



2009 WATER QUALITY REPORT *CITY OF POLSON * PWS ID MT0000308
106 1st St E – Polson, MT 59860 – (406) 883-8200

This Annual Quality Report will not be mailed out to individual water customers.

A copy of this report will be available at City Hall and can also be found @ www.cityofpolson.com.

We are pleased to present this year's 2009 Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. The city of Polson received zero violations for the year of 2009. Your water source is ground water from six (6) wells. There have been several water main line upgrades done. 10th, 11th, and 12th Ave E., 4th and 5th St E have been upgraded from a 2" & 4" line to an 8" main line. Approximately 15 new fire hydrants have been installed or upgraded for your fire protection. An 8" water main extension has been completed from Mission View Dr. south on Skyline Drive and View Point Dr. Construction of 2 new water reservoirs began in the Hillcrest and Skyline area, each 500,000 gallons capacity. A new Skyline pump station is complete and increases the pressure to JB Dr., Claffey Dr. and services the Ridgewater Subdivision. Approximately 223 water meters have been upgraded. There was also a complete water rate analysis presentation done by Carl Brown Consulting. We have a source water protection plan available from our office that provides more information such as potential sources of contamination. We are also researching for more ways to bring increased water to the Polson area. This report is available for review at the City Hall during working hours.

This water quality report shows your water quality and what it means. If you have any questions or concerns about this report concerning your water utility, please contact Tony Porrazzo at (406) 883-8215 or please attend any of our regularly scheduled meetings held on the first and third Monday of each Month at City Hall, 7:00 PM. The city of Polson routinely monitors for constituents in your drinking water according to Federal and State regulations. The table shows the results of our monitoring for the period of January 1st thru December 31st, 2009. Some of the data in the tables are several years old, since certain chemical contaminants are monitored less than once a year. Our sampling frequency complies with EPA and State drinking water regulations. In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Parts per million (ppm) or Milligrams per liter (mg/l) – one part per million corresponds to one minute in two years

Parts per billion (ppb) or Micrograms per liter – one part per billion corresponds to one minute in 2,000 years

Action Level (AL) -the concentration of contaminant, which if exceeded, triggers treatment or other requirements, which a water system must follow.

Maximum Contaminant Level – The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal – The "Goal" (MCLG) is 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.

"All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or is man made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials." All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. **EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791). MCL's [Maximum Contaminant Level] are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.** *Nitrates:* As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply. *Lead:* Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

In order to maintain safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments and/or discontinuance of service for a minimum time. Thank you for understanding.

Zones	Hardness	PH
Lower Zone – From Lake to 10 th Ave Hwy 35 to River	162	8.04
Middle Zone – From 10 th Ave to 16 th Ave Hellroaring to 2 nd St. E. (except 10 th & 11 ave W.)	192	7.91
Upper Zone – Rest of Town above 16 th Ave.	192	7.91
West Zone – West of the River	136	7.93

There are many more test results, too many to publish, results area available upon request

Constituents	Violation Y or N	Sample Date	Highest Level Detected	Range Detected	Unit Measurement	MCLG	MCL	Likely source of Contamination
Arsenic	N	12/03/09	ND	ND	mg/l		0.010	
Barium	N	09/28/05	0.3	N/A	ppm	2	2	discharge of drilling waste; discharge from metal refineries; erosion of natural deposits
Copper	N	2008	0.39	0.02-0.36	ppm	1.3	AL-1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	N	09/25/05	0.4 0	0.10	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Lead	N	2008	0.004	0 .0-0.004	ppm	0	AL-0.015	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate and Nitrate As Nitrogen	N	12/03/2009	3.08	0.14-3.08	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks,, sewage; erosion of natural deposits
Bacterial	N	6 monthly	0	0	#/100ml	0	0	Cross connections, negative pressure, leaks
Volatile Organic Compounds (VOC) 62 tests completed								
Tetrachlorethylene	N	10/04/07	0.	0.50	ppm	0	5	Leaching from PVC pipes, discharge from factories and dry cleaners
Asbestos		10/30/03	<LOD	Every 9 yrs				Limit of Detection Tested Every 9 years

Semi Volatile Organic Compounds (SOC) 21 tests completed
9 tests completed for Pesticides and 7 for Herbicides

We also received a 10C waiver to every 9 year testing on EP503, EP505, EP506 (2002-2010). This included Antimony, Beryllium, Nickel, Thallium, Barium, Cadmium, Chromium, Fluoride, Mercury & Selenium. Not included are Arsenic, Nitrate, Nitrite. Arsenic must be monitored once every three years in a compliance period. Nitrate & Nitrite every year.

The City of Polson Water Department works around the clock to provide top quality water to every tap.