2021 Consumer Confidence Report

WELL 05

Water System Name: **LANARE PUBLIC WATER SYSTEM** Report Date: 2021

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 - December 31, 2021 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse LANARE PUBLIC WATER SYSTEM a 559-935-2300 para asistirlo en español.

Type of water source(s) in use: Ground water

Name & general location of source(s): Well 05 is located in the SE corner of the community center property at 20620 S. Grantland in Lanare. There are 2 standby wells located on the property. Well 03 is located in the NW corner. Well 02 is located in the SW corner.

Drinking Water Source Assessment information: The sources are considered most vulnerable to the following activities not associated with any detected contaminants: septic systems - low density [<1/acre], and agricultural/ irrigation wells. There have been no associated contaminants detected in the water supply, however the source is still considered vulnerable to activities located near the drinking water source. Naturally occurring arsenic is present in the groundwater at levels above the maximum contaminant level.

Time and place of regularly scheduled board meetings for public participation: 2nd Saturday each month at 6PM at the 20620 S. Grantland Lanare, Ca 93656.

For more information, contact: Danielle Roberts - President Phone: (559) 240-3442

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 (USEPA).

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.

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. coli* 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)

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

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 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.

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.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
E. Coli	0	0	(a)	0	Human and animal fecal waste

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

TABLE 1.A. - COMPLIANCE WITH TOTAL COLIFORM MCL BETWEEN JANUARY 1, 2021 AND JUNE 30, 2021 (INCLUSIVE)

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	1 positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform and E.coli	0	0	0	None	Human and animal fecal waste

(a) For systems collecting fewer than 40 samples per month: two or more positively monthly samples is a violation of the total coliform MCL. For violation of the total coliform MCL, include potential adverse health effects, and actions taken by water system to address the violation**:** [Enter information]

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER								
Lead and Copper (complete if lead or copper detected in the last sample set)	**Sample Date**	**No. of Samples Collected**	**90th Percentile Level Detected**	**No. Sites Exceeding AL**	**AL**	**PHG**	**No. of Schools Requesting Lead Sampling**	**Typical Source of Contaminant**
Lead (ppb)	8/27/2020	10	0	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	8/27/2020	10	0.054	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS						
Chemical or Constituent (and reporting units)	**Sample Date**	**Level Detected**	**Range of Detections**	**MCL**	**PHG (MCLG)**	**Typical Source of Contaminant**
Sodium (ppm)	2021	210	NA	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2021	7.8	NA	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	**Sample Date**	**Level Detected**	**Range of Detections**	**MCL [MRDL]**	**PHG (MCLG) [MRDLG]**	**Typical Source of Contaminant**
Radioactive Contaminants						
Gross Alpha (pCi/L) Well 03 STANDBY	2019	0.275	0- 0.824	15	0	Erosion of natural deposits
Gross Alpha (pCi/L) Well 05 ACTIVE	2019	1.032	0-3.66	15	0	Erosion of natural deposits
Radium 228 (pCi/L) Well 03 STANDBY	2019	0.256	0- 0.439	5	0	Erosion of natural deposits
Radium 228 (pCi/L) Well 05 ACTIVE	2019	0	N/A	5	0	Erosion of natural deposits
Inorganic Contaminant						
Aluminum (mg/L)	2021	0.075	NA	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Fluoride (ppm)	2021	1.7	NA	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Disinfection Byproducts						
Total Trihalomethanes (ug/l)	2021	120	ND-240	80	NA	Byproduct of drinking water disinfection
Volatile Organic Contaminant						
Benzene (ug/L) Well 03 STANDBY	2019	1.2	0.53-3.1	1	0.15	Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and landfills
Benzene (ug/L) Well 05 ACTIVE	2021	0	0	1	0.15	Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and landfills

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD.						
Chemical or Constituent (and reporting units)	**Sample Date**	**Level Detected**	**Range of Detections**	**MCL**	**PHG (MCLG)**	**Typical Source of Contaminant**
Color (units)	2021	48.75	35-60	15	N/A	Naturally-occurring organic materials
Manganese (ug/L)	2021	16	NA	50	N/A	Leaching from natural deposits
Turbidity ((NTU)	2021	.73	NA	5	N/A	Soil runoff
Total Dissolved Solids (TDS) mg/L	2021	530	NA	1000	N/A	Runoff/Leaching from natural deposits
Specific Conductance (uS/cm)	2021	940	N/A	1600	N/A	Substances that form ions when in water, seawater influence
Chloride(ppm)	2021	120	NA	500mg/L	N/A	Runoff/leaching from natural deposits, seawater influence
Aluminum (ug/L)	2021	75	75	1000	200	Erosion of natural deposits; residual from some surface water treatment processes
Iron (Fe) (ug/L)	2021	43	0.00-130	300ug/L	N/A	Leaching from natural deposits; industrial wastes
Sulfate (mg/L)	2021	0.31	NA	500 mg/L	.2	Runoff/leaching from natural deposits: industrial wastes

TABLE 6 - DETECTION OF UNREGULATED CONTAMINANTS					
Chemical or Constituent (and reporting units)	**Sample Date**	**Level Detected**	**Range of Detections**	**Notification Level**	**Health Effects**
Calcium (mg/L)	2021	2.8	NA	NA	NA
Magnesium (mg/L)	2021	.22	NA	NA	NA

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).

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. Lanare Public Water System 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 (1-800-426-4701) or at http://www.epa.gov/lead.

State Revised Total Coliform Rule (RTCR): Enter Additional Information Described in Instructions for SWD CCR Document.

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

TABLE 7. VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	**Explanation**	**Duration**	**Actions Taken to Correct the Violation**	**Health Effects Language**
Color	**Naturally-occurring organic materials**	**Ongoing**	**Chlorination to manage color**	**None**
Total Trihalomethanes	**Byproduct of drinking water disinfection**	**4-2021 to 10-2021**	**Discontinued the use of chlorine to manage the color and smell complaints in order to reduce the TTHMS. Returned to compliance in November 2021**	**Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.**

For Water Systems Providing Groundwater as a Source of Drinking Water

TABLE 8. SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLES					
Microbiological Contaminants (complete if fecal-indicator detected)	**Total No. of Detections**	**Sample Dates**	**MCL (MRDL)**	**PHG (MCLG) (MRDLG)**	**Typical Source of Contaminant**
E. coli	0	2021	0	(0)	Human and animal fecal waste
Enterococci	0	2021	TT	N/A	Human and animal fecal waste
Coliphage	0	2021	TT	N/A	Human and animal fecal waste