

## Supplemental Monitoring Program

Beginning November 2004, WASA initiated a program to enhance its water quality monitoring in order to optimize the lead corrosion control treatment in the distribution system. This program emanated from EPA's August 3, 2004 interim optimum corrosion control treatment designation for the use of orthophosphate in the distribution system. A copy of the EPA's letter is located at <http://www.epa.gov/dclead/corrosion.htm>.

WASA collects samples at 50 sites throughout the District on a routine basis, resulting in over 1,000 tests per month. Each sample is tested for several water quality parameters. These parameters provide information about disinfection performance, corrosion treatment, and changes in water due to seasonal effects, among other water quality characteristics. The table below summarizes the data.

| Parameter                           | Units                     | November - December 2004 |       |       |
|-------------------------------------|---------------------------|--------------------------|-------|-------|
|                                     |                           | Avg                      | Max   | Min   |
| Alkalinity                          | mg/L                      | 72                       | 120   | 46    |
| Aluminum                            | mg/L                      | 0.00                     | 0.20  | 0.00  |
| Ammonia                             | mg/L                      | 0.26                     | 0.45  | 0.00  |
| Calcium Dissolved                   | mg/L as CaCO <sub>3</sub> | 103                      | 138   | 74    |
| Calcium Hardness                    | mg/L as CaCO <sub>3</sub> | 107                      | 140   | 76    |
| Color                               | Color units               | 11                       | 159   | 0     |
| Free Chlorine                       | mg/L                      | 0.14                     | 0.40  | 0.00  |
| Heterotrophic Plate Count           | colony forming units      | 129                      | 2500  | 1     |
| Iron                                | mg/L                      | 0.05                     | 0.28  | 0.00  |
| Monochloramine                      | mg/L                      | 3.15                     | 4.14  | 0.39  |
| Nitrite                             | mg/L                      | 0.073                    | 1.206 | 0.000 |
| Oxidation-Reduction Potential (ORP) | millivolts                | 515.5                    | 579   | 412.9 |
| Orthophosphate                      | mg/L                      | 3.30                     | 4.22  | 1.98  |
| pH                                  | --                        | 7.62                     | 7.86  | 7.37  |
| Sulfate                             | mg/L                      | 38                       | 55    | 23    |
| Total Dissolved Solids              | mg/L                      | 117.3                    | 179.7 | 36.5  |
| Temperature                         | degrees Celcius           | 16.4                     | 25.9  | 8.2   |
| Total Chlorine                      | mg/L                      | 3.21                     | 5.50  | 0.76  |