Essential water INFORMATION

The sources for all drinking water (both tap water and bottled water) 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 can pick up substances resulting from the presence of animals or human activity.

In the Tolt and Cedar water supplies, these potential contaminants may include:

- Microbial contaminants, such as viruses and bacteria, from wildlife
- Inorganic contaminants, such as salts and metals, which are naturally occurring
- Organic contaminants that are by-products of disinfection processes
- Radioactive contaminants that can be naturally occurring

All drinking
water, including
bottled water, may
reasonably
be expected to
contain at least
small amounts
of some
contaminant.
The presence of
contaminants

does not necessarily indicate that the water poses a health risk.

Cryptosporidium parvum (Crypto) is a disease-causing organism commonly found in the natural environment. Most rivers and streams across the country have detectable concentrations. Crypto sources include deer, elk, and voles in the watersheds. There have been no disease outbreaks associated with Seattle's drinking water. Chlorination is ineffective against Crypto; however, Seattle uses ozonation to disinfect water from the Tolt and Cedar water supplies. Ozonation is very effective at destroying Crypto and other microbes.

Source water monitoring in 2012 detected Cryptosporidium in none of the samples collected from either the Cedar or Tolt water supplies.

More information about contaminants and potential health effects can be obtained by calling the EPA Hotline at 1.800.426.4791.

Tax-free Utility Services

The Advantage of Special purpose districts

Northshore Utility District (NUD) is your local water service provider. For most ratepayers, NUD is also the local sewer service provider. Washington State uses special purpose districts to provide services to a greater degree than most states. In the statutes, the term "special purpose district" generally applies to any local government entity which is not a city, town, township, or county. Most special purpose districts are

purpose districts are
established to perform
specific functions. In the
case of NUD, it provides
only water and sewer
services. There are about

1,700 special purpose districts of various types in Washington. This figure varies depending on the reporting agency. By contrast, there are only 39 counties and 281 cities in the state.

Provide Services Where Needed

Special purpose districts can tailor services to citizen demand and concentrate on efficiently providing a select number of services. Many special purpose districts were borne of the belief that the "government that governs least, governs best." Washington values local government and the legislature created the tools that were needed to provide local services; there was no need to create a more complex and expensive organization if local residents only wanted, and needed, specific public services.

Linkage of Costs and Benefits

Special purpose districts can directly link costs to benefits. General purpose, local governments, such as cities and towns, levy general taxes to pay for an array of public services. Taxpayers often do not perceive that the services they receive are directly related to the amount of taxes they pay. In a special purpose district, generally only those who benefit from that district's services pay for them. There is a more direct correlation between funding and services received. Any operating surplus from NUD's operation can only go towards improving its water and sewer systems. There are no means to

divert our ratepayers' money for other uses. All income is received either as user fees from customers or connection fees from developers, Northshore Utility District receives no tax money.

Responsiveness

governs least,

governs best

Special purpose districts can be very responsive to their constituents because of their specific functions and focused services.

Accountability and Local Control

NUD is owned by its ratepayers who vote directly to elect their representatives to serve on the Board of Commissioners. The Board controls and governs all of the District's operations and fiscal functions. In the most recent Standard and Poor's report, NUD achieved the highest credit rating of AAA. The District's operations are further audited and reviewed each year by the Washington State Auditors who publish their audit findings for public review each year.

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2013 Northshore Utility District Annual Water Quality Report

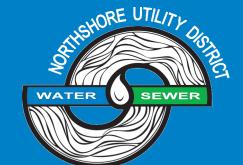
Published Data for 2012



OK HSHUKE UTILITY DISTR
O BOX 82489
ENMORE, WA 98028-0489
ww.nud.net

Don Ellis, President Board of Commissioners

Northshore Utility District is pleased to provide the 2013 Water Quality Report to you, our valued customer. This report contains information about the overall condition of our drinking water. We encourage you to take a few minutes to review the material in this report. At Northshore, we are committed to providing the highest quality drinking water possible. If you have any questions, comments or suggestions about the information contained within this report, please contact us at 425.398.4419.



Northshore Utility District is committed to providing the necessary services to the community in a safe, reliable, economical, and ecologically responsible manner

Dartners in conservation HOW MUCH WATER ARE WE USING?

In 2012, Northshore Utility District purchased just over 1.8 billion gallons of water. This is an increase of almost 10 million gallons in usage from the previous year. To help put this number into perspective, the increase when divided equally among all of the District's customers, is equivalent to each resident using less than half a gallon more of water per day than the previous year.

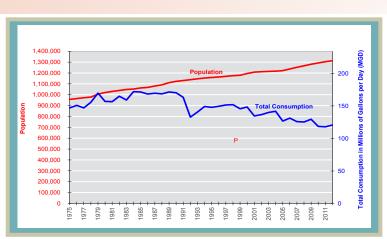
Of the 1.8 billion gallons of water purchased, the District experienced approximately 2.2% of unaccountable water loss in 2012. All water that is not specifically accounted for is considered to be distribution system leakage. Some examples of unaccounted for water include: theft of water, metering inaccuracies, distribution system breaks, and errors in data collection or calculations. To reduce leakage, Northshore Utility District routinely inspects older sections of the distribution system and replaces pipes that are prone to leakage and breaks.

To promote water conservation, Northshore Utility District partners with 18 other local utilities to form the *Saving* Water Partnership. In 2012, we saved an estimated 780,000 gallons per day as part of the Saving Water Partnership, which is enough water to supply 5,200 homes with water. In the past six years, we have collectively saved about 5.4 mgd (million gallons per day) toward our 2012 goal of nearly 6 mgd.

Since the beginning of the regional program in 2000, the program has achieved an estimated 11.7 mgd of savings.

For all the latest information on what you can do to conserve water, visit the District's website at www.nud.net.

Thank you for all you are doing to conserve water. It makes a difference!



Growth in **Population** and Water Consumption Seattle Regional Water System: 1975- 2012

Water conservation helps salmon too. The foundation for a healthy salmon run is a healthy habitat, meaning good water quality and flow. Your actions to conserve water, particularly in the summer and early fall when flows are lowest, help provide the habitat necessary for a healthy salmon population.



WATER QUALITY MONITORING RESULTS

Northshore Utility District provides safe, reliable, and affordable drinking water to approximately 69,000 people. Northshore's water system encompasses nearly 17 square miles within King County, extending from Lake Forest Park to the City of Woodinville, all of Kenmore and parts of Kirkland and Bothell.

In accordance with State and Federal standards, we continually monitor and test our drinking water. The following table lists the compounds that were detected in 2012. Out of the detected compounds, none were above EPA allowable limits.

	EPA's Allowable Limits		Cedar Water Levels		Tolt Water Levels		Meet USEPA Standards?		
Detected Compounds	Units	MCLG	MCL	Average	Range	Average	Range	Compliance	Typical Sources
RAW WATER									
Cryptosporidium	#100L	NA	NA	ND	ND	ND	ND	\checkmark	Naturally present in the environment
Total Organic Carbon	ppm	NA	TT	0.7	0.4 - 1.1	1.2	1.1 - 1.4	\checkmark	Naturally present in the environment
FINISHED WATER									
Turbidity	NTU	NA	TT	0.3	0.2 - 2.3	0.06	0.04 - 0.38	\checkmark	Soil runoff
Fluoride	ppm	4	4	8.0	0.7 - 0.9	0.8	0.7 - 0.9	\checkmark	Water additive, which promotes strong teeth
Barium	ppb	2000	2000	1.8	one sample	1.9	one sample	\checkmark	Erosion of natural deposits
Nitrate	ppm	10	10	0.02	one sample	0.13	one sample	\checkmark	Erosion of natural deposits
Cadmium	ppb	5	5	ND	one sample	0.35	one sample	\checkmark	Erosion of natural deposits
Chromium	ppb	100	100	0.2	one sample	0.2	one sample	\checkmark	Erosion of natural deposits
Haloacetic Acids (5)	ppb	NA	60	23	8 to 44	27	18 to 37	\checkmark	By-product of drinking water chlorination
Chlorine	ppm	MRDLG=4	MRDL=4	Averag	e = .905		e = .23 - .33	\checkmark	Water additive used to control microbes
Total Trihalomethanes	ppb	NA	80	34	18 to 51	38	21 to 70	✓	By-products of drink- ing water chlorination

100% of the samples from the Tolt Treatment Facility were below 0.3 NTU in 2012 ND - Non-Detected NA - Not Applicable TT -Treatment Technique

TABLE DEFINITIONS

MCLG: Maximum Contaminant Level Goal

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.

MCL: Maximum Contaminant Level

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.

NTU: Nephelometric Turbidity Unit

Turbidity is a measure of how clear the water looks. The turbidity MCL that applied to the Cedar supply in 2011 is 5 NTU, and for the Tolt it was 0.3 NTU for at least 95% of the samples in a month. 100% of the samples from the Tolt in 2011 were below 0.3 NTU.

TT: Treatment Technique

A required process intended to reduce the level of a contaminant in drinking water.

MRDLG: Maximum Residual Disinfectant Level Goal

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 contaminants.

MRDL: Maximum Residual Disinfectant Level

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.

Water Samples:

ppm: 1 part per million, or milligrams per liter = mg/L ppb: 1 part per billion, or micrograms per liter = ug/L 1 ppm = 1000 ppb

Your water WHERE DOES IT COME FROM?

Seattle Public Utilities (SPU) provides drinking water to over 1.3 million people in the Seattle metropolitan area. The Cedar River Reservoir and the South Fork Tolt River Reservoir supply almost all of SPU's water. These two surface water sources are located in remote, uninhabited areas of the Cascade Mountains An aggressive watershed protection program is strictly enforced; no agricultural, industrial or recreational activities are allowed.

Northshore Utility District's primary water source comes from the South Fork Tolt River Reservoir. Occasionally, Cedar River water is used, depending

on snow pack accumulations, drought conditions and the availability of water transmission lines. Both water sources receive chlorine disinfection, fluoride addition, pH adjustment and ozone treatment.

SPU provides high quality drinking water. In order to meet new water quality requirements and improve the overall reliability of the systems significant improvements have been made to the Tolt Filtration Plant and the Cedar Treatment Plant. For more information on these plants and other improvements, visit SPU's web site at www.ci.seattle.wa.us/util/.

Tolt River Watershed Facts:

12,500 acres in siz

Provides up to 100 nillion gallons of drinking water a

Can store up to 18.3 billion gallon of water

eet in elevation at the regulating at McLain Peak

etween 90 and 160 inches of precipitation a

Our source waters do not contain lead or copper. However, lead and copper can leach into residential water from building plumbing systems. Lead and copper monitoring, conducted at homes categorized as high risk, was most recently completed in 2012. Compliance is determined on a regional basis

Homes or buildings that were built or replumbed with copper pipes and lead-based solder prior to 1985 are considered "high risk." Lead solder was banned in King Count in 1985. "Worst case" conditions are defined as when water has not been used and has been sitting stagnant in the pipes for six hours or longer - such as first thing in the morning. The risk decreases as the plumbing ages. If you do not have copper plumbing, you are at low risk.

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 Northshore Utility District 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 your 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 http://www. epa.gov/safewater/lead.

The flushed water should not be consumed as it may contain dissolved metals. However, this water can be used for watering plants and washing dishes. If your home is not "high risk," you may still be at some risk from lead being leached from brass faucets.

Although we are not required to test for radon, Seattle Public Utilities, our water supplier, has tested each of its sources. Continued monitoring shows that radon is not present in either the Cedar or Tolt water supplies.

Lead and Copper Monitoring Program Results - Tolt Reservoir

Parameter & Units	MCLG	Action Level +	2012 Results *	# Homes Exceeding Action Level
Lead, ppb	0	15	6	0 of 53
Copper, ppm	1.3	1.3	0.16	0 of 53

Sources of Contamination: Corrosion of household plumbing systems

* 90th Percentile: i.e. 90 percent of the samples were less than the values shown

The concentration of a contaminant

1 ppm = 1000 ppb

MCLG - Maximum Contaminant Level Goal: 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.

ppm: 1 part per million, or milligrams per liter = mg/L ppb: 1 part per billion, or micrograms per liter = ug/L

ealth concerns ARE YOU AT RISK?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people 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 microbial contaminants are available from the Safe Drinking Water Hotline 800.426.4791.