

## 2017 CONSUMER CONFIDENCE REPORT - PARKWOOD WATER SYSTEM, ID 23191 7, ISLAND COUNTY

Valued Customer,

We are pleased to present this year's annual water quality report. The purpose of this report is to keep you informed of the continued safe and dependable supply of quality drinking water we provide to you. It is through our commitment to careful monitoring and continued improvement of the water distribution process and protection of your water resource that we ensure the quality of your water.

**The Parkwood water system is owned and operated by Iliad Water Company LLC. Iliad provides water services to 23 communities in Washington State.** To learn more please visit our website at [www@iliadnw.com/water/](http://www@iliadnw.com/water/). Your certified operators are Jared Hays and Jamin Udman. If you have any questions about your water system or this report contact our office Monday – Friday between the hours of 8:00am and 4:30pm by mail at 1107 S. Bailey St., Seattle WA 98108, email at [services@iliadnw.com](mailto:services@iliadnw.com), or by phone at 206-764-3345 / 800-928-3750. For emergencies after business hours please call our 800-928-3750 number.

**Your water source is a well that draws from a groundwater aquifer located on Lot 17.** The source name is S01. Activity is restricted to the area to minimize contamination of the well. The system is treated with chlorine for disinfection and ferric chloride for arsenic removal.

**The water supplied to you is routinely monitored by Iliad Water Company for contaminants in your drinking water according to Federal and State Laws.** The water quality information presented in the table below is from the most recent round of testing done according to regulations. All data shown was collected during the last calendar year, January 1<sup>st</sup> to December 31<sup>st</sup>, 2017, unless otherwise noted in the table. There were no water quality maximum contaminant level violations.

### GENERAL INFORMATION REQUIRED BY THE DEPARTMENT OF HEALTH

**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 pose a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA's) Safe Drinking Water Hotline (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 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 (1-800-426-4791).

**The sources of 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, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

#### **Contaminants that may be present in drinking water, including bottled water, and the sources of contamination:**

- **Microbial contaminants**, such as viruses, parasites, and bacterial that may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife.
- **Inorganic contaminants**, such as salts and metals, which can occur naturally or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming.
- **Pesticides and herbicides**, which may come from various sources such as agriculture, urban stormwater runoff, and resident uses.

- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- **Radioactive contaminants**, which can occur naturally or result from oil and gas production and mining activities.

**Department of Health (DOH) and EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems.** The Food and Drug Administration (FDA) and the Washington Department of Agriculture (AGR) regulations establish limits for contaminants in bottled water that must provide the same protection for public health. Website: Department of Health [www.doh.wa.gov](http://www.doh.wa.gov), U.S. Environmental Protection Agency [www.epa.gov](http://www.epa.gov), Food and Drug Administration [www.fda.gov](http://www.fda.gov), and Washington Department of Agriculture [www.agr.wa.gov](http://www.agr.wa.gov).

**Washington State Department of Health reduced the monitoring requirements for** Asbestos, Dioxin, Endothall, EDB and other soil fumigants, Glyphosphate, and Diquate because the sources are not at risk of contamination. The last sample collected for these contaminants were found to meet all applicable standards.

### SOURCE WATER PROTECTION TIPS

Protection of drinking water is everyone’s responsibility. You can help protect your community’s drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides.
- Dispose of chemicals properly, for example, take used motor oil to a recycling center.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Volunteer in your community. Find a watershed or wellhead protection organization you community and volunteer to help. If there are no active groups, consider starting one. Use the EPA’s Adopt Your Watershed to locate groups in your community, or their Information Network to find out how to start a watershed team.

### REQUIRED ADDITIONAL INFORMATION ON LEAD

In Washington State, lead in drinking water comes primarily from materials and components used in household plumbing. The more time water has been sitting in piped, the more dissolved metals, such as lead, it may contain. Elevated levels of lead can cause serious health problems, especially in pregnant women and young children.

To help reduce potential exposure to lead: for any drinking water tap that has not been used for 6 hours or more, flush water through the tap until the water is noticeably colder before using for drinking or cooking. You can use the flushed water for watering plants, washing dishes, or general cleaning. Only use water from the cold-water tap for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels of lead. If you care concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water is available from EPA’s Safe Drinking Water Hotline at 1-800-426-4791 or online at <http://www.epa.gov/safewater/lead>.

### IMPORTANT TERMS:

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

**TT (Treatment Technique):** A required process intended to reduce the level of a contaminant in drinking water.

**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.

**MCLG (Maximum Contaminant Level Goal):** The level of a contaminant in drinking water below which there is a known or expected risk to health. MCLGs allow for a margin of safety.

**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 Goal):** 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.

**Trihalomethanes (TTHM) and Haloacetic Acids (HAA5):** Form as by-products of the chlorination process that is used to kill or inactivate disease causing microbes.

**Turbidity:** A measurement of the amount of particulates in water in Nephelometric Turbidity Units (NTU). Particulates in water can include bacteria, viruses and protozoans that can cause disease. Turbidity measurements are used to determine the effectiveness of the treatment processes used to remove these particulates.

#### UNITS OF MEASURE

**mg/L (milligrams per Liter):** One part substance per liter of water. One milligram per liter is equal to one part per million (ppm).

**NA:** Not applicable

**ND:** Not detected

**NTU (Nephelometric Turbidity Units):** Measurement of the clarity, or turbidity, of water.

**pCi/L (Picrocuries per liter):** A measure of radioactivity.

**ppm (parts per million):** One part substance per million parts water (or milligrams per liter mg/l).

**ppb (parts per billion):** One part substance per billion parts water (or micrograms per liter ug/l).

**ug/L (Micrograms per Liter)**

**µS/cm (Siemens per cm)**

PARKWOOD WATER SYSTEM							
REGULATED SUBSTANCES							
WATER ANALYSIS DATA TABLE							
Substance	Typical Sources	Sample Date	Unit Meas.	Maximum Allowable (MCL)	Ideal Level/Goal (MCLG)	Level Detected	Comply? Y/N
Total Coliform Bacteria	Naturally present in the environment	Monthly	% Positive	5% per month	0	ND	YES
E-Coli	Human and animal fecal waste	Monthly	% Positive	5% per month	0	ND	YES
Total coliform bacteria testing is used to monitor microbial quality in the water distribution system. Iliad collects one coliform sample per month.							
INORGANIC (IOC) - Treatment							
Detected Contaminants							
Substance	Typical Sources	Sample Date	Unit Meas.	Maximum Allowable (MCL)	Ideal Level/Goal (MCLG)	Range of Levels Detected	Comply? Y/N
Arsenic	Erosion of natural deposits, runoff	Monthly	mg/L	0.01		0.001 - 0.0021	YES
The Washington State Department of Health has increased our monitor requirement for arsenic because we treat the source to remove arsenic. Above are the range of results for 2017. There were no MCL exceedances.							
INORGANIC (IOC)							
Nitrate-N	Erosion of natural deposits; leaching from septic tanks, sewage; runoff	7/11/2017	mg/L	10		ND	YES
The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, through representative, are more than one year old.							
HERBICIDES							
Detected Contaminants							
Substance	Typical Sources	Sample Date	Unit Meas.	Maximum Allowable (MCL)	Ideal Level/Goal (MCLG)	Level Detected	Comply? Y/N
2,4-D	Runoff from herbicide use	5/2010	ug/L	70		0.5	YES
2,4,5 TP (Silvex)	Residue of banned herbicide	5/2010	ug/L	50		1	YES
Pentachlorophenol	Discharge from wood preserving factories	5/2010	ug/L	1		0.2	YES
Dalapon	Runoff from herbicide use	5/2010	ug/L	200		5	YES
Dinoseb	Runoff from herbicide use	5/2010	ug/L	7		1	YES
Picloram	Herbicide runoff	5/2010	ug/L	500		0.5	YES
The Washington State Department of Health reduced the monitoring requirements for Herbicides and Pesticides because the source is not at risk of contamination. The last sample collected for these contaminants was taken on 5/19/2010 and was found to meet all applicable standards. The next round of testing will be in 2019.							
COMPLETE INORGANIC (IOC) S01							
Detected Contaminants							
Substance	Typical Sources	Sample Date	Unit Meas.	Maximum Allowable (MCL)	Ideal Level/Goal (MCLG)	Level Detected	Comply? Y/N
<b>EPA Regulated</b>							
Arsenic	Erosion of natural deposits, runoff	10/2015	mg/L	0.01		0.0020	YES
Barium	Erosion of natural deposits, discharge	10/2015	mg/L	2		0.0110	YES
Fluoride	Erosion of natural deposits, dental health additive	10/2015	mg/L	4		0.5	YES
<b>State Regulated</b>							
Sodium	Erosion of natural deposits	10/2015	mg/L			9.8	YES
Hardness	Hardness as calcium carbonate: calcium (121-180, hard)	10/2015	mg/L			95.4	YES
Electrical Conductivity	Ability of water to pass an electrical current	10/2015	Umhos/cm	700		251	YES
The Washington State Department of Health reduced the monitoring requirements for inorganic chemicals (IOCs) because the source is not at risk of contamination. The last sample collected for these contaminants was taken on 10/15/2015 and was found to meet all applicable standards. The next round of testing will be in 2024.							
RADIONUCLIDES S01							
None Detected.							
USEPA and state regulations require water systems to monitor for the presence of Gross Alpha, Gross Beta and Radium 228, known as radionuclides, every 6 years. The last samples collected for these contaminants was 10/15/2015 and was found to meet all applicable standards. The next round of testing will be in 2021.							
Volatile Organics (VOC) S01							
Tested for 61 substances. None Detected.							
The Washington State Department of Health reduced the monitoring requirements for volatile chemicals (VOCs) because the source is not at risk of contamination. The last sample collected for these contaminants was taken on 9/10/2012 and was found to meet all applicable standards. The next round of testing will be in 2018.							