

2009 Water Quality Data

Contaminants (units)	MCL	MCLG	Waverly Water	Range of Detections	Sample Date	Violation	Typical Source of Contaminant
Inorganic Contaminants regulated at Wells							
Barium (ppm)	2	2	0.13	Well 8 0.13	2009	No	Discharge of drilling wastes & metal refineries; erosion of natural resources.
Sodium (ppm)	n/a	n/a	8.4	4 Wells 6.5 - 13.1		No	Erosion of Natural Deposits; Added to water during treatment process.
Nitrate [as N] (ppm)	10	10	7.4	4 Wells 6.1 - 7.8	2009	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion
Raw Fluoride (ppm) (naturally occurring)	4	4	0.2	4 Wells 0.1-0.3	2009	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories; Water additive to promote strong teeth.
Inorganic Contaminants regulated at Customer's Tap							
Lead (ppb)	AL AL=15	0	14	ND-20	2007	No	Corrosion of household plumbing systems; erosion of natural deposits.
Copper (ppm)	AL AL=1.3	1.3	0.303	0.079-0.337	2007	No	Corrosion of household plumbing systems; erosion; leaching from wood preservatives.
Fluoride (ppm)	4.0	4.0	1.0	0.8-1.3	2009	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories; Water additive to promote strong teeth.
Chlorine (ppm)	MRDL 4.0	MRDLG 4.0	0.9	0.7-1.2	2009	No	Water additive used to control microbes.
Total Coliform Bacteria	**	0	0	0	2009	No	Naturally present in the environment
Trihalomethanes (ppb) [TTHM]	80	N/A	2.47	2.47	2007	No	By-products of drinking water disinfection
Haloacetic Acids (ppb) [HAA5]	60	N/A	7.57	7.57	2007	No	By-products of drinking water disinfection
Radionuclides							
Alpha Emitters	15	0	1.7	1.7	1999	No	Erosion of natural deposits.

Lead and Copper Report

Compliance Begin Date	Compliance End Date	Monitoring Status	Lead 90th	Percentile Copper 90th	Lead 95th
6/1/2005	9/30/2007	Complete	14	0.303	19

** Presence of coliform bacteria in >5% of monthly samples

Maximum Residual Disinfectant Level (MRDL) Calculation	
Actual Month / Year	Monthly Average
January 2009	0.9
February 2009	0.9
March 2009	0.9
April 2009	0.9
May 2009	0.8
June 2009	0.9
July 2009	0.9
August 2009	0.9
September 2009	0.9
October 2009	0.9
November 2009	0.9
December 2009	1.0
Running Annual Average (RAA) = 0.9	

Calculation of maximum disinfectant residual is based on the monthly average of the chlorine residual measured at the same time as compliance bacterial samples are collected or can include all distribution system chlorine monitoring. **They should not exceed 4.0 mg/L.**