,832	4,383	152	92	1,109	680	1,236	251	1,834	79	66	1,471	185	14,371



7.0 MAINTENANCE

7.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	170	1000
Corrective Maintenance	15	81
Emergency Call Outs Total	3	29

7.2 EMERGENCY CALL OUTS FOR THE MONTH

Туре	Total this Month	Total this Year
Sewer Back Up / Collection System	1	8
Pump Station	3	12
Plant	1	9
Odor	0	0
Power Outages	0	1
Total:	5	30

7.3 INSPECTIONS / ANNUAL PMS COMPLETED DURING THE MONTH

- 1. All pump station alarms checked
- 2. Spruce probe cleaned weekly
- 3. Eye wash inspections completed weekly
- 4. Fire extinguisher inspections completed monthly
- 5. Depedable Petroleum monthly UST Inspection

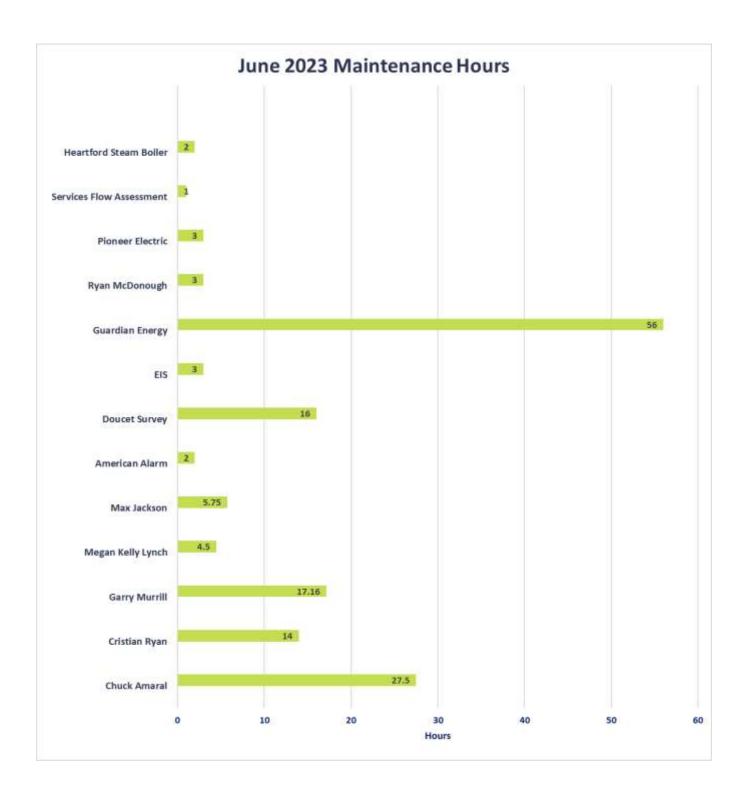
7.4 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

COLLECTION SYSTEM ASSITANCE:

Туре	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	0	0
Sewer Location mark Outs	44	541
Sewer Back Up	0	5

7.5 WORK ORDER STATISTICS

There were **160.91** total reported maintenance hours during the month. Of this total, outside contractors accounted for 57% with **92** hours recorded.



8.0 FINANCIAL ACCOUNTING- REPAIR / MAINTENANCE (JULY '22 - JUNE '23)

ltem	Budget	Spent Month	Spent Year	Remaining
R & M (Project)	\$100,000.00	\$5,550.15	\$100,000.83	(- 0.83)

8.1 SIGNIFICANT R&M PURCHASES

- 1. New England Generator ran a load bank test on the plant generator for \$1,097.10
- 2. Tools and Suplies purchased at Lowes for \$1,002.44
- 3. Flow Assessment Services calibrated the Influent Flow Meter for \$750.00

9.0 ATTACHED REPORTS

- Discharge Monitoring Report
- HACH Wims Data Reports
- Cumulative and Monthly Violation Reports
- Financial Reports
- Solids Removal Summary