## 2007 CONVENTIONAL PHYSICAL AND CHEMICAL PARAMETERS

| PARAMETERS | NYS DOH MCL | US EPA MCLG | W05 raw | | | W05 treated | | | SOURCES IN DRINKING WATER |
|---|---|---|---|---|---|---|---|---|---|
| | | | # SAMPLES | RANGE | AVERAGE | # SAMPLES | RANGE | AVERAGE | |
| Alkalinity (mg/L $CaCO_3$) | - | | 1 | - | 55.8 | 1 | - | 55.0 | Erosion of natural deposits |
| Calcium (mg/L) | | | 1 | - | 33.5 | 1 | - | 33.7 | Erosion of natural deposits |
| Chloride (mg/L) | 250 | | 1 | - | 98 | 1 | - | 97 | Naturally occurring; road salt |
| Chlorine Residual, free (mg/L) | 4 | 4 | 2 | 0.02 - 0.03 | 0.03 | 9 | 0.71 - 1.23 | 0.97 | Water additive for disinfection |
| Color (color units) | 15 | | 2 | 1 - 5 | 3 | 9 | 1 - 6 | 2 | Presence of iron, manganese, and organics in water |
| Copper (mg/L) | 1.3 | 1.3 | 1 | - | 0.011 | 1 | - | 0.004 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Fluoride (mg/L) | 2.2 | 4 | 2 | ND | ND | 9 | 0.65 - 1.1 | 0.89 | Erosion of natural deposits; water additive which promotes strong teeth; runoff from fertilizer |
| Hardness (mg/L $CaCO_3$) | | | 1 | - | 157.5 | 1 | - | 158.2 | Erosion of natural deposits |
| Hardness (grains/gallon[US]$CaCO_3$) | | | 1 | - | 9.1 | 1 | - | 9.1 | Erosion of natural deposits |
| Magnesium (mg/L) | | | 1 | - | 18 | 1 | - | 18 | Erosion of natural deposits |
| Nitrate (mg/L nitrogen) | 10 | 10 | 1 | - | 5.8 | 1 | - | 5.81 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| pH (pH units) [(1)] | 6.5 - 8.5 | | 2 | 6.41 - 6.44 | 6.43 | 9 | 7.84 - 8.20 | 8.05 | |
| Phosphate, Ortho- (mg/L) | | | 2 | 0 - 0.22 | 0.11 | 9 | 1.67 - 2.08 | 1.87 | Water additive for corrosion control |
| Specific Conductance (µS/cm) | - | | 2 | 571 - 573 | 572 | 9 | 551 - 578 | 572 | |
| Sulfate (mg/L) | 250 | | 1 | - | 42.1 | 1 | - | 42.1 | Naturally occurring |
| Temperature (°F) | - | | 2 | 55 - 57 | 56 | 9 | 55 - 57 | 56 | |
| Turbidity (NTU) | 5 | | 2 | 0.08 - 0.1 | 0.09 | 9 | 0.11 - 0.13 | 0.12 | Erosion of natural deposits |

## 2007 MICROBIAL PARAMETERS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Total Coliform Bacteria | NA | 0 | 2 | - | ND | 4 | - | ND | Naturally present in the environment |
| *E.coli* (CFU/100mL) | | 0 | 2 | - | ND | 4 | - | ND | Human and animal fecal waste |
| Heterotrophic Plate Count (CFU/mL) | NA | | 2 | ND | ND | 2 | ND | ND | Naturally present in the environment |

*MCL = Maximum Contaminant Level*

*MCLG = Maximum Contaminant Level Goal*

*mg/L = milligrams per liter ($10^{-3}$ grams per liter)*

*NA = Not Applicable*

*ND = Lab analysis indicates parameter is not present*

*(1) The average for pH is the median value.*