

Monthly Operating Report

AUGUST 2022



Rockland, MA WWTP





September 15, 2022

Mr. Chuck Heshion

Rockland Sewer Commission Chairman

587 Rear Summer Street

Rockland, MA 02370

RE: Rockland Wastewater Facility

Monthly Report—August 2022

Dear Mr. Heshion,

I have enclosed August 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:

Daniel Duross

Sherri Vallie

AUGUST 2022 MONTHLY OPERATING REPORT

1. SUMMARY:

- 1) The facility will be reporting **0** exceedance for the month of August 2022
- 2) There was **0** lost time / first aid injuries throughout the month
- 3) The facility treated a total of **50.020** Million Gallons. The average daily flow was **1.614** MGD
- 4) The total rainfall for this reporting period was **5.06"**
- 5) I&I Work is ongoing
- 6) **166** work orders were closed in August, with **10** as corrective maintenance work order and **2** 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 08/31/2022 | | | | | | | | | | |
|--|-----------------------|-------------|--------------------------|------------|----|----|-------------------|----|----|------------------|
| Employee | Title | Hoisting | | Wastewater | | | NEWEA Collections | | | NEWEA Laboratory |
| | | 1C Forklift | 1B Boom Truck & Forklift | 3M | 5C | 7C | I | II | IV | I |
| Richard Kotouch | Project Manager | | | | | X | | | X | |
| Megan Kelly-Lynch | Asst. Project Manager | X | | | | X | | | | |
| Steven Butts | Lab Technician | | | | | X | | | | X |
| Charles Amaral | Maintenance Foreman | | | | X | | | X | | |
| Garry Murrill | Operator | | | | X | | | X | | |
| Maxwell Jackson | Operator | | | X | | | | | | |
| Cristian Ryan | Operator | | | | | | | | | |
| Shaun Chaponis (Part Time Weekends) | Operator | | | | X | | X | | | |

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.

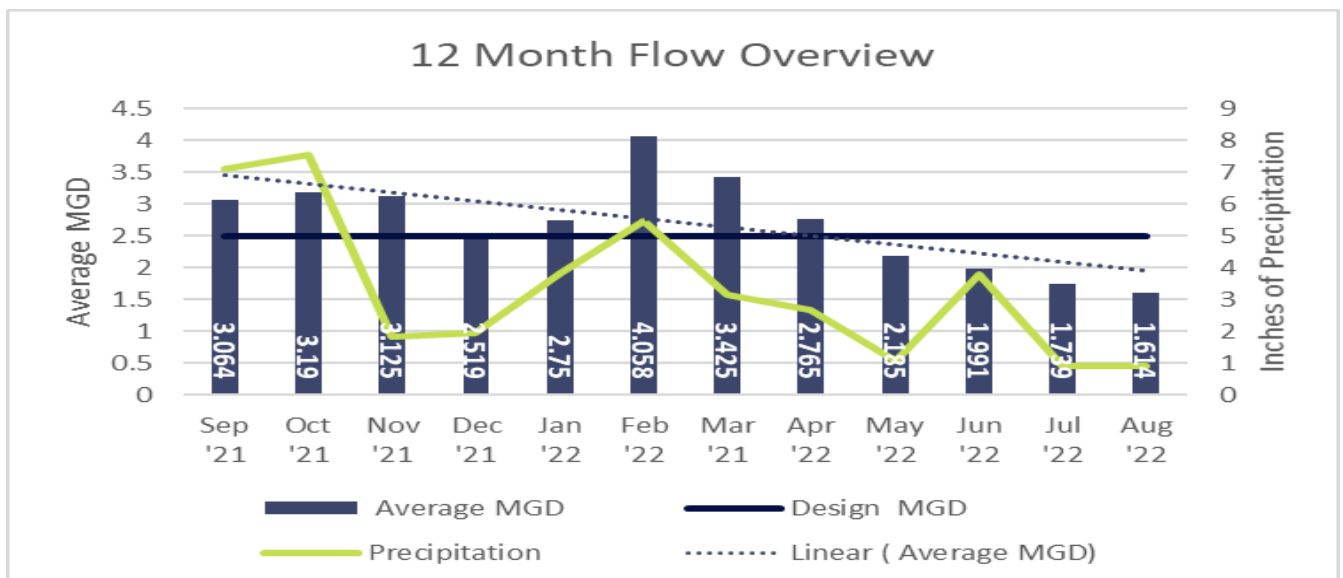
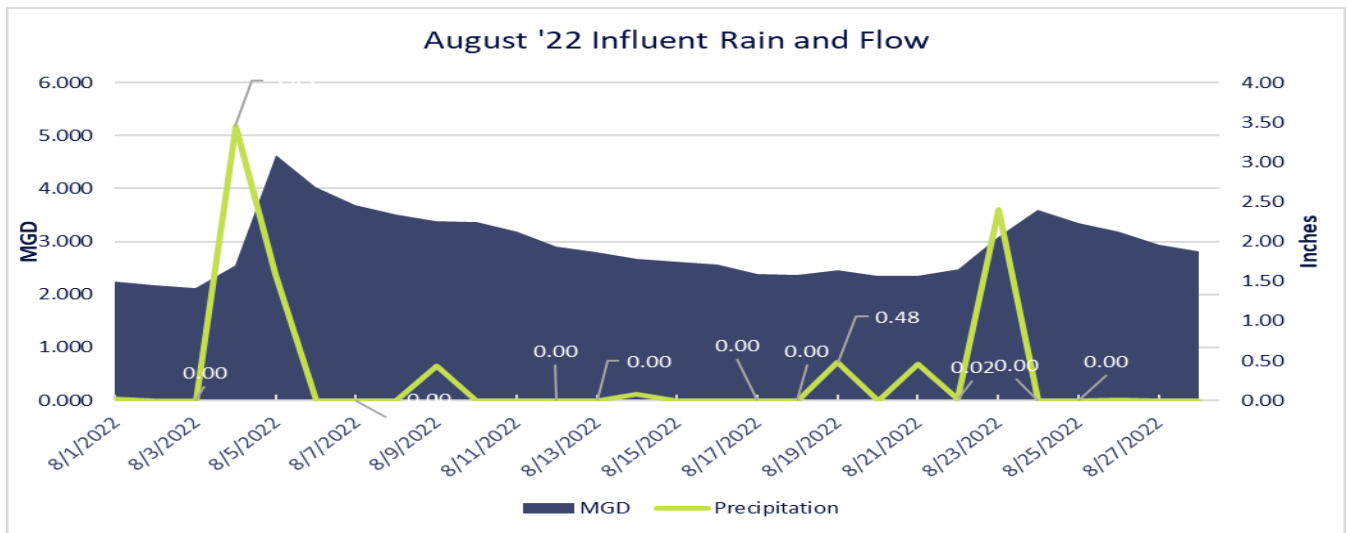
Throughout the COVID-19 (Coronavirus) pandemic in an attempt to continue to serve the Town of Rockland with reliable operations and protect the staff of the Rockland team, Veolia has implemented numerous procedures to ensure continuity of the operations. As the COVID-19 Delta variant and Omicron rates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

All essential personnel, contractor's and visitor's are screened before entering the premises if they have Covid like symptoms or have been exposed to someone having Covid. 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 **50.020** MGD during the month. The daily average flow was **1.614** MGD. This was **1.291** MGD less than the previous August monthly average, which was recorded at **2.905** MGD. The highest daily flow was recorded on August 28 as **1.750** MGD. The lowest daily flow was recorded on August 19 as **1.460** MGD.
- The highest **peak** flow was recorded on August 2 as **2.630** MGD. The lowest instantaneous flow was **0.090** MGD, recorded August 25.
- A total of **5.06"** of precipitation was received at the facility. The highest single day precipitation total was recorded on August 22 as **2.08"**
- The coldest day was August 14 **58°F**. The warmest day was August 4 at **98°F**.



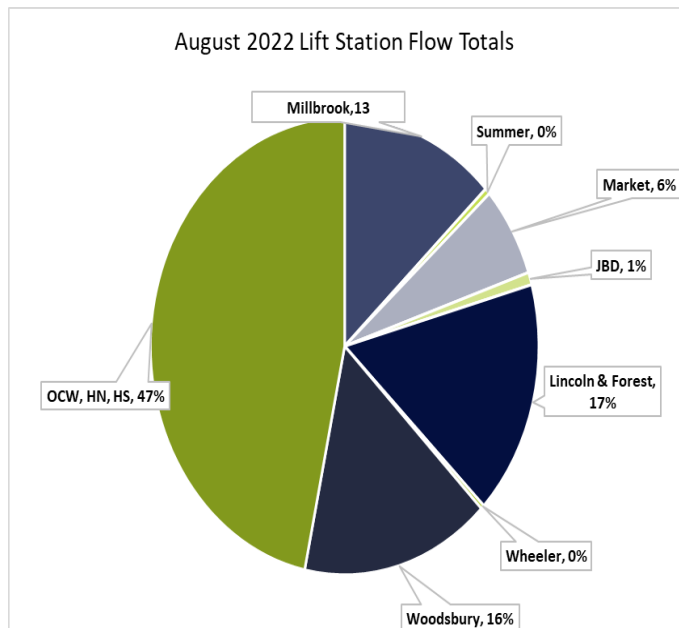
4.1 INFLUENT BOD AND TSS LOADING

| 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 |
| Sep '21 | 3.064 | 2,376 | 4,904 | 2.809 | 3,064 | 3,859 |
| Oct '21 | 3.19 | 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 | 2.931 | 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 |
| May '22 | 2.185 | 3,809 | 4,229 | 2.988 | 3,326 | 3,909 |
| Jun'22 | 1.991 | 4,343 | 4,006 | 2.952 | 3,365 | 3,975 |
| Jul'22 | 1.739 | 3,316 | 3,546 | 2.810 | 3,446 | 3,990 |
| Aug'22 | 1.614 | 3,313 | 3,758 | 2.702 | 3,469 | 3,969 |

4.2 LIFT STATION FLOWS

The lift stations accounted for **425,322** gallons throughout the month, **85%** 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 Flows for August 2022 | | |
|-----------------------------|----------------|--|
| Station | Total Gallons | |
| Millbrook | 31459 | |
| Summer | 1,076 | |
| Market | 15,581 | |
| Butternut | 695 | |
| John Burke | 2,145 | |
| Lincoln, Forest | 42,881 | |
| Wheeler | 703 | |
| Woodsbury | 38,265 | |
| OCW, HN, HS | 292,517 | |
| Total: | 425,322 | |

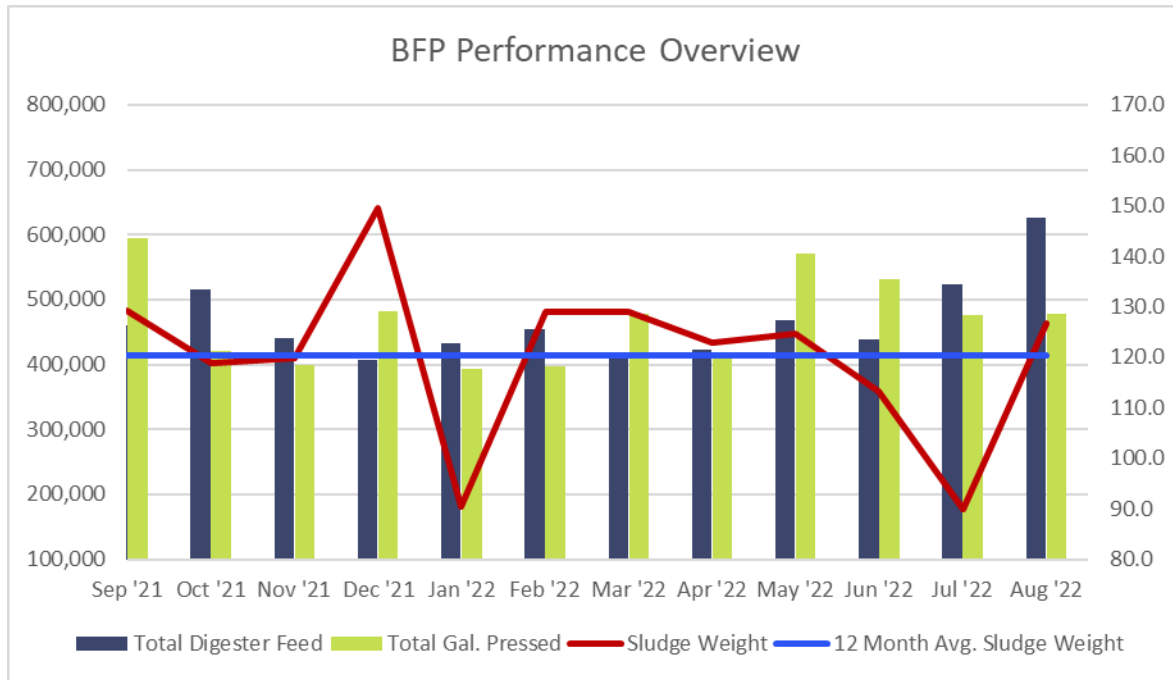


Lift Station Monthly Average Daily Flows (GPD)

| Month | Millbrook | Summer | Market | Butternut | John Burke | Lincoln | Forrest | Wheeler | Woodsbury | Old Country Way | Hingham North | Hingham South |
|----------------|---------------|------------|---------------|------------|--------------|--------------|---------------|------------|---------------|-----------------|----------------|----------------|
| | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD | GPD |
| Sept '21 | 30,348 | 968 | 17,000 | Old System | 2,560 | 2,840 | 52,990 | 768 | 44,700 | 63,070 | 170,460 | 191,160 |
| Oct '21 | 27,975 | 1,223 | 14,318 | | 1,644 | 2,110 | 36,581 | 586 | 32,865 | 51,755 | 73,335 | 273,484 |
| 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 | 31,738 | 937 | 15,677 | | 2,655 | 2,400 | 39,155 | 726 | 45,348 | 53,110 | 144,540 | 155,380 |
| 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 |
| May '22 | 31,738 | 937 | 15,677 | | 2,655 | 2,400 | 39,155 | 726 | 45,348 | 53,110 | 142,142 | 155,380 |
| Jun '22 | 33,073 | 994 | 15,640 | | 1,872 | 2,520 | 41,300 | 828 | 45,060 | 53,900 | 144,540 | 159,480 |
| Jul '22 | 27,975 | 1,223 | 14,318 | | 1,644 | 2,110 | 36,581 | 586 | 32,865 | 51,755 | 73,335 | 273,484 |
| Aug '22 | 31,459 | 1,076 | 15,581 | 695 | 2,145 | 2,439 | 40,442 | 703 | 38,265 | 44,100 | 134,843 | 113,574 |
| Average | 31,391 | 998 | 15,668 | | 2,192 | 2,590 | 41,652 | 736 | 43,585 | 55,258 | 137,912 | 183,788 |

5.0 SOLIDS HANDLING 6.1 REGULATORY REPORTING

The BFP was operated a total of **152.62** hours this month and a total of **477,850** gallons were processed producing **127** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **2.15%** and the BFP Cake average percent solids were **23.45%**. 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 |
| 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 | |
| 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 | 90.5 | 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 | 533.0 | 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 | |
| May '22 | 174.3 | 468,083 | 571,658 | 154.1 | 124.7 | 1.89 | 21.14 | 8.00 | |
| 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 | |
| Annual Total | 2,100 | 5,602,015 | 5,627,409 | 1,449 | 1,443 | **** | **** | 76 | 0.00 |
| Avg. | 175 | 466,835 | 468,951 | 121 | 120 | 2.08 | 20.53 | 6.3 | **** |

6.0 ENVIRONMENTAL COMPLIANCE

6.1 REGULATORY REPORTING

1. The EPA and MADEP August 22 NETDMR was submitted on the CDX website on 09/12/2022

6.2 NPDES COMPLIANCE

The facility will be reporting (0) exceedance(s) for the month of August 2022

| 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 | | | | |
| Mon Aug 01 | 1.600 | | | | | | | 7.49 | 21 | | | 7.8 | Oct. 1 - April 30 | 20 Mg/L 417 lbs/day | 20 Mg/L 417 lbs/Day | 30 Mg/l 626 lbs/Day |
| Tues Aug 02 | 1.610 | 2.0 | 27 | 2.0 | 27 | 0.19 | 0.07 | 7.60 | 52 | 7 | 2.5 | 7.9 | | | | |
| Wed Aug 03 | 1.670 | | | | | | | 7.53 | | | | 8.5 | | | | |
| Thu Aug 04 | 1.500 | 2.0 | 25 | 2.5 | 31 | 0.21 | 0.13 | 7.43 | | | | 8.0 | May 1 - Sept. 30 | 6 Mg/L 125 lbs/Dav | 6 Mg/L 125 lbs/Day | 10Mg/L 209 lbs/day |
| Fri Aug 05 | 1.610 | | | | | | | 7.30 | | | | 8.2 | | | | |
| Sat Aug 06 | 1.620 | | | | | | | 7.47 | | | | 8.1 | Oct. 1 - April 30 | 20 Mg/L 417 lbs/Dav | 20 Mg/L 417 lbs/Dav | 30 Mg/l 626 lbs/Day |
| Sun Aug 07 | 1.680 | | | | | | | 7.46 | | | | 7.7 | | | | |
| Mon Aug 08 | 1.610 | | | | | | | 7.41 | 94 | | | 7.7 | | | | |
| Tues Aug 09 | 1.570 | 2.0 | 26 | 2.0 | 26 | 0.49 | 0.10 | 7.49 | 382 | | | 7.6 | May 1 - Sept. 30 | 10 Mg/L 209 lbs/Dav | 10 Mg/L 209 lbs/Day | 15Mg/L 313 lbs/day |
| Wed Aug 10 | 1.580 | | | | | | | 7.49 | 29 | | | 7.9 | | | | |
| Thu Aug 11 | 1.560 | 2.0 | 26 | 2.0 | 26 | 0.11 | 0.08 | 7.54 | | | | 8.2 | Oct.1 - Mar. 31 | 3.3 Mg/L | 3.3 Mg/l | 5.7 Mg/L |
| Fri Aug 12 | 1.530 | | | | | | | 7.42 | | | | 8.2 | | | | |
| Sat Aug 13 | 1.520 | | | | | | | 7.48 | | | | 7.8 | | | | |
| Sun Aug 14 | 1.550 | | | | | | | 7.41 | 38 | | | 8.0 | Apr. 1 - May 31 | 2.5 Mg/L | 2.5 Mg/l | 5.7 Mg/l |
| Mon Aug 15 | 1.550 | | | | | | | 7.47 | 69 | | | 8.5 | | | | |
| Tues Aug 16 | 1.580 | 2.0 | 26 | 2.0 | 26 | 0.34 | 0.12 | 7.42 | 33 | | | 8.6 | June 1 - Sept. 30 | 1.0 Mg/L | 1.0 Mg/L | 1.5 Mg/L |
| Wed Aug 17 | 1.580 | | | | | | | 7.46 | | | | 8.2 | | | | |
| Thu Aug 18 | 1.520 | 2.0 | 25 | 5.3 | 67 | 0.58 | 0.10 | 7.38 | | | | 8.6 | Total Phosphorus | | | |
| Fri Aug 19 | 1.460 | | | | | | | 7.33 | | | | 8.6 | Apr. 1 - Oct.31 | 0.2 Mg/L | ***** | ***** |
| Sat Aug 20 | 1.500 | | | | | | | 7.32 | | | | 8.2 | | | | |
| Sun Aug 21 | 1.550 | | | | | | | 7.28 | 11 | | | 7.4 | Nov. 1 - Mar. 31 | 1.0 Mg/L | ***** | ***** |
| Mon Aug 22 | 1.710 | | | | | | | 7.28 | 380 | | | 7.8 | | | | |
| Tues Aug 23 | 1.750 | 2.5 | 36 | 2.8 | 41 | 0.79 | 0.14 | 7.19 | 47 | | | 8.0 | Ph 6.5 - 8.3 | | | |
| Wed Aug 24 | 1.720 | | | | | | | 6.98 | | | | 7.9 | Fecal | | | |
| Thu Aug 25 | 1.660 | 2.0 | 28 | 2.0 | 28 | 0.10 | 0.10 | 7.05 | | | | 8.2 | ***** | 200 CFU/100ml | ***** | 400 CFU/100ml |
| Fri Aug 26 | 1.680 | | | | | | | 6.98 | | | | 7.8 | | | | |
| Sat Aug 27 | 1.660 | | | | | | | 7.13 | | | | 7.9 | Aluminum | | | |
| Sun Aug 28 | 1.750 | | | | | | | 6.93 | 12 | | | 8.0 | ***** | 88 ug/l | ***** | ***** |
| Mon Aug 29 | 1.700 | | | | | | | 7.55 | 28 | | | 8.2 | | | | |
| Tues Aug 30 | 1.720 | 2.0 | 29 | 2.0 | 29 | 0.32 | 0.18 | 7.86 | 31 | | | 7.9 | Copper | | | |
| Wed Aug 31 | 1.720 | | | | | | | 7.75 | | | | 8.0 | ***** | 12 ug/l | ***** | ***** |
| Daily Max | 2.180 | 3.90 | 66.03 | 4.00 | 67.72 | 1.10 | 0.12 | 7.77 | 200 | ***** | ***** | ***** | | | | |
| Daily Min. | 1.820 | ***** | ***** | ***** | ***** | ***** | ***** | 7.20 | ***** | ***** | ***** | 7.50 | May 1 - Sept. 30 | > 7.4 mg/L | | |
| Month Avg. | 1.991 | 2.46 | 40.89 | 2.69 | 44.67 | 0.38 | 0.08 | 7.45 | 50.583 | 6 | 6.0 | ***** | | Plant Flow 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 **July 2022** operating period.

The department used a total of **116,126 KWH** for the month of July 2022. Of this total, the lift stations accounted for **10.2%**, using **9,326 KWH**. The Main Plant accounted for the remaining **106,800 KWH**.

The KWH/ MG treated was **1,923** for the month, which is **27.25%** higher than the previous 12-month average of **1,399 KWH/MG**. The KWH/Lb. BOD Removed was **101,883 KWH/Lb.** for the month, which is **32.24%** lower than the previous 12-month average of **1.05 KWH/Lb.**

| 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 |
| Aug '21 | 2.91 | 90.06 | 132,600 | 1,472 | 92,787 | 1.43 | 249 | 255 | 13,555 | 145,916 |
| Sep '21 | 3.05 | 91.41 | 110,400 | 1,208 | 69,519 | 1.59 | 204 | 231 | 13,316 | 122,323 |
| Oct '21 | 3.18 | 98.51 | 107,100 | 1,087 | 90,595 | 1.18 | 231 | 234 | 11,923 | 120,638 |
| Nov '21 | 3.12 | 93.74 | 132,900 | 1,418 | 65,739 | 2.02 | 201 | 216 | 13,538 | 150,064 |
| Dec '21 | 2.52 | 78.08 | 120,600 | 1,545 | 109,345 | 1.10 | 201 | 213 | 17,164 | 136,450 |
| Jan '22 | 2.75 | 85.26 | 139,500 | 1,636 | 118,805 | 1.17 | 225 | 264 | 15,850 | 161,569 |
| Feb '22 | 4.06 | 113.62 | 142,500 | 1,254 | 116,417 | 1.22 | 234 | 261 | 22,069 | 164,569 |
| Mar '22 | 3.43 | 106.19 | 122,400 | 1,153 | 117,284 | 1.04 | 222 | 222 | 19,576 | 141,976 |
| Apr '22 | 2.77 | 82.96 | 123,000 | 1,483 | 115,947 | 1.06 | 198 | 204 | 16,322 | 139,322 |
| May '22 | 2.19 | 67.74 | 123,000 | 1,816 | 116,352 | 1.06 | 183 | 198 | 15,055 | 138,055 |
| 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 |
| Average | 2.81 | 85.10 | 122,975 | 1,498 | 103,644 | 1.23 | 211 | 226 | 14,985 | 138,669 |

| Month | Hingham North | Hingham South | Spruce | Butternut | Old Country Way | Market | Woodsbury | Lincoln | Forest | Wheeler | Summer | Milbrook | John Burke | Total |
|----------|---------------|---------------|--------|-----------|-----------------|--------|-----------|---------|--------|---------|--------|----------|------------|--------|
| Aug '21 | 2,969 | 4,800 | 159 | 415 | 987 | 347 | 1,112 | 152 | 1,454 | 54 | 62 | 914 | 130 | 13,555 |
| Sep '21 | 2,740 | 4,700 | 170 | 486 | 1,044 | 344 | 892 | 159 | 1,630 | 58 | 62 | 908 | 123 | 13,316 |
| Oct '21 | 2,648 | 3,900 | 150 | 421 | 885 | 397 | 836 | 185 | 1,395 | 52 | 53 | 892 | 109 | 11,923 |
| Nov '21 | 2,754 | 4,000 | 179 | 529 | 908 | 697 | 1,142 | 225 | 1,667 | 49 | 57 | 1,215 | 116 | 13,538 |
| Dec '21 | 3,279 | 4,900 | 188 | 654 | 1,244 | 970 | 1,416 | 363 | 2,116 | 61 | 70 | 1,666 | 237 | 17,164 |
| Jan '22 | 3,246 | 4,600 | 187 | 554 | 1,270 | 854 | 1,264 | 309 | 1,742 | 56 | 58 | 1,501 | 209 | 15,850 |
| Feb '22 | 5,072 | 6,800 | 230 | 438 | 1,573 | 1,185 | 1,605 | 373 | 2,434 | 59 | 68 | 1,989 | 243 | 22,069 |
| Mar '22 | 3,783 | 6,200 | 194 | 515 | 1,647 | 946 | 1,683 | 319 | 2,259 | 55 | 61 | 1,717 | 197 | 19,576 |
| Apr '22 | 2,995 | 5,100 | 246 | 434 | 1,260 | 851 | 1,353 | 283 | 1,915 | 58 | 67 | 1,524 | 236 | 16,322 |
| May '22 | 3,149 | 5,000 | 215 | 161 | 257 | 964 | 1,332 | 280 | 1,809 | 72 | 69 | 1,562 | 185 | 15,055 |
| 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 | 695 | 134 | 1,202 | 49 | 69 | 832 | 89 | 9,326 |
| Average | 3,108 | 4,767 | 178 | 393 | 1,056 | 687 | 1,185 | 246 | 1,750 | 57 | 64 | 1,330 | 166 | 14,985 |

8.0 MAINTENANCE

8.1 WORK ORDER OVERVIEW

| WO Type | Total This Month | Total This Year |
|----------------------------------|------------------|-----------------|
| Preventative Maintenance | 176 | 1395 |
| Corrective Maintenance | 10 | 90 |
| Emergency Call Outs Total | 2 | 30 |

8.2 SIGNIFICANT CORRECTIVE WORK ORDERS FOR THE MONTH

| CM Description | WO # |
|---|-------|
| Blanchard Electric Rebuilt Influent #1 Dry Submersible Pump | 20248 |
| Verizon worked on Line #2 | 22360 |
| Pioneer Electric Replaced Real Time Clock Battery on Benshaw Unit at Hingham North | 22359 |
| | |

8.3 SIGNIFICANT OPEN WORK ORDERS

| CM Description | WO # |
|--|-------|
| | |
| Lime Unloader #3 Corrective | 13568 |
| Hingham South Pump #1 Replacement | 17427 |
| | |

8.4 EMERGENCY CALL OUTS FOR THE MONTH

| Type | Total this Month | Total this Year |
|--|------------------|-----------------|
| Sewer Back Up / Collection System | 1 | 6 |
| Pump Station | 0 | 9 |
| Plant | 0 | 3 |
| Odor | 0 | 0 |
| Power Outages | 1 | 7 |
| Total: | 2 | 25 |

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
5. Sprinkler System inspected by Mass Fire Prevention
6. Applied Dynamics did the annual inspection on all the Hoist and Cranes

8.6 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

COLLECTION SYSTEM ASSISTANCE:

| Type | Total This Month | Total This Year |
|----------------------------|------------------|-----------------|
| Sewer Inspection / Tie-Ins | 0 | 0 |
| Sewer Location mark Outs | 66 | 119 |
| Sewer Back Up | 1 | 6 |

8.7 WORK ORDER STATISTICS

There were **94.82** total reported maintenance hours during the month. Of this total, outside contractors accounted for **27%** with **26** hours recorded.

