



# MONTHLY REPORT OF OPERATION WATER TREATMENT PLANT

State Form 34609 (R11 / 1-17)

INDIANA DEPARTMENT OF  
ENVIRONMENTAL MANAGEMENT

System Name Bluffton Water Treatment PWSID Number IN5290001

For the Month of MAY Year 2024 IDEM Field Rep. Derek Petro

Signed [Signature] Title Supervisor

I certify **under penalty of law** by this signature that this document was prepared by me, or under my direction and the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am also aware that there are significant penalties for submitting false information.

Certification Number WT043677 DS061498

### PHYSICAL AND CHEMICAL DATA \*

| Date | Turbidity |          | Alkalinity |          | pH  |          | Hardness |          | Iron |          | Manganese |          | Phosphate | Fluoride |
|------|-----------|----------|------------|----------|-----|----------|----------|----------|------|----------|-----------|----------|-----------|----------|
|      | Raw       | Finished | Raw        | Finished | Raw | Finished | Raw      | Finished | Raw  | Finished | Raw       | Finished | Finished  | Finished |
| 1    |           |          |            |          |     |          | 615      | 198      | 2.49 | 0.01     |           |          | 2.22      |          |
| 2    |           |          |            |          |     |          | 625      | 183      | 0.79 | 0.01     |           |          | 2.21      |          |
| 3    |           |          |            |          |     |          | 615      | 185      | 0.83 | 0.02     |           |          | 2.31      |          |
| 4    |           |          |            |          |     |          | 591      | 204      | 1.43 | 0.07     |           |          | 2.15      |          |
| 5    |           |          |            |          |     |          | 601      | 200      | 1.81 | 0.01     |           |          | 2.15      |          |
| 6    |           |          |            |          |     |          | 598      | 166      | 1.09 | 0.03     |           |          | 2.18      |          |
| 7    |           |          |            |          |     |          | 599      | 177      | 1.43 | 0.01     |           |          | 2.18      |          |
| 8    |           |          |            |          |     |          | 591      | 371      | 1.76 | 0.00     |           |          | 2.27      |          |
| 9    |           |          |            |          |     |          | 611      | 163      | 2.00 | 0.01     |           |          | 2.06      |          |
| 10   |           |          |            |          |     |          | 604      | 190      | 1.26 | 0.02     |           |          | 2.15      |          |
| 11   |           |          |            |          |     |          | 592      | 163      | 2.00 | 0.03     |           |          | 2.25      |          |
| 12   |           |          |            |          |     |          | 581      | 161      | 1.15 | 0.06     |           |          | 2.22      |          |
| 13   |           |          |            |          |     |          | 620      | 164      | 1.99 | 0.01     |           |          | 2.23      |          |
| 14   |           |          |            |          |     |          | 599      | 198      | 1.42 | 0.02     |           |          | 2.26      |          |
| 15   |           |          |            |          |     |          | 590      | 146      | 1.02 | 0.01     |           |          | 2.28      |          |
| 16   |           |          |            |          |     |          | 602      | 207      | 1.05 | 0.01     |           |          | 2.08      |          |
| 17   |           |          |            |          |     |          | 598      | 218      | 1.03 | 0.01     |           |          | 1.98      |          |
| 18   |           |          |            |          |     |          | 618      | 198      | 1.56 | 0.00     |           |          | 2.03      |          |
| 19   |           |          |            |          |     |          | 597      | 168      | 1.44 | 0.02     |           |          | 2.01      |          |
| 20   |           |          |            |          |     |          | 599      | 198      | 0.84 | 0.02     |           |          | 2.00      |          |
| 21   |           |          |            |          |     |          | 599      | 171      | 1.55 | 0.02     |           |          | 2.03      |          |
| 22   |           |          |            |          |     |          | 725      | 192      | 1.35 | 0.02     |           |          | 2.20      |          |
| 23   |           |          |            |          |     |          | 688      | 162      | 1.07 | 0.00     |           |          | 2.08      |          |
| 24   |           |          |            |          |     |          | 719      | 165      | 1.79 | 0.01     |           |          | 2.21      |          |
| 25   |           |          |            |          |     |          | 703      | 197      | 0.92 | 0.02     |           |          | 2.04      |          |
| 26   |           |          |            |          |     |          | 740      | 166      | 1.22 | 0.06     |           |          | 2.04      |          |
| 27   |           |          |            |          |     |          | 710      | 164      | 1.61 | 0.03     |           |          | 2.04      |          |
| 28   |           |          |            |          |     |          | 602      | 172      | 1.34 | 0.00     |           |          | 2.22      |          |
| 29   |           |          |            |          |     |          | 597      | 362      | 1.14 | 0.01     |           |          | 1.99      |          |
| 30   |           |          |            |          |     |          | 589      | 168      | 1.01 | 0.00     |           |          | 2.04      |          |
| 31   |           |          |            |          |     |          | 663      | 189      | 0.96 | 0.03     |           |          | 1.98      |          |

\* All parameters are to be expressed in mg/l except pH and turbidity.

DUE BY THE 10<sup>TH</sup> OF THE MONTH FOLLOWING THE REPORTING PERIOD

| Date | Water Treated<br>1000 gallons | Chemicals Used – Pounds |      |      |          |        |          |          |                | Filters               |                            | Chlorine Residual |       |      |  | Remarks    |  |
|------|-------------------------------|-------------------------|------|------|----------|--------|----------|----------|----------------|-----------------------|----------------------------|-------------------|-------|------|--|------------|--|
|      |                               | Salt                    | Alum | Lime | Soda Ash | Carbon | Chlorine | Fluoride | Phos-<br>phate | Filter Run<br>(hours) | Gallons per<br>wash x 1000 | Plant Tap         |       | D S  |  |            |  |
|      |                               |                         |      |      |          |        |          |          |                |                       |                            | Free              | Total | Free | Total  |            |  |
| 1    | 1547                          | 1659                    |      |      |          | 566    |          | 130      | 90             | 25                    | 0.96                       | 1.29              | 1.20  | 1.30 | 24.10 Ton of Salt  |            |  |
| 2    | 1582                          | 2212                    |      |      |          | 594    |          | 149      | 74             | 0                     | 1.13                       | 1.49              | 0.94  | 1.16 |  |            |  |
| 3    | 1183                          | 2260                    |      |      |          | 440    |          | 97       | 84             | 0                     | 1.17                       | 1.40              | 1.20  | 1.35 |  |            |  |
| 4    | 1133                          | 2163                    |      |      |          | 443    |          | 94       | 96             | 0                     | 1.41                       | 1.96              | 1.21  | 1.49 |  |            |  |
| 5    | 1365                          | 1659                    |      |      |          | 534    |          | 114      | 110            | 0                     | 1.34                       | 1.80              | 1.10  | 1.31 |  |            |  |
| 6    | 1583                          | 2212                    |      |      |          | 613    |          | 132      | 95             | 27                    | 1.32                       | 1.75              | 0.93  | 1.19 |  |            |  |
| 7    | 1255                          | 1750                    |      |      |          | 519    |          | 102      | 98             | 26                    | 0.64                       | 0.92              | 0.62  | 0.70 |  |            |  |
| 8    | 1392                          | 1659                    |      |      |          | 561    |          | 120      | 41             | 26                    | 1.67                       | 2.04              | 0.50  | 0.62 | 23.5 Ton of Salt   |            |  |
| 9    | 1285                          | 2294                    |      |      |          | 510    |          | 114      | 54             | 0                     | 1.11                       | 1.35              | 0.94  | 1.10 |  |            |  |
| 10   | 1188                          | 2130                    |      |      |          | 458    |          | 101      | 66             | 0                     | 1.04                       | 1.41              | 0.94  | 1.15 |  |            |  |
| 11   | 1198                          | 2212                    |      |      |          | 417    |          | 100      | 78             | 0                     | 1.61                       | 1.78              | 2.20  | 2.21 |  |            |  |
| 12   | 1287                          | 1270                    |      |      |          | 471    |          | 122      | 91             | 0                     | 1.20                       | 1.36              | 1.31  | 1.42 |  |            |  |
| 13   | 1615                          | 2206                    |      |      |          | 552    |          | 145      | 96             | 27                    | 1.12                       | 1.43              | 0.61  | 0.76 |  |            |  |
| 14   | 1165                          | 1770                    |      |      |          | 378    |          | 90       | 94             | 27                    | 0.58                       | 0.75              | 0.94  | 1.11 |  |            |  |
| 15   | 1380                          | 1533                    |      |      |          | 485    |          | 119      | 38             | 26                    | 0.68                       | 0.92              | 0.89  | 1.09 | 23.8 Ton of Salt   |            |  |
| 16   | 1256                          | 2765                    |      |      |          | 386    |          | 92       | 51             | 0                     | 1.07                       | 1.23              | 0.64  | 0.79 |  |            |  |
| 17   | 1224                          | 1659                    |      |      |          | 442    |          | 100      | 64             | 0                     | 1.26                       | 1.54              | 1.10  | 1.33 |  |            |  |
| 18   | 1358                          | 1659                    |      |      |          | 469    |          | 105      | 78             | 0                     | 1.24                       | 1.61              | 2.20  | 2.20 |  |            |  |
| 19   | 1425                          | 2212                    |      |      |          | 465    |          | 133      | 90             | 0                     | 0.72                       | 1.06              | 1.52  | 1.76 |  |            |  |
| 20   | 1380                          | 2757                    |      |      |          | 431    |          | 112      | 93             | 27                    | 1.05                       | 1.19              | 1.02  | 1.14 |  |            |  |
| 21   | 1608                          | 2012                    |      |      |          | 521    |          | 107      | 94             | 27                    | 0.81                       | 1.16              | 0.85  | 0.98 | Monthly Water Treatment  |            |  |
| 22   | 1410                          | 2411                    |      |      |          | 474    |          | 117      | 48             | 26                    | 0.76                       | 1.18              | 0.64  | 0.77 | Total Gallons  | 41,797,000 |  |
| 23   | 1574                          | 2212                    |      |      |          | 532    |          | 108      | 65             | 0                     | 1.11                       | 1.38              | 0.98  | 1.20 | Max. Day   | 1,615,000  |  |
| 24   | 1126                          | 1659                    |      |      |          | 345    |          | 73       | 75             | 0                     | 1.13                       | 1.30              | 1.23  | 1.48 | Min. Day   | 1,126,000  |  |
| 25   | 1292                          | 2765                    |      |      |          | 429    |          | 87       | 88             | 0                     | 1.50                       | 1.79              | 1.27  | 1.55 | Avg. Daily   | 1,348,290  |  |
| 26   | 1145                          | 1606                    |      |      |          | 380    |          | 90       | 100            | 0                     | 1.07                       | 1.30              | 0.89  | 1.07 | E-Mail To:<br>DWBMRO@idem.in.gov   |            |  |
| 27   | 1375                          | 1711                    |      |      |          | 471    |          | 118      | 109            | 0                     | 1.34                       | 1.64              | 1.01  | 1.25 |  |            |  |
| 28   | 1216                          | 2212                    |      |      |          | 398    |          | 92       | 109            | 27                    | 1.41                       | 1.58              | 0.80  | 1.02 | Mail To:<br><b>Indiana Department of<br/>Environmental Management</b><br>Drinking Water Branch<br>100 N. Senate Ave. Room N1201<br>Indianapolis, IN 46204-2237 |            |  |
| 29   | 1363                          | 1659                    |      |      |          | 483    |          | 102      | 104            | 27                    | 0.95                       | 1.23              | 0.97  | 1.21 |  |            |  |
| 30   | 1407                          | 1659                    |      |      |          | 471    |          | 123      | 45             | 26                    | 1.20                       | 1.45              | 0.73  | 0.86 |  |            |  |
| 31   | 1480                          | 2727                    |      |      |          | 477    |          | 119      | 60             | 0                     | 0.96                       | 1.30              | 1.15  | 1.34 |  |            |  |