





**Flouridation & Chlorination**

**WSSN 2310**

**May-16**

| D<br>A<br>T<br>E | Fluoride<br>Applied<br>F <sup>-</sup> mg/l | Fluoride Analyses<br>mg/l |      |      | Chlorine App. Mg/l |  |                          | Chlorine Residual mg/l |        |      |             |     |      |    |     |    |
|------------------|--|---------------------------|------|------|--------------------|--|--------------------------|------------------------|--------|------|-------------|-----|------|----|-----|----|
|                  |  |                           |      |      |                    | Chlorine<br>(prior to<br>filtration)<br>mg/L<br>OCl <sup>-</sup> | Post<br>Chlorine<br>mg/L |                        | Sta II | Dort | 3MG<br>Well | Tap |      |    |     |    |
|                  |  | Raw                       | Tap  | Dist |                    |  |                          |                        | Free   | Free | Free        |     | Free |    |     |    |
|                  |  | 14                        | 15   | 16   | 17                 | 18   | 19                       | 20                     | 21     | 22   | 23          | 24  | 25   | 26 | 27  | 28 |
| 1                |  |                           | 0.60 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 2                |  |                           | 0.63 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 3                |  |                           | 0.62 |      |                    |  |                          |                        | 0.8    |      |             |     |      |    | 0.7 |    |
| 4                |  |                           | 0.64 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 5                |  |                           | 0.61 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 6                |  |                           | 0.59 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 7                |  |                           | 0.59 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 8                |  |                           | 0.61 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 9                |  |                           | 0.59 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.9 |    |
| 10               |  |                           | 0.60 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 11               |  |                           | 0.59 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| 12               |  |                           | 0.60 |      |                    |  |                          |                        | 0.8    |      |             |     |      |    | 0.8 |    |
| 13               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 14               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 15               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 16               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 17               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 18               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 19               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 20               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 21               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 22               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 23               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 24               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 25               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 26               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 27               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 28               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 29               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 30               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| 31               |  |                           |      |      |                    |  |                          |                        |        |      |             |     |      |    |     |    |
| AVG              |  |                           | 0.61 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.8 |    |
| MAX              |  |                           | 0.64 |      |                    |  |                          |                        | 0.9    |      |             |     |      |    | 0.9 |    |
| MIN              |  |                           | 0.59 |      |                    |  |                          |                        | 0.8    |      |             |     |      |    | 0.7 |    |



**Chemical Analyses**

**WSSN 2310**

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| D<br>A<br>T<br>E | pH   |      | Total Hardness as CaCO <sub>3</sub> mg/l |     | Total Alkalinity as CaCO <sub>3</sub> mg/l |     | NonCarbonate Hardness as CaCO <sub>3</sub> mg/l |     | Iron mg/L |      | Calcium Ca <sup>2+</sup> mg/l |      | Magnesium as Mg <sup>2+</sup> mg/l |     | Chloride as Cl <sup>-</sup> mg/l |      |
|------------------|------|------|--|-----|--|-----|---|-----|-----------|------|-------------------------------|------|------------------------------------|-----|----------------------------------|------|
|                  | CSII | Tap  | Raw                                      | Tap | Raw  | Tap | Raw   | Tap | Raw       | Tap  | Raw                           | Tap  | Raw                                | Tap | Raw                              | Tap  |
|                  | 29   | 30   | 31                                       | 32  | 33   | 34  | 35  | 36  | 37        | 38   | 39                            | 40   | 41                                 | 42  | 43                               | 44   |
| 1                | 7.34 | 7.24 |  | 96  |  | 72  |   | 24  |           | 0.03 |                               | 33.7 |                                    | 2.9 |                                  | 11   |
| 2                | 7.36 | 7.25 |  | 102 |  | 73  |   | 29  |           | 0.05 |                               | 29.7 |                                    | 6.8 |                                  | 11   |
| 3                | 7.36 | 7.23 |  | 102 |  | 76  |   | 26  |           | 0.03 |                               | 32.1 |                                    | 5.3 |                                  | 11   |
| 4                | 7.35 | 7.24 |  | 102 |  | 70  |   | 32  |           | 0.02 |                               | 36.1 |                                    | 2.9 |                                  | 13   |
| 5                | 7.33 | 7.24 |  | 100 |  | 72  |   | 28  |           | 0.02 |                               | 33.7 |                                    | 3.9 |                                  | 12   |
| 6                | 7.48 | 7.25 |  | 102 |  | 74  |   | 28  |           | 0.02 |                               | 33.7 |                                    | 4.4 |                                  | 12   |
| 7                | 7.44 | 7.28 |  | 100 |  | 72  |   | 28  |           | 0.01 |                               | 33.7 |                                    | 3.9 |                                  | 12   |
| 8                | 7.38 | 7.27 |  | 100 |  | 74  |   | 26  |           | 0.03 |                               | 33.7 |                                    | 3.9 |                                  | 12   |
| 9                | 7.39 | 7.27 |  | 100 |  | 74  |   | 26  |           | 0.03 |                               | 35.3 |                                    | 2.9 |                                  | 12   |
| 10               | 7.38 | 7.27 |  | 104 |  | 74  |   | 30  |           | 0.04 |                               | 33.7 |                                    | 4.9 |                                  | 13   |
| 11               | 7.38 | 7.26 |  | 100 |  | 74  |   | 26  |           | 0.03 |                               | 34.5 |                                    | 3.4 |                                  | 13   |
| 12               | 7.41 | 7.28 |  | 102 |  | 74  |   | 28  |           | 0.03 |                               | 34.5 |                                    | 3.9 |                                  | 12   |
| 13               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 14               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 15               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 16               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 17               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 18               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 19               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 20               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 21               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 22               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 23               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 24               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 25               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 26               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 27               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 28               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 29               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 30               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| 31               |      |      |  |     |  |     |   | 0   |           |      |                               |      |                                    |     |                                  |      |
| AVG              | 7.38 | 7.26 |  | 101 |  | 73  |   | 11  |           | 0.03 |                               | 33.7 |                                    | 4.1 |                                  | 12.0 |
| MAX              | 7.48 | 7.28 |  | 104 |  | 76  |   | 32  |           | 0.05 |                               | 36.1 |                                    | 6.8 |                                  | 13.0 |
| MIN              | 7.33 | 7.23 |  | 96  |  | 70  |   | 0   |           | 0.01 |                               | 29.7 |                                    | 2.9 |                                  | 11.0 |



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| D<br>A<br>T<br>E | Total Coliform |    |      |          |        |         | 66 | Standard Plate Count |      | Conductivity (mS) | Temp deg.C | Color |     | Odor |     |
|------------------|----------------|----|------|----------|--------|---------|----|----------------------|------|-------------------|------------|-------|-----|------|-----|
|                  | Plant Tap      |    |      |          |        |         |    | Raw                  | Tap  |                   |            | Raw   | Tap | Raw  | Tap |
|                  |                |    | Dort | 3MG Well | Sta II | Lab Tap |    |                      |      |                   |            |       |     |      |     |
|                  | 60             | 61 | 62   | 63       | 64     | 65.00   |    | 67                   | 68   |                   |            | 69    | 71  | 72   | 73  |
| 1                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.19 | 9.7               |            |       |     |      |     |
| 2                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.19 | 10.9              |            |       |     |      |     |
| 3                |                |    |      |          | 2 / 0  | 2 / 0   |    | < 2                  | 0.21 | 11.8              |            |       |     |      |     |
| 4                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.21 | 11.7              |            |       |     |      |     |
| 5                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.21 | 11.1              |            |       |     |      |     |
| 6                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.21 | 11.2              |            |       |     |      |     |
| 7                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.21 | 11.9              |            |       |     |      |     |
| 8                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.19 | 10.1              |            |       |     |      |     |
| 9                |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.19 | 10.1              |            |       |     |      |     |
| 10               |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.19 | 11.1              |            |       |     |      |     |
| 11               |                |    |      |          | 2 / 0  | 2 / 0   |    |                      | 0.19 | 10.9              |            |       |     |      |     |
| 12               |                |    |      |          |        |         |    |                      | 0.20 | 11.2              |            |       |     |      |     |
| 13               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 14               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 15               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 16               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 17               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 18               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 19               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 20               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 21               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 22               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 23               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 24               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 25               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 26               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 27               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 28               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 29               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 30               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
| 31               |                |    |      |          |        |         |    |                      |      |                   |            |       |     |      |     |
|                  |                |    |      |          |        |         |    |                      |      | 11.0              |            |       |     |      |     |
|                  |                |    |      |          |        |         |    |                      |      | 11.9              |            |       |     |      |     |
|                  |                |    |      |          |        |         |    |                      |      | 9.7               |            |       |     |      |     |



**Distribution System Monitoring      WSSN 2310      May-16**

| D<br>A<br>T<br>E                   | Free Chlorine Residual at Bacteriological Monitoring Stations mg/l |      |      |              |      |      |      |      |      |      |                   |
|------------------------------------|--|------|------|--------------|------|------|------|------|------|------|-------------------|
|                                    | 1  | 2    | 3    | 4            | 5    | 6    | 7    | 8    | CS   | WR   | Number of Samples |
| 1                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 2                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 3                                  | 0.83   | 0.69 | 0.69 | 0.83         | 0.58 | 0.26 | 0.65 | 0.75 | 1.13 | 2.07 | 10                |
| 4                                  | 0.84   | 0.60 | 0.76 | 0.64         | 0.50 | 0.24 | 0.66 | 0.83 | 1.10 | 2.18 | 10                |
| 5                                  | 0.79   | 0.70 | 0.79 | 0.73         | 0.55 | 0.29 | 0.73 | 0.84 | 0.77 | 1.97 | 10                |
| 6                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 7                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 8                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 9                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 10                                 | 0.75   | 0.67 | 0.69 | 0.81         | 0.59 | 0.24 | 0.65 | 0.69 | 1.03 | 1.69 | 10                |
| 11                                 | 0.78   | 0.64 | 0.67 | 0.71         | 0.52 | 0.26 | 0.67 | 0.77 | 0.76 | 1.43 | 10                |
| 12                                 | 0.77   | 0.67 | 0.65 | 0.61         | 0.61 | 0.29 | 0.61 | 0.75 | 0.85 | 1.61 | 10                |
| 13                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 14                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 15                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 16                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 17                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 18                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 19                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 20                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 21                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 22                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 23                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 24                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 25                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 26                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 27                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 28                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 29                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 30                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 31                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| <b>Monthly Cl<sub>2</sub> Avg.</b> |  |      |      | <b>0.791</b> |      |      |      |      |      |      |                   |
| <b>Total Samples</b>               |  |      |      | <b>60</b>    |      |      |      |      |      |      |                   |



**Distribution System Monitoring      WSSN 2310      May-16**

| DATE                               | Total Chlorine Residual at Bacteriological Monitoring Stations mg/l |      |      |              |      |      |      |      |      |      |                   |
|------------------------------------|---|------|------|--------------|------|------|------|------|------|------|-------------------|
|                                    | 1   | 2    | 3    | 4            | 5    | 6    | 7    | 8    | CS   | WR   | Number of Samples |
| 1                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 2                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 3                                  | 0.97  | 0.83 | 1.09 | 0.94         | 0.71 | 0.36 | 0.85 | 0.94 | 1.24 | 2.27 | 10                |
| 4                                  | 0.97  | 0.76 | 0.84 | 0.75         | 0.67 | 0.30 | 0.85 | 0.93 | 1.16 | 2.28 | 10                |
| 5                                  | 0.96  | 0.81 | 0.88 | 0.94         | 0.67 | 0.37 | 0.78 | 0.97 | 0.90 | 2.24 | 10                |
| 6                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 7                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 8                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 9                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 10                                 | 0.86  | 0.81 | 0.79 | 0.94         | 0.74 | 0.33 | 0.79 | 0.81 | 1.19 | 1.80 | 10                |
| 11                                 | 0.88  | 0.77 | 0.77 | 0.85         | 0.63 | 0.36 | 0.75 | 0.89 | 1.01 | 1.88 | 10                |
| 12                                 | 0.86  | 0.81 | 0.74 | 0.71         | 0.69 | 0.40 | 0.77 | 0.79 | 0.98 | 1.69 | 10                |
| 13                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 14                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 15                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 16                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 17                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 18                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 19                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 20                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 21                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 22                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 23                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 24                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 25                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 26                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 27                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 28                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 29                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 30                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 31                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| <b>Monthly Cl<sub>2</sub> Avg.</b> |   |      |      | <b>0.925</b> |      |      |      |      |      |      |                   |
| <b>Total Samples</b>               |   |      |      | <b>60</b>    |      |      |      |      |      |      |                   |



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**May-16**

| Total number of positive routine samples:              |                    |                |                | Total Coliform: <u>0</u> |  | Fecal Coliform: <u>0</u> |                |
|--|--------------------|----------------|----------------|--------------------------|--|--------------------------|----------------|
| Date   | Monitoring Station | Total Coliform | Fecal Coliform | Date                     | Retest of Station, Upstream & Downstream | Total Coliform           | Fecal Coliform |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
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|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
| Total number of routine distribution samples analyzed: |                    |                |                | <b>60</b>                |  |                          |                |
| Total number of routine distribution samples required: |                    |                |                | <b>100</b>               |  |                          |                |