



Monthly Operating Report

JANUARY 2025



Rockland, MA WWTP



TOWN OF
ROCKLAND
MASSACHUSETTS

MOR January 2025

February 15, 2025

Mr. David Taylor
Interim Superintendent Interim
587 Rear Summer Street
Rockland, MA 02370



RE: Rockland Wastewater Facility
Monthly Report — January 2025

Dear Representative of Rockland Sewer Affairs,

I have enclosed the January 2025 Monthly Operating Report (MOR) for the Veolia Operations and Maintenance contract.

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

Sincerely,

Megan Lynch
Veolia Project Manager

Jesse Freeman
Veolia Assistant Project Manager

CC: Rockland Sewer Commissioners
Michael Mullen
Walter Simmons
Mathew Ryan



1. SUMMARY:

1. The facility will be reporting **0** exceedance for the month of January.
2. There was **0** lost time / first aid injuries throughout the month.
3. The facility treated a total of **65.952** million gallons. The average daily flow was **2.127**
4. The total rainfall for this reporting period was **1.55"**
5. I&I Work is ongoing
6. **152** work orders were closed out, with **12** as corrective maintenance work orders and 3 emergency call outs.
7. Massachusetts general wastewater permit began April 1st, 2023

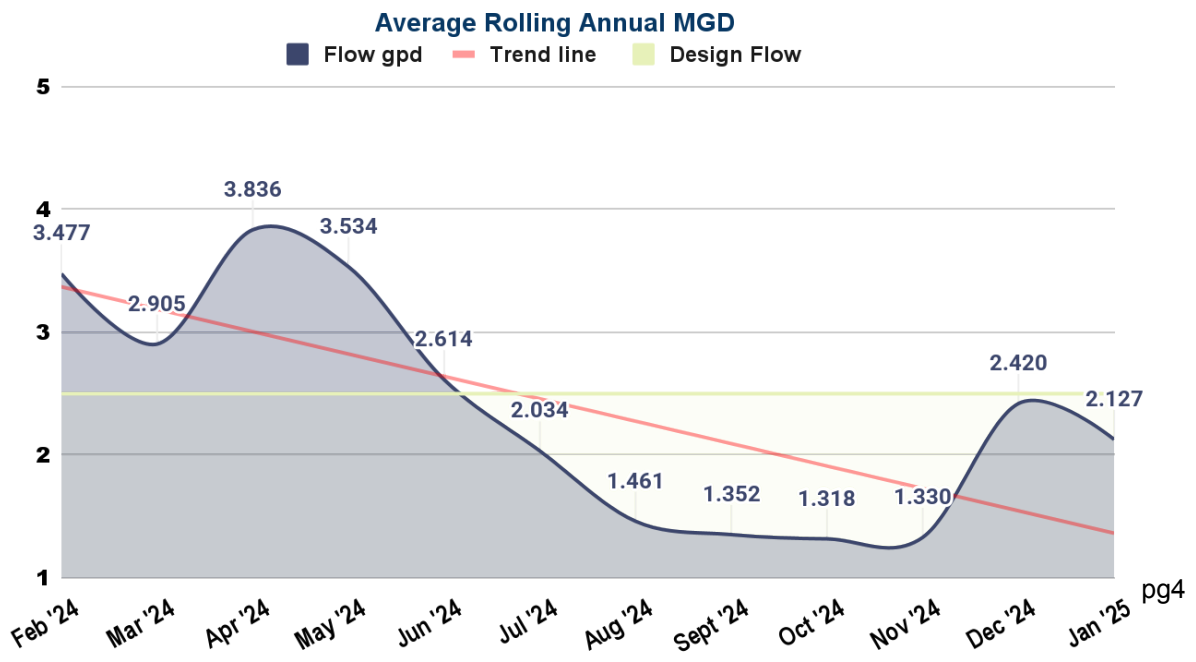
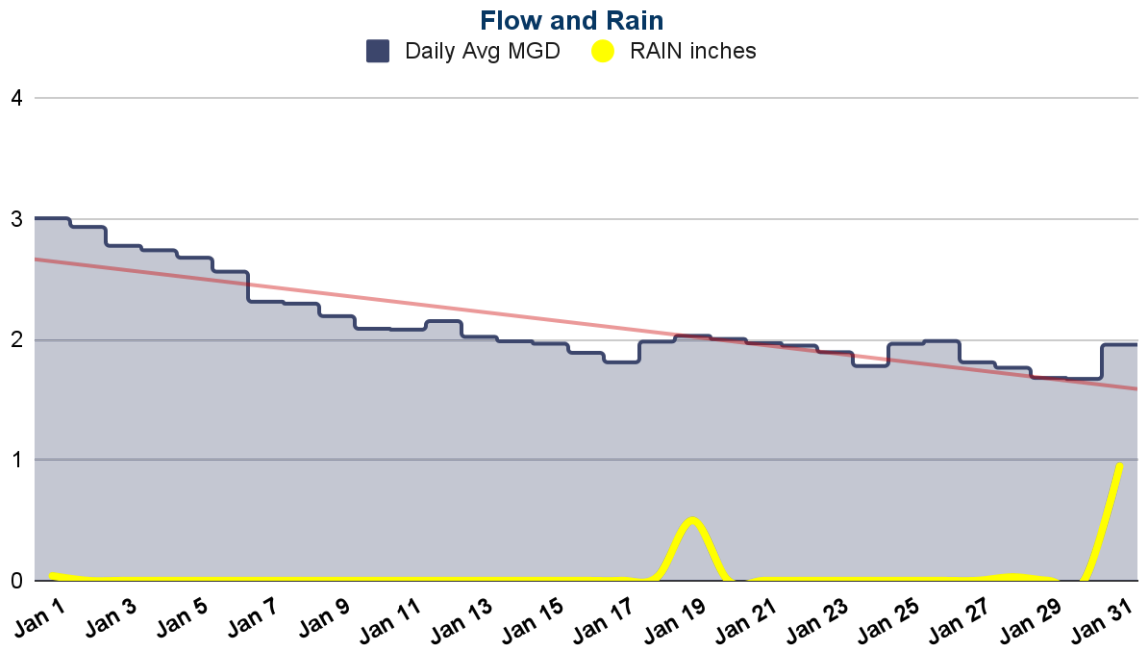
2. STAFFING:

Current Employee Licenses as of 11/31/2024											
		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				X					
Charles Amaral	Maint Foreman				X				X		
Garry Murrill	Operator				X				X		
Yuir Fernandes	Operator				X						
Cristian Ryan	Operator			X	X						
Camden Ryan	OIT										
Fred Anzivino	OIT										
Shaun Chaponis	Operator				X			X			



3. FLOWS AND LOADINGS:

1. The facility treated a total of **65.952 MG** during the month of January 2025. The daily average flow was **2.127 MGD**. This was **1.075 MGD LESS** than the previous January monthly average in **2024**, which was recorded at **3.179 MGD** (2024). The highest daily flow was recorded on January 1st as **3.004 MGD**.
2. The lowest daily flow was recorded on January 30th, as **1.673 MGD**.
3. The highest **peak** flow was recorded on January 3rd, as **3.42** MGD.
4. A total of **1.55"** of precipitation was received at the facility. The highest single day precipitation total was recorded on 31st, as **.095 "**.
5. The coldest day was 21st as , **1 F**. The warmest day was 1st as , **47 F**.





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
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
Nov '24	1.541	1.330	2.646	2.356	3,982	2,677	4,520	3,891
Dec '24	2.597	2.424	2.562	2.325	5,602	3,982	4,468	3,932
Jan '25	2.432	2.127	2.447	2.212	4,277	3,356	4,650	4,081

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

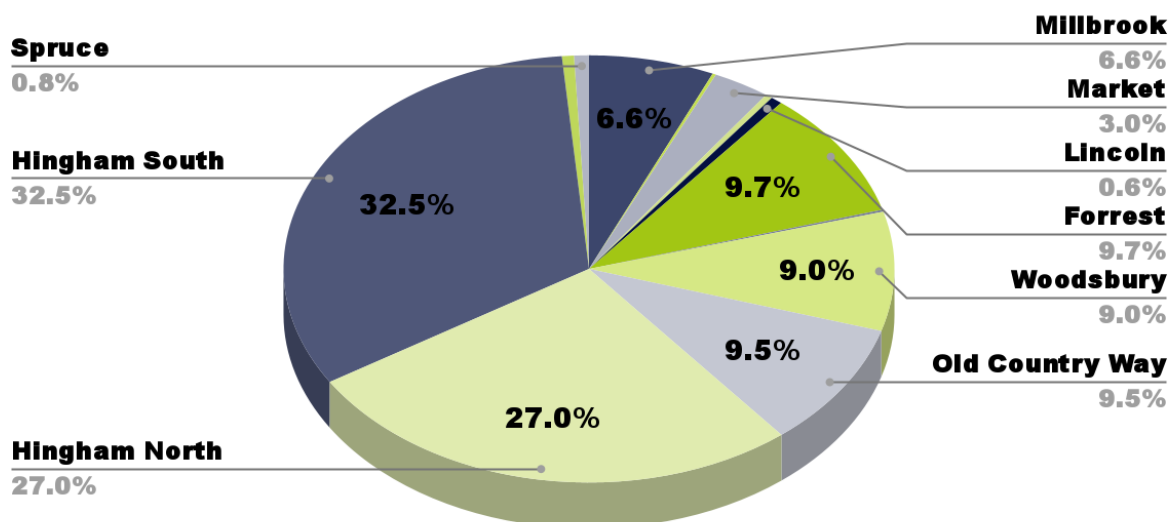
3.2 LIFT STATION FLOWS

The lift stations accounted for **16.339 million gallons** throughout the month, **25%** 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	Market	Lincoln	Forrest	Wood	Old Country	Hingham N	Hingham S	Butternut
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD
Feb'24	32,207	14,946	3,536	51,000	47,700	56,475	148,693	177,043	4,243
Mar'24	43,470	14,411	7,500	58,200	61,714	77,625	193,436	246,471	5,529
Apr'24	31,912	15,290	2,787	52,568	58,355	78,852	184,994	236,903	5,632
May'24	33,062	14,419	2,768	53,042	47,787	53,381	159,735	204,503	3,339
June'24	27,941	12,968	2,516	47,894	40,877	47,352	137,334	173,148	2,700
July'24	26,791	13,452	2,439	43,423	35,071	35,429	133,084	151,548	2,555
Aug'24	26,094	13,403	2,884	42,745	38,961	36,987	130,297	148,761	2,787
Sep'24	23,342	11,903	2,535	42,406	27,987	33,329	120,890	139,355	1,684
Oct'24	30,554	12,677	2,613	48,165	33,561	36,716	129,252	143,884	2,148
Nov'24	30,170	13,306	2,826	46,268	35,245	35,023	130,035	141,445	2,468
Dec'24	30,449	14,782	3,232	53,042	48,542	45,319	155,433	181,510	3,774
Jan'25	34,978	15,919	3,252	51,118	47,497	49,858	142,142	171,058	3,339
Avg GPD	31,479	14,152	3,265	50,638	45,344	52,543	149,634	182,890	3,491

Pump Stations 2025





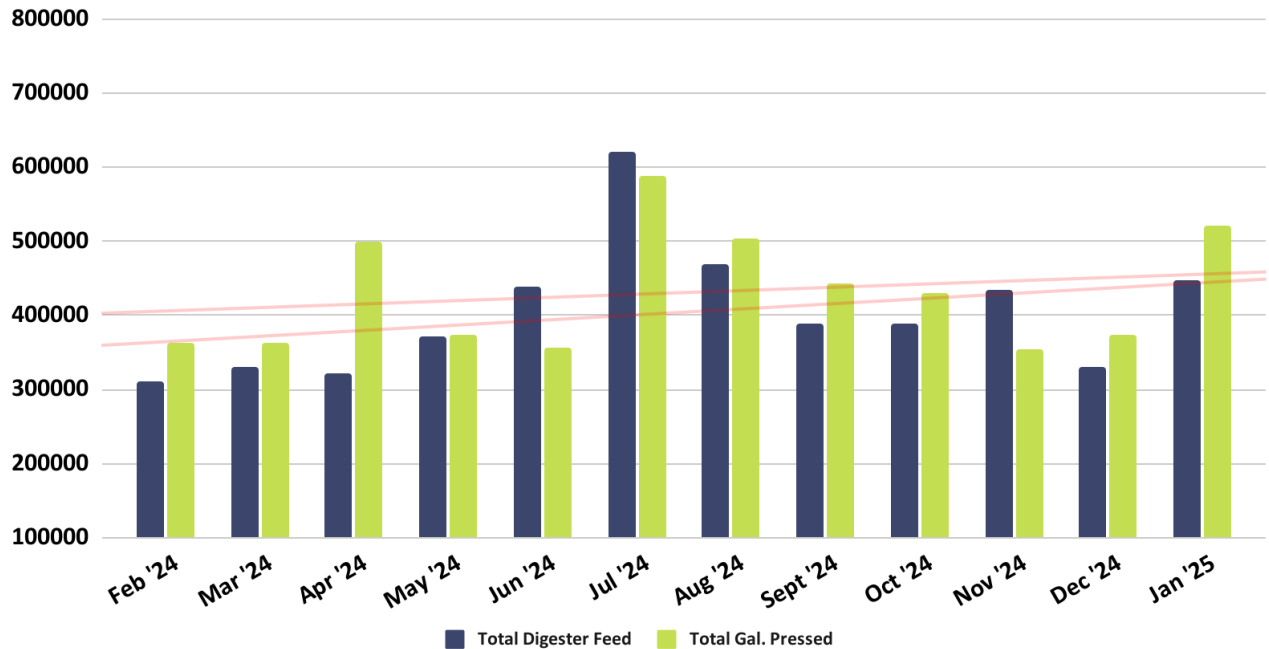
4.0 SOLIDS HANDLING

The BFP operated a total of **141.4** hours this month and a total of **521,901** gallons were processed producing **138** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **1.35 %** and the BFP Cake average percent solids were **19.72 %**.

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
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	111.0	1.71	23.46	7.00	
Nov '24	137.7	434,469	355,009	98.0	80.0	2.00	23.00	4.00	
Dec '24	138.2	331,535	373,421	115.0	66.0	1.47	21.30	4.00	
Jan '25	141.4	446,843	521,901	152.4	138.8	1.35	19.72	8.00	
Rolling Total	1,690	4,940,229	5,171,765	1,472	1,081	21.64	265.55	71	0.00
Avg.	141	411,686	430,980	123	90	1.80	22.13	5.9	*****



BFP Performance Overview



5.0 ENVIRONMENTAL COMPLIANCE

5.1 REGULATORY REPORTING

1. The EPA and MADEP December NETDMR was submitted on the CDX website in February 2025.

5.2 NPDES COMPLIANCE

The facility will be reporting (0) exceedance(s) for the month of January 2025



Date	Plant Flow	BOD	BOD	TSS	TSS	NH3	Total P	Ph	E. Coli Coliform	Dissolved Oxygen
	MGD	Mg/L	Lbs./Day	Mg/L	Lbs./Day	Mg/L	Mg/L	Ph	CFU/100 ml	Mg/L
1	3.00							7.36		<8
2	2.93	10.0	245	15.0	367	0.10	0.25	7.41		<8
3	2.78							7.38		<8
4	2.74							7.40		<8
5	2.68							7.44		<8
6	2.56							7.39		<8
7	2.31							7.35	173	<8
8	2.30	10.0	192	4.0	77			7.34		<8
9	2.19							7.44		<8
10	2.09							7.35		<8
11	2.08							7.28		<8
12	2.15							7.27		<8
13	2.02							7.43		<8
14	1.99							7.51	240	<8
15	1.97	7.0	115	7.0	115	1.60	0.36	7.45		<8
16	1.89							7.50		<8
17	1.81							7.47		<8
18	1.98							7.46		<8
19	2.03							7.44		<8
20	2.00							7.41		<8
21	1.97							7.54		<8
22	1.95	10.0	163	2.0	33			7.45	313	<8
23	1.89							7.53	152	<8
24	1.78							7.54		<8
25	1.96							7.50		<8
26	1.99							7.40		<8
27	1.81							7.46	7	<8
28	1.77							7.53	4	<8
29	1.68	17.0	238	5.0	70			7.38		<8
30	1.67							7.16		<8
31	1.96							7.03		<8

Effluent copper : 2 micrograms. // Aluminum : 1 micrograms. Total Nitrogen <10 ppm avg. Total BOD & TSS Removal : at 98.6 %



6.1 ELECTRICAL OVERVIEW

The department used a total of **135,161 KWH** for the month of January 2025. Of this total, the lift stations accounted for **15 %**, using **20,261 KWH**. The Main Plant accounted for the remaining **114,900 KWH**. The KWH/ MG treated was **1,742** for the month and the KWH/Lb. BOD Removed was **.99 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
Feb '24	2.905	84.20	122,400	1,572	122,094	0.78	213	231	21,708	154,556
Mar '24	3.836	110.90	111,000	1,687	128,077	2.39	222	216	16,633	144,108
Apr '24	3.534	101.90	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	100,500	2,722	120'000	0.92	171	186	9,901	110,401
Oct'24	1.318	40.86	103,500	2,937	116,402	1.03	205	217	18,305	138,305
Nov '24	1.330	39.89	123,600	3,098	115,803	1.07	171	177	15,694	139,294
Dec '24	2.420	75.15	126,900	1,689	125,700	1.01	228	222	18,376	145,276
Jan '24	2.127	65.93	114,900	1,742	115,482	0.99	195	198	20261	135,161
Average	2.21	66.40	117,475	1,916	131,829	1.31	199	208	15,673	136,685



Please note an error was found in the counts in sec 7, Jan 25, the numbers for FY25 are now accurate and revised.

7.0 Maintenance

7.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	152	1148
Corrective Maintenance	22	125
Emergency Call Outs Total	3	32

7.2 EMERGENCY CALL OUTS FOR THE MONTH

Type	Total this Month	Total this Year
Sewer Back Up / Collections	2	5
Pump Station	1	14
Plant	1	10
Odor	1	1
Power Outages	2	17

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

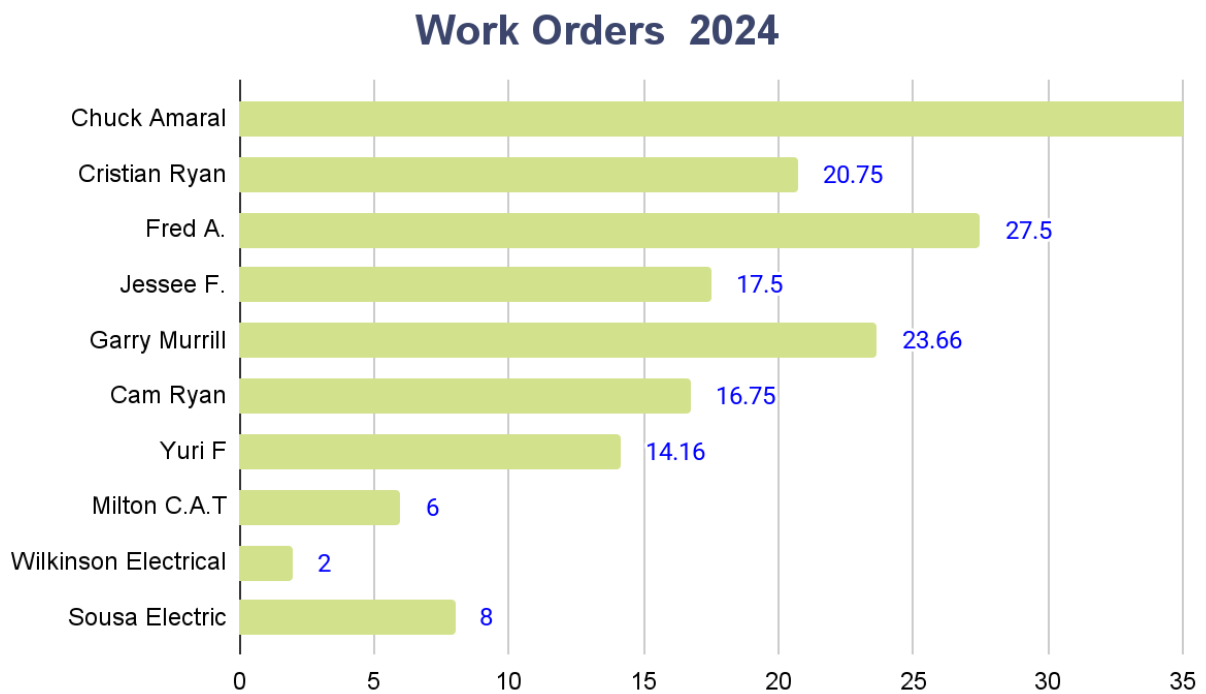
COLLECTION SYSTEM ASSISTANCE:

Type	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	2	8
Sewer Location mark Outs	56	394
Sewer Backup	2	6



7.5 WORK ORDER STATISTICS

There were **179** total reported maintenance hours during the month. Of this total, outside contractors accounted for **9 %** with **16** hours recorded.



8.0 FINANCIAL ACCOUNTING- REPAIR / MAINTENANCE ()

8.1 SIGNIFICANT R&M PURCHASES

01/03/25	UPS - Shipping on package with aerator oil samples	Mechanical	\$ 15.97	\$ 62,921.79
01/04/25	Amazon - Office Supplies	Mechanical	\$ 138.39	\$ 62,783.40
01/05/25	Aquatic Informatics - Annual Job Cal Basic Support	Instrumentation	\$ 1,697.44	\$ 61,085.96
01/05/25	C & S Refrigeration, Inc - Unit #1 Heater on Room: replace gas valve, flame sensor, spark ignitor, and flame retainer	Mechanical	\$ 2,123.96	\$ 58,962.00
01/05/25	USA Bluebook - Longopac Cassette Bag	Mechanical	\$ 385.98	\$ 58,576.02
01/05/25	Town of Rockland - Reimbursement for paying NIR	Mechanical	\$ 1,113.76	\$ 57,462.26



	Sales for the Lime hoses ordered			
01/09/25	Amazon - auto water feed regulator for the boiler	Mechanical	\$ 88.98	\$ 57,373.28
01/10/25	Home Depot - paint and parts	Supplies	\$ 95.67	\$ 57,277.61
01/11/25	Sullivan Water - Chlorine probe parts	Parts	\$ 162.67	\$ 57,114.94
1/13/25	USA Bluebook - Level transducers and Longer Level Transducer	Mechanical	\$ 2,375.88	\$ 54,739.06
1/15/25	Sousa Electric Company - Checked why fans don't work. Run new feed wiring as old circuit was tied to old generator.	Mechanical	\$ 616.50	\$ 54,122.56
1/23/25	Hoadley - PVC, plugs, and gasket	Parts	\$ 206.12	\$ 53,916.44
1/24/25	Seacoast Supply - Royal Purple was ordered	Mechanical	\$ 534.23	\$ 53,382.21
1/30/25	USA Bluebook - 4 Hypo Tubes for peristaltic pump	Mechanical	\$ 206.12	\$ 53,176.09
1/30/25	Amazon - battery chargers, tail light, and spark plugs	Mechanical	\$ 161.40	\$ 53,014.69
1/31/25	Seacoast Supply - Partial rebuild of RAS #3 pump (Pioneer Pump)	Mechanical	\$ 4,800.00	\$ 48,214.69

Item	Budget	Spent Month	Spent Year	Remaining
R & M (Project)	\$100,000.00	\$ 14,723	\$ 51,785	\$ 48,214

9.0 ATTACHED REPORTS

- Discharge Monitoring Report
- Data Reports
- Financial Reports