2018 Consumer Confidence Report

Water System Name:

AEROPINES

Report Date:

February 25, 2019

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2018 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Aeropines a 1110 Civic Center Boulevard #102, Yuba City, CA 95993 para asistirlo en español.

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

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 are set by the U.S. Environmental Protection Agency (U.S. EPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): 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.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

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

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

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. whi* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

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 source water include:

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that 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, that 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, that are byproducts of industrial
 processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural
 application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

| Contaminants (complete if bacteria detected) | Highest No. of Detections | No. of Months in Violation | MCL | MCLG | Typical Source of Bacteria |
|---|---------------------------|-------------------------------|---------------------------|-----------------------|-------------------------------|
| Total Coliform Bacteria state Total Coliform Rule) | (In a month) 2* | 0 | 1 positive monthly sample | 0 | Naturally present in the |
| Fecal Coliform or E. wli (state Total Coliform Rule) | (In the year) 1* | 0 | A souting county | Human and animal feca | |
| E. wli (federal Revised Total Coliform Rule) | (In the year) 1* | 0 | (a) | 0 | Human and animal feca |

(a) Routine and repeat samples are total coliform-positive and either is E. whi-positive or system fails to take repeat samples following E. whi-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. whi-

| Lead and Copper (complete if lead or copper detected in the last sample set) | Sample Date | No. of Samples Collected | 90 th Percentile Level Detected | No. Sites Exceeding AL | AL | PHG | No. of Schools Requesting Lead Sampling | Typical Source of |
|--|----------------|--------------------------------|--|------------------------------|-----|-----|---|---|
| Lead (ppb) | 8/30/16 | 5 | 1.05 | 0 | 15 | 0.2 | | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; |
| Copper (ppm) | 8/30/16 | 5 | 0.8345 | 0 | 1.3 | 0.3 | Not applicable | erosion of natural deposits Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |

| IADLE 3 | - SAMPLING R | ESULIS FUR | SODIOM A | ND HAKD | NE35 |
|----------------|--|--------------------------|-------------------------------------|--------------------------------------|---|
| Sample Date | Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant |
| 5/2/18 | 18.9 (AN) 19.5 (BA) | N/A | None | None | Salt present in the water and is generally naturally occurring. |
| 5/2/18 | 222 (AN) 223 (BA) | N/A | None | None | Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring. |
| ECTION C | F CONTAMIN | ANTS WITH A | PRIMARY | DRINKIN | G WATER STANDARD |
| Sample Date | Level Detected | Range of Detections | MCL [MRDL] | PHG (MCLG) [MRDLG] | Typical Source of Contaminant |
| 4/2/18 | 0.73 (AN) 0.88 (BA) | N/A | 6 | 1 | Erosion of natural deposits; runoff from orchards; glass and electronics production wastes. |
| 4/2/18 | 0.66 (AN) 0.64 (ВЛ) | N/A | 50 | (100) | Discharge from steel and pulp mills and chrome plating; crosion of natural deposits. |
| 4/2/18 | 0.67 (AN) 1.57 (BA) | N/A | 100 | 12 | Erosion of natural deposits; discharg from metal factories. |
| 4/2/18 | 0.47 (AN) 0.49 (BA) | N/A | 10 | 10 | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits. |
| 4/2/15 | 1.26 (AN) 0.613 (BA) | N/A | 15 | (0) | 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. |
| As required | 1.24 | 0-1.6 | [MRDL = 4.0 (as Cl ₂)] | [MRDLG = 4 (as Cl ₂₎ | Drinking Water disinfectant added for treatment |
| CTION OF | CONTAMINAL | NTS WITH A S | ECONDAR | Y DRINKI | NG WATER STANDARD |
| Sample Date | Level Detected | Range of Detections | SMCL | PHG (MCLG) | Typical Source of Contaminant |
| 5/2/18 | 5.7 (AN) ND (BA) | N/A | 200 | N/A | Erosion of natural deposits; residual from some surface water treatment processes. |
| 5/2/18 | 0.015 (AN) 0.012 (BA) | N/A | 1.0 | N/A | Internal corrosion of household plumbin systems; erosion of natural deposits; leaching from wood preservatives. |
| 5/2/18 | 71.6 (AN) 50.9 (BA) | N/A | 300 | N/Λ | Leaching from natural deposits; industrial wastes. |
| 1 | 85.64 (AN) 82.69 (BA) | N/A | 50 | N/A | Leaching from natural deposits. |
| | 566 (BA) | | 1600 | | Substances that form ions when in water; seawater influence. |
| <u> </u> | 1.4 (BA) | | | | Soil Runoff |
| | 293 (BA) | | | | Runoff/leaching from natural deposits. |
| | 2.650 (BA) | | | | Runoff/leaching from natural deposits; industrial wastes. |
| | 7.19 (BA) | | | | Runoff/leaching from natural deposits; industrial wastes. Runoff/leaching from natural |
| | 5.27 (BA) | | | | deposits; seawater influence. |
| TABLE 6 | - DETECTION | OF UNREGU | LATED CO | NTAMINA | ANTS |
| | | | | ٠, | |
| | Sample Date 5/2/18 5/2/18 5/2/18 ECTION C Sample Date 4/2/18 4/2/18 4/2/18 4/2/18 4/2/18 4/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 5/2/18 | Sample Date Detected | Sample Date Detected Detections | Sample Detected Detections MCL | Date Detected Detections M.L. (MCLG) |

Additional General Information on Drinking Water

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.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. U.S. EPA/Centers for Disease Control (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).

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. AEROPINES 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 do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. 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 (1-800-426-4791) or at http://www.epa.gov/lead.

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

| Violation | Explanation | Duration | Actions Taken to Correct the Violation | Health Effect |
|---|---|-------------------------|--|-----------------|
| Raw water bacteriological testing | The Aeropines distribution system is continuously disinfected and tested monthly. Raw water from both wells is also being tested monthly. The raw water sampling showed total coliform bacteria present during the first 3 months of 2018 and there was 1 <i>E.coli</i> positive sample in February 2018. | 01/2018 thru 12/2018 | The Bryan Allen well has been taken off-line and the Aeropines Board is in the process of finding a new site to drill replacement wells. | Language N/A |

For Water Systems Providing Groundwater as a Source of Drinking Water

| FECA | TABLE LINDICATOR | 7 – SAMPLING POSITIVE GR | RESULTS OUNDWA | SHOWING TER SOUR | CE SAMPLES |
|--|----------------------------|-----------------------------|-------------------|--------------------------|-------------------------------|
| Microbiological Contaminants (complete if fecal-indicator detected) | Total No. of Detections | Sample Dates | MCL [MRDL] | PHG (MCLG) [MRDLG] | Typical Source of Contaminant |
| E. æli | (In the year) | 2/2/2018 | 0 | (0) | Human and animal fecal waste |
| Enterococci | (In the year) 0 | N/A | TT | N/A | Human and animal fecal waste |
| Coliphage | (In the year) 0 | N/A | т | N/A | Human and animal fecal waste |

Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Groundwater TT

| SPECIAL | NOTICE OF FECAL IND | ICATOR-POSITIVE | GROUNDWATER SOURCE S | SAMPLE |
|-------------------------|---|-------------------------|---|----------------------------|
| wastes. Microbes in the | se wastes can cause short- ose a special health risk for | term effects, such as d | water may be contaminated wi iarrhea, cramps, nausea, headac en, some of the elderly, and peo | hes, or other |
| S | PECIAL NOTICE FOR U | NCORRECTED SIG | NIFICANT DEFICIENCIES | |
| None | | | | |
| | VIOLAT | TION OF GROUND | VATER TT | |
| TT Violation None | Explanation | Duration | Actions Taken to Correct the Violation | Health Effects Language |
| | | | | |

Summary Information from the Source Water Assessment Completed in April 2001

| No contan | nants have been detected in the water supply, however, the source is considered most vulnerable to the tivities: Septic Systems – low density (both wells). |
|-------------------------|--|
| A copy of Marysville | ne complete assessment may be viewed at Yuba County Environmental Health, 915 8th Street, Suite 123 |
| | ou may request a summary of the assessment be sent to you by contacting: Jodi Bird at (530) 749-5450 or jbird@co.yuba.ca.us |