2016 Consumer Confidence Report

Water System Name: Mi Wuk Village Mutual Water Company Report Date: April 2017

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 ending December 31, 2016. Este informe contiene información muy importante sobre su aqua potable.

Tradúzcalo ó hable con alguien que lo entienda bien.

[This report contains important information about your drinking water.

Translate it, or speak with someone who understands it.]

Type, **name** & general location of water source(s) in use: Our water source is ground water from three hard rock wells located on the west side of Mi Wuk Village (typically used in fall, winter and spring) or surface water from the Main Tuolumne Ditch (off South Fork Road in Twain Harte) that we purchase from Tuolumne Utilities District (typically used in summer).

Drinking Water Source Assessment information: Source water assessments for all sources were completed in May of 2003. A complete copy may be viewed at the Mi Wuk Village Mutual Water Company office or you may request a summary from the chief operator. All the Wells are considered most vulnerable to golf courses, high density housing, high density septic systems, transportation corridors (freeways/State highways), water supply wells, historic gas stations, automobile body shops, and machine shops not associated with any detected contaminants. Well 3 is additionally considered most vulnerable to machine shops and drinking water treatment plants associated with contaminants detected in the raw well water. The Main Tuolumne Ditch is considered most vulnerable to historic waste dumps/ landfills and electrical/electronic manufacturing associated with any detected with any detected in the raw water, and managed forests and historic gas stations not associated with any detected contaminants. Although these activities exist in areas near one or more of Mi Wuk Village Mutual Water Company's sources, physical barriers, treatment systems and monitoring programs are in place to ensure that water supplied to our customers is not adversely affected.

Time and place of regularly scheduled board meetings for public participation: The fourth Friday of each month at 9:30 a.m. in our office.

TERMS USED IN THIS REPORT

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 by-products 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 USEPA 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.

The following Tables 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.

| SAN | SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER | | | | | | ER |
|-----------------|---|--------------------------------|---|------------------------------|-----|-----|--|
| Lead and Copper | Sample Date | No. of samples collected | 90 th percentile level detected | No. sites exceeding AL | AL | РНС | Typical Source of Contaminant |
| Lead (ppb) | 2014 | 10 | 8 | 0 | 15 | 0.2 | Internal corrosion of household water plumbing systems; erosion of natural deposits |
| Copper (ppm) | 2014 | 10 | .025 | 0 | 1.3 | 0.3 | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |

| | SAMPL | ING RESUL | TS FOR SODIUM AN | D HARDNE | 55 | |
|---|---------------------------------|--|--|--------------------------------------|--------------------------|---|
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected at Ditch | Level and Range of Detections at Wells | MCL | PHG (MCLG) | Typical Source of Contaminant |
| Sodium (ppm) | Ditch: 2016 Wells: 2014 | 1.3 | 7.0 (5.7-7.7) | none | none | Salt present in the water and is generally naturally occurring |
| Hardness (ppm) | Ditch: 2016 Wells: 2014 | 54.6 | 48.6 (48.0-49.9) | none | none | Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring |
| DETECTI | ON OF CONT | AMINANTS | WITH A PRIMARY | ORINKING \ | NATER ST. | ANDARD |
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected at Ditch | Level and Range of Detections at Wells | MCL [MRDL] | PHG (MCLG) [MRDLG] | Typical Source of Contaminant |
| Aluminum (ppm) | Ditch: 2016 Wells: 2014 | 0.14 | ND | 1 | 0.6 | Erosion of natural deposits |
| Nitrate (ppm) | Ditch: 2016 Wells: 2016 | ND | 1.7 (1.0-2.7) | 10 (as N) | 10 (as N) | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits |
| TTHMs [Total Trihalomethanes] (ppb) | Distribution System: 2016 | Running Annual Average and Range 28.2 (4.7-86.0) | | 80 (Running Annual Average) | n/a | By-product of drinking water chlorination |
| HAA5s [Haloacetic Acids] (ppb) | Distribution System: 2016 | Running Annual Average and Range 24.1 (0.0-87.0) | | 60 (Running Annual Average) | n/a | By-product of drinking water chlorination |
| Chlorine (ppm) [40 samples] | Distribution System: 2016 | Average and Range 0.80 (0.20-1.21) | | [4.0 (as Cl2)] | [4 (as Cl2)] | Drinking water disinfectant added for treatment |

| DETECTION OF CONTAMINANTS WITH A <u>SECONDARY</u> DRINKING WATER STANDARD | | | | | | |
|---|----------------------------|-------------------------------|---|------|---------------|---|
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected at Ditch | Level and Range of Detections at Wells | MCL | PHG (MCLG) | Typical Source of Contaminant |
| Color (CU) | Ditch: 2016 Wells: 2014 | 10 | < 3 | 15 | n/a | Naturally- occurring organic materials |
| Iron (ppb) | Ditch: 2016 Wells: 2014 | 480* | ND | 300 | n/a | Leaching from natural deposits |
| Manganese (ppb) | Ditch: 2016 Wells: 2014 | 78.0* | ND | 50 | n/a | Leaching from natural deposits |
| Turbidity (NTU) | Ditch: 2016 Wells: 2014 | 3.6 | < 0.05-0.09 | 5 | n/a | Soil runoff |
| Total Dissolved Solids (ppm) | Ditch: 2016 Wells: 2014 | 84 | 85 (81-88) | 1000 | n/a | Runoff/leaching from natural deposits |
| Specific Conductance (µmho/cm) | Ditch: 2016 Wells: 2014 | 27 | 101 (96-105) | 1600 | n/a | Substances that form ions when ir water |
| Chloride (ppm) | Ditch: 2016 Wells: 2014 | 2.9 | 2.7 (2.4-3.1) | 500 | n/a | Runoff/leaching from natural deposits |
| Sulfate (ppm) | Ditch: 2016 Wells: 2014 | 0.8 | < 2.0 | 500 | n/a | Runoff/leaching from natural deposits |

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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. USEPA/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).

Lead-Specific Language for Community Water Systems: 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. Mi Wuk Village Mutual Water Company 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. [Optional: 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 (1-800-426-4701) or at http://www.epa.gov/lead.

Summary Information for Violation of a MCL

Iron and Manganese MCL Violations in the raw ditch water: Iron was found at levels that exceed the secondary MCL of 300 μ g/L. Manganese was found at levels that exceed the secondary MCL of 50 μ g/L. The iron and manganese MCLs were set to protect you against unpleasant aesthetic effects (e.g., color, taste, and odor) and the staining of plumbing fixtures (e.g., tubs and sinks) and clothing while washing. The high iron and manganese levels are due to leaching of natural deposits.

For Systems Providing Surface Water as a Source of Drinking Water

| SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES | | | | |
|--|---|--|--|--|
| Treatment Technique ^(a) (Type of approved filtration technology used) | Conventional Filtration and Disinfection | | | |
| | Turbidity of the filtered water must: | | | |
| Turbidity Performance Standards ^(b) | 1 – Be less than or equal to 0.3 NTU in 95% of measurements in a month. | | | |
| (that must be met through the water treatment process) | 2 - Not exceed 1.0 NTU for more than eight consecutive hours. | | | |
| | 3 - Not exceed 5.0 NTU at any time. | | | |
| Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1. | 100.0 % | | | |
| Highest single turbidity measurement during the year (3120 measurements taken) | 0.17 | | | |
| Number of violations of any surface water treatment requirements | None | | | |

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

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

Please share the information in this report with all the other people who drink this water, especially those who may not have received this report directly (for example, people in apartments and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

If you have any questions, please contact Mike Magill at (209) 586-3304, or stop by our office at 24377 Lama Road to talk to him.