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# VISTA VUE WATER USERS

## Public Water System #20226 X – Omak, Washington 2018 Consumer Confidence Report

This annual report is designed for consumers of drinking water within the Vista Vue Water Users Association (VV), and provides information about the quality, source, and potential health effects of contaminants in our local and source water systems. This report conforms to the Federal regulation, contained within the Safe Drinking Water Act, which requires that this information be provided annually. This report contains a summary of the water quality test results from the VV source water and distribution system. The data contained in this report was collected during or prior to 2017.

### Definitions

The following definitions may be used in this report:

**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.)

**AL** – *Action Level* (The level 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.)

**mg/L** – *milligrams per liter* (This unit is equivalent to measurements in parts per million.)

**ug/L** – *micrograms per liter* (This unit is equivalent to measurements in parts per billion.)

**pCi/L** – *picoCuries per liter* (A measurement of radioactivity.)

### Source Water

The source water for VV is supplied by a well (SO1) drilled 204 feet into an underground source of water, or aquifer. SO1 is located on the left side of Omak River Road, on property owned by the association at the northeast corner of the Vista Vue development. VV restricts any activity that could potentially contaminate this source.

The water from SO1 contains arsenic in levels above the established MCL of 10 ug/L. Typically, levels have averaged approximately 14-16 ug/L. In order to remove this contaminant, VV has been required to install an arsenic filtration system. Water percolates through two tanks containing an adsorption media that pulls the arsenic out of the water.

Source water tests are mandated by the Washington State Department of Health (DOH) to monitor the quality of the CLH source water. This provides information on the quality of the water that is being pumped from the aquifer. Further information about the VV source water can be found in the source water assessment, on file with the Department of Health and Alpine Environmental. The assessment evaluates the potential

risk of contamination that may be posed by activities or conditions in the area. For a copy of this information, contact Alpine Environmental at the numbers listed at the end of this report.

least one water sample per month is analyzed for the presence of coliform bacteria. In 2017, coliform bacteria were not detected in any of the 20 samples collected from the system.

### **Delivered Water**

VV is required to test for contaminants throughout the distribution system. Samples are collected from at least three residences throughout the system to satisfy the DOH sampling recommendations and to best represent the conditions existing in the system. At

Lead and copper testing is required every three years, with samples collected from homes throughout the system after the water has stood in the pipes for at least six hours. The table below summarizes the most recent lead and copper sampling results.

Substance Analyzed	Dates Collected	Contaminant Level	AL	MCLG	Unit of Measure	Passed
Lead (73 Vista Vue Rd)	9/7/16	No Detect	15	0	ug/L	Yes
Lead (71 Vista Vue Rd)	9/7/16	<b>3.03</b>	15	0	ug/L	Yes
Lead (37 Vista Vue Rd)	9/11/16	<b>1.18</b>	15	0	ug/L	Yes
Lead (13 Vista Vue Rd)	9/8/16	No Detect	15	0	ug/L	Yes
Lead (168 Engh Rd)	9/7/16	No Detect	15	0	ug/L	Yes
Copper (73 Vista Vue Rd)	9/7/16	<b>0.11</b>	1.3	1.3	mg/L	Yes
Copper (71 Vista Vue Rd)	9/7/16	<b>0.10</b>	1.3	1.3	mg/L	Yes
Copper (37 Vista Vue Rd)	9/11/16	<b>0.09</b>	1.3	1.3	mg/L	Yes
Copper (13 Vista Vue Rd)	9/8/16	<b>0.04</b>	1.3	1.3	mg/L	Yes
Copper (168 Engh Rd)	9/7/16	<b>0.16</b>	1.3	1.3	mg/L	Yes

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. VV 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 thirty seconds to two 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>.

### **Arsenic Testing**

In order to monitor the performance of the arsenic filtration system, VV must submit a water sample for testing each month. The running four-month average of treated water samples must meet the MCL. Results of the 2017 tests are presented below.

Date Collected	Contaminant Level	Running Average	MCL	MCLG	Unit of Measure	Passed
1/9/17	10.50	<b>8.67</b>	10	0	ug/L	Yes
2/22/17	7.30	<b>8.62</b>	10	0	ug/L	Yes
3/31/17	7.85	<b>8.77</b>	10	0	ug/L	Yes
4/3/17	8.59	<b>8.56</b>	10	0	ug/L	Yes
5/8/17	9.49	<b>8.31</b>	10	0	ug/L	Yes
6/20/17	7.79	<b>8.43</b>	10	0	ug/L	Yes
7/3/17	7.87	<b>8.44</b>	10	0	ug/L	Yes
8/21/17	9.72	<b>8.72</b>	10	0	ug/L	Yes
9/1/17	10.30	<b>8.92</b>	10	0	ug/L	Yes
10/3/17	7.49	<b>8.72</b>	10	0	ug/L	Yes
11/15/17	8.57	<b>9.02</b>	10	0	ug/L	Yes
12/18/17	5.72	<b>8.02</b>	10	0	ug/L	Yes

While your drinking water meets EPA’s standard for arsenic, it does contain low levels of arsenic. EPA’s standard balances the current understanding of arsenic’s possible health effects against the cost of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

### **Source Water Testing Summary**

The following tests were performed on the VV source water in or prior to 2017. These samples were collected from a sampling tap at the pump house, and represent the water served from the source.

Substance Analyzed	Date Collected	Detected Level	MCL	MCLG	Unit of Measure	Passed
<b>Inorganic Chemicals (IOC) – primary contaminants with health effects</b>						
Nitrate	8/21/17	No Detect	10	10	mg/L	Yes
Nitrite	6/21/10	No Detect	1	1	mg/L	Yes
Barium	6/21/10	<b>0.088</b>	2	2	mg/L	Yes
Cadmium	6/21/10	No Detect	5	5	ug/L	Yes
Chromium	6/21/10	<b>3.24</b>	100	100	ug/L	Yes
Mercury	6/21/10	No Detect	2	2	ug/L	Yes
Selenium	6/21/10	<b>1.00</b>	50	50	ug/L	Yes
Beryllium	6/21/10	No Detect	4	4	ug/L	Yes
Nickel	6/21/10	No Detect	100	100	ug/L	Yes
Antimony	6/21/10	No Detect	6	6	ug/L	Yes

Thallium	6/21/10	No Detect	2	0.5	ug/L	Yes
Cyanide	6/21/10	<b>0.68</b>	200	200	ug/L	Yes
Fluoride	6/21/10	<b>0.088</b>	4	4	mg/L	Yes
<b>Inorganic Chemicals (IOC) – secondary contaminants with taste, odor, color effects</b>						
Iron	6/21/10	<b>556</b>	300	N/A	ug/L	Yes
Manganese	6/21/10	<b>26.3</b>	50	N/A	ug/L	Yes
Silver	6/21/10	No Detect	100	N/A	ug/L	Yes
Chloride	6/21/10	<b>1.21</b>	250	N/A	mg/L	Yes
Sulfate	6/21/10	<b>94.1</b>	250	N/A	mg/L	Yes
Zinc	6/21/10	<b>0.005</b>	5	N/A	mg/L	Yes
Hardness	6/21/10	<b>556</b>	N/A	N/A	mg/L	Yes
<b>Volatile Organic Chemicals (VOC) – includes petroleum products and other chemicals</b>						
Total Trihalomethanes	9/1/17	<b>3.53</b>	Varies	Varies	ug/L	Yes
Haloacetic Acid	9/1/17	No Detect	Varies	Varies	ug/L	Yes
All other VOCs (62 contaminants tested)	4/15/13	No Detect or below MCL	Varies	Varies	--	Yes
<b>Synthetic Organic Chemicals (SOC) – includes pesticides and herbicides</b>						
All SOCs (73 contaminants tested)	4/20/15	No Detect	Varies	Varies	--	--
<b>Radioactivity</b>						
Radium	5/11/16	<b>0.83</b>	5	0	pCi/L	Yes
Gross alpha particles	5/11/16	No Detect	5	0	pCi/L	Yes

Some contaminants can have serious health implications if they are ingested in high quantities or over long periods of time. The table below provides information on those contaminants with potential health effects that were detected in your drinking water during or prior to 2017. While these contaminants were detected, they were at levels below the allowable limits set by the state, and therefore should not pose a health risk to most individuals. Your doctor can provide more information about any special concerns you may have regarding your drinking water and its effects on your health.

Contaminant	Known or likely source	Potential health effects
Arsenic	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.
Barium	Erosion of natural deposits; discharge from metal refineries; discharge of drilling wastes	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.

Contaminant	Known or likely source	Potential health effects
Chromium	Discharge from steel and pulp mills; erosion of natural deposits	Some people who drink water containing chromium well in excess of the MCL over many years could experience allergic dermatitis.
Copper	Erosion of natural deposits	Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.
Fluoride	Erosion of natural deposits; discharge from fertilizer and aluminum factories; water additive which promotes strong teeth	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Lead	Erosion of natural deposits; corrosion of household plumbing systems	Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.
Selenium	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines	Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with their circulation.
Trihalomethanes (TTHM)	By-product of drinking water disinfection.	Some people who drink water containing trihalomethanes in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

### WHAT DOES "NO DETECT" MEAN?

Many of the contaminants listed in the results tables show an analytical result of "No Detect." This does not mean that the contaminant was not present in the water, but that the concentration, if any, was undetectable with the analytical methods used.

### Community Involvement

Your involvement in the management of the VV water system is important to its long-term function. To participate or provide input with the VV water system, contact Ken Vanderstoep at (509) 826-3726.

This Consumer Confidence Report has been prepared by Alpine Environmental of Tonasket, Washington, serving north central Washington water systems since 2003. As your contract water operator, Alpine Environmental is proud to be providing you with the highest quality of service and oversight available. If you have any questions or comments regarding the information presented in this report, please call Alpine Environmental at (509) 826-1653 or (509) 322-0581.

## A MESSAGE FROM THE EPA

Throughout Washington State, 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. At the same time, this water can also pick up substances resulting from the presence of animals or from human activity.

All sources of 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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency (EPA) Safe Drinking Water Hotline at 1-800-426-4791. Contaminants that may be present in source water, and that are routinely tested for, 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 may result from urban storm water 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 agricultural and residential uses.

**RADIOACTIVE CONTAMINANTS**, which are naturally-occurring.

**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 storm water runoff, and septic systems.

In order to ensure that our water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in the water provided by your water system. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Washington State allows some contaminants to be monitored less than once per year because the concentration of these contaminants is not expected to vary significantly from year to year.

### **Additional Information**

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. The EPA and the Center for Disease Control (CDC) provides guidelines on appropriate methods to lessen the risk of infection by Cryptosporidium and other microbial contaminants, and this information is available from the EPA Safe Drinking Water Hotline at 1-800-426-4791.

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Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue-baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.