2015 Consumer Confidence Report

| Water System Name: CITY OF FIREBAU | GH Repor | rt Date: JUNE 15, 2016 |
|--|--|---|
| We test the drinking water quality for many constitute results of our monitoring for the period of January | 1 2 | v e |
| Este informe contiene información muy importentienda bien. | tante sobre su agua potable. | Tradúzcalo ó hable con alguien que lo |
| Type of water source(s) in use: 6 GROUND W | ATER WELLS | |
| Name & general location of source(s): WELLS | #13, #15, #16 SERVE WATE | ER TREATMENT SITE #1 |
| WELLS #11, #12 AND #17 SERVE WATER TR | EATMENT SITE #2 | |
| | | |
| Drinking Water Source Assessment information: | produce water for the City of conducted on July 1st, 2002 completed September 2012 | rveys for Wells #11, #12 and #13 which of Firebaugh Water System was A source water assessment survey was for Wells #15 and #16. The State Water vision of Drinking Water is currently assessment for Well #17 |
| | working on the source water | assessment for Weil #1/ |
| The source is considered most vulnerable to the formula surface water bodies, automobile-gas stations and well #12 The source is considered most vulnerable to the formula surface water bodies, automobile-gas stations and well #13 The source is considered most vulnerable to the formula surface water bodies, automobile-gas stations, land density >1 acre. Well #15 The source is considered most vulnerable to the formula surface water bodies automobile-gas stations, land density >1 acre. Well #15 The source is considered most vulnerable to the formula surface water bodies. The source is considered most vulnerable to the formula surface is considered most vulnerable to the formula surface surface water supply: Airports-maintenance fueling areas, automobile-gas stations. Well #17 Not completed | septic systems-high density > sollowing activities not associated septic systems-high > 1 acre. Sollowing activities not associated dfill/dumps, waste water treated sollowing activities associated who belowing activities not associated who belowing activities associated who below the sollowing activities associated who activities associated who below the sollowing activities associated who act | l acre. red with any detected contaminates: red with any detected contaminates: ment plants and septic systems-higher with contaminates detected in the water red with any detected contaminates: with contaminates detected in the water -repair shops, fleet/truck/bus terminals, |
| Time and place of regularly scheduled board meet | ings for public participation: | 1 st and 3 rd Mondays of each month at 6:00 pm. Location: Firebaugh Community Center 1655 13 th Street Firebaugh Ca. 93622 |
| For more information, contact, Audinary Ol | io Di | one. (550) 650 2042 |
| For more information, contact: Anthony Chavarr | ia Ph | one: (559) 659-2043 |

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.

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.

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)

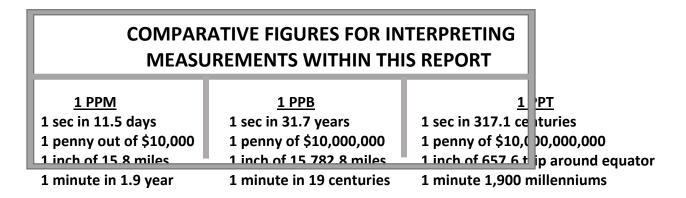
The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick 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 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, 7, 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.



| Microbiological Contaminants (complete if bacteria detected) | Highest No. of Detections | No. of months in violation | | MCL | | MCLG | Typical Source of Bacteria |
|--|---------------------------|----------------------------|---|--|--|---------------|---|
| Total Coliform Bacteria | 0 | | | More than 1 sample in a month with a detection | | 0 | Naturally present in the environment |
| Fecal Coliform or E. coli | 0 | 0 | | A routine sar repeat sample total coliforn sample also coliform or E | e detect n and either detects fecal E. coli | 0 | Human and animal fecal waste |
| TABLE 2 | - SAMPLIN | G RESUI | TS SHOW | ING THE | DETECTIO | ON OF LEA | D AND COPPER |
| 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 | Typical Source of Contaminant |
| Lead (ppb) | 7/23/2015 | 20 | 8.1 | 1 | 15 | 0.2 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| Copper (ppm) | 7/23/2015 | 20 | .17 | 0 | 1.3 | 0.3 | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| | TABLE 3 | – SAMPL | ING RESU | JLTS FOR S | SODIUM A | ND HARD | NESS |
| Chemical or Constituent (and reporting units) | Sample Date | Level Detecte | | Range of etections | MCL | PHG (MCLG) | Typical Source of Contaminant |
| Sodium (ppm) | 2014/16 | 115.33 | | 82 -150 | none | none | Salt present in the water and is generally naturally occurring |
| Hardness (ppm) | 2014/16 | 179.66 | 5 | 78 -260 | none | none | Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring |

*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

| TABLE 4 – DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD | | | | | | | |
|---|----------------|-------------------|------------------------|---------------|--------------------------|--|--|
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | MCL [MRDL] | PHG (MCLG) [MRDLG] | Typical Source of Contaminan | |
| Arsenic (PPB) Treatment Site #1 Treatment Site #2 | 2015 2015 | 6.63 .33 | 3.4 – 13 N/D – 2.6 | 10 | .004 | Erosion of natural deposits: runof from orchards: glass and electronics products wastes. | |
| Barium (PPM) | 2014 | 0.139 | .0762 | 1 | 2 | Discharge of oil drilling waste and from metal refineries: erosion of natural deposits | |
| Chlorine (PPM) Distribution system residuals | 2015 | .86 | .78 – 1.13 | 4 | 4 | Drinking water disinfectant added for treatment. | |
| Fluoride | 2014 | .05 | N/D24 | 2 | 1 | Some people who drink water containing fluoride in excess o the federal MCL of 4 mg/L over | |
| | | | | | | many years may get bone disease, including pain and tenderness of the bones. Children who drink water containing fluoride in excess o the state MCL of 2 mg/L may get mottled teeth. | |
| Gross Alpha (pCi/L) | 2011 | 4.81 | N/D - 8.61 | 15 | N/A | Decay of natural and man-made deposits | |
| Selnium (PPB) | 2014 | 1.98 | N/D – 4.5 | 50 | 30 | Discharge from petroleum, glass and metal refineries: erosion of natural deposits: discharge from mines and chemical manufacturers | |
| Turbidity (NTU) | 2014 | .723 | N/D – 1.4 | 5 | N/A | Soil runoff | |
| Radium 226 (pCi/L) | 2011 | 2.51 | N/D – 5.08 | 5 | .05 | Some people who drink water containing radium 226 or 228 in excess of the MCL over many yea may have an increase chance of getting cancer | |
| Radium 228 pCi/L) | 2015 | .807 | .615 – 1.0 | 5 | .019 | Some people who drink water containing radium 226 or 228 in excess of the MCL over many yea may have an increase chance of getting cancer | |
| TTHM (PPB) Total Trihalomethane | 2015 | 60.5 | 56 – 65 | 80 | N/A | Some people who drink water containing trihalolmethanes in excess of the MCL over many yea may experience liver, kidney, or central nervous system problems, and may have increased risk of getting cancer | |
| Haloacetic Acid (PPB) | 2015 | 10.5 | 10 – 11 | 60 | N/A | Some people who drink water containing haloacetic acids in excess of the MCL over many year may have an increased risk of getting cancer | |

| TABLE 5 – DETE | CTION OF | CONTAMINA | NTS WITH A <u>S</u> I | ECONDAR | <u>Y</u> DRINKIN | IG WATER STANDARD |
|--|----------------|----------------|--------------------------|--------------------|------------------|--|
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant |
| Color (Units) | 2014 | 5 | N/D – 10 | 15 | N/A | Natural occurring organic materials. |
| Conductivity (Umhos/cm) | 2014 | 893 | 890 – 1000 | 1600 | N/A | Substances that form ions when in water: sea water influence |
| Chloride (PPM) | 2014 | 151.5 | 89 - 180 | 500 | N/A | Runoff/leaching from natural deposits: seawater influence |
| Iron (PPB) Treatment Site #1 Treatment Site #2 | 2015 | 6.7 27 | N/D - 150 N/D -790 | 300 | N/A | Leaching from natural deposits: industrial wastes |
| Manganese (PPB) Treatment Site #1 Treatment Site #2 | 2015 | 4.38 2.48 | N/D - 79 N/D - 29 | 50 | N/A | Leaching from natural deposits |
| Odor (Units) | 2014 | 0.75 | N/D - 2 | 3 | N/A | Natural occurring organic materia |
| Sulfate (PPM) | 2014 | 83.8 | 57 – 120 | 500 | N/A | Runoff/Leaching from natural deposits: industrial wastes |
| Total Dissolved Solids (PPM) | 2014 | 536.6 | 390 – 590 | 1000 | N/A | Runoff/leaching from natural deposits |
| ` , | TABLE | 6 – DETECTIO | N OF UNREGU | LATED CO | NTAMINA | NTS |
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | Notification Level | | Health Effects Language |
| Chlorate (PPB) Freatment Site #2 (raw) Distribution System | 2013 2013 | 1222 715 | 944 – 1500 431 - 1000 | 800 | | EPA does not have health effects language at this time. |

^{*}Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

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. 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. 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. [INSERT NAME OF UTILITY] 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 or at http://www.epa.gov/lead.

For systems that detect Arsenic above 5 ppb but below 10 ppb the following language is required;

While your drinking water meets the federal and state standard 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

| VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT | | | | | | | |
|---|---|--|--|--|--|--|--|
| Violation | Explanation Duration Actions Taken to Correct the Violation Health Effects Language | | | | | | |
| none | | | | | | | |
| | | | | | | | |

For Water Systems Providing Ground Water as a Source of Drinking Water

| TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES | | | | | | | |
|--|---|--|----|-----|------------------------------|--|--|
| Microbiological Contaminants (complete if fecal-indicator detected) Total No. of Detections Sample Dates MCL [MRDL] (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 Ground Water Source Samples, Uncorrected Significant Deficiencies, or Ground Water TT

| SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLE |
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| SPECIAL NOTICE FOR UNCORRECTED SIGNIFICANT DEFICIENCIES |
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| | VIOLA | TION OF GROUND W | ATER TT | |
| TT Violation | Explanation | Duration | Actions Taken to Correct the Violation | Health Effects Language |
| | | | | |
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