

# March 2024

## OPERATIONS' DEPARTMENT MONTHLY REPORT

| PUMPAGE                                   | HIGH LIFT      |                     | LOW LIFT       |                    | 2024 VS 2023    |
|---|----------------|---------------------|----------------|--------------------|-----------------|
|   | 2023           | 2024                | 2023           | 2024               |                 |
| Total in MG                               | 357,984        | 337,269             | 372,929        | 344,263            | HL<br>-5.79%    |
| Daily Average (MG)                        | 11,548         | 10,896              | 12,030         | 11,105             |                 |
| Max. Day (MG)                             | 12,760         | 12,040              | 13,100         | 12,817             | 2024 VS 2022    |
|   |                |                     |                |                    | HL              |
| Gal/KwH                                   | 1,188          | 1,240               | 4,886          | 9,671              | -7.29%          |
| <b>ELECTRICAL COSTS</b>                   |                |                     |                |                    |                 |
|   | 2023           |                     | 2024           |                    |                 |
| A. Pumping:                               | KwH            | \$                  | KwH            | \$                 |                 |
| High Lift                                 | 299,307        | \$24,936.75         | 271,010        | \$23,643.65        |                 |
| Low Lift                                  | 75,838         | \$6,318.44          | 35,597         | \$3,105.58         |                 |
| Wash Pump 1                               | 10,500         | \$874.84            | 2,800          | \$244.28           |                 |
| Georgia St. Bstr.                         | 59,700         | \$5,977.28          | 46,200         | \$5,126.66         |                 |
| Wilgus Ave. Bstr.                         | 3,000          | \$428.91            | 2,900          | \$422.51           |                 |
| EE Pit / Bstr.                            | 6,450          | \$874.79            | 5,286          | \$735.73           |                 |
| Erie Ave. Bstr.                           | 16,000         | \$2,397.48          | 16,400         | \$2,721.72         |                 |
| Sub Total                                 | 470,795        | \$41,808.49         | 380,193        | \$36,000.13        | \$/KwH<br>6.6%  |
| B. Treat./Fiscal/Misc.                    | KwH            | \$                  | KwH            | \$                 |                 |
| Office & Maint. Bldg.                     | 4,858          | \$675.38            | 3,913          | \$468.51           |                 |
| Filter Plant / Pump Station / 2nd Service | 63,155         | \$5,924.06          | 119,793        | \$11,307.67        |                 |
| Sub Total                                 | 68,013         | \$6,599.44          | 123,706        | \$11,776.18        | \$/KwH<br>-1.9% |
| C. Distribution:                          | KwH            | \$                  | KwH            | \$                 |                 |
| Taylor Hill Tank                          | 2,622          | \$370.45            | 2,315          | \$335.63           |                 |
| Horizon Tower                             |                |                     | 1,583          | \$248.89           |                 |
| EE Tower                                  | 1,449          | \$214.49            | 1,188          | \$181.48           |                 |
| Washington (PRV) Pit                      | 1,096          | \$175.48            | 617            | \$107.75           |                 |
| Sub Total                                 | 5,167          | \$760.42            | 5,703          | \$873.75           | \$/KwH          |
| <b>Total Electrical Costs</b>             | <b>543,975</b> | <b>\$49,168.35</b>  | <b>509,602</b> | <b>\$48,650.06</b> | 5.6%            |
| Electrical Cost / MG                      |                | \$137.35            |                | \$144.03           |                 |
|   | 2023           |                     | 2024           |                    |                 |
| <b>NATURAL GAS COSTS</b>                  | CCF Used       | Cost                | CCF Used       | Cost               |                 |
| Production Facility                       | 1,903          | \$1,646.12          | 2,137          | \$1,216.90         |                 |
| South Basin                               | 2,705          | \$2,473.37          | 2,526          | \$1,473.47         |                 |
| Raw Pump Station                          |                |                     | 476            | \$294.26           |                 |
| Georgia St. Bstr.                         | 143            | \$150.66            |                |                    |                 |
| Erie Ave. Bstr.                           | 315            | \$292.53            | 242            | \$164.99           |                 |
| Wilgus Ave. Bstr.                         | 49             | \$61.75             |                |                    |                 |
| Office & Maint. Bldg.                     | 1,130          | \$1,042.99          | 994            | \$582.52           | \$/CCF          |
| <b>Total Natural Gas Costs</b>            | <b>6,245</b>   | <b>\$5,667.42</b>   | <b>6,375</b>   | <b>\$3,732.14</b>  | -35.5%          |
| Natural Gas Cost / MG                     |                | \$15.83             |                | \$11.05            |                 |
|   | 2023           |                     | 2024           |                    |                 |
| <b>CHEMICAL COSTS</b>                     | Lbs. Used      | Cost                | Lbs. Used      | Cost               |                 |
| Alum                                      | 81,009         | \$16,323.31         | 39,247         | \$8,300.74         | 5.0%            |
| Carbon                                    | 0              | \$0.00              | 0              | \$0.00             | #DIV/0!         |
| Chlorine                                  | 6,776          | \$13,755.28         | 5,519          | \$10,375.72        | -7.4%           |
| Fluoride                                  | 1,643          | \$3,321.32          | 1,639          | \$4,161.63         | 25.6%           |
| KMnO4                                     | 0              | \$0.00              | 0              | \$0.00             | #DIV/0!         |
| Cationic Polymer                          | 1,374          | \$2,129.70          | 0              | \$0.00             | #DIV/0!         |
| Liquid Phosphate                          | 4,001          | \$12,239.06         | 3,956          | \$11,642.51        | -3.8%           |
| <b>Total Chemical Costs</b>               |                | <b>\$47,768.67</b>  |                | <b>\$34,480.60</b> | -27.8%          |
| Chemical Cost / MG                        |                | \$133.44            |                | \$102.08           |                 |
| <b>Grand Total</b>                        |                | <b>\$102,604.44</b> |                | <b>\$86,862.80</b> | -15.34%         |
| <b>Total Cost / MG</b>                    |                | <b>\$286.62</b>     |                | <b>\$257.16</b>    | -10.28%         |

|                     |        |                         |        |                  |
|---------------------|--------|-------------------------|--------|------------------|
| YTD HL 2024 vs 2023 | -3.24% | YTD HL HIGH DAY PUMPAGE | 12.648 | January 15, 2024 |
| YTD HL 2024 vs 2022 | -7.82% | YTD HL LOW DAY PUMPAGE  | 8.349  | January 1, 2024  |

**NOTE:** New intake performance testing began Feb. 28, 2024. Water through the new intake was isolated and treated through ~1/3 of the treatment plant throughout March. Initial raw water quality review represents reduced raw water turbidity ~71%. Additionally, it appears chemical usage has also been reduced: Alum 51% and Hypo 18%

|      | YTD HL Ave Day |
|------|----------------|
| 2024 | 10.957         |
| 2023 | 11.448         |
| 2022 | 12.036         |

**COMPARATIVE SUMMARY OF PLANT OPERATIONS**

**March 2023**

**vs**

**March 2024**

**Pumping Record**

**High Lift**

**Low Lift**

|                  | 2023      | 2024      | Diff.   |                  | 2023    | 2024    | Diff.    |
|------------------|-----------|-----------|---------|------------------|---------|---------|----------|
| Tot. Water in MG | 357.984   | 337.269   | -5.79%  | Tot. Water in MG | 372.929 | 344.263 | -7.69%   |
| Daily Average    | 11.548    | 10.896    | -5.65%  | Daily Average    | 12.030  | 11.105  | -7.69%   |
| Maximum Day      | 12.760    | 12.040    | -5.64%  | Maximum Day      | 13.100  | 12.817  | -2.16%   |
| Minimum Day      | 9.645     | 8.156     | -15.44% | Minimum Day      | 9.869   | 8.581   | -13.05%  |
| By Natural Gas   | 2.365     | 1.808     | -23.55% | By Natural Gas   | 2.365   | 0.000   | -100.00% |
| Power in KWH     | 299,307   | 271,010   | -9.45%  | Power in KWH     | 75,838  | 35,597  | -53.06%  |
| Gals. per KWH    | 1,188     | 1,240     | 4.35%   | Gals. per KWH    | 4,886   | 9,671   | 97.94%   |
| Power \$ / KWH   | \$0.08331 | \$0.08724 | 4.72%   | Power \$ / KWH   | ----    | ----    | ----     |
| Power \$ / MG    | \$69.66   | \$70.00   | \$0.34  | Power \$ / MG    | \$16.94 | \$9.02  | (\$7.92) |
| Tot. Power \$/MG | \$138.49  | \$153.23  | \$14.74 | Tot. Power \$/MG | ----    | ----    | ----     |

**Treatment Chem.**

**Lbs. Used**

**Cost**

| Total Lbs.        | 2023   | 2024   | Diff.    | Total Cost       | 2023        | 2024        | Diff.        |
|-------------------|--------|--------|----------|------------------|-------------|-------------|--------------|
| Alum              | 81,009 | 39,247 | -51.55%  | Alum             | \$16,323.31 | \$8,300.74  | (\$8,022.57) |
| Carbon            |        |        | #DIV/0!  | Carbon           | \$0.00      | \$0.00      | \$0.00       |
| Chlorine          | 6,776  | 5,519  | -18.55%  | Chlorine         | \$13,755.28 | \$10,375.72 | (\$3,379.56) |
| KMnO4             | 0      | 0      | #DIV/0!  | KMnO4            | \$0.00      | \$0.00      | \$0.00       |
| Polymer           | 1,374  | 0      | -100.00% | Polymer          | \$2,196.97  | \$0.00      | (\$2,196.97) |
| Liquid Phosphate  | 4,001  | 3,956  | -1.12%   | Liquid Phosphate | \$12,239.06 | \$11,642.51 | (\$596.55)   |
| Lb/ MG:           |        |        |          | Cost / MG:       |             |             |              |
| Alum              | 217.2  | 114.0  | -47.52%  | Alum             | \$43.77     | \$24.11     | (\$19.66)    |
| Carbon            | 0.0    | 0.0    | #DIV/0!  | Carbon           | #DIV/0!     | #DIV/0!     | #DIV/0!      |
| Chlorine          | 18.2   | 16.0   | -11.77%  | Chlorine         | \$36.88     | \$30.14     | (\$6.75)     |
| KMnO4             | 0.0    | 0.0    | #DIV/0!  | KMnO4            | #DIV/0!     | #DIV/0!     | #DIV/0!      |
| Liquid Phosphate  | 10.7   | 11.5   | 7.11%    | Liquid Phosphate | \$32.82     | \$33.82     | \$1.00       |
| Fluoride:         |        |        |          | Fluoride:        |             |             |              |
| Total Lbs.        | 1,643  | 1,639  | -0.24%   | Cost             | \$3,321.32  | \$4,161.63  | \$840.31     |
| mg/l applied as F | 0.74   | 0.68   |          | Cost/MG          | \$9.29      | \$12.34     | \$3.05       |
| Av. Res. Plt. Tap | 0.71   | 0.70   |          |                  |             |             |              |

**Water Quality:**

**Raw**

**TAP**

|                  | 2023  | 2024  |
|------------------|-------|-------|
| Turbidity        | 10.10 | 2.90  |
| pH               | 8.23  | 8.33  |
| Alkalinity       | 118.2 | 112.4 |
| MF (E-Coli)      | 3.9   | 0.4   |
| Temperature      | 35.8  | 38.4  |
| Wash-H2O % /LL   | 2.38  | 2.30  |
| Av. Flt. Run/hrs | 93.7  | 96.2  |
| Av. ROF / MG     | 1.41  | 1.34  |

|             | 2023  | 2024  |
|-------------|-------|-------|
| Turbidity   | 0.040 | 0.039 |
| pH          | 7.52  | 7.75  |
| Alkalinity  | 104.9 | 104.1 |
| Plate Count | 0.00  | 0.00  |
| Colilert    | 0     | 0     |
| Temp.       | 37.6  | 41.3  |
| Cl Res.     | 0.88  | 0.85  |

**Natural Gas:**

|                  | 2023  | 2024  |                     | 2023       | 2024       | Diff.        |
|------------------|-------|-------|---------------------|------------|------------|--------------|
| Nat. Gas Heating | 4,048 | 3,985 | Plant & South Basin | \$3,635.34 | \$2,304.23 | (\$1,331.11) |
| Nat. Gas Pumping | 560   | 678   |                     | \$484.15   | \$386.14   | (\$98.01)    |

|                       | CCF          | Cost            | Natural Gas Cost | Natural Gas CCF |
|-----------------------|--------------|-----------------|------------------|-----------------|
| #3 Gas Pump           | 127.1        | \$72.38         | \$2,690.37       | 4,663           |
| #4 Gas Pump           | 396.0        | \$225.50        |                  |                 |
| #7 Gas Pump           | 5.0          | \$2.85          |                  |                 |
| Electric Generator    | 150.0        | \$85.42         |                  |                 |
| <b>Pumping totals</b> | <b>678.1</b> | <b>\$386.14</b> |                  |                 |

# March 2024

|                      |                  | 4/1/2024 | 3/1/2024 |       |
|----------------------|------------------|----------|----------|-------|
| <b>Elapsed Time:</b> |                  |          |          |       |
| % Run                | No. 6 Pump       | 76,415.1 | 76,415.1 | 0.0   |
| 3.47%                | Wash Pump Meter  | 5,999.94 | 5,974.16 | 25.78 |
| 0.0%                 | No. 7 Pump       | 883.0    | 882.8    | 0.2   |
| 0.0%                 | No. 8 Pump       | 59,554.4 | 59,554.4 | 0.0   |
| 82.9%                | No. 9 Pump       | 35,466.0 | 34,849.0 | 617.0 |
| 0.0%                 | No. 11 Pump      |          |          |       |
| 0.0%                 | No. 12 Pump      |          |          |       |
| 0.0%                 | No. 13 Pump      |          |          |       |
| 0.0%                 | No. 14 Pump      |          |          |       |
| 1.9%                 | Wash Pump 2      | 213      | 199      | 14    |
|                      | No. 1 Prime Pump | 1,062.8  | 1,060.8  | 2.0   |
|                      | No. 2 Prime Pump | 1,147.9  | 1,144.5  | 3.4   |

|  |  | 4/1/2024  | 3/1/2024 |         |
|--|--|-----------|----------|---------|
| SLUDGE No. 1 Hour Meter                  |  | 0.0       | 0.0      | 0       |
| SYSTEM No. 2 Mag Meter                   |  | 1,113,620 | 916,610  | 197,010 |
| No. 3 Raw Station                        |  |           |          | 197,010 |
| Recycle Meter (Reset to zero each month) |  |           |          |         |

|                        |             | 4/1/2024   | 3/1/2024   |         |
|------------------------|-------------|------------|------------|---------|
| <b>Wathour Meters:</b> |             |            |            |         |
| Kw/Hr run              | Wash Pump 1 | 1343.1     | 1339.1     | 2,800   |
| 108.6                  | No. 14 Pump |            |            |         |
| #DIV/0!                | No. 13 Pump |            |            |         |
| #DIV/0!                | No. 12 Pump |            |            |         |
| #DIV/0!                | No. 11 Pump |            |            |         |
| 57.7                   | No. 9 Pump  | 6479.47    | 6443.87    | 35,597  |
| #DIV/0!                | No. 8 Pump  | 6843.3     | 6843.3     | 0       |
| #DIV/0!                | No. 6 Pump  | 2916.2     | 2916.2     | 0       |
| 83.7                   | Wash Pump 2 | 22,554     | 21,577     | 1,172   |
| #DIV/0!                | No. 1 Pump  | 10076.96   | 10076.96   | 0       |
| #DIV/0!                | No. 2 Pump  | 5002.007   | 5002.007   | 0       |
| 297.4                  | No. 3 Pump  | 1614.31    | 1491.62    | 122,690 |
| #DIV/0!                | No. 4 Pump  |            |            | 0       |
| 479.7                  | No. 5 Pump  | 13,389.440 | 13,241.120 | 148,320 |

|               |             |          |             |
|---------------|-------------|----------|-------------|
| Power Cost    | \$0.0872427 | Bill >>> | \$35,909.10 |
|               | 0.4481375   | KWH >>>  | 411,600     |
| Init. Chg.    | \$37,584.16 |          |             |
|               | \$          | KWH      |             |
| Low L. (1929) | \$3,105.58  |          | 35,597      |
| Low L. (2024) | \$0.00      |          | 0           |
| Horizon       | \$248.89    |          | 1,583       |
| Taylor        | \$335.63    |          | 2,315       |
| ALT. 72 Park  | \$717.02    |          | 1,600       |
| Geo. Ave.     | \$5,126.66  |          | 46,200      |
| Wilgus Ave.   | \$422.51    |          | 2,900       |
| EE Pit        | \$735.73    |          | 5,286       |
| EE Tower      | \$181.48    |          | 1,188       |
| Washington    | \$107.75    |          | 617         |
| Office        | \$468.51    |          | 3,913       |
| Erie Ave.     | \$2,721.72  |          | 16,400      |
| Total         | \$51,755.64 |          | 548,399     |

|              |             |
|--------------|-------------|
| Low L. KWH   | 35,597      |
| L.L. Cost \$ | \$3,105.58  |
| High L. KWH  | 271,010     |
| H.L. Cost \$ | \$23,643.65 |

Total Cost \$26,749.23

Plant Costs \$11,307.67

|                      |            |            |         |
|----------------------|------------|------------|---------|
| Garage (MWatt/Hrs.)  | 1,133.41   | 1,129.67   | 3,740   |
| Power Co. (Step #3)  | 44,481     | 44,122     | 430,800 |
| Left Meter - OUTSIDE |            |            |         |
| <b>Volume Used:</b>  |            |            |         |
| Nat. Gas (Correct)   | 47,093,969 | 46,933,238 | 202,039 |

## SUMMARY

|              | HIGH LIFT |           | LOW LIFT |         |
|--------------|-----------|-----------|----------|---------|
|              | 2023      | 2024      | 2023     | 2024    |
| Tot. Pump    | 357,984   | 337,772   | 372,929  | 344,263 |
| Daily Ave.   | 11,548    | 10,896    | 12,030   | 11,105  |
| Max. Day     | 12,760    | 12,040    | 13,100   | 12,817  |
| Min. Day     | 9,645     | 8,156     | 9,869    | 8,581   |
| By Nat. Gas  | 2,365     | 1,808     | 2,365    | 0,000   |
| Power KWH    | 299,307   | 271,010   | 75,838   | 35,597  |
| Gals/KWH     | 1188      | 1240      | 4886     | 9671    |
| Cost/KWH     | \$0.08331 | \$0.08724 | *****    | *****   |
| Cost/MG      | \$69.66   | \$70.00   | \$16.94  | \$9.02  |
| Tot. Cost/MG | \$138.49  | \$153.23  | *****    | *****   |

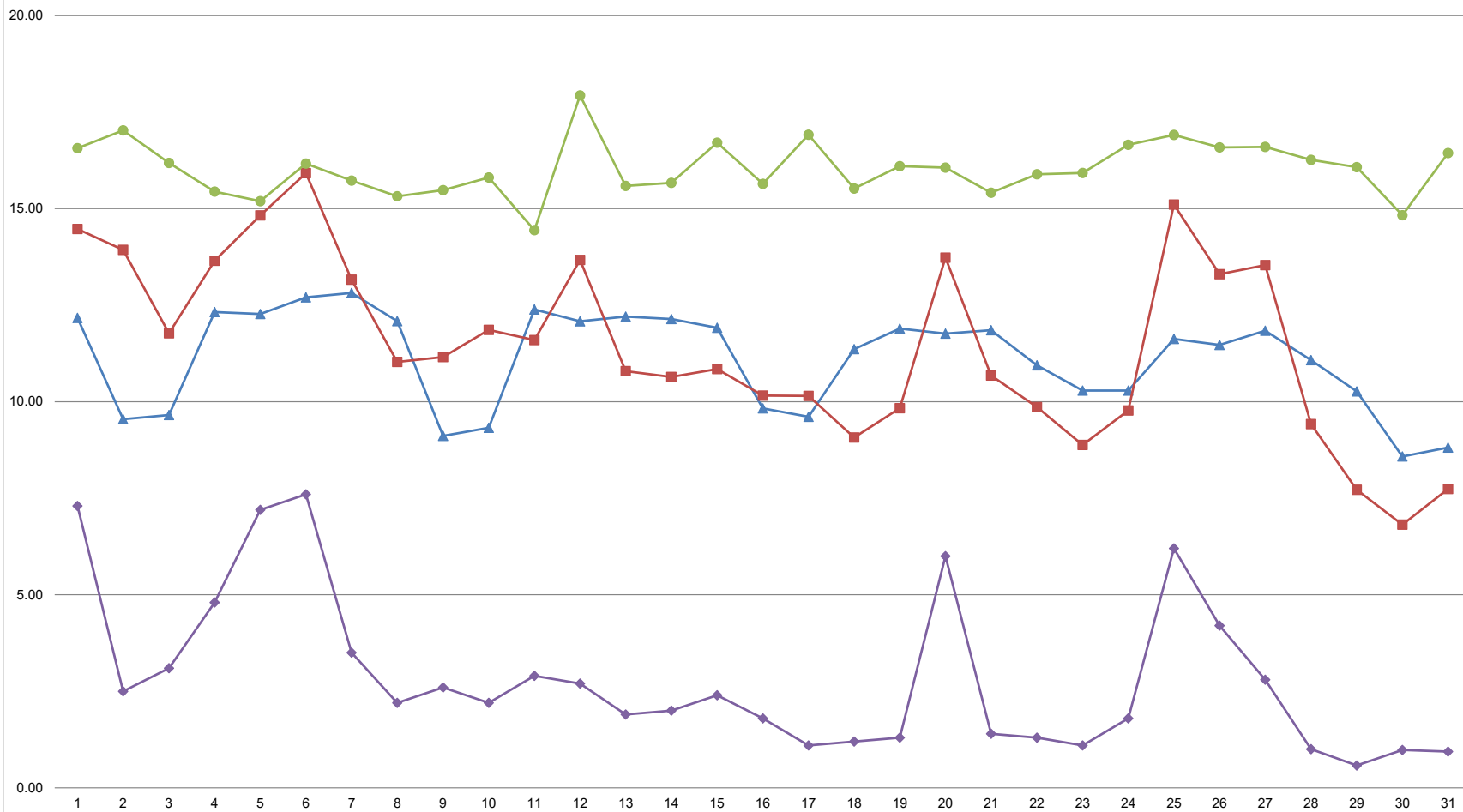
|                      |                       | 4/1/2024   | 3/1/2024   |         |
|----------------------|-----------------------|------------|------------|---------|
| <b>Elapsed Time:</b> |                       |            |            |         |
| % Run                | Emer. Generator       | 1,185.5    | 1,178.0    | 7.5     |
| 0.0%                 | Raw Pumpstation Gen   |            |            |         |
| 0.0%                 | No. 1 Pump            | 18,686.1   | 18,686.1   | 0.0     |
| 55.5%                | No. 2 Pump            | 21,331.56  | 21,331.56  | 0.00    |
| 0.6%                 | No. 3 Elec. Pump      | 5,504.0    | 5,091.5    | 412.6   |
| 0.0%                 | No. 3 Nat. Gas Pump   | 619.1      | 615.0      | 4.1     |
| 0.0%                 | No. 4 Elec. Pump      | 0.00       | 0.00       | 0.0     |
| 1.2%                 | No. 4 Nat. Gas Pump   | 173.3      | 164.5      | 8.8     |
| 41.6%                | No. 5. Pump           | 27,993.230 | 27,684.040 | 309,190 |
| 0.7%                 | UV Building Generator | 193        | 187.8      | 5.2     |

| <b>HIGH LIFT DELIVERY      QUARTERLY REPORT      2024</b> |                     |                 |                  |          |
|---|---------------------|-----------------|------------------|----------|
| <b>I. FIRST QUARTER</b>                                   |                     | Jan - Feb - Mar |                  |          |
|   |                     | GALLONS         | COST \$          | \$/MG    |
|   | 2023                | 1,028,642,000   | \$290,526.13     | \$282.44 |
|   | 2024                | 995,348,000     | \$277,403.58     | \$278.70 |
|   | Percent Difference  | -3.24%          | -4.52%           | -1.32%   |
| <b>II. SECOND QUARTER</b>                                 |                     | Apr - May - Jun |                  |          |
|   |                     | GALLONS         | COST \$          | \$/MG    |
|   | 2023                | 1,136,726,000   | \$286,793.50     | \$252.30 |
|   | 2024                | 0               | \$0.00           | #DIV/0!  |
|   | Percent Difference  | -100.00%        | -100.00%         | #DIV/0!  |
| <b>III. THIRD QUARTER</b>                                 |                     | Jul - Aug - Sep |                  |          |
|   |                     | GALLONS         | COST \$          | \$/MG    |
|   | 2023                | 1,240,280,000   | \$306,280.54     | \$246.94 |
|   | 2024                | 0               | \$0.00           | #DIV/0!  |
|   | Percent Difference  | -100.00%        | -100.00%         | #DIV/0!  |
| <b>IV. FOURTH QUARTER</b>                                 |                     | Oct - Nov - Dec |                  |          |
|   |                     | GALLONS         | COST \$          | \$/MG    |
|   | 2023                | 1,039,681,000   | \$274,137.72     | \$263.67 |
|   | 2024                | 0               | \$0.00           | #DIV/0!  |
|   | Percent Difference  | -100.00%        | -100.00%         | #DIV/0!  |
| <b>YEAR TO DATE : 2024</b>                                |                     |                 |                  |          |
|   |                     | GALLONS         | COST \$          | \$/MG    |
| <b>ELECTRICITY<br/>CHEMICALS<br/>NATURAL GAS</b>          | 2023                | 4,445,329,000   | \$1,157,737.89   | \$260.44 |
|   | 2024                | 995,348,000     | \$277,403.58     | \$278.70 |
|   | Percent Difference  | -77.61%         | -76.04%          | 7.01%    |
| <b>YEAR TO DATE : 2024</b>                                |                     |                 |                  |          |
| <b>SLUDGE DISPOSAL to WWTP</b>                            |                     | GALLONS         | COST \$          |          |
|   | 2023                | 4,838,061       | \$62,503.75      |          |
|   | 2024                | 497,650         | \$6,385.57       |          |
|   | Percent Difference  | -89.71%         | -89.78%          |          |
| <b>STORM WATER CHARGES</b>                                | 2024                | NA              | \$0.00           |          |
| <b>HIGH LIFT SYSTEM DELIVERY :</b>                        |                     |                 |                  |          |
|   | Maximum Pumpage Day | 12,648,000      | January 15, 2024 |          |
|   | Minimum Pumpage Day | 8,349,000       | January 1, 2024  |          |

|      | MG            | \$             | \$/MG    |
|------|---------------|----------------|----------|
| 2023 | 4,445,329,000 | \$1,157,737.89 | \$260.44 |
| 2024 | 995,348,000   | \$277,403.58   | \$278.70 |

**NOTE:** Monthly sludge disposal costs do not reflect the current actual monthly sludge discharge total to date.  
Filtrate discharges from Spring/Fall sludge disposal operations are included in 2023 treatment plant sludge disposal costs.  
Spring/Fall basin sludge/residual solids volumes and disposal costs are contract work.  
Sludge disposal costs are not included in \$/MG.

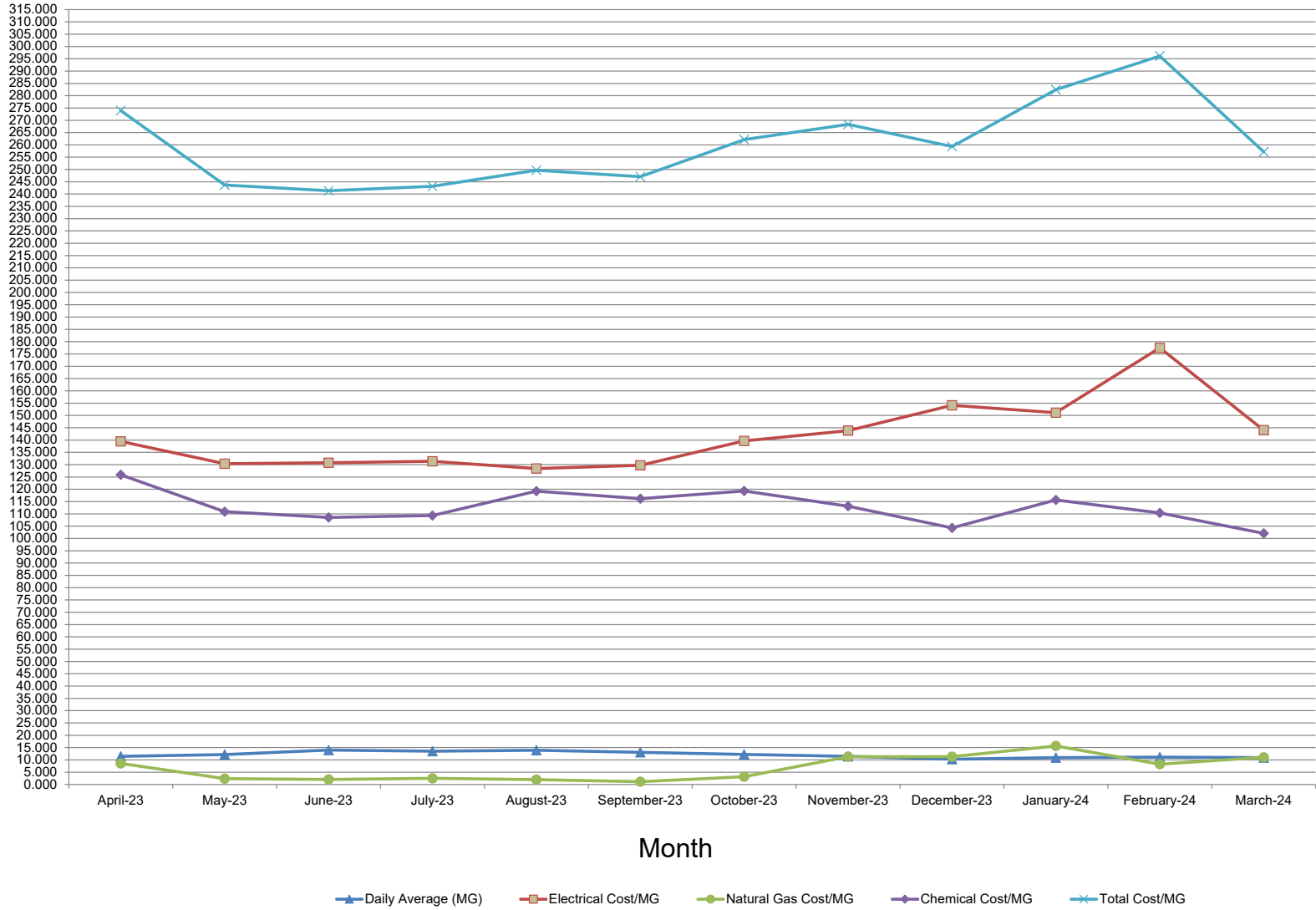
### March 2024: Sheboygan Water Utility Plant Operations Summary



—▲— Flow(MGD)    —■— Alum(lbs/MG)    —●— CL2(lbs/MG)    —◆— Raw Turbidity(NTU's)

Scaling  
Alum(X.10)

### Plant Operations: Expense Report



**Filter Plant Maintenance Completed For March 2024**

| Subject                       | StartDate | EndDate   | Description  |
|-------------------------------|-----------|-----------|--|
|                               |           |           | Yellow indicates days operating or running labs  |
| Joshua Covering 3rd Shift     | 1-Mar-24  | 3-Mar-24  | Joshua covering 3rd shift for Mark.  |
| Joshua Off for Coverage       | 4-Mar-24  | 5-Mar-24  | Joshua off for covering 3rd shift.   |
| Filter #3 filter media        | 4-Mar-24  |           | Added new filter media to Filter #3 rinsed and washed layers   |
| Filter #3 filter media        | 5-Mar-24  |           | Added new filter media to Filter #3 rinsed and washed layers   |
| Dan 2nd shift for Mark        | 6-Mar-24  | 8-Mar-24  | Dan covering 2nd shift for Mark  |
| Filter #4 filter media        | 6-Mar-24  |           | Added new filter media to Filter #4 rinsed and washed layers   |
| Joshua Time Off               | 7-Mar-24  | 10-Mar-24 | Joshua on vacation.  |
| Filter Hall Floor             | 11-Mar-24 |           | Begin removing adhesive from filter hall floor.  |
| Filter 4                      | 11-Mar-24 |           | Install sample line insulation.  |
| South Basin Eyewash           | 11-Mar-24 |           | Exercise south basin bulk alum storage area eyewash station.   |
| Filter 4                      | 11-Mar-24 |           | <b>Replace 1/2 sample line master valve.</b>   |
| Filter 3 and 4                | 11-Mar-24 |           | Filter to waste, wash, check pressures, and filter to waste.   |
| Hand Rail 3-6                 | 11-Mar-24 |           | Continue painting the filter hall hand rail.   |
| Generator Oil Pressure        | 11-Mar-24 |           | Replace the generators oil pressure sender; was reading 10psi erratic now reads 85 psi cold start.   |
| Monday Meeting                | 11-Mar-24 |           | Topics include filter 3/4 maintenance, check valves for L.L., coverage, sampling, DNR survey prep, reservoir maintenance, fire extinguisher return, etc. |
| Plant Garbage                 | 11-Mar-24 |           | Throw out garbage and recycling.   |
| Dan covering Lab              | 11-Mar-24 | 12-Mar-24 | Dan covering lab for Eric  |
| Viking                        | 12-Mar-24 |           | Pickup two new float switches for sewage lift pump.  |
| EE Tower                      | 12-Mar-24 |           | Install new outfall screen (stainless) , walk grounds, and turn off heater.  |
| Wilcus Ave.                   | 12-Mar-24 |           | Return fire extinguisher, water grass, sweep/rinse floor, walk grounds, and turn off heater.   |
| Chemical Feed System          | 12-Mar-24 |           | Attend chemical feed system training for raw water improvement project.  |
| Raw Water SWAN                | 12-Mar-24 |           | Attend SWAN instrument training in raw water building.   |
| Raw Water Traveling Screens   | 12-Mar-24 |           | Attend Evoqua traveling screen training.   |
| West SWAN Analyzer            | 13-Mar-24 |           | Replace filter vessel for flow cell.   |
| Laboratory Paper Towel Holder | 13-Mar-24 |           | Re-install paper towel holder.   |
| UV Room                       | 13-Mar-24 |           | Place UV sleeve and bulb replacement components in mezzanine.  |
| UV Reference Check            | 13-Mar-24 |           | Perform UV reference check.  |
| Taylor Hill                   | 13-Mar-24 |           | Taylor hill reagents filled and heaters turned off   |
| Horizon tower                 | 13-Mar-24 |           | Checked tower reagents and turned off heat   |
| Erie pump station             | 13-Mar-24 |           | Maintenance checks and turned off heat   |
| EE pit                        | 13-Mar-24 |           | Maintenance checks and turned off heat   |
| Washington pit                | 13-Mar-24 |           | Maintenance checks and turned off heat   |
| Georgia pump station          | 13-Mar-24 |           | Maintenance checks and turned off heat in pump station and dog house   |
| New low lift training meeting | 14-Mar-24 |           | Meeting in new low lift for project information and construction updates   |
| Menards                       | 14-Mar-24 |           | Purchase storage totes, air hose, fittings, etc.   |
| Truck 10                      | 14-Mar-24 |           | Clean bed mat, install bed mat, organize misc. tools, and diagnose L.E.D. strobe inop; need a new strobe.  |
| Filter 4                      | 14-Mar-24 |           | Replace sample feed hose and plumbing; repairing small water leak.   |
| UV Reference Check            | 15-Mar-24 |           | Enter UV reference data.   |
| Filter Maintenance            | 15-Mar-24 |           | <b>Place 4'x8' plywood, 21x101x18' boards, wheelbarrow, etc. in Johnson shed.</b>  |
| Filter Hall                   | 15-Mar-24 |           | Sweep and wash filter hall floor.  |
| UV Room                       | 15-Mar-24 |           | Clean floor (Tyler).   |
| Flipse                        | 15-Mar-24 |           | Order and store Flipse order.  |
| Filter Hall 2                 | 15-Mar-24 |           | <b>Store fabricated 4'x4' plywood sections used during filter maintenance in south basin bulk alum storage area.</b>                                     |
| Filter 3                      | 15-Mar-24 |           | Replace and reroute sample hose.   |
| Filter 3+4                    | 15-Mar-24 |           | Insulate sample lines and clean area.  |
| Monday Meeting                | 18-Mar-24 |           | Topics include coverage, DNR inspection prep, remote station temperature alarms, raw water pump station check valves, etc.                               |
| EE pit heater                 | 18-Mar-24 |           | Removed heater from EE pit, fan not working  |
| Georgia dog house heater      | 18-Mar-24 |           | Removed Georgia dog house barn heater that was in pipe vault, heater was not working, turned on top barn heater  |
| Actuator Fuse                 | 18-Mar-24 |           | <b>Replace two fuses in 201 backwash decant valve actuator.</b>  |
| Rapid Mix Hall                | 18-Mar-24 |           | Replace 6 lights with L.E.D. bypass bulbs.   |
| Reservoir and pit Heaters ON  | 18-Mar-24 |           | Turned reservoir and pit heaters back on due to cold temperatures  |

|                                  |           |           |  |
|----------------------------------|-----------|-----------|--|
| PO Error                         | 18-Mar-24 |           | Contact Lisa and ask to remedy PO vendor error; should be Mulcahy Shaw not Hawkins.  |
| Misc. Safety Yellow Areas        | 18-Mar-24 |           | Touch up filter hall rails, hypo feed room tubes, rapid mix rails, etc.  |
| EE pit Barn heater               | 18-Mar-24 |           | Put a temporary barn heater in EE Pit  |
| Georgia Ave.                     | 19-Mar-24 |           | Install new milkhouse heater in doghouse lower level.  |
| Menards                          | 19-Mar-24 |           | <b>Purchase small heater for Georgia Ave., replacement heater for EE pit, cleaning supplies, and ½" stainless steel ball valves.</b> |
| South Basin Emergency Light      | 19-Mar-24 |           | Install a new South basin emergency light; assembly located by switch gears.   |
| New Heater                       | 19-Mar-24 |           | Remove wiring from old heater and wire new unit.   |
| EE Pit Heater                    | 19-Mar-24 |           | Install a new heater in EE pit.  |
| Clearwell extension vent screen  | 19-Mar-24 |           | Replaced screens on Clearwell extension vents  |
| Replaced light south basin       | 19-Mar-24 |           | Replaced light bulb in south basin plate settling area   |
| Brenda Retirement Party          | 20-Mar-24 |           | Brenda retirement lunch/party at 11:30   |
| Joshua Doctors Appointment       | 20-Mar-24 |           | Joshua off for doctors appointment; 0630-1030.   |
| Alum Day Tank Area               | 20-Mar-24 |           | Sweep, scrub, rinse, and repeat until clean.   |
| Rapid Mix Area                   | 20-Mar-24 |           | Continue cleaning  |
| Trash and cardboard              | 20-Mar-24 |           | Removed trash and cardboard from filter plant  |
| Verified hatches locked          | 20-Mar-24 |           | Verified that all basin hatches have locks, placed new lock on sludge pit  |
| Chemical pump labels             | 20-Mar-24 |           | Verified all chemical feed pumps are labeled and up to date  |
| H.L. Metal and Garbage           | 20-Mar-24 |           | <b>Remove old 2" pipe and garbage from high lift area.</b>   |
| Cardboard Dumpster               | 20-Mar-24 |           | Cut up and stack cardboard in dumpster.  |
| Low Lift 6                       | 20-Mar-24 |           | Greased bearings, cleaned water drains, labeled, etc.  |
| Lift Station Air Hoses           | 20-Mar-24 |           | Install new hose, repair old hoses, and purge lines of moisture.   |
| Crane Operations 13:00           | 21-Mar-24 |           | Attend raw water pump station crane training.  |
| Menards                          | 21-Mar-24 |           | Purchase thermometer, CLR, rubber gloves, etc.   |
| Air Compressor                   | 21-Mar-24 |           | Hot rod new air nozzles and install new storage eyelet.  |
| Bulk Hypo Storage                | 21-Mar-24 |           | Sweep, clean fittings, vacuum, scrub, and rinse bulk hypo storage room.  |
| Hypo Feed Room                   | 21-Mar-24 |           | Clean fittings, sweep, vacuum, and wash floor.   |
| South Foyer                      | 21-Mar-24 |           | Vacuum, mop, and clean windows.  |
| Hypo Sump Pits                   | 21-Mar-24 |           | Rinse and empty both sump pits.  |
| Sample Trough                    | 22-Mar-24 |           | Snug fittings and insulate East sample faucet.   |
| Remove Snow                      | 22-Mar-24 |           | Shovel applicable plant locations.   |
| Greased LL motors and pumps      | 22-Mar-24 |           | Greased low lift motors and pumps  |
| Greased HL motors and pumps      | 22-Mar-24 |           | Greased High Lift motors and pumps   |
| LL gas engine maintenance        | 22-Mar-24 |           | Maintenance checks and Oil levels on low lift gas engine #7  |
| HL gas engine maintenance        | 22-Mar-24 |           | Maintenance checks and engine oil levels on gas engines #3 & #4  |
| Maintenance #10 Gas engine       | 22-Mar-24 |           | Maintenance checks and engine oil levels on #10 plant emergency generator  |
| Wash Pump 1                      | 22-Mar-24 |           | Greased pump   |
| Wash Pump 2                      | 22-Mar-24 |           | Greased applicable locations.  |
| Dan and Josh covering Lab        | 25-Mar-24 | 28-Mar-24 | <b>Dan and Josh covering Lab operations and sampling</b>   |
| Carbon Feed Room                 | 25-Mar-24 |           | Begin cleaning/organizing carbon feed room.  |
| Georgia Ave.                     | 25-Mar-24 |           | Replace reagents, snug SWAN sample line, and store backup reagents.  |
| Old Rapid Mix and Poly Feed Area | 25-Mar-24 |           | Sweep, scrub, and rinse floor.   |
| Old Rapid Mix Piping             | 25-Mar-24 |           | Sweep, scrub, and rinse piping.  |
| Sodium Thio                      | 25-Mar-24 |           | Change sodium thio barrel.   |
| Eaton Electrical Training 08:00  | 26-Mar-24 |           | Attend Eaton electrical equipment training in the raw water pump station.  |
| Carbon Room                      | 26-Mar-24 |           | Organize items and discard undesirables.   |
| Filter Landings                  | 26-Mar-24 |           | Vacuum and mop landings between filter 2+3 and 5+6.  |
| Paint Filter Landings            | 26-Mar-24 |           | Paint landings between filter 2+3 and 5+6.   |
| EE Tower                         | 26-Mar-24 |           | Reset radio communications.  |
| East Basin Entry                 | 27-Mar-24 |           | Clean East basin entry hall; above old rapid mix.  |
| Laboratory Vials                 | 27-Mar-24 |           | Clean fluoride and NTU sample vials with acid.   |
| Accounting UPS                   | 27-Mar-24 |           | Diagnose and repair accounting computer UPS.   |
| H.L. Lights                      | 27-Mar-24 |           | Replace/install 6 LED bulbs in high lift.  |
| Best Buy                         | 27-Mar-24 |           | Purchase new HDMI splitter for operations.   |
| Security Monitors                | 27-Mar-24 |           | Install new HDMI switch and cables.  |
| Wash Tank                        | 28-Mar-24 |           | Install new stainless steel screen on wash tank outfall.   |
| Filter Backwash Actuator 20"     | 28-Mar-24 |           | <b>Install new fuses in the 20" filter backwash actuator.</b>  |
| Good Friday Holiday              | 29-Mar-24 |           | Good Friday Holiday  |
| Utility observed good Friday     | 29-Mar-24 |           | Utility observed good Friday   |