



- ◆ Let your lawn go dormant during the hot summer months. This saves money and time spent mowing.
- ◆ Mow your grass to a height of 2" to 3", and leave the clippings on the ground. This shades the soil to prevent evaporation.
- ◆ Use a sprinkler that delivers large drops, rather than a fine mist. Also, please note that city ordinances have changed and the city will fine residents whose sprinkler heads are misaligned.
- ◆ If it rains an inch or more, wait at least five days to water again.

◆ If your grass springs back when you step on it, it doesn't need watering.

◆ If your grass is brown, wait at least five days to water again.

### Help Us Conserve Water

Over-depletion of our groundwater resources is a real threat in this region. Lawn watering is the single biggest residential use of water. You can have a green lawn and save water by following these tips:

- ◆ If drought conditions require any changes to the restrictions, they will be announced on the City website, [www.ci.plymouth.mn.us](http://www.ci.plymouth.mn.us), and on the Water Restriction Information Line, 763-509-5512. Area media will also be notified.

### Enforcement

City employees will enforce the water restrictions when they see violations. The penalty for violating restrictions is \$100 for each day of violation. You will receive one written warning before you are penalized. Please keep in mind that if you have an irrigation system that is not functioning properly or is misaligned and water is spraying in the street, you could receive a notice of violation.

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**Hand-Held Watering** - City water customers may wash vehicles and do hand-held hose watering of shrubs, flowers and trees on any day and at any time if the hose has a nozzle with automatic shutoff.

**New Sod/Landscaping** - If you have new sod, seed or landscaping, you do not need to follow the odd-even restrictions for unattended watering during the first 30 days following planting. You must, however, still abide by the midday ban from noon to 5 p.m.

**Non-City Water Customers** - The restrictions do not apply to people who use sources of water other than the city water system.

**Other Exceptions** - Businesses and organizations that need to irrigate turf or playfields to prevent unreasonable damage due to frequent use may submit a written request for an exemption to the public works director. Intermittent sprinkling that is exclusively for recreational use is also exempt from the restrictions.

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**The Restrictions**

Plymouth prohibits outdoor lawn watering from noon to 5 p.m. on all days. At other times, water customers must also follow an odd-even schedule when sprinkling lawns. Homeowners and businesses with addresses ending in an odd-numbered water on odd-numbered calendar days. Those with addresses ending in an even number may water on even numbered days. The restrictions apply to all city water customers. Property owners with automatic irrigation systems must adjust their systems accordingly. Please keep in mind that if you have an irrigation system that is not functioning properly or is misaligned and water is spraying in the street, you could receive a notice of violation.

**Why Restrictions?**

The Minnesota Department of Natural Resources (DNR) requires cities to address water conservation proactively. This is especially true when a city seeks a permit from the DNR to construct new wells.

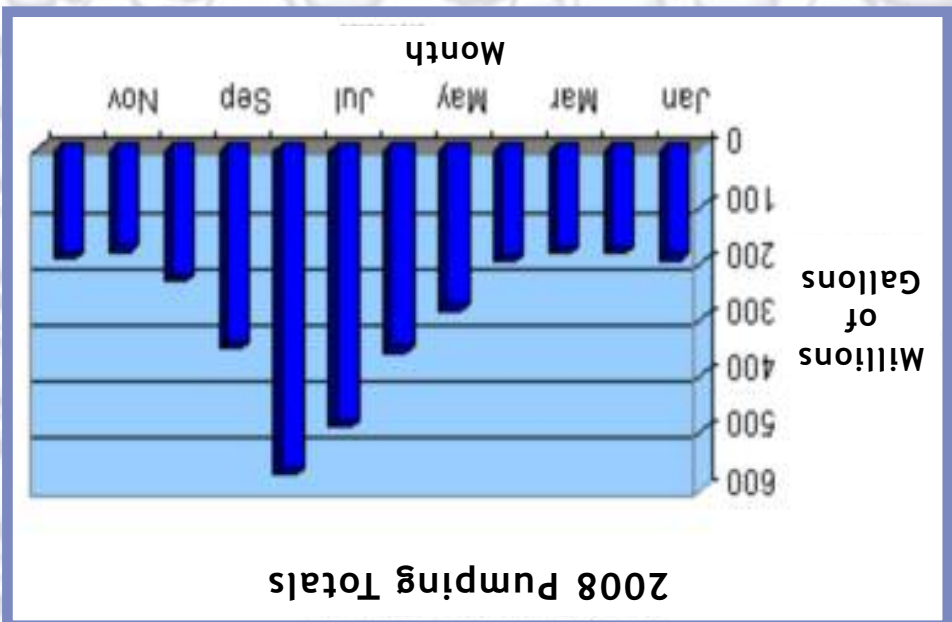
**Outdoor Water Restrictions**

To conserve water and address DNR requirements, Plymouth has annual restrictions on outdoor water use that are in effect from May 1 through Sept. 30.

**Water Usage**

The graph above shows Plymouth's water use by month. The city of Plymouth pumps an average of 295 million gallons of water monthly, however during the summer water demand increases to about 600 million gallons. This spike puts significant stress on the aquifer.

To meet the growing demand for water in Plymouth, the city is adding another well to the municipal water system. Construction will be completed later this year. Our water source is not infinite. Aquifers require time to recharge. They cannot recharge quickly enough during the peak months to meet the demand. Consequently, the city of Plymouth has adopted annual water restrictions.



**Learn More about Tap Water**

The city of Plymouth strives to provide safe, quality drinking water and high quality service to residents and businesses. We encourage you to call us with questions or concerns about your water quality and service. For more information about the Plymouth water system, such as test results, customer service questions, and opportunities for public participation in meetings where drinking water decisions are made, call Utilities Superintendent Scott Newberger at 763-509-5999 or Utilities Senior Engineer Technician Greg Cook at 763-509-5997.

To learn more about drinking water issues, connect with the resources listed below.

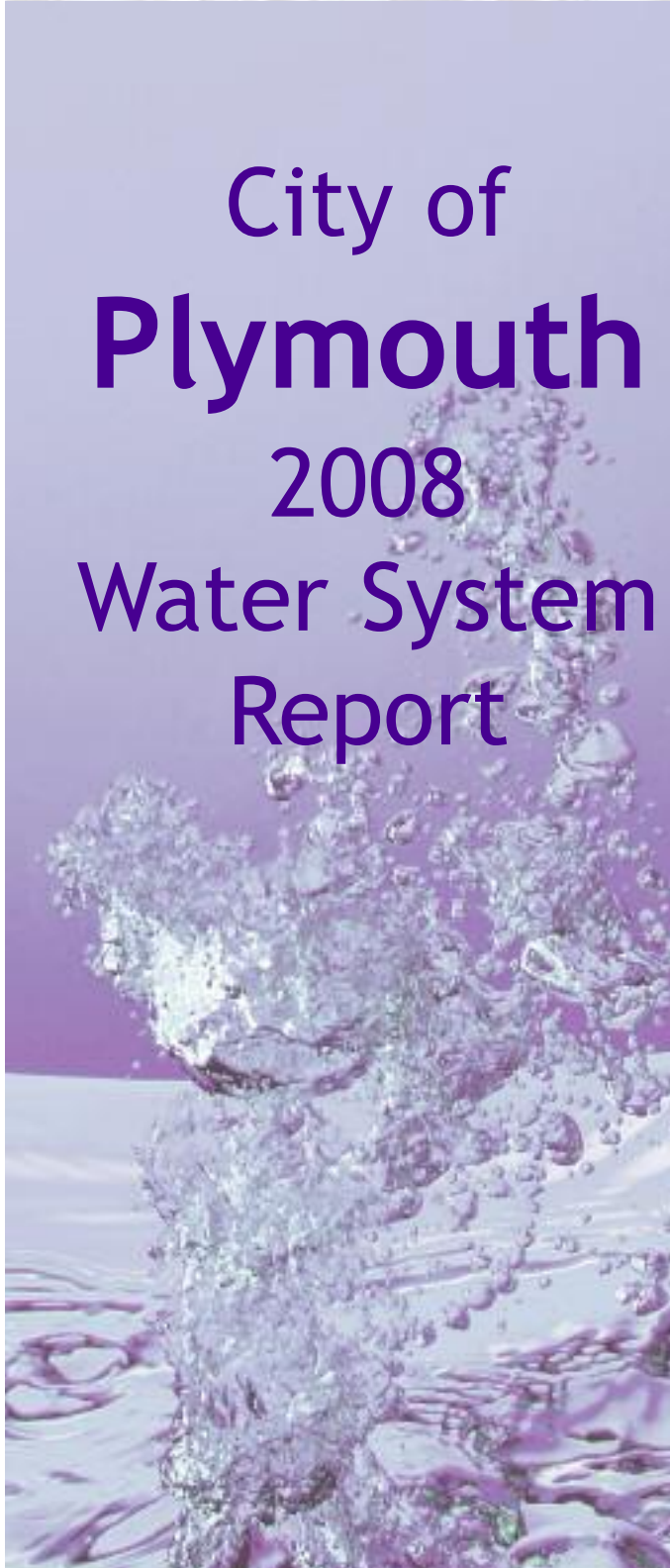
- Contact Information and Internet Resources**
- Environmental Protection Agency (EPA)  
(Safe Drinking Water Hotline) 800-426-4791  
[www.epa.gov/safewater](http://www.epa.gov/safewater)
  - Minnesota Department of Health (MDH)  
651-201-5000  
[www.health.state.mn.us/divs/eh/water](http://www.health.state.mn.us/divs/eh/water)
  - Minnesota Department of Natural Resources (DNR)  
651-296-6157  
[www.dnr.state.mn.us/waters](http://www.dnr.state.mn.us/waters)
  - American Water Works Association  
[www.awwa.org](http://www.awwa.org)



**City of Plymouth**  
3400 Plymouth Boulevard  
Plymouth, MN 55447-1482  
(763) 509-5000 TDD (763) 509-5065

Hours: M, W, Th, F, 8 a.m. - 4:30 p.m.  
Tues., 8 a.m. - 6 p.m.  
Website: [www.ci.plymouth.mn.us](http://www.ci.plymouth.mn.us)

\*\*\*\*\***ECRWSS**\*\*\*  
Postal Customer





This report includes the results of monitoring done on Plymouth's drinking water from January 1 to December 31, 2008. The purpose of this report is to help consumers better understand where their drinking water comes from and how it is monitored.

## Results of Monitoring

No contaminants were detected at levels that violated federal drinking water standards, however some contaminants were detected in trace amounts. The table shows the contaminants that were detected in trace amounts last year or in years prior. (Not all contaminants were sampled for in 2008).

The city of Plymouth monitors the levels of chlorine in your water once per week. It also test for the presence of coliform bacteria on a weekly basis.



## How to Read the Water Quality Table

The Level Found can be the highest amount found in the water or the average of all samples analyzed, depending on the regulation. If it is an average, it may contain sampling results from the previous year. If multiple samples were tested in 2008, the lowest and highest detected values are listed under Range of Detections.

**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 using the best available treatment technology.

**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.

**Action Level (AL):** The concentration of a contaminant, which if exceeded, triggers treatment or other actions by the water system provider.

**90th Percentile Level:** This is the value obtained after disregarding 10 percent of the samples take that had the highest percentile.

Unregulated substances do not have Maximum Contaminant Levels (MCL). They are assessed by comparing the detected amount to state standards known as health risk limits. If an unacceptable amount of any substance is ever found in Plymouth's water, the city of Plymouth will notify residents immediately and take corrective action to eliminate the problem.

**pCi/l:** picoCuries per liter (a measure of radioactivity)

**ppb:** parts per billion or micrograms per liter

**ppm:** parts per million or milligrams per liter

**MRDL:** Maximum Residual Disinfectant Level

**MRDLG:** Maximum Residual Disinfectant Level Goal

## Health Information from the EPA

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 water poses a health risk. For more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline at 1-800-426-4791. 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 from their health care providers about drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline.

## Monitored Substances

In general, sources of drinking water (both tap water and bottled water) may include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

**Microbial contaminants,** such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic contaminants,** such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

**Pesticides and herbicides,** which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.

**Organic chemical contaminants,** including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.

**Radioactive contaminants,** which can be naturally-occurring or the result of oil and gas production and mining activities.

## How Regulations Are Established

To ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

## Source Water Information

The city of Plymouth provides drinking water to its residents from a groundwater source. Plymouth has 14 wells ranging from 302 to 473 feet deep. They draw water from the Prairie Du Chien - Jordan and Prairie Du Chien Group aquifers.

The Minnesota Department of Health has determined that the sources used to supply your drinking water are not particularly susceptible to contamination. If you wish to obtain the entire source water assessment for your drinking water, call 651-201-4700. You can also view it online at: [www.health.state.mn.us/divs/eh/water/swp/swa](http://www.health.state.mn.us/divs/eh/water/swp/swa).

## Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The city of Plymouth is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing the tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).



## Results of Plymouth Water Testing

Detected Substance <i>Units of Measurement</i>	Test Date	MCL: Highest Amount Allowed	MCLG: No Health Risk	Level Found in Plymouth Water	Range of Detections	Typical Source of Substance in Drinking Water
<b>Fluoride</b> <i>ppm</i>	2008	4	4	1.1	0.99-1.1	Water additive which promotes strong teeth; erosion of natural deposits; aluminum and fertilizer factories.
<b>Haloacetic Acids (HAA5)</b> <i>ppb</i>	2008	60	—	5.1	—	By-product of drinking water disinfection.
<b>Total Trihalomethanes</b> <i>ppb</i>	2008	80	—	19.3	—	By-product of drinking water disinfection.
<b>Total Coliform Bacteria</b>	2008	> 5% present	0 present	1%**	—	Naturally present in the environment.
<b>Chlorine</b> <i>ppm</i>	2008	MRDL: 4	MRDLG: 4	0.32 = highest quarterly average	0.2-0.5 = highest and lowest monthly average	Water additive used to control microbes.
<b>Copper</b> <i>ppm</i>	2006	90% of samples must be below 1.3 ppm (AL)	—	90% < 1.23	3 out of 30 homes exceeded AL	Corrosion of household plumbing systems; erosion of natural deposits.
<b>Lead</b> <i>ppb</i>	2006	90% of samples must be below 15 ppb (AL)	—	90% < 3.0	0 out of 30 homes exceeded AL	Corrosion of household plumbing systems; erosion of natural deposits.
<b>Sodium</b> <i>ppm</i>	2007	No limit set	—	12.0	—	Erosion of natural deposits.
<b>Sulfate</b> <i>ppm</i>	2007	No limit set	—	16.2	—	Erosion of natural deposits.

\*\*Follow-up sampling showed no contamination present.