

## 2010 Water Quality Testing Results

Below the Consumer will find the Water Analysis results for your information on substances that were detected in the water during 2010. The Commonwealth of Massachusetts, Department of Environmental Protection, (DEP) sets forth the sampling schedule.

The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk.

All water testing conducted during Calendar Year 2010, there were no substances that exceeded any MCL.

The Palmer Water District # 1 has met all present regulatory testing requirements as set forth by DEP. The District did not receive any Notices of Non-Compliance during the Calendar Year 2010 for water quality or treatment issues.

### 2010 Water Quality Data

Contaminant (Units)	Level Detected	Range Detected	MCL	MCLG	SMCL	Violations (Yes / NO)	Possible Source of Contamination
<b>Clarity of Treated Water</b>							
Turbidity (NTU)	0.10	0.04 - 0.10	TT = 0.50	None		No	Soil Runoff
There were no Turbidity Samples taken during the year that exceeded the 0.50 NTU MCL.							
<b>Bacteria Monitoring</b>							
There were <b>no</b> positive Finished Water Bacterial Samples during the year. (There was one false positive Total Coliform result, which upon DEP protocol retesting proved false.)							
<b>Inorganic Contaminant</b>							
Nitrate (ppm)	0.30	0.23 - 0.30	10.00	10.00		No	Runoff from fertilizer use; Leaching from septic tanks, sewage
Fluoride (ppm)	N/D	N/D	2.00			No	This is naturally occurring. The District does not add Fluoridation to its water
Sodium (ppm)	12.00	N/D - 12		20.00		No	
<b>Lead and Copper*</b>							
Copper (ppm)	0.079 = 90th Percentile level		AL = 1.3	1.30		No	Corrosion of household plumbing systems
Lead (ppb)	0.9 = 90th Percentile Level		AL = 15	0.00		No	Corrosion of household plumbing systems
<b>Unregulated Contaminants</b>							
Chloride (ppm)	26.00	20.00 - 26.00			250.00	No	These are unregulated contaminants that we are required to monitor for:  Unregulated contaminants are those which EPA has not established drinking water standards. The purpose of unregulated contaminate monitoring is to assist EPA in determining their occurrence in drinking water standards. The purpose of unregulated contaminate
Manganese (ppm)	0.10	ND - 0.10			0.05		
Sulfate (ppm)	13.00	8.00 - 13.00			250.00		
Total Desolved Solids	170.00	44.00 - 170.00			500.00		
Zinc	0.10	0.08 - 0.10			5.00		
<b>Chlorination</b>							
Health Effects from Chlorination							
Chlorine Residual at Treatment Plants (ppm)	1.50	0.80 - 1.50	MRDL 4.00	MRDLG 4.00		No	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their nose and eyes. Some people who drink water containing chlorine in excess of the MRDL could experience stomach discomfort. Caused By: Disinfectant added to water to kill microbes
<b>Disinfection Byproducts **</b>							
Total Haloacetic Acids (ppb)	13.50	1.49 - 13.50	60.00	-----		No	Disinfection ByProduct from Chlorination of Water
Total Trihalomethane (ppb)	33.60	10.40 - 33.60	80.00	-----		No	Disinfection ByProduct from Chlorination of Water

Note: \*: Twenty homes were sampled in 2009 for lead and copper. Due to low levels, monitoring for lead and copper has been reduced to only once every three years. No Samples exceeded the Action Level.

\*\* : Under the Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBRP). The Palmer Water District # 1 in 2008 applied for and received a waiver to maintain reduced monitoring, due to historical low values.