2014 Consumer Confidence Report

Water System Name: CITY O	F FIREBAUGH	Report Date: J	JUNE 1 ST 2015
We test the drinking water quality f the results of our monitoring for the			
Este informe contiene información entienda bien.	a muy importante sobre su a	gua potable. Tradúzca	alo ó hable con alguien que lo
Type of water source(s) in use: 5	GROUND WATER WELLS		
Name & general location of source(WELLS #11 & #12 SERVICE WA		SERVICE WATER TR	REATMENT PLANT #1
Drinking Water Source Assessment	information: A Source wate	r assessment survey for	wells #10, #11, #12, #13
	which produce	water for the City of Fi	irebaugh Water System was
		fuly 1 st , 2002. A source tember 2012 for wells #	water assessment survey was #15 and #16.
automobile-gas stations and landfill/ Well #11 The source is considered most vulne surface water bodies, automobile-ga Well #12 The source is considered most vulne	erable to the following activities stations and septic systems-hierable to the following activitie	igh density >1 acre.	•
Surface water bodies, automobile-ga Well #13	is stations and septic systems-h	igh >1 acre.	
The source is considered most vulne Surface water bodies, automobile-gadensity >1 acre. Well #15 The source is considered most vulne with the source with the	as stations, landfill/dumps, was	te water treatment plants	s and septic systems-higher
supply: Schools	ruote to the following activitie	s associated with colltan	mates detected in the water
The source is considered most vulne Agricultural drainage. Well #16	· ·		•
The source is considered most vulne	•		

The source is considered most vulnerable to the following activities associated with contaminates detected in the water supply: Airports-maintenance fueling areas, automobile-body shops, automobile-repair shops, fleet/truck/bus terminals, junk/scrap/salvage yards, schools.

The source is considered most vulnerable to the following activities not associated with contaminates detected in the water supply: historic gas stations.

Time and place of regularly scheduled board meetings for public participation	n: 1 st and 3 rd Mondays of each month at 7:00 pm. Location: Firebaugh Community Center 1655 13 th Street Firebaugh Ca. 93622
For more information, contact: Anthony Chavarria	Phone: (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.

TABLE 1 –	SAMPLING	RESULT	S SHOW	NG THE DI	ETECTION 1	OF COLI	FORM BACTERIA
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections		onths in ation	МС	CL	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 sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>		0	Human and animal fecal waste
TABLE 2	- SAMPLIN	G RESUL	TS SHOV	VING THE I	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)	8/2012	20	6.2	1	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	8/2012	20	0.16	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
	TABLE 3	- SAMPL	ING RES	ULTS FOR S	SODIUM A	ND HARD	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detecte		Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2014	100.8		74-120	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2014	163.6		78-260	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 <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 Contaminant	
ARSENIC (PPB) TREATMENT SITE #1 TREATMENT SITE #2	2014 2014	6.12 .69	2-9.4 ND-9.1	10	.004	Erosion of natural deposits: runoff from orchards: glass and electronics products wastes.	
BARIUM (PPM)	2014	.133	.076-0.2	1	2	Discharge of oil drilling waste and from metal refineries: erosion of natural deposits.	
CHLORINE (PPM) Distribution system residual	2014	.73	0.61-0.84	4	4	Drinking water disinfectant added for treatment	
GROSS ALPHA (pCi/L)	2010	3.31	1.99-6.63	15	N/A	Decay of natural and man-made deposits	
SELENIUM (PPB)	2014	3.075	N/D-4.5	50	30	Discharge from petroleum, glass and metal refineries: erosion of natural deposits: discharge from mines and chemical manufacturers run off from livestock lots	

						(feed additive)
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 years may have an increase chance of getting cancer
TTHM (PPB) Total Trihalomethane	2013	33	31-33	80	N/A	Some people who drink water containing trihalolmethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have increased risk of getting cancer
HALOACETIC (PPB) ACID	2013	6.8	6.6-6.8	60	N/A	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer
				ECONDAR		NG 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	8	5-10	15	N/A	Natural occurring organic materials
CONDUCTIVITY (umhos/cm	2014	810	640-1000	1600	N/A	Substances that form ions when in water: sea water influence
CHLORIDE (PPM)	2014	128.8	85-180	500	N/A	Runoff/leaching from natural deposits: seawater influence
IRON (PPB) TREATMENT SITE #1 TREATMENT SITE #2	2014	2.78 10	N/D-82 N/D-110	300	N/A	Leaching from natural deposits: industrial wastes
MANGANESE (PPB) TREATMENT SITE #1 TREATMENT STIE #2	2014	N/D 2.3	N/D N/D-41	50	N/A	Leaching from natural deposits
ODOR (UNITS)	2014	1.3	1-2	3	N/A	Natural occurring organic material
SULFATE (PPM)	2014	83.3	66-120	500	N/A	Runoff/Leaching from natural deposits: industrial wastes
TURBIDITY (NTU)	2014	.742	N/D-1.4	5	N/A	Soil runoff
TOTAL DISSOLVED SOLIDS (PPM)	2014	482	420-590	1000	N/A	Runoff/leaching from natural deposits
	TABLE (6 – DETECTIO	N OF UNREGU	LATED CO	ONTAMINA	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections		ation Level	Health Effects Language
CHLORATE (PPB)	2013			800		EPA does not have health effects
TREATMENT SITE #2 (RAW)		1222	944-1500			language for Chlorate at this time.
DISTRIBUTION SYSTEM		715	431-1000			

^{*}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

COMPARATIVE FIGURES FOR INTERPRETING MEASUREMENTS WITHIN THIS REPORT

1 PPM

1 sec in 11.5 days 1 penny out of \$10,000 1 inch of 15.8 miles 1 minute in 1.9 year

1 PPB

1 sec in 31.7 years 1 penny of \$10,000,000 1 inch of 15,782.8 miles 1 minute in 19 centuries

1 PPT

1 sec in 317.1 centuries 1 penny of \$10,000,000,000 1 inch of 657.6 trip around equator 1 minute 1,900 millenniums

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. The City of Firebaugh 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 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/safewater/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						

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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 1	SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLE						
1	SPECIAL NOTICE FOR	UNCORRECTED SIG	NIFICANT DEFICIENCIES				
	VIOLA	TION OF GROUND W	VATER TT				
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language			
NONE							