



HEY EVERYONE! PCJWSA IS NOW SERVING UP FRESHLY FILTERED HORN CREEK WATER! ENJOY YOUR GLASSFUL TODAY!

PCJWSA ANNUAL WATER QUALITY REPORT

June 2011

Volume 12, Issue 1

SUMMER IS COMING.
PLEASE REMEMBER
TO USE WATER
WISELY!

CALENDAR YEAR 2010 REPORT

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Coming Next Winter 2011/2012!

A new Utility Billing Program. Your new bill will be sent to you on an 8 1/2" x 11" statement in an envelope. Or, go paperless and pay your bill on-line or choose auto-pay at www.pcjwsa.com. More details to follow.

The PCJWSA Board of Directors meets the first Tuesday of every month at 5:00 PM in the Authority's office located at 34005 Cape Kiwanda Dr. Pacific City, Oregon. The public is invited to attend.

Call Tony Owen at 503-965-6636 with any questions you may have.

PCJWSA Directors:

Doug Kellow - Chair

Carolyn McVicker - Vice Chair

Dick Carter - Secretary

Anne Price - Director

Larry Rouse - Outgoing Director

Sean Lambert - Incoming Director

As you will see in the following pages, your drinking water is safe and meets Federal and State requirements. We have attempted to make this report as straightforward, easy to read and understandable as possible while still complying with Federal requirements for this report. The water quality test results in the following table reflects the latest data available from testing performed in 2011. At this time, regulations require PCJWSA to monitor for most substances once every 3 years

PCJWSA tests 2 water samples each month for total coliform in the distribution system. Annually, we test for nitrates, and every 3 years for lead and copper. Asbestos, which was not detected in our water, is tested once every nine years. In October of 2003 we tested our water for the presence of radioactive constituents as required by Federal

Regulations. There was only a slight detectable amount of radioactivity in the drinking water.

PCJWSA has been drawing it's water from two separate well fields that we refer to as the, "dune wells " and the "spit wells". So named because the "dune wells" are at the base of a large sand dune north of our office on Cape Kiwanda Drive, and "spit wells" because they are on the Nestucca State Spit at the end of Sunset Drive. "Spit" refers to a peninsula.

The two sites have 3 wells each, for a total of 6 wells. Each well produces water at the rate of about 100 gallons per minute. Well water is also referred to as groundwater.

Beginning on May 20, 2011, PCJWSA began supplying water to all of it's customers from the newly commissioned surface water sources, Horn Creek. Test results form Horn

Creek will be included in next year's annual report.

During a power outage, PCJWSA has emergency generators that can be connected to both well sites to ensure that water continues to flow to your tap and to the reservoirs.

If you have additional questions regarding this report, please contact PCJWSA at 503-965-6636. If you know of someone who did not receive a copy of this report and would like to, please let them know that they may pick one up at our office. We will also have additional copies available at the Post Office, Library and Kiawanda Community Center.

If you have questions about this report that we cannot adequately address, we will refer you to the Safe Drinking Water Hotline at 1-800-426-4791.



DEFINITIONS

In the following tables 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 or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per Liter (pCi/L) - picocuries is the measurement of radioactivity in water.

Action Level (AL) - the concentration of a 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.

PCJWSA tests for many different constituents in your drinking water. Almost 80 in all. We've shown only the results for those constituents that were detected in laboratory testing. If you would like to see the full range of lab results, please contact Tony Owen at 503-965-6636. In 2008, PCJWSA tested water from 10 homes for lead and copper levels in the drinking water. None of the homes that were tested exceeded the copper Action Level of 1.3 PPM. One home tested exceeded the Action Level for lead, which is set at 15.0 PPB. PCJWSA is in compliance with the lead and copper rule and now tests for them once every 3 years. With the

addition of Horn Creek, PCJWSA will test at 20 sites for those constituents. Infants and young children are typically more vulnerable to lead/copper in drinking water than the general public. It is possible that lead/copper levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead or copper levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline

at 1-800-426-4791. Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead/copper exposure. All potential sources of lead/copper in the household should be identified and removed, replaced or reduced. 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 mean that the water poses a health risk. More information about contaminants and potential health risks can be obtained by calling the Environmental Protection Agency's Safe

Drinking Water Hotline at 1-800-426-4791. Maximum Contaminant Levels (MCL's) are set at very stringent levels. To understand the possible health effects described for many 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. Through our testing and monitoring we have learned that some constituents do exist in our drinking water. However, your drinking water meets or exceeds all State and Federal requirements. Your drinking water is SAFE at the reported levels.



PACIFIC CITY JOINT WATER-SANITARY AUTHORITY

WATER QUALITY TEST RESULTS

Contaminant	Violation Y/N	Level Detected	Unit Measure	MCLG	MCL	Likely Source(s) of Contamination	
Inorganic Contaminants							
Arsenic (Spit Wells only) April 1, 2011	N	3.5	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	
Nitrate Spit Wells Only April 1, 2011	N	0.3	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits	
Combined Uranium Oct. '03	N	0.1	pCi/L	0	30	Erosion of natural deposits	
LEAD AND COPPER TESTING 2008							
Substance	Units	Goal	Action Level(AL)	90th Percentile	Exceeds Action Level	Complies	Source of Contaminant
Copper	ppm	1.3	1.3	0.72	0	Y	Corrosion of household plumbing
Lead	ppb	0	15	6.3	0	Y	Corrosion of household plumbing

The 90th percentile is the highest result found in 90% of the samples when they are listed in order from the lowest to the highest. EPA requires testing for lead and copper at customers' taps most likely to contain these substances based on when the house was built. The EPA determined that if the sample results exceeded the Action Level (AL), cities must take action in reducing the risk of leaching of lead and copper. As you can see by the table above, no homes exceeded the 90th percentile during testing performed in 2008. Our next testing is scheduled for the summer of 2011.

"If present, elevated levels of lead can cause serious health problems, especially for pregnant woman and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. PCJWSA 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 water 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>."

Copper. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short period of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Sodium— EPA does not have a MCL for sodium in drinking water, but EPA does issue a recommended level of 20 PPM. The analysis for sodium at the Dune Wells showed levels at 30.0 PPM and at the Spit Wells, 40.3 PPM. People on low sodium diets may need to make adjustments to their diet in order to compensate for the sodium levels in their drinking water. Horn Creek sodium level was 8.84 mg/l.

Sulfate—The MCL for sulfate is 250 PPM. Sulfate at the Dune Wells was 5.57 PPM. Spit Wells—4.66 PPM.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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 for 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 at 1-800-426-4791.



Dune Wells and Spit Wells Source Water Assessment

The following information is provided to PCJWSA customers as required by the EPA and Oregon Drinking Water Program

The 1996 Amendments to the Safe Drinking Water Act require that all States conduct Source Water Assessments for public water systems within their boundaries. The assessments consist of: 1. Identification of the Drinking Water Protection Area, which is comprised of the area at the surface that is directly above that part of the aquifer that supplies groundwater to our wells; 2. Identification of **potential** sources of pollution within the Drinking Water Protection Area and; 3. Determining the susceptibility or relative risk to the well water from those **potential** contamination sources.

The purpose of the assessment is to provide water systems with the information they need to develop a strategy to protect their drinking water resource if they choose. The Oregon Drinking Water Program and Environmental Quality have completed the assessment for the PCJWSA system, a copy of which is on file at our office located at 34005 Cape Kiwanda Dr. in Pacific City.

The following information is provided to PCJWSA customers as required by the EPA and Oregon Drinking Water Program

PCJWSA Source Water Assessment Report

The PCJWSA water system draws water from the fine sands of the Dune Sand Aquifer. Assessment results indicate the water system is highly susceptible to a contamination event inside the identified Drinking Water Protection Area. The presence of several high and moderate risk **potential** contamination sources within the Protection Area was confirmed through a **potential** contamination source inventory.

Under a, “worse-case” scenario, where it is assumed that nothing is being done to protect groundwater quality at the identified **potential** contamination sources, the assessment results indicate the water system would be highly susceptible to the identified high and moderate risk **potential** contamination sources. In addition, the assessment results indicate that, at this time, the water system is susceptible to viral contamination.



Horn Creek Site May 2008.

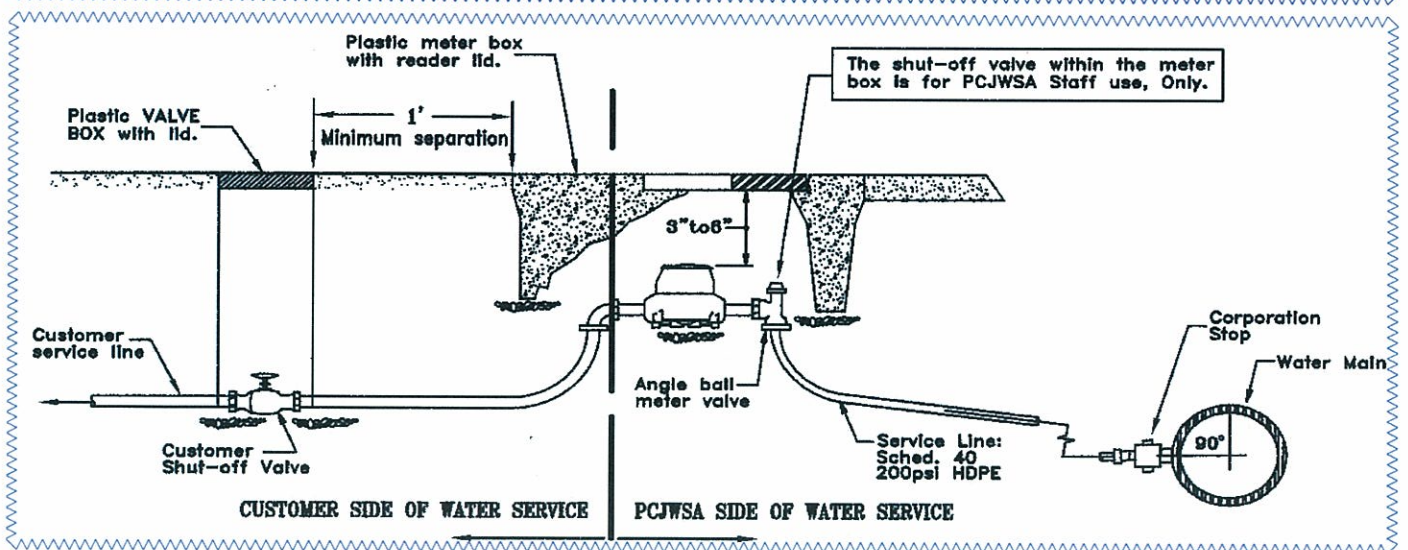


Horn Creek Site May 2011

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THE PACIFIC CITY JOINT WATER-SANITARY AUTHORITY ANNUAL WATER QUALITY REPORT



Depicted above is a standard PCJWSA water meter installation. Everything to the right of the line separating the PCJWSA side of the meter from the customer side is owned and operated by PCJWSA. That includes the meter shut-off valve which PCJWSA typically locks in either the "open" or "closed" position depending on the situation. That valve is only to be operated by PCJWSA staff. The meter shut-off valve is not intended for customer use. PCJWSA encourages all customers to install their own shut-off valve just downstream of the meter. Then, you can turn your water off when ever you want. Otherwise, please call PCJWSA for assistance to shut-off the meter.