



Monthly Operating Report

OCTOBER 2024



Rockland, MA WWTP



TOWN OF
ROCKLAND
MASSACHUSETTS

MOR October 2024

November 15, 2024

Mr. David Taylor

Interim Sewer Superintendent

587 Rear ummer Street

Rockland, MA 02370



RE: Rockland Wastewater Facility

Monthly Report—October 2024

Dear Representative of Rockland Sewer Affairs,

I have enclosed the October 2024 Monthly Operating Report (MOR) per the Veolia Operations and Maintenance contract.

Please contact me if you have any questions regarding this report.

Sincerely,

Megan Lynch, Plant Manager, Veolia

megan.lynch@veolia.com

Prepared by: Jesse Freeman, Ast Project Manager. Veolia.

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cc:

Doug Lapp

Rocklandsewer@rockland-ma.gov

Sewersuperintendent@rockland-ma.gov



1. SUMMARY:

1. The facility will be reporting **0** exceedance for the month of October 2024
2. There was **0** lost time / first aid injuries throughout the month.
3. The facility treated a total of **40.856** million gallons. The average daily flow was **1.318** MGD
4. The total rainfall for this reporting period was **.78"**
5. I&I Work is ongoing
6. **167** work orders were closed out, with **18** as corrective maintenance work orders and **1** emergency call outs.
7. Massachusetts general wastewater permit began April 1st, 2023

2. STAFFING:

Current Employee Licenses as of 08/31/2024											
		Hoisting		Wastewater				NEWEA Collections			NEWEA Lab
Employee	Title	1C Forklift	1B Boom Truck & Forklift	3M	5C	6C	7C	I	II	IV	I
Megan Lynch	Project Manager	X	X				X			X	
Jesse Freeman	Asst. Project Manager					X					
Charles Amaral	Maint Foreman				X				X		
Garry Murrill	Operator				X				X		
Yuir Fernandes	Operator				X						
Cristian Ryan	Operator			X							
Fred Anzivino	OIT										
Shaun Chaponis (Part Time Weekends)	Operator				X			X			

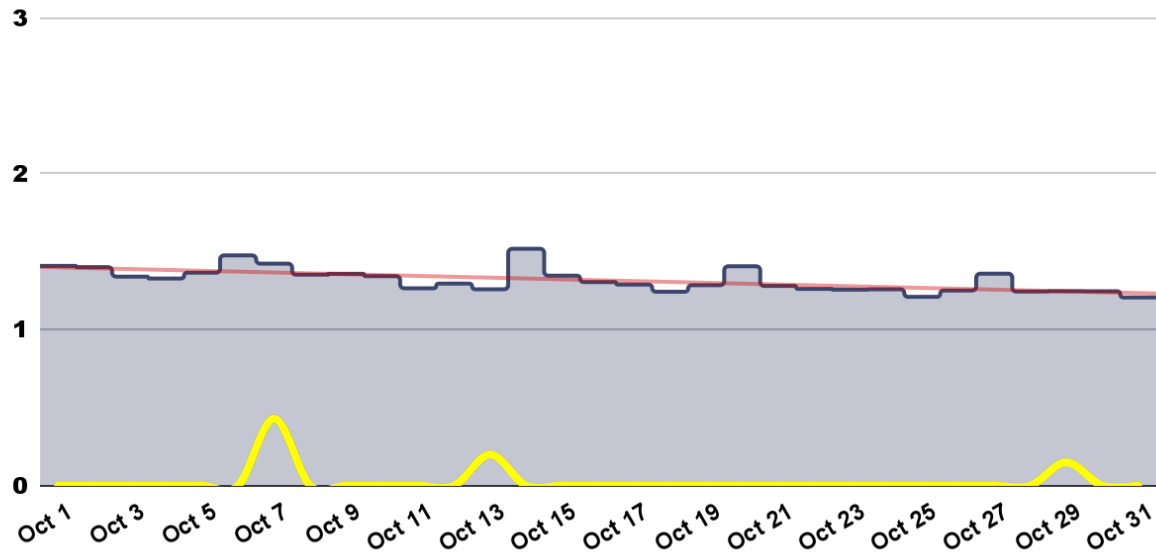


3. FLOWS AND LOADINGS:

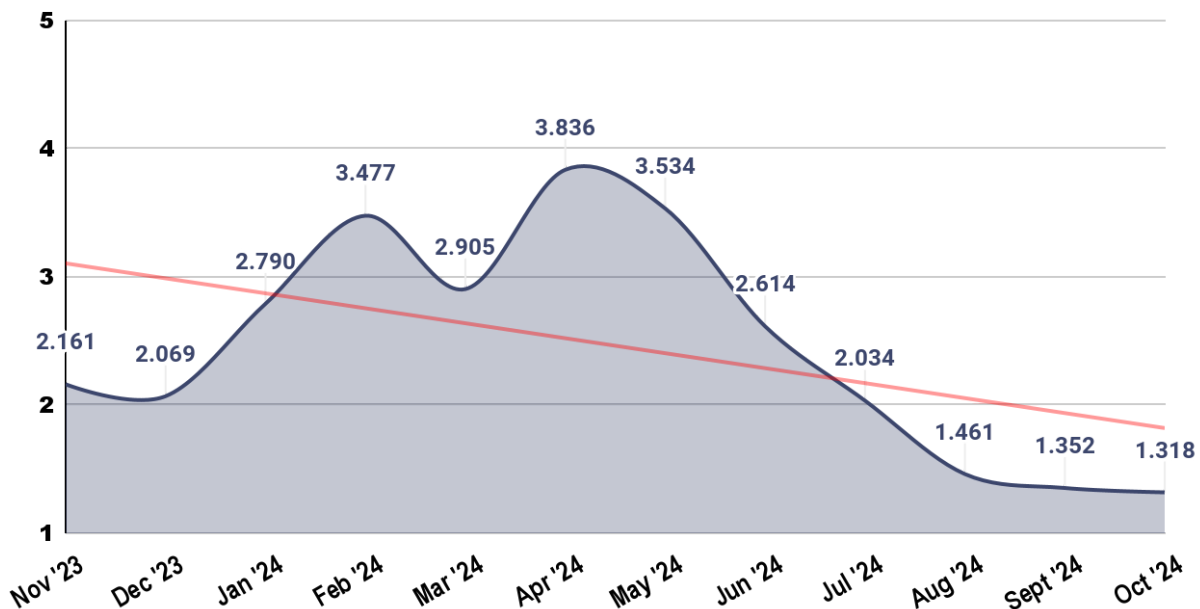
- The facility treated a total of **40.856 MG** during the month. The daily average flow was **1.318** MGD. This was **0.843** MGD LESS than the previous October monthly average 2023, which was recorded at **2.161**. The highest daily flow was recorded on October 14th as **1.519 MGD**. The lowest daily flow was recorded on October 31 st, as **1.207 MGD**.
- The highest **peak** flow was recorded on October 10th, as **4.08** MGD.
- A total of **.78"** of precipitation was received at the facility. The highest single day precipitation total was recorded on October 7 th, as **.43"**.
- The coldest day was October 13 th as , 29 °F. The warmest day was October 21 st as , **81 F**.

Rain & Flow, September, 2024

■ Daily Avg MGD ● RAIN inches



Average MGD Rolling Annual





3.1 INFLUENT **BOD** AND TSS LOADING

Month Year	INF	EFF	INF FLOW	EFF FLOW	INF	INF	INF BOD	INF TSS
	Inf FLOW	Eff FLOW	In MOV AVG	eff MOV AVG	in BOD	in TSS	MOV AVG	MOV AVG
	MGD	MGD	MGD	MGD	LBS	LBS	LBS	LBS
Nov '23	2.069	2.069	2.711	2.323	3,910	2,431	4,336	3,235
Dec '23	3.302	2.790	2.702	2.790	4,679	3,488	4,373	3,209
Jan '24	4.110	3.477	2.689	2.458	4,390	2,943	4,385	3,141
Feb '24	2.884	2.905	2.684	2.479	4,415	3,673	4,469	3,199
Mar '24	4.212	3.836	2.735	2.499	4,312	3,098	4,533	3,187
Apr '24	3.886	3.534	2.843	2.609	5,490	3,789	4,616	3,220
May '24	2.899	2.614	2.877	2.646	5,118	3,910	4,629	3,296
Jun '24	2.317	2.034	2.896	2.671	5,100	5,453	4,629	3,488
Jul '24	1.723	1.461	2.839	2.620	4,463	3,979	4,627	3,519
Aug '24	1.824	1.616	2.816	2.586	4,014	5,460	4,573	3,692
Sept '24	1.568	1.352	2.742	2.487	4,820	4,124	4,595	3,791
Oct '24	1.485	1.318	2.690	2.417	3,458	4,100	4,514	3,871

Please note : eff MOV AVG is a 12 month moving average. The reported rate is Eff Flow.

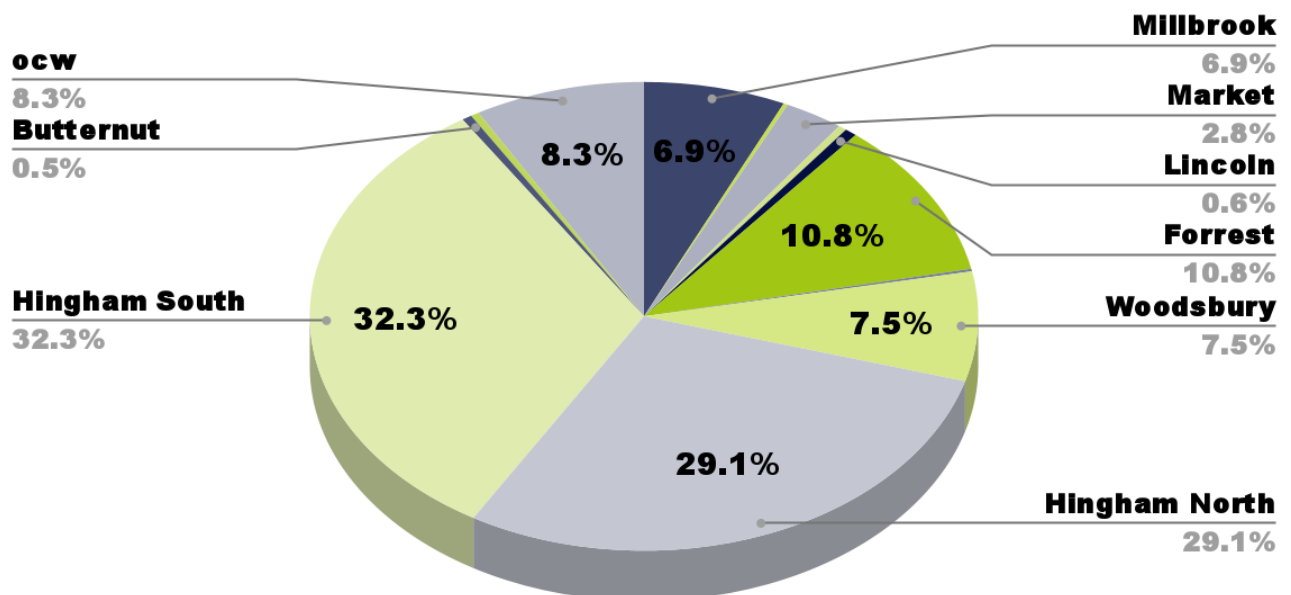
3.2 LIFT STATION FLOWS

The lift stations accounted for **13.35 million gallons** throughout the month, **33%** 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.



Lift Station Monthly Average Daily Flows (GPD)											
Month	Millbrook	Summer	Market	John Burke	Lincoln	Forrest	Woods	Hingham N	Hingham S	Butternut	Old Country
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD
Nov '23	30,047	857	13,286	3,137	2,743	58,050	36,450	46,650	130,757	145,414	
Dec '23	35,833	969	14,411	2,237	2,936	59,250	50,079	57,300	153,128	189,000	
Jan'24	36,373	1,123	18,643	2,246	3,836	62,700	66,793	82,050	174,729	242,614	
Feb'24	32,207	909	14,946	2,949	3,536	51,000	47,700	56,475	148,693	177,043	
Mar'24	43,470	1,320	14,411	3,317	7,500	58,200	61,714	77,625	193,436	246,471	
Apr'24	31,912	1,099	15,290	3,066	2,787	52,568	58,355	78,852	184,994	236,903	
May'24	33,062	952	14,419	2,245	2,768	53,042	47,787	53,381	159,735	204,503	3,629
June'24	27,941	883	12,968	2,036	2,516	47,894	40,877	47,352	137,334	173,148	2,468
July'24	26,791	844	13,452	1,889	2,439	43,423	35,071	35,429	133,084	151,548	1,742
Aug'24	26,094	921	13,403	1,703	2,884	42,745	38,961	36,987	130,297	148,761	2,003
Sep'24	23,342	844	11,903	1,603	2,535	42,406	27,987	33,329	120,890	139,355	1,974
Oct'24	30,554	931	12,677	1,804	2,613	48,165	33,561	36,716	129,252	143,884	1,783
Avg GPD	31,469	971	14,151	2,353	3,258	51,620	45,445	53,512	149,694	183,220	2,267

Pump Stations 2024





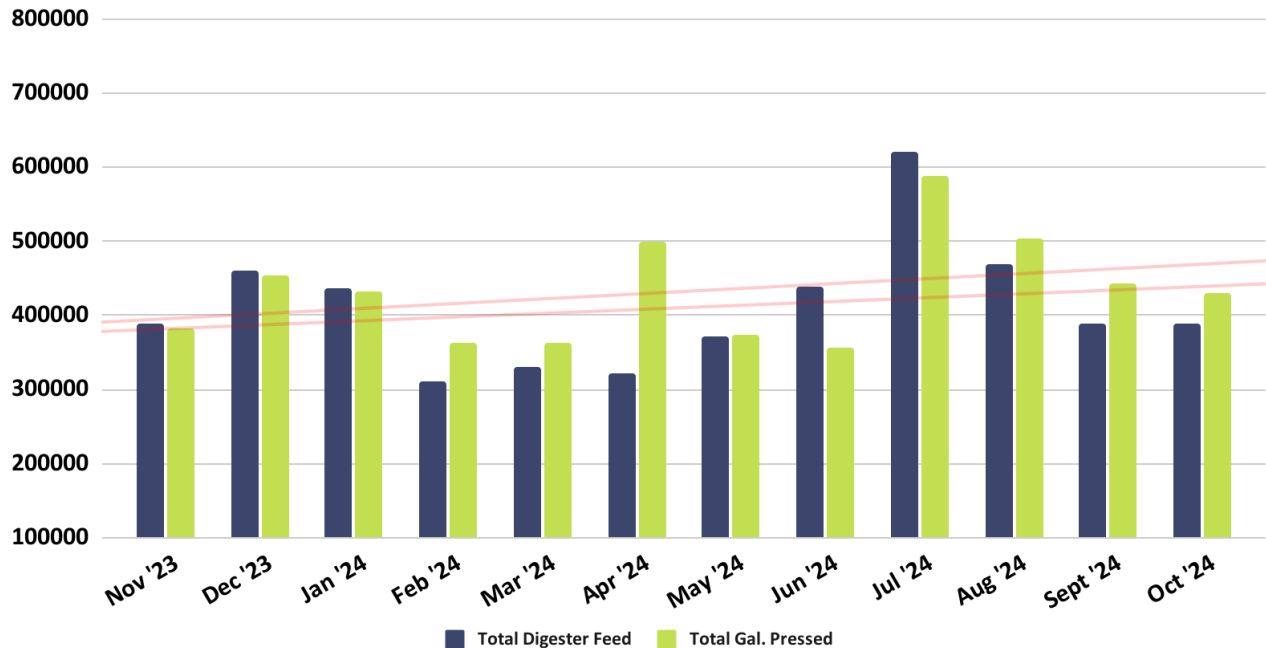
4.0 SOLIDS HANDLING

The BFP operated a total of **165.9** hours this month and a total of **431,295** gallons were processed producing **135.69** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **1.71%** and the BFP Cake average percent solids were **23.46 %**.

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
Nov '23	132.4	389,377	381,901	108.8	116.0	2.18	22.12	8.00	
Dec '23	150.5	460,829	454,170	137.6	98.0	2.04	21.95	6.00	
Jan '24	152.4	436,721	432,214	123.2	135.0	2.27	20.80	7.00	
Feb '24	130.5	311,234	362,674	111.2	100.0	2.05	22.41	6.00	
Mar '24	122.3	331,384	362,712	119.2	86.0	2.32	21.64	6.00	
Apr '24	164.0	321,384	500,524	131.2	51.0	1.69	21.51	6.00	
May '24	131.0	371,436	373,008	108.0	66.0	1.81	20.97	5.00	
Jun '24	114.9	438,919	357,639	99.4	49.0	1.80	21.50	5.00	
Jul '24	114.9	620,475	587,962	157.5	131.0	2.06	21.84	8.00	
Aug '24	172.8	469,021	503,173	132.0	144.0	2.01	23.42	7.00	
Sept '24	156.7	388,696	442,447	124.8	58.0	1.37	24.78	5.00	
Oct '24	165.9	474,833	431,295	122.8	135.96	1.71	23.46	7.00	
Annual Total	1,708	5,014,309	5,189,719	1,476	1,145	23.31	266.40	76	0.00
Avg.	142	417,859	432,477	123	95	1.94	22.20	6.3	*****



BFP Performance Overview



5.0 ENVIRONMENTAL COMPLIANCE

5.1 REGULATORY REPORTING

1. The EPA and MADEP October NETDMR was submitted on the CDX website November 2024.

5.2 NPDES COMPLIANCE

The facility will be reporting (0) exceedance(s) for the month of October 2024



	Plant Flow	BOD	BOD	TSS	TSS	NH3	Total P	Ph	E. Coli Coliform	Dissolved Oxygen
Date	MGD	Mg/L	Lbs./Day	Mg/L	Lbs./Day	Mg/L	Mg/L	Ph	CFU/100 ml	Mg/L
Oct 1	1.41								49.00	
Oct 2	1.40	2.00	23.00	5.00	58.00	.10	.14	7.15		
Oct 3	1.34									
Oct 4	1.33									
Oct 5	1.37									
Oct 6	1.48									
Oct 7	1.42									
Oct 8	1.35								241.00	
Oct 9	1.36	6.00	68.00	8.00	91.00		.19	7.45		
Oct 10	1.34									
Oct 11	1.27									
Oct 12	1.30									
Oct 13	1.26									
Oct 14	1.52									
Oct 15	1.35								39.00	
Oct 16	1.31	5.00	54.46	4.00	43.57	.10	.15	7.41		
Oct 17	1.29									
Oct 18	1.24									
Oct 19	1.29									
Oct 20	1.41									
Oct 21	1.28									
Oct 22	1.26									
Oct 23	1.26								44.00	
Oct 24	1.26	4.00	42.03	5.00	52.54		.17	7.56		
Oct 25	1.21									
Oct 26	1.25									
Oct 27	1.36									
Oct 28	1.25									
Oct 29	1.25								144.00	
Oct 30	1.25	4.00	41.60	4.00	41.60		.14	7.59		
Oct 31	1.21									



6.1 ELECTRICAL OVERVIEW

The department used a total of **138'305 KWH** for the month of October 2024. Of this total, the lift stations accounted for **13 %**, using **18'305 KWH**. The Main Plant accounted for the remaining **120'000 KWH**. The KWH/ MG treated was **2937** for the month and the KWH/Lb. BOD Removed was **1.03 KWH/Lb.** for the month.

Monthly Energy Consumption										
Month	Plant Average Daily Flow (NO HFMP)	Plant Total Effluent 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
Nov '23	2.069	62	104,700	1,839	43,777	0.86	195	201	13,297	115,631
Dec '23	2.790	56.5	129,300	1,726	66,318	0.76	207	234	15,313	117,997
Jan '24	3.477	98.5	135,600	1,588	48,027	0.9	261	273	18,956	144,613
Feb '24	2.905	84.20	122,400	1,572	122,094	0.78	213	231	21,708	154,556
Mar '24	3.836	110.9	111,000	1,687	128,077	2.39	222	216	16,633	144,108
Apr '24	3.534	101.9	143,700	1,495	158,901	1.95	228	237	17,451	127,633
May '24	2.614	81.00	112,800	1,376	155,428	2.82	210	219	16,066	161,151
Jun '24	2.034	61.00	116,100	1,453	151,206	1.00	186	222	12,509	128,866
Jul '24	1.461	45.30	123,000	1,001	137,028	0.87	186	195	10,930	133,930
Aug '24	1.616	50.10	111,300	2,222	124,000	0.89	171	176	10,240	121,540
Sept'24	1.352	40.55	110,401	2,722	120'000	0.92	171	186	9,901	110,401
Oct'24	1.318	40.86	120,000	2,937	116,402	1.03	205	217	18,305	138,305
Average	2.42	69.40	120,025	1,802	113,751	1.26	205	217	15,109	133,228



7.0 MAINTENANCE

7.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	167	2008
Corrective Maintenance	17	200
Emergency Call Outs Total	1	70

7.2 EMERGENCY CALL OUTS FOR THE MONTH

Type	Total this Month	Total this Year
Sewer Back Up / Collections	0	5
Pump Station	0	31
Plant	1	17
Odor	0	0
Power Outages	0	22
Total:	1	75

7.3 INSPECTIONS / ANNUAL PMS COMPLETED DURING THE MONTH

1. All pump station alarms checked
2. Eye wash inspections completed weekly
3. Fire extinguisher inspections completed monthly

7.4 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

COLLECTION SYSTEM ASSISTANCE:

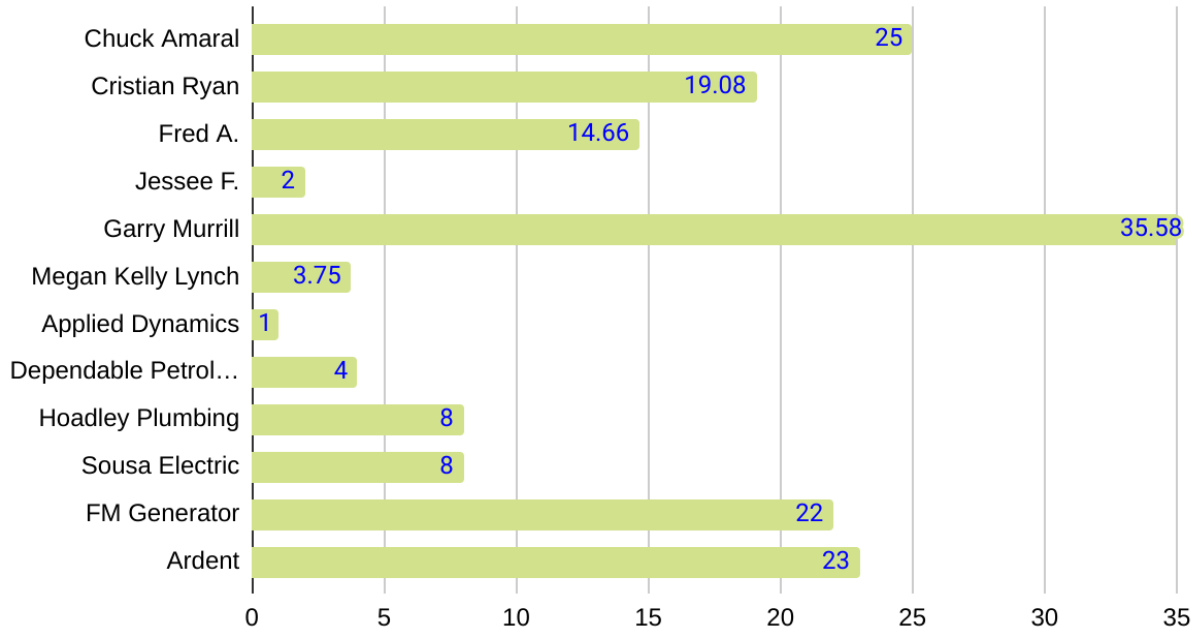
Type	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	0	3
Sewer Location mark Outs	14	823
Sewer Backup	0	3

7.5 WORK ORDER STATISTICS



There were **191** total reported maintenance hours during the month. Of this total, outside contractors accounted for **55%** with **105** hours recorded.

Work Orders October 2024



8.0 FINANCIAL ACCOUNTING- REPAIR / MAINTENANCE ()

8.1 SIGNIFICANT R&M PURCHASES

Ardent - Millbrook Repair

Sousa- Influent VFD number 3 remove and replace.

Sea Coast- Pump rebuilds - Waste

Item	Budget	Spent Month	Spent Year	Remaining
R & M (Project)	\$100,000.00	\$ 2'513	\$ 28,818.62	\$ 71'181



10/01/24	Home Depot - Parts
10/01/24	Apollo Safety - Annual RKI gas meter calibration
10/09/24	Grainger - 2 Traffic Cones
10/09/24	Grainger - Traffic Cone Size
10/09/24	Grainger - Caution Sign
10/09/24	Grainger - 2 Cable Protector with 3 Channels
10/18/24	Home Depot - Bolts
10/18/24	USA Bluebook - Bisulfite Hose
10/21/24	F.W. Webb - Pressure switch for Primary #3
10/21/24	Office Depot - Time Clock
10/22/24	Amazon - a bag for the safety spill mats
10/23/24	Amazon - barb couplings for hoses
10/25/24	Amazon - Parts for the toilet in the men's bathroom
10/30/24	Replace Final Effluent Ph Probe

9.0 ATTACHED REPORTS

- Discharge Monitoring Report
- Data Reports
- Financial Reports