

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. WASA's lead sampling at customer homes demonstrated the corrosion control treatment was successful by reducing lead levels to below EPA's action level. This Supplemental Monitoring Program addresses other chemical and biological water quality parameters potentially related to corrosion. For lead or copper data, see the Water Quality Report (<http://www.dcwasa.com/news/publications/wqr2005.pdf>).

WASA collected samples at 50 sites throughout the District on a routine basis, resulting in over 1,000 tests per month. Each sample was 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	Average	Maximum	Minimum
Alkalinity	75	109	33
Aluminum Total mg/L	0.01	0.12	0.00
Ammonia-Free NH ₃ -N	0.32	0.65	0.01
Calcium Dissolved mg/L as CaCO ₃	106	150	61
Calcium Hardness Total mg/L as CaCO ₃	111	180	64
Color	10	217	0
Free Chlorine mg/L	0.08	1.58	0.00
HPCs CFU	118	5700	0
Iron Total mg/L	0.047	1.300	0.000
Monochloramine mg/L	3.08	4.29	0.05
Nitrite mg/L	0.010	0.322	0.000
ORP Mv	508	655	380
Orthophosphate mg/L	3.35	5.22	1.16
pH	7.56	8.15	7.23
Sulfate mg/L	47	79	20
TDS mg/L	163	232	80
Temperature C	19.9	31.7	5.8
Total Chlorine mg/L	3.18	4.16	0.00