# 2020 Consumer Confidence Report

## Water System Information

Water System Name: White Fence Farms Mutual Water Co.

Report Date: June 2021

Type of Water Source(s) in Use: Ground Water and treated Surface water

Name and General Location of Source(s): Well 2B – Lancaster

Well 3B - Palmdale

Drinking Water Source Assessment Information: Well 2B – December 2001 – Well 2B is considered most vulnerable to activities not associated with contaminants detected in water supply: Metal, plating/finishing/fabricating, hardware/lumber/parts stores, and fertilizer/pesticide application. The source is also considered most vulnerable to the following activities: Automobile, gas stations, septic systems (high density<1 acre) and transportation corridors.

Drinking Water Source Assessment Information: Well3B – February 2008 – Well 3B is considered most vulnerable to the following activities not associated with any detected contaminants: Septic systems (high density <1 acre) and transportation corridors,

Time and Place of Regularly Scheduled Board Meetings for Public Participation: First Tuesday of each month at 6:30pm.

For More Information, Contact: Brindi Hall at 661-943-3316

## 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, 2020 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse White Fence Farm Mutual Water Co. a 41901 20th St. West Palmdale CA 93551 para asistirlo en español.

## Terms Used in This Report

| **Term** | **Definition** |
| --- | --- |
| 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. |
| 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. |
| Variances and Exemptions | Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions. |
| ND | Not detectable at testing limit. |
| ppm | parts per million or milligrams per liter (mg/L) |
| ppb | parts per million or milligrams per liter (mg/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) |

## 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, 4, 5, 6, and 8 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** |
| --- | --- | --- | --- | --- | --- |
| Total Coliform Bacteria (State Total Coliform Rule) | 0 | 0 | 1 positive monthly sample (a) | 0 | Naturally present in the environment |
| Fecal Coliform or *E. coli* (State Total Coliform Rule) | 0 | 0 | A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or *E. coli* positive | None | Human and animal fecal waste |
| *E. coli* (Federal Revised Total Coliform Rule) | 0 | 0 | (b) | 0 | Human and animal fecal waste |

(a) Two or more positive monthly samples is a violation of the MCL

(b) Routine and repeat samples are total coliform-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 sample for *E. coli*.

Table 2. Sampling Results Showing the Detection of Lead and Copper

| **Lead and Copper** | **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) | 8/28/18 | 10 | 0 | 0 | 15 | 0.2 | 0 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| Copper (ppm) | 8/28/18 | 10 | .28 | 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)  Well 2B  Well 3B | 9/10/19  6/4/19 | 140  84 | 110-150  81-94 | None  None | None  None | Salt present in the water and is generally naturally occurring |
| Hardness (ppm)  Well 2B  Well 3B | 9/10/19  6/4/19 | 300  330 | 260-320  310-350 | None  None | 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** |
| Nitrate (ppm) Well 2B  Nitrate (ppm) Well 3B  Arsenic (ppb) Well 2B | 12/8/20  Jan-Dec 2020  Jan-Dec 2020 | 4.7  6.2  9.0 | 4.7  ND-7.5  7.6-9.6 | 10  10  10 | 2.0  2.0  .004 | Run off and leaching from fertilizer use: leaching from septic tanks and sewage,erosion of natural deposits  Erosion of natural deposits:run off from orchards,glass & electronics production wastes |
| Uranium (pCi/L) Well 2B  Well 3B  Gross Alpha  Well 2B  Well 3B  TTHM (ppb)  HAA5 (ppb)  Hexavalent  Chromium (ug/L)  Well2B  Well3B | 12/8/20  6/4/19  6/4/19  12/8/20  Jan-Dec 2020  Jan-Dec 2020  9/10/19  3/28/17 | 6.3  1.2  ND  4.5  12.53  6.63  2.7  4.2 | 6.3  1.2  ND  4.5  5.0-15.7  3.3-9.7  2.7  3.3-5.1 | 20  20  15  15  80  60  No MCL  No MCL | 10  10  15  15  1.0  1.0  No PHG  No PHG | Erosion of natural deposits  Erosion of natural deposits  Byproduct of drinking water disinfection  Byproduct of drinking water disinfection  Discharge from electroplating,factories,leather tanneries,chemical synthesis,refractory production and textile manufacturing facilities,erosion of natural deposits |
| Fluoride Well2B  Well 3B  Perchlorate Well2B  Well 3B | 9/10/19  6/4/19  9/10/19  Jan-Dec 2020 | .34  .22  ND  ND | .34  .22  ND  ND | 2.0  2.0  6  6 | 0.1  0.1  4.0  4.0 | Erosion of natural deposits,water additive which promotes strong teeth,discharge from fertilizer and aluminum factories  Perchlorate is an inorganic chemical used in solid rock propellant,fireworks,explosives,flares,matches,and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that use,store,or dispose of perchlorate and its salts |

Table 5. Detection of Contaminants with a Secondary Drinking Water Standard

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Chemical or Constituent (and reporting units)** | **Sample Date** | **Level Detected** | **Range of Detections** | **SMCL** | **PHG (MCLG)** | **Typical Source**  **of**  **Contaminant** |
| Chloride (ppm) Well 2B  Chloride (ppm) Well 3B  Sulfate (ppm) Well2B  Sulfate (ppm) Well 3B  TDS Well 2B  TDS Well 3B  Specific Conductance (E.C) Well 2B  Specific Conductance (E.C) Well 3B | 9/10/19  6/4/19  9/10/19  6/4/19  Jan-Dec 2020  Jan-Dec 2019  Jan-Dec 2020  Jan-Dec 2019 | 87  74  250  160  740  647.5  1200  992.5 | 87  74  250  160  730-750  540-720  1200  870-1100 | 500  500  500  500  1000  1000  1600  1600 | 10.  1.0  .05  .05  1000  1000  1600  1600 | Run off/leaching from natural deposits; seawater influence  Run off from natural deposits; seawater influence  Naturally occurring organic materials  Substances that form ions when in water; seawater influence |

Table 6. Detection of Unregulated Contaminants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Chemical or Constituent (and reporting units)** | **Sample Date** | **Level Detected** | **Range of Detections** | **Notification Level** | **Health Effects Language** |
| Vanadium (ppb) Well 2B  Well 3B  Boron (ppm)  Well 2B | 9/10/19  6/4/19  9/10/19 | 14  5  170 | 14  14  170 | 50  50  1.0 | Vanadium exposures have resulted in developmental and reproductive effects in rats.  Boron exposures have resulted in decreased fetal weight (developmental effects) in newborn rats. |

### 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: 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. White Fence Farms Mutual Water Co. 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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

Additional Special Language for Nitrate: Nitrate in drinking water at levels above 10mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant’s blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10mg/L may also affect the ability of blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Additional Special Language for Arsenic: While your drinking water meets the federal and state standards for arsenic, it does contain low levels of arsenic. 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.

### 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 Reporting Requirement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Violation** | **Explanation** | **Duration** | **Actions Taken to Correct Violation** | **Health Effects Language** |
| Arsenic Violation Well 2B | Due to a water main break in the Ave. M freeway overpass in December 2018, Well 2B was shut down, decreasing the volume of pumping, and resulting in the arsenic concentration level to rise higher than the required MCL. **This violation affected only the customers east of the freeway.** | March 2019- June 2020 | Notifications were sent to the affected customers every quarter the arsenic was above the MCL. Well 2B has been pumping normal volumes of water since September 2019 while White Fence Farms has been exploring different corrective actions. Per the Division of Drinking Water’s Compliance order, a form of treatment must be installed and operational by August 2021 | 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 |

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### 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 |  | 0 | (0) | Human and animal fecal waste |
| Enterococci | 0 |  | TT | N/A | Human and animal fecal waste |
| Coliphage | 0 |  | TT | N/A | Human and animal fecal waste |

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

|  |
| --- |
| **Special Notice of Fecal Indicator-Positive Groundwater Source Sample:** NONE |

|  |
| --- |
| **Special Notice for Uncorrected Significant Deficiencies:** NONE |

Table 9. Violation of Groundwater TT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Violation** | **Explanation** | **Duration** | **Actions Taken to Correct Violation** | **Health Effects Language** |
| Not Applicable |  |  |  |  |

### For Systems Providing Surface Water as a Source of Drinking Water

Table 10. Sampling Results Showing Treatment of Surface Water Sources

|  |  |
| --- | --- |
| Not Applicable |  |
| Turbidity Performance Standards (b) (that must be met through the water treatment process) | Turbidity of the filtered water must:  1 – Be less than or equal to \_\_\_ NTU in 95% of measurements in a month.  2 – Not exceed \_\_\_ NTU for more than eight consecutive hours.  3 – Not exceed \_\_\_ NTU at any time. |
| Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1. |  |
| Highest single turbidity measurement during the year |  |
| Number of violations of any surface water treatment requirements |  |

(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.

### Summary Information for Violation of a Surface Water TT

Table 11. Violation of Surface Water TT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Violation** | **Explanation** | **Duration** | **Actions Taken to Correct Violation** | **Health Effects Language** |
| Not Applicable |  |  |  |  |

### Summary Information for Operating Under a Variance or Exemption

None

### Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

#### Level 1 or Level 2 Assessment Requirement not Due to an *E. coli* MCL Violation

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 assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct 0 Level 1 assessment(s).

During the past year 0 Level 2 assessments were required to be completed for our water system.

#### Level 2 Assessment Requirement Due to an *E. coli* MCL Violation

*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 assessment(s) identify problems and to correct any problems that were found during these assessments.

We were not required to complete a Level 2 assessment because we found no *E. coli* in our water system.