

**REGULATED SUBSTANCES BY GADSDEN WATER WORKS & SEWER BOARD**

Substance (Units)	Year Sampled	MCL	MCLG	Amount Detected	Range Low-High	Violation	Typical Source
Chlorine (ppm)	2009	(4)	(4)	2.05	0.21-2.99	No	Water additive used to control microbes
Fluoride (ppm)	2009	4	4	0.92	0.22-1.04	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Halooacetic Acid (HAAs) (ppb)	2009	60	NA	26.55	13.1-46.00	No	By-product of drinking water disinfection
Nitrate (ppm)	2009	10	10	0.54	0.54-0.54	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
TTHMs (ppb) (Total Trihalomethanes)	2009	80	NA	38.84	20.97-60.19	No	By-product of drinking water chlorination
Total Organic Carbon (ppm)	2009	TT	NA	2.0	1.4-2.7	No	Naturally present in the environment
Turbidity' (NTU)	2009	TT	NA	0.30	0.0034-0.299	No	Soil runoff
Turbidity (Lowest) (Lowest monthly percent of samples meeting limit)	2009	TT	NA	100	NA	No	Soil runoff

'Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

Substance (Units)	Year Sampled	Action Level	MCLG	Amount Detected (90th %tile)	Sites above Action Level	Violation	Typical Source
Copper (ppm)	2009	1.3	1.3	0.1396	0/30	No	Corrosion of household plumbing system. Erosion of natural deposits
Lead (ppb)	2009	15	0	14	0/30	No	Corrosion of household plumbing system. Erosion of natural deposits

Tap water samples were collected for lead and copper from samples sites throughout the Gadsden area

**SECONDARY SUBSTANCES BY GADSDEN WATER WORKS & SEWER BOARD**

Substance (Units)	Year Sampled	SMCL	MCLG	Amount Detected	Range Low-High	Violation	Typical Source
Chloride (ppm)	2009	250	NA	8.29	8.29-8.29	No	Run-off/leaching from natural deposits
Color (Units)	2009	15	NA	3.724	3.0-7.0	No	Naturally occurring organic materials
Iron (ppb)	2009	300	NA	17	7-60	No	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2009	50	NA	10	5-50	No	Leaching from natural deposits
Sulfate (ppm)	2009	250	NA	28.2	28.2-28.2	No	Run-off/leaching from natural deposits; Industrial wastes
Total Disolved Solids [TDS] (ppm)	2009	500	NA	112	112-112	No	Run-off/leaching from natural deposits
Zinc	2009	5	NA	0.139	0.139-01.39	No	Run-off/leaching from natural deposits; Industrial wastes
pH (units)	2009	6.5-8.5	N	7.483	7.25-7.75	No	Naturally occurring

**REGULATED SUBSTANCES BY THE UTILITIES BOARD OF RAINBOW CITY PWSID - AL0000588**

**Report for the Disinfectants & Disinfection Byproducts Rule**

Substance (Units)	Year Sampled	MCL	MCLG	Amount Detected	Range Low-High	Violation	Typical Source
Halooacetic Acid (HAAs) (ppb)	2009	60	NA	37.4	24.2-80.3	No	By-product of drinking water disinfection
TTHMs (ppb) (Total Trihalomethanes)	2009	80	NA	62.7	25.1-107.0	No	By-product of drinking water disinfection

  

Substance (Units)	Year Sampled	Action Level	MCLG	Amount Detected (90th %tile)	Homes above Action Level	Violation	Typical Source
Copper (ppm)	2007	1.3	1.3	0.198	0	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	2007	15	0	<.005	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Tap water samples were collected from 8 homes throughout the service area.



<b>UNREGULATED SUBSTANCES</b>				
<b>Substance (Units)</b>	<b>Year Sampled</b>	<b>Amount Detected</b>	<b>Range Low-High</b>	<b>Typical Source</b>
<b>Bromodichloromethane</b> (ppb)	2009	6.29	3.01-11.6	By-product of drinking water disinfection
<b>Chlorodibromomethane</b> (ppb)	2009	1.61	1.01-2.41	By-product of drinking water disinfection
<b>Chloroform</b> (ppb)	2009	31.71	17.3-50.2	By-product of drinking water disinfection
<b>Sodium</b> (ppm)	2009	10.7	10.7-10.7	Naturally occurring
<b>Sulfate</b>	2009	28.2	28.2-28.2	NA

<b>REGULATED SUBSTANCES BY THE UTILITIES BOARD OF RAINBOW CITY PWSID - AL000588</b>							
<b>Report for the Disinfectants &amp; Disinfection Byproducts Rule</b>							
<b>Substance (Units)</b>	<b>Year Sampled</b>	<b>MCL</b>	<b>MCLG</b>	<b>Amount Detected</b>	<b>Range Low-High</b>	<b>Violation</b>	<b>Typical Source</b>
<b>Halooacetic Acid (HAAs) (ppb)</b>	2009	60	NA	37.4	14.7-31.1	No	By-product of drinking water disinfection
<b>TTHMs (ppb) (Total Trihalomethanes)</b>	2009	80	NA	62.7	53.1-79.1	No	By-product of drinking water disinfection

  

<b>Substance (Units)</b>	<b>Year Sampled</b>	<b>Action Level</b>	<b>MCLG</b>	<b>Amount Detected (90th %tile)</b>	<b>Homes above Action Level</b>	<b>Violation</b>	<b>Typical Source</b>
<b>Copper (ppm)</b>	2007	1.3	1.3	0.198	0	No	Corrosion of household plumbing systems; Erosion of natural deposits Leaching from wood preservatives
<b>Lead (ppb)</b>	2007	15	0	<.005	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

*Tap water samples were collected from 8 homes throughout the service area.*