Town of Williamson 2009 detected test results

Contaminant	Violation Y/N	Date of sample	Level Detected (Up to maximum range)	Unit of measurement	MCLG	MCL	Likely source of contamination	Required test frequency
Microbiological Contaminants								
Turbidity	No	Continuous	100% less then 0.5	NTU	N/A	TT=95% of samples less then 0.5	Soil runoff	Continuous
Turbidity	No	Continuous	.027-.068	NTU	N/A	5 TT= <= 3.0 NTU	Soil runoff	Continuous
Total coliform	No	Continuous	0	N/A	0	2 or more per month	Naturally present in the environment	Seven samples per month
Inorganic Contaminants								
Copper	No	9/01/08[1]	<0.004-.46 90%=. 07	Mg/l	1.3	1.3	Corrosion of home plumbing Erosion of natural deposits	Once every three years
Lead	No	9/01/08[1]	Non detected -.043 90%=.0039	Mg/l	0	15	Corrosion of home plumbing Erosion of natural deposits	Once every three years
Barium	No	10/8/09	0.022	Mg/l	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	Once yearly
Nitrate	No	8/13/09	<0.2	Mg/l	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Once yearly
Fluoride	No	Continuous	0.8-1.0	Mg/l	N/A	2.2	Water additive that promotes strong teeth, erosion of natural deposits, discharge from fertilizer and aluminum factories	Continuous
Alkalinity	No	Monthly	60-94	Mg/l	N/A	N/A	Soil runoff	Monthly
TOC	No	Monthly	1.6-2.0	Mg/l	N/A	N/A	Naturally occurring	Monthly
TTHM	No	Quarterly	.041- .081 .065[2]	Mg/l	0	Avg. .08 Mg/l	Disinfection Byproducts	Quarterly
TTHM Stage 2	No	Quarterly	.035-.076 .062[2]	Mg/l	0	Avg. .08 Mg/l	Disinfection Byproducts	Quarterly
HAA5	No	Quarterly	.003-.041 .023[2]	Mg/l	0	Avg. .06 Mg/l	Disinfection Byproducts	Quarterly
HAA5 Stage 2	No	Quarterly	.0078-.043 .034[2]	Mg/l	0	Avg. .06 Mg/l	Disinfection Byproducts	Quarterly
Radium - 228	No	10/08/09	-0.88	pCi/l	5	5	Soil Runoff	Once Yearly
Radium - 226	No	10/08/09	0.04	pCi/l	5	5	Soil Runoff	Once Yearly

1. The State allows us to monitor for some contaminants less than once a year because the concentrations of these contaminants do not change frequently. Some of the data, though representative, are more than one year old.
2. This represents the annual quarterly average calculated from all the data collected.

Terms and definitions

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.
Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
Non-Detects (ND): Laboratory analysis indicates that the constituent is not present.
Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).
Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).
Nanograms per liter (ng/l): Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion - ppt).
Picocuries per liter (pCi/L): A measure of the radioactivity in water.
Millirems per year (mrem/yr): A measure of radiation absorbed by the body.
Million Fibers per Liter (MFL): A measure of the presence of asbestos fibers that is longer than 10 micrometers.
***TTHM*:** Total trihalomethanes
***HAA5*:** Haloacetic acids
TOC: Total organic carbon
90th Percentile Value: The values reported for lead and copper represent the 90th percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system.