

# 2022 Consumer Confidence Report

## Best Road MWC, CA3500823

### June 22, 2023

#### Water System Information

- *Type, Name, and General Location of Water Source(s) in Use:* The water system is served by two (2) well located along John Smith Road, Hollister. Well 01 has been off-line since 2020.
- *Drinking Water Source Assessment Information:* An Assessment conducted in 2002 found Well 01 to be most vulnerable to the following activities associated with contaminants detected in the water supply: Septic systems-low density (<1/acre). The source is considered most vulnerable to the following activities not associated with any detected contaminants: Crops, non-irrigated (Christmas trees, grains, grass seed, hay); transportation corridors-Roads/Streets; and Wells 01 and 02 are considered most vulnerable to the following activities not associated with any detected contaminants – Storm water detention facilities. Although outside of the 10yr zone of influence, there is a landfill located approximately 1 mile from the wells. This landfill could have long term effects on water quality in the area. A complete assessment may be viewed by contacting: Best Road MWC
- *Time and Place of Regularly Scheduled Board Meetings for Public Participation:* Monthly meetings are the 2<sup>nd</sup> Thursday of every month at 7P. See the website for more information ([www.brmwc.com](http://www.brmwc.com))
- *For More Information, Contact:* MCSI Water Systems Management at (831) 659-5360

#### About This Report

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, 2022 and may include earlier monitoring data.

#### Important Information About This Report:

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse MCSI Water Systems Management [Best Road MWC] a (831) 659-5360 para asistirlo en español.

#### Terms Used in This Report

Term	Definition
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).
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.
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.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
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.
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)
pCi/L	picocuries per liter (a measure of radiation)

## Sources of Drinking Water and Contaminants that May Be Present in Source Water

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.

## Regulation of Drinking Water and Bottled Water Quality

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

## About Your Drinking Water Quality

### Drinking Water Contaminants Detected

Tables 1, 2, 3, and 4 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 Detection for Lead and Copper**

Lead and Copper	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	9/2022	5	3	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/2022	5	0.915	1	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**Table 2. Sampling Results for Sodium and Hardness (Well 01/Well 02)**

Chemical or Constituent (Reporting units)	Sample Date	Level Detected (Average)	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2022/2020	(274)	222 - 352	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2022/2020	(243)	231 – 255	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

**Table 3. Detection of Contaminants with a Primary Drinking Water – Source (Well 01/Well 02)**

Chemical or Constituent (Reporting units)	Sample Date	Level Detected (Average)	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
*Arsenic (µg/L) [Distribution - Greensand Treats Well 01 & Well 02]	2022	*(13.3)	ND – 24.9	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (mg/L)	2022/2020	(0.158)	--	1	2	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Fluoride (mg/L)	2022/2020	(0.15)	ND – 0.3	2.0	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (mg/L)	2022/2020	(0.3)	ND – 0.6	10 (as N)	10 (as N)	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Gross Alpha Particle Activity (pCi/L)	09/2014	(2.7)	--	15	(0)	Erosion of natural deposits

**Table 3a. Detection of Contaminants with a Primary Drinking Water Standard - Distribution**

Chemical or Constituent (Reporting units)	Sample Date	Level Detected (Average)	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
TTHM (Trihalomethanes) (µg/L) Running Annual Average, <b>RAA</b>	2022	(44)	10 - 115	80	NA	Byproduct of drinking water disinfection
HAA5 (Sum of 5 Haloacetic Acid) (µg/L) Running Annual Average, <b>RAA</b>	2022	(6)	ND - 22	60	NA	Byproduct of drinking water disinfection
*Chlorine Residual (mg/L)	2022	(0.31)	ND – 0.8	[4.0] [as Cl <sub>2</sub> ]	[4 as Cl <sub>2</sub> ]	Drinking water disinfectant added for treatment

\*Chlorine residuals are performed in the field in conjunction with Coliform Bacteria Monitoring using a field test kit

**Table 4. Detection of Contaminants with a Secondary Drinking Water Standard**

Chemical or Constituent (Reporting units)	Sample Date	Level Detected (Average)	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (mg/L)	2022/2020	(216)	180 - 252	500	NA	Runoff/leaching from natural deposits; seawater influence
Iron (µg/L) <b>Treatment*</b>	2022	(48.3)	ND - 758	300	NA	Leaching from natural deposits; industrial wastes

<i>Manganese (µg/L)</i> <b>Treatment*</b>	2022	(89.5)*	ND – 801*	50	NA	Leaching from natural deposits
Odor (Units)	2022/2020	(1)	ND - 2	3	NA	Naturally-occurring organic materials
<b>*Specific Conductance (µS/cm)</b>	2022/2020	(1530)	1384 – 1676*	1600	NA	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	2022/2020	(68)	40 - 95	500	NA	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids [TDS] (mg/L)	2022/2020	(863)	746 - 980	1000	NA	Runoff/leaching from natural deposits
Turbidity (Units)	2022/2020	(0.925)	0.15 – 1.7	5	NA	Soil runoff
*Specific Conductance exceeds the Secondary MCL of 1600ppm. Iron at Well 01 exceeds the Secondary MCL of 50µg/L There are no PHGs, MCLGs, or mandatory standard health effects language for this constituent because secondary MCLs are set based on aesthetic concerns.						

### 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 healthcare 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:** 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. Best Road MWC 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 an MCL, MRDL, AL, TT

1. Best Road MWC is currently under a Compliance Order, **Compliance Order No. 02\_05\_16R\_005**, which was issued on Nov. 4, 2016, for an Arsenic MCL violation and is monitoring the source monthly and the Distribution system weekly. While the annual running average is above the MCL. The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The U.S. Environmental Protection Agency 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. Some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory system problems and may have an increased risk of getting cancer.
2. Best Road MWC is currently under a Compliance Order, **Compliance Order No. 02\_05\_18R\_002**, which was issued on April 13, 2018, for noncompliance with Surface Water Treatment Filtration Technology Requirements. Best Road MWC has been working with an engineering firm to build a treatment system to satisfy the requirements under the Compliance Order. Well 01 was not online in 2021.

3. Best Road MWC received a Citation, No. 02\_05\_22C\_055 which requires monitoring for specific contaminants on a regular basis. The results of regular monitoring are an indicator of whether or not your drinking water meets health standards. In June 2022, Best Road MWC did not complete all monitoring for coliform bacteria, and therefore, cannot be sure of the quality of your drinking water during that time". During that period and under the direction of the SWRCB-DDW, Best Road was under a Boil Order. See Level 1 & Level 2 Assessment Requirements and actions taken. The Water System has been negative for Total Coliforms and *E.coli* since August 2022.

### Level 1 & Level 2 Assessment Requirements

**Coliforms** are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct an assessment(s) to identify problems and correct any problems found during these assessments.

**E. coli** are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. We found *E. coli* bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct an assessment(s) to identify problems and correct any problems found during these assessments.

### **What Happened and Corrective Actions:**

When Well 02 was taken offline for cleaning due to Iron Bacteria and Well 01 (Groundwater Under the Direct Influence of Surface Water) was placed in service. The water system was placed on a Boil Water Notice as a precautionary measure. Chlorination was increased for disinfection and to mitigate the elevated levels of Hydrogen Sulfide in Well 01. This caused complications with the Iron and Manganese removal Plant sending elevated levels of Manganese throughout the distribution system. When Well 02 was placed back in service and Well 01 taken offline, Well 02 tested positive for *E.coli*. Well 02 was disinfected several times to eliminate any remaining bacteria, both Total Coliform and *E.coli*. With Well 02 back online and chlorine dosing lowered, the Treatment Plant corrected itself and Manganese levels have been less than the MCL of 50µg/L.

### **\*Manganese above the sMCL (50µg/L) and below the Health Advisory (HA) limit (300µg/L)**

- Manganese exceeded the sMCL of 50µg/L for all 4 quarters in 2022.
- Thousand Trails San Benito Preserve has been blending Wells B & C to ensure the levels remain below the HA limit of 300µg/L
- Manganese exposures greater than 500µg/L resulted in neurological effects. High levels of manganese in people have been shown to result in adverse effects on the nervous system.