





**Flouridation & Chlorination**

**WSSN 2310**

**Mar-16**

| D<br>A<br>T<br>E | Fluoride<br>Applied<br>F- 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- | Post<br>Chlorine<br>mg/L |                        | Sta II | Dort | 3MG<br>Well |    | Tap |    |     |    |
|                  |                                | Free                      | Free | Free |                    |  |                          |                        |        | Free |             |    |     |    |     |    |
|                  |                                | Raw                       | Tap  | Dist | 18                 | 19   | 20                       | 21                     |        | 22   | 23          | 24 | 25  | 26 | 27  | 28 |
| 1                |                                |                           | 0.67 |      |                    |  |                          |                        | 1.0    |      |             |    |     |    | 1.0 |    |
| 2                |                                |                           | 0.70 |      |                    |  |                          |                        | 1.1    |      |             |    |     |    | 1.0 |    |
| 3                |                                |                           | 0.72 |      |                    |  |                          |                        | 1.0    |      |             |    |     |    | 0.9 |    |
| 4                |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 5                |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 6                |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 7                |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 8                |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 9                |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 10               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 11               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 12               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 13               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 14               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 15               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 16               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 17               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 18               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 19               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 20               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 21               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 22               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 23               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 24               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 25               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 26               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 27               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 28               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 29               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 30               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| 31               |                                |                           |      |      |                    |  |                          |                        |        |      |             |    |     |    |     |    |
| AVG              |                                |                           | 0.70 |      |                    |  |                          |                        | 1.0    |      |             |    |     |    | 1.0 |    |
| MAX              |                                |                           | 0.72 |      |                    |  |                          |                        | 1.1    |      |             |    |     |    | 1.0 |    |
| MIN              |                                |                           | 0.67 |      |                    |  |                          |                        | 1.0    |      |             |    |     |    | 0.9 |    |



**Chemical Analyses**

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| D<br>A<br>T<br>E | pH   |      | Total Hard as CaCO <sub>3</sub> mg/l |     | Total Alk as CaCO <sub>3</sub> mg/l |     | NonCarbonate Hardness as CaCO <sub>3</sub> mg/l |     | Iron (mg/L) |       | Calcium Ca ++ mg/l |      | Magnesium as Mg ++ mg/l |     | Chloride as Cl - 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          | 38.00 | 39                 | 40   | 41                      | 42  | 43                    | 44   |
| 1                | 7.22 | 7.17 |                                      | 102 |                                     | 70  |   | 32  |             | 0.03  |                    | 32.9 |                         | 4.9 |                       | 12   |
| 2                | 7.31 | 7.18 |                                      | 100 |                                     | 68  |   | 32  |             | 0.03  |                    | 34.5 |                         | 3.4 |                       | 11   |
| 3                | 7.32 | 7.21 |                                      | 98  |                                     | 72  |   | 26  |             | 0.00  |                    | 35.3 |                         | 2.4 |                       | 12   |
| 4                |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 5                |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 6                |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 7                |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 8                |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 9                |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 10               |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 11               |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 12               |      |      |                                      |     |                                     |     |   | 0   |             |       |                    |      |                         |     |                       |      |
| 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              | 7.28 | 7.19 |                                      | 100 |                                     | 70  |   | 3   |             |       |                    | 34.2 |                         | 3.6 |                       | 11.7 |
| MAX              | 7.32 | 7.21 |                                      | 102 |                                     | 72  |   | 32  |             |       |                    | 35.3 |                         | 4.9 |                       | 12.0 |
| MIN              | 7.22 | 7.17 |                                      | 98  |                                     | 68  |   | 0   |             |       |                    | 32.9 |                         | 2.4 |                       | 11.0 |



**Bacteriological & Physical Parameters**

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| D<br>A<br>T<br>E | Total Coliform |    |      |          |        |         |  | 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      |  | 66                   | 67  |                   |            | 68    | 69  | 71   | 72  |
| 1                |                |    |      |          | 2/0    | 2/0     |  |                      | < 2 | 0.22              | 9.9        |       |     |      |     |
| 2                |                |    |      |          | 2/0    | 2/0     |  |                      |     | 0.21              | 10.0       |       |     |      |     |
| 3                |                |    |      |          | 2/0    | 2/0     |  |                      |     | 0.22              | 12.4       |       |     |      |     |
| 4                |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 5                |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 6                |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 7                |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 8                |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 9                |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 10               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 11               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 12               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 13               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 14               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 15               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 16               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 17               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 18               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 19               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 20               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 21               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 22               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 23               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 24               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 25               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 26               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 27               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 28               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 29               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 30               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
| 31               |                |    |      |          |        |         |  |                      |     |                   |            |       |     |      |     |
|                  |                |    |      |          |        |         |  |                      |     | 0.22              | 10.8       |       |     |      |     |
|                  |                |    |      |          |        |         |  |                      |     | 0.22              | 12.4       |       |     |      |     |
|                  |                |    |      |          |        |         |  |                      |     | 0.21              | 9.9        |       |     |      |     |



**Distribution System Monitoring**

**WSSN 2310**

**Mar-16**

| DATE                               | Free Chlorine Residual at Bacteriological Monitoring Stations mg/l |      |      |              |      |      |      |      |      |      |                   |
|------------------------------------|--|------|------|--------------|------|------|------|------|------|------|-------------------|
|                                    | 1  | 2    | 3    | 4            | 5    | 6    | 7    | 8    | CS   | WR   | Number of Samples |
| 1                                  | 0.10   | 0.90 | 1.00 | 0.90         | 0.80 | 0.40 | 1.00 | 1.00 | 1.20 | 2.20 | 10                |
| 2                                  | 0.05   | 1.00 | 0.90 | 0.90         | 0.70 | 0.60 | 0.80 | 0.90 | 1.10 | 2.30 | 10                |
| 3                                  | 0.00   | 0.88 | 0.76 | 0.69         | 1.30 | 0.46 | 0.79 | 0.87 | 1.10 | 2.14 | 10                |
| 4                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 5                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 6                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 7                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 8                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 9                                  |  |      |      |              |      |      |      |      |      |      | 0                 |
| 10                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 11                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 12                                 |  |      |      |              |      |      |      |      |      |      | 0                 |
| 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>30</b>    |      |      |      |      |      |      |                   |



**Distribution System Monitoring**

**WSSN 2310**

**Mar-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                                  | 0.30  | 1.10 | 1.20 | 1.10         | 0.90 | 0.60 | 1.10 | 1.10 | 1.40 | 2.40 | 10                |
| 2                                  | 0.09  | 1.20 | 1.10 | 0.90         | 0.80 | 1.00 | 1.10 | 1.10 | 1.30 | 2.50 | 10                |
| 3                                  | 0.00  | 0.97 | 0.97 | 0.85         | 1.50 | 0.58 | 0.89 | 0.99 | 1.30 | 2.41 | 10                |
| 4                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 5                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 6                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 7                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 8                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 9                                  |   |      |      |              |      |      |      |      |      |      | 0                 |
| 10                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 11                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 12                                 |   |      |      |              |      |      |      |      |      |      | 0                 |
| 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>1.092</b> |      |      |      |      |      |      |                   |
| <b>Total Samples</b>               |   |      |      | <b>30</b>    |      |      |      |      |      |      |                   |



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Mar-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 |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
|  |                    |                |                |                          |  |                          |                |
| Total number of routine distribution samples analyzed: |                    |                |                | <b>30</b>                |  |                          |                |
| Total number of routine distribution samples required: |                    |                |                | <b>100</b>               |  |                          |                |