Monthly Operating Report

APRIL 2022



Rockland, MA WWTP





| Mr. David P. Taylor |
|---|
| Rockland Interim Sewer Superintendent |
| 587 Rear Summer Street |
| Rockland, MA 02370 |
| |
| |
| RE: Rockland Wastewater Facility |
| Monthly Report—April 2022 |
| |
| |
| Dear Mr. Taylor, |
| Please see the enclosed April 2022 Monthly Operating Report (MOR) for the Veolia Operations and Maintenance contract. |
| Please contact me soon as possible should you have any questions regarding this report. |
| Sincerely, |
| Rick Kotouch |
| Veolia Project Manager |
| CC: Charles Heshion Dan Duross Sherri Vallie |

APRIL 2022 MONTHLY OPERATING REPORT

1. SUMMARY:

- 1) The facility will be reporting 1 exceedance for the month of April 2022
- 2) There was **0** lost time / first aid injuries throughout the month
- 3) The facility treated a total of 82.960 Million Gallons. The average daily flow was 2.765 MGD
- 4) The total rainfall for this reporting period was 2.68"
- 5) I&I Work is ongoing
- 6) 175 work orders were closed in April, with 8 as corrective maintenance work order and 3 were emergency call outs
- 7) The new NPDES Permit was issued in November 2021 and became effective in February 2022

2. STAFFING:

| Current Employee Licenses as of 04/11/2022 | | | | | | | | | | | |
|--|--------------------------|----------------|--------------------------------|----|------------|----|---|-------------------|----|---|--|
| | | Hoisting | | , | Wastewater | | | NEWEA Collections | | | |
| Employee | Title | 1C Forklift | 1B Boom Truck & Forklift | 3M | 5C | 7C | I | II | IV | I | |
| Rick Kotouch | Project Manager | | | | | Х | | | Х | | |
| Megan Kelly-Lynch | Asst. Project Manager | Х | | | | Х | | | | | |
| Steven Butts | Lab Technician | | | | | Х | | | | Х | |
| Chuck Amaral | Maintenance Foreman | | | | Х | | | Х | | | |
| Garry Murrill | Operator | | | | Х | | | Х | | | |
| Dan Sullivan-Xenos | Operator | | | | Х | | | | | | |
| Max Jackson | Operator | | | Х | | | | | | | |
| Shaun Chaponis (Part Time Weekends) | Operator | | | | Х | | Х | | | | |

3. EMPLOYEE HEALTH AND SAFETY:

The employee that slipped on black ice in the parking lot on 3/2/2022 and returned back to work on 3/21/22 is still working with job duty restrictions.

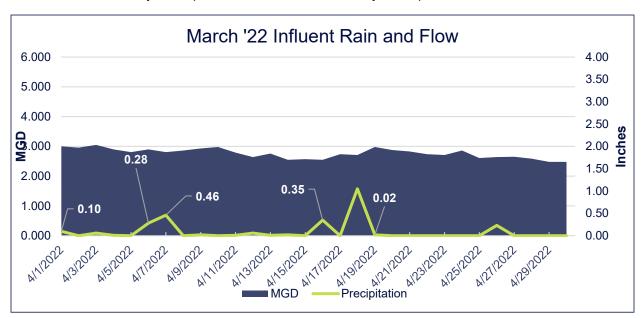
Throughout the COVID-19 (Coronavirus) pandemic in an attempt to continue to serve the Town of Rockland with reliable operations and protect the staff of the Rockland team, Suez/Veolia has implemented numerous procedures to ensure continuity of the operations. As the COVID-19 Delta variant and Omicron rates decreases, Veolia at the Rockland facility has downgraded to a Threat Level 0 guideline as follows:

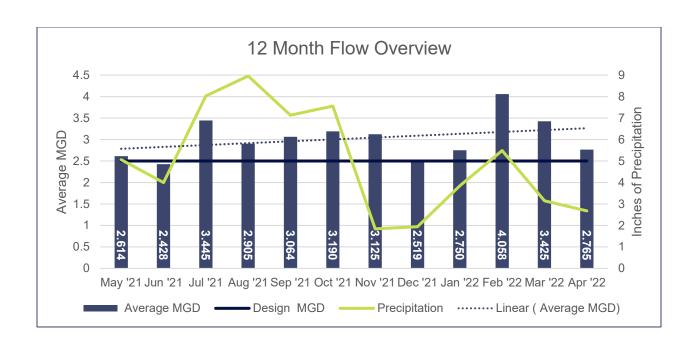
All essential personnel are required to be screened before entering the premises and meet the Covid visitor guidelines. Use of common areas/dining areas, in-person meetings and training are now permitted.

4 FLOWS AND LOADINGS:

4.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of 82.960 MG during the month. The daily average flow was 2.765 MGD. This was 0.331 MGD less than the previous April monthly average, which was recorded at 3.096 MGD. The highest *peak* flow was recorded on April 9 as 3.740 MGD. The lowest instantaneous flow was 1.081 MGD, recorded April 3.
- The highest daily flow was recorded on April 1 as **3.050** MGD. The lowest daily flow was recorded on April 29 as **2.480** MGD.
- A total of 2.68 of precipitation was received at the facility. The highest single day precipitation total was recorded on April 18 as 1.05"
- The coldest day was April 3 at 29°F. The warmest day was April 13 at 71°F.





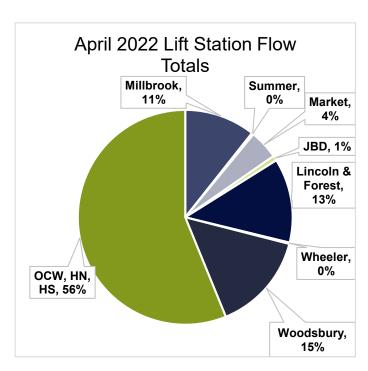
4.1 INFLUENT BOD AND TSS LOADING

| ROCKLAND FLOW AND LOADINGS TRACKING | | | | | | | | |
|-------------------------------------|--------------|------------|-------------|------------------------|-----------------------|-----------------------|--|--|
| Month/Yr | Inf. Flow | Inf BOD | Inf. TSS | Inf. Flow Mov. Avg. | Inf. BOD Mov. Avg. | Inf. TSS Mov. Avg. | | |
| | MGD | LBS | LBS | MGD | LBS | LBS | | |
| | | | | | | | | |
| May '21 | 2.614 | 3,485 | 3,644 | 2.380 | 3,064 | 3,802 | | |
| Jun '21 | 2.428 | 3,874 | 3,572 | 2.419 | 3,112 | 3,790 | | |
| Jul '21 | 3.445 | 2,344 | 3,371 | 2.569 | 3,080 | 3,784 | | |
| Aug '21 | 2.905 | 3,044 | 4,011 | 2.683 | 3,118 | 3,798 | | |
| Sep '21 | 3.064 | 2,376 | 4,904 | 2.809 | 3,064 | 3,859 | | |
| Oct '21 | 3.190 | 2,990 | 3,889 | 2.936 | 3,046 | 3,815 | | |
| Nov '21 | 3.125 | 2,270 | 3,500 | 3.015 | 2,963 | 3,774 | | |
| Dec '21 | 2.519 | 3,597 | 3,699 | 2.938 | 3,019 | 3,738 | | |
| Jan '22 | 2.750 | 3,909 | 3,676 | 2.936 | 3,103 | 3,774 | | |
| Feb '22 | 4.058 | 3,910 | 3,913 | 2.993 | 3,158 | 3,755 | | |
| Mar '22 | 3.425 | 3,887 | 4,456 | 3.055 | 3,240 | 3,855 | | |
| Apr '22 | 2.765 | 3,907 | 4,051 | 3.024 | 3,299 | 3,891 | | |
| | | | | | | | | |

4.2 LIFT STATION FLOWS

The lift stations accounted for **9,477,480** gallons throughout the month, **11.3%** 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.

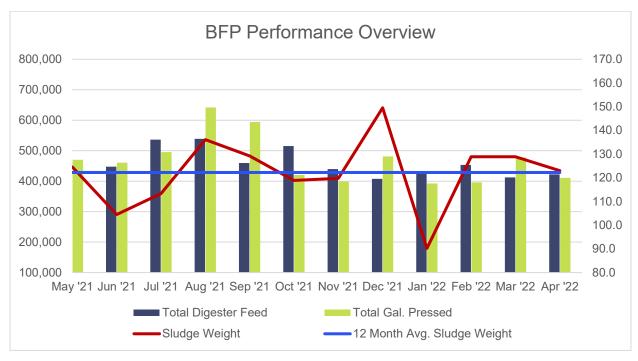
| Total Flov | vs for April 20 | 22 |
|-------------|-----------------|----|
| | Total | |
| Station | Gallons | |
| Millbrook | 994,679 | |
| Summer | 27,600 | |
| Market | 484,501 | |
| John Burke | 73,680 | |
| Lincoln, | 1,289,398 | |
| Forest | | |
| Wheeler | 25,020 | |
| Woodsbury | 1,398,601 | |
| OCW, HN, HS | 5,184,000 | |
| Total: | 11,402,220 | |



| | Lift Station Monthly Average Daily Flows (GPD) | | | | | | | | | | |
|----------|--|-------|--------|------------|---------|---------|---------|-----------|--------------------|------------------|------------------|
| Month | Millbrook | Sumer | Market | John Burke | Lincoln | Forrest | Wheeler | Woodsbury | Old Country Way | Hingham North | Hingham South |
| | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD |
| May '21 | 33,876 | 968 | 16,950 | 1,880 | 2,160 | 37,590 | 678 | 36,060 | 59,220 | 152,640 | 184,320 |
| June '21 | 34,272 | 1,000 | 16,400 | 2,112 | 5,020 | 46,410 | 708 | 33,720 | 51,240 | 153,360 | 172,080 |
| July '21 | 33,166 | 952 | 17,226 | 2,183 | 4,684 | 54,126 | 732 | 36,813 | 68,894 | 199,974 | 227,845 |
| Aug '21 | 30,345 | 968 | 16,887 | 2,563 | 2,826 | 53,042 | 761 | 44,594 | 62,797 | 169,839 | 190,568 |
| Sept '21 | 30,348 | 968 | 17,000 | 2,560 | 2,840 | 52,990 | 768 | 44,700 | 63,070 | 170,460 | 191,160 |
| Oct '21 | 29,822 | 898 | 15,339 | 2,121 | 3,252 | 51,552 | 639 | 50,458 | 65,303 | 163,568 | 187,084 |
| Nov '21 | 33,156 | 920 | 16,150 | 2,456 | 2,600 | 42,980 | 834 | 46,620 | 57,960 | 151,920 | 172,800 |
| Dec'21 | 31,459 | 929 | 15,677 | 1,881 | 3,232 | 42,339 | 703 | 49,355 | 59,206 | 157,994 | 182,555 |
| Jan '22 | 39,228 | 1,045 | 16,161 | 2,787 | 2,806 | 46,674 | 743 | 54,581 | 66,319 | 166,355 | 206,593 |
| Feb '22 | 33,156 | 920 | 16,150 | 2,456 | 2,600 | 42,980 | 834 | 46,620 | 57,960 | 151,920 | 172,800 |
| Mar '22 | 31,459 | 929 | 15,677 | 1,881 | 3,232 | 42,339 | 703 | 49,355 | 59,206 | 157,994 | 182,555 |
| Apr'22 | 33,156 | 920 | 16,150 | 2,456 | 2,600 | 42,980 | 834 | 46,620 | 57,960 | 151,920 | 172,800 |
| Average | 32,787 | 951 | 16,314 | 2,278 | 3,154 | 46,333 | 745 | 44,958 | 60,761 | 162,329 | 186,930 |

5.0 SOLIDS HANDLING6.1 REGULATORY REPORTING

The BFP was operated a total of **134** hours this month and a total of **410,793** gallons were processed producing **123** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **2.66%** and the BFP Cake average percent solids were **19.69%**. 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 |
| May '21 | 161.5 | 504,683 | 470,321 | 108.0 | 124.6 | 2.62 | 21.62 | 7.00 | |
| Jun '21 | 148.3 | 447,325 | 460,923 | 109.1 | 104.5 | 2.16 | 23.59 | 6.00 | |
| Jul '21 | 129.3 | 536,074 | 495,343 | 90.4 | 113.3 | 2.33 | 21.29 | 7.00 | |
| Aug '21 | 154.6 | 538,761 | 641,667 | 128.7 | 136.1 | 1.97 | 21.24 | 7.00 | |
| Sep '21 | 154.3 | 459,723 | 594,127 | 133.0 | 129.2 | 1.75 | 21.08 | 6.00 | |
| Oct '21 | 108.5 | 515,074 | 420,101 | 86.6 | 118.9 | 2.67 | 21.17 | 5.00 | 4 |
| Nov '21 | 120.0 | 439,762 | 398,853 | 90.4 | 119.8 | 2.25 | 20.40 | 7.00 | |
| Dec '21 | 152.8 | 407,825 | 481,140 | 126.2 | 149.5 | 1.56 | 20.29 | 7.00 | |
| Jan '22 | 141.3 | 433,648 | 392,237 | 101.8 | 90.2 | 1.86 | 18.19 | 6.00 | |
| Feb '22 | 140.8 | 453,426 | 396,361 | 112.0 | 128.9 | 2.07 | 18.64 | 6.00 | |
| Mar '22 | 163.3 | 412,533 | 477,919 | 136.1 | 128.9 | 1.79 | 18.32 | 7.00 | |
| Apr '22 | 133.8 | 422,314 | 410,793 | 123.4 | 123.0 | 2.66 | 19.69 | 6.00 | |
| Annual Total | 1,708 | 5,571,148 | 5,639,785 | 1,346 | 1,467 | **** | **** | 77 | 4.00 |
| Avg. | 142 | 464,262 | 469,982 | 112 | 122 | 2.14 | 20.46 | 6.4 | **** |

6.0 ENVIRONMENTAL COMPLIANCE

6.1 REGULATORY REPORTING

1. The EPA and MADEP April 22 NETDMR was submitted on the CDX website on 05/11/2022

6.2 NPDES COMPLIANCE

The facility will be reporting (1) exceedance(s) for the month of April 22

• The monthly average flow was recorded at 2.765 MGD, the NPDES limit is 2.50

| Date | Plant Flow | BOD | BOD | TSS | TSS | NH3 | Total P | Ph | Fecal 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 | | | |
| Fri, Apr 01 | 3.000 | | | | | | | 7.14 | | | | | Oct. 1 - | 20 Mg/L | 20 Mg/L | 30 Mg/l |
| Sat, Apr 02 | 2.960 | | | | | | | 7.10 | | | | | Aprill 30 | 417 bs/day | 417 lbs/Day | 626 lbs/Day |
| Sun, Apr 03 | 3.050 | | | | | | | 7.11 | 6 | | | | May1 - | 6 Mg/L | 6 Mg/L | 10Mg/L |
| Mon, Apr 04 | 2.900 | | | | | | | 7.18 | 11 | | | | Sept. 30 | 125 Lbs/Day | 125 lbs/Day | 209 Lbs/day |
| Tues, Apr 05 | 2.810 | 1.6 | 37 | 3.3 | 77 | 0.10 | 0.15 | 7.25 | 7 | 13 | 5.9 | | TSS | | | |
| Wed, Apr 06 | 2.900 | | | | | | | 7.22 | | | | | Oct. 1 - | 20 Mg/L | 20 Mg/L | 30 Mg/l |
| Thu, Apr 07 | 2.810 | 1.1 | 26 | 2.5 | 59 | 0.10 | 0.14 | 7.20 | | | | | Aprill 30 | 417 Lbs/Day | 417 Lbs/Day | 626 lbs/Day |
| Fri, Apr 08 | 2.860 | | | | | | | 7.13 | | | | | May1 - | 10 Mg/L | 10 Mg/L | 15Mg/L |
| Sat, Apr 09 | 2.930 | | | | | | | 7.16 | | | | | Sept. 30 | 209 Lbs/Day | 209 lbs/Day | 313 Lbs/day |
| Sun, Apr 10 | 2.980 | | | | | | | 7.23 | 7 | | | | NH3 | I I IIS/I IAV | <u> </u> | THS/HAV |
| Mon, Apr 11 | 2.790 | | | | | | | 7.34 | 14 | | | | Oct.1 - Mar. | | | |
| Tues, Apr 12 | 2.640 | 2.0 | 44 | 3.2 | 81 | 0.19 | 0.12 | 7.38 | 10 | | | | 31 | 3.3 Mg/L | 3.3 Mg/I | 5.7 Mg/L |
| Wed, Apr 13 | 2.760 | | | | | | | 7.28 | | | | | Apr. 1 - | | | |
| Thu, Apr 14 | 2.550 | 2.0 | 43 | 3.2 | 68 | 0.10 | 0.12 | 6.94 | | | | | May 31 | 2.5 Mg/L | 2.5 Mg/I | 5.7 Mg/l |
| Fri, Apr 15 | 2.570 | | | | | | | 7.11 | | | | | June1 - | | | |
| Sat, Apr 16 | 2.550 | | | | | | | 7.24 | | | | | Sept. 30 | 1.0 Mg/L | 1.0 Mg/L | 1.5 Mg/L |
| Sun, Apr 17 | 2.740 | | | | | | | 7.45 | 6 | | | | Total Phps | phorus | | |
| Mon, Apr 18 | 2.710 | | | | | | | 7.34 | 4 | | | | Apr.1 - | | | |
| Tues, Apr 19 | 2.980 | 2.0 | 50 | 3.3 | 82 | 0.12 | 0.13 | 7.46 | 23 | | | | Oct.31 | 0.2 Mg/L | ******* | ******* |
| Wed, Apr 20 | 2.880 | | | | | | | 7.49 | | | | | Nov. 1 - | | | |
| Thu, Apr 21 | 2.830 | 2.0 | 47 | 4.0 | 94 | 0.15 | 0.10 | 7.47 | | | | | Mar. 31 | 1.0 Mg/L | ******* | ******* |
| Fri, Apr 22 | 2.740 | | | | | | | 7.40 | | | | | Ph | | | |
| Sat, Apr 23 | 2.710 | | | | | | | 7.48 | | | | | | 6.5 | - 8.3 | |
| Sun, Apr 24 | 2.860 | | | | | | | 7.29 | 4 | | | | Fecal | | | |
| Mon, Apr 25 | 2.610 | | | | | | | 7.44 | 8 | | | | | 200 | | 400 |
| Tues, Apr 26 | 2.640 | 2.0 | 44 | 3.7 | 81 | 0.10 | 0.10 | 7.49 | 6 | | | | ****** | CFU/100ml | ******* | CFU/100ml |
| Wed, Apr 27 | 2.650 | | | | | | | 7,54 | | | | | Aluminum | | | |
| Thu, Apr 28 | 2.590 | 2.0 | 43 | 3.3 | 71 | 0.15 | 0.10 | 7,55 | | | | | ****** | 88 ug/l | ****** | ****** |
| Fri, Apr 29 | 2.480 | | | | | | | 7.37 | | | | | Copper | | | |
| Sat, Apr 30 | 2.480 | 1 | 1 | | | | | 7.53 | 1 | | | | ****** | 12 ug/l | ****** | ****** |
| | | | | | | | | | | | | | Dissolved (| ŭ | | |
| Daily Max | 3.050 | 2.00 | 49.71 | 4.00 | 94.41 | 0.19 | 0.15 | 7.55 | 23 | ***** | ****** | ****** | May 1 - | <u> </u> | > 7.4 mg/L | |
| Daily Min. | 2.480 | ****** | ****** | ****** | ****** | ***** | ****** | 6.94 | ****** | ******* | ****** | | Sept. 30 Plant Flow | | | |
| Month Avg. | 2.765 | 1.84 | 41.75 | 3.38 | 76.63 | 0.13 | 0.12 | 7.31 | 8.83 | 13 | 5.9 | ****** | 2.5 MGD | | | |

7.0 ENERGY CONSUMPTION

7.1 ELECTRICAL OVERVIEW

Due to the billing cycle timing, all electrical data in the MOR will be one month behind. The following data is for electrical consumption during the *March 2022* operating period.

The department used a total of **155,644** *KWH* for the month of Mar. 2022. Of this total, the lift stations accounted for *11.7%*, using *16,322* KWH. The Main Plant accounted for the remaining *139,322* KWH. The KWH/ MG treated was *1,483* for the month, which is *14.2%* lower than the previous 12-month average of *1,349* KWH/MG. The KWH/Lb. BOD Removed was *1.29* KWH/Lb. for the month, which is *23%* lower than the previous 12-month average of *1.37* KWH/Lb.

| Month | Plant Average Daily Flow (NO HFMP) | Plant Total Influent Flow MG | Plant KWH (Total Billed) | KWH/MG Treated (Plant) KWH/MG | Plant Lbs BOD Removed Lbs | KWH/Lb BOD Removed (Plant) | Off Peak Demand (Plant) KW | Peak Demand (Plant) KW | Total Lift Station KWH KWH | Total KWH (Plant & Stations) |
|----------|--|---------------------------------------|-----------------------------|--|------------------------------------|----------------------------------|-------------------------------------|---------------------------------|----------------------------|------------------------------------|
| Apr '21 | 2.61 | 81.02 | 99,000 | 1,222 | 106,715 | 0.93 | 186 | 189 | 15,528 | 145,728 |
| May '21 | 2.43 | 72.83 | 111,600 | 1,532 | 114,694 | 0.97 | 219 | 228 | 12,161 | 111,161 |
| Jun '21 | 3.43 | 106.47 | 125,400 | 1,178 | 70,944 | 1.77 | 222 | 249 | 12,858 | 124,458 |
| July '21 | 2.91 | 90.06 | 132,600 | 1,472 | 92,787 | 1.43 | 249 | 255 | 13,555 | 138,955 |
| Aug '21 | 3.05 | 91.41 | 110,400 | 1,208 | 69,519 | 1.59 | 204 | 231 | 13,316 | 145,916 |
| Sep '21 | 3.18 | 98.51 | 107,100 | 1,087 | 90,595 | 1.18 | 231 | 234 | 11,923 | 122,323 |
| Oct '21 | 3.12 | 93.74 | 132,900 | 1,418 | 65,739 | 2.02 | 201 | 216 | 13,538 | 120,638 |
| Nov '21 | 2.52 | 78.08 | 120,600 | 1,545 | 109,345 | 1.1 | 225 | 213 | 17,164 | 150,064 |
| Dec '21 | 2.75 | 85.26 | 139,500 | 1,636 | 118,805 | 1.17 | 234 | 264 | 15,850 | 155,350 |
| Jan '22 | 4.06 | 113.62 | 142,500 | 1,254 | 116,417 | 1.22 | 222 | 261 | 22,069 | 164,569 |
| Feb ' 22 | 3.43 | 106.19 | 122,400 | 1,153 | 117,284 | 1.04 | 198 | 222 | 19,576 | 141,976 |
| Mar '22 | 2.77 | 82.96 | 123,000 | 1,483 | 115,947 | 1.06 | 198 | 204 | 16,322 | 139,322 |
| Average | 3.02 | 91.68 | 122,250 | 1,349 | 99,066 | 1.29 | 216 | 231 | 15,322 | 138,372 |

| | Monthly Lift Station KWH | | | | | | | | | | | | | |
|----------|--------------------------|------------------|--------|-----------|--------------------|--------|-----------|---------|--------|---------|--------|----------|------------|--------|
| Month | Hingham North | Hingham South | Spruce | Butternut | Old Country Way | Market | Woodsbury | Lincoln | Forest | Wheeler | Summer | Milbrook | John Burke | Total |
| Apr '21 | 2,812 | 5,000 | 191 | 459 | 1,088 | 910 | 1,297 | 272 | 1,725 | 63 | 65 | 1,490 | 156 | 15,528 |
| May '21 | 2,384 | 3,800 | 144 | 319 | 1,027 | 665 | 858 | 175 | 1,330 | 52 | 57 | 1,247 | 103 | 12,161 |
| Jun '21 | 2,809 | 4,300 | 177 | 335 | 887 | 362 | 901 | 253 | 1,719 | 65 | 62 | 883 | 105 | 12,858 |
| July '21 | 2,969 | 4,800 | 159 | 415 | 987 | 347 | 1,112 | 152 | 1,454 | 54 | 62 | 914 | 130 | 13,555 |
| Aug '21 | 2,740 | 4,700 | 170 | 486 | 1,044 | 344 | 892 | 159 | 1,630 | 58 | 62 | 908 | 123 | 13,316 |
| Sep '21 | 2,648 | 3,900 | 150 | 421 | 885 | 397 | 836 | 185 | 1,395 | 52 | 53 | 892 | 109 | 11,923 |
| Oct '21 | 2,754 | 4,000 | 179 | 529 | 908 | 697 | 1,142 | 225 | 1,667 | 49 | 57 | 1,215 | 116 | 13,538 |
| Nov '21 | 3,279 | 4,900 | 188 | 654 | 1,244 | 970 | 1,416 | 363 | 2,116 | 61 | 70 | 1,666 | 237 | 17,164 |
| Dec'21 | 3,246 | 4,600 | 187 | 554 | 1,270 | 854 | 1,264 | 309 | 1,742 | 56 | 58 | 1,501 | 209 | 15,850 |
| Jan '22 | 5,072 | 6,800 | 230 | 438 | 1,573 | 1,185 | 1,605 | 373 | 2,434 | 59 | 68 | 1,989 | 243 | 22,069 |
| Feb ' 22 | 3,783 | 6,200 | 194 | 515 | 1,647 | 946 | 1,683 | 319 | 2,259 | 55 | 61 | 1,717 | 197 | 19,576 |
| Mar '22 | 2,995 | 5,100 | 246 | 434 | 1,260 | 851 | 1,353 | 283 | 1,915 | 58 | 67 | 1,524 | 236 | 16,322 |
| Average | 3,124 | 4,842 | 185 | 463 | 1,152 | 711 | 1,197 | 256 | 1,782 | 57 | 62 | 1,329 | 164 | 15,322 |

8.0 MAINTENANCE

8.1 WORK ORDER OVERVIEW

| WO Type | Total This Month | Total This Year |
|---------------------------|------------------|-----------------|
| Preventative Maintenance | 167 | 680 |
| Corrective Maintenance | 8 | 24 |
| Emergency Call Outs Total | 3 | 17 |

8.2 SIGNIFICANT CORRECTIVE WORK ORDERS FOR THE MONTH

| CM Description | WO# |
|----------------|-----|
| 1. | |
| 2. | |
| 3. | |
| 4. | |

8.3 SIGNIGICANT OPEN WORK ORDERS

| CM Description | WO # |
|-----------------------------------|---------------|
| Facility Fire Alarm Repair | 20240 & 20241 |
| Influent Pump #1 (Spare) Rebuild | 20248 |
| Lime Unloader #3 Corrective | 13568 |
| Hingham South Pump #1 Replacement | 17427 |
| | |

8.4 EMERGENCY CALL OUTS FOR THE MONTH

| Туре | Total this Month | Total this Year |
|-----------------------------------|------------------|-----------------|
| Sewer Back Up / Collection System | 0 | 5 |
| Pump Station | 3 | 5 |
| Plant | 0 | 0 |
| Odor | 0 | 0 |
| Power Outages | 0 | 0 |
| Total: | 3 | 10 |

8.5 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

8.6 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 | 0 | 3 |
| Sewer Back Up | 0 | 5 |

8.7 WORK ORDER STATISTICS

There were **86.32** total reported maintenance hours during the month. Of this total, outside contractors accounted for **6%** with **5** hours recorded.

