

CONSUMER CONFIDENCE REPORT 2022



Water System Information

Water System Name: **City of Kerman**

Report Date: **6/30/2023**

Type of Water Source(s) in Use: **Ground Water Wells**

Name and General Location of Source(s): **Well 9A** is located at Del Norte Ave and C St, **Well 10** is located at Vineland Ave and E St, **Well 12** is located at Industrial Way, **Well 14** is located at Vineland Ave and Whitesbridge Ave, **Well 15** is located at 15201 W California Ave, **Well 17** is located at 920 Goldenrod Ave.

Drinking Water Source Assessment Information:

Well #9A, this source is considered most vulnerable to the following activities associated with contaminants detected in the water supply: metal plating/finishing/fabricating, automobile-repair shops, utility stations-maintenance areas, schools, office buildings/complexes, RV/mini storages. The source is considered most vulnerable to the following activities not associated with any detected contaminants: septic systems-low density [<1 /acre], Sewer collection systems.

Well #15, this source is considered most vulnerable to the following activities with contaminants detected in the water supply; chemical/petroleum processing/storage, RV/mini storage, schools. The source is considered most vulnerable to the following activities not associated with any detected contaminants; automobile-repair shops, farm chemical distributor/application service, junk/scrap/salvage yard, pesticide/fertilizer/petroleum storage/transfer areas, sewer collection systems, and wells-agricultural/irrigation.

Well #17, this source considered most vulnerable to the following activities not associated with any detected contaminants; septic systems-high [<1 acre].

The drinking water source assessment was completed in 2012. A copy of the complete assessment is available at CDPH District Office at 265 Bullard Ave. Suite #101, Fresno CA.93704. You may request a summary of the assessment be sent to you by contacting CDPH at (559) 447-3300

Time and Place of Regularly Scheduled Board Meetings for Public Participation: **1st and 3rd Wednesdays of each month at Kerman City Hall Council Chambers 850 S. Madera Ave. Kerman CA.**

For More Information, Contact: **Michael Barajas at 559-846-9343.**

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.

Importance of This Report Statement in Six Non-English Languages (Spanish, Punjabi, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse City of Kerman a 850 S. Madera Ave, Kerman, CA, 93630 at 559-846-9384 para asistirlo en español.

Language in Punjabi: ਇਸ ਰਿਪੋਰਟ ਵਿਚ ਪੀਣ ਵਾਲੇ ਪਾਣੀ ਬਾਰੇ ਮਹੱਤਵਪੂਰਨ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ ਹੈ। ਵਧੇਰੇ ਜਾਣਕਾਰੀ ਲਈ, ਕਰਮਨ ਸ਼ਹਿਰ ਨਾਲ 559-846-9364 ਤੇ ਸੰਪਰਕ ਕਰੋ ਜੋ ਕਿ 850 S. Madera Ave, Kerman, CA, 93630 ਤੇ ਸਥਿਤ ਹੈ।

Language in Mandarin: 这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 City of Kerman 以获得中文的帮助: 850 S. Madera Ave, Kerman, CA, 93630 at 559-846-9384.

Language in Tagalog: Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa City of Kerman, 850 S. Madera Ave, Kerman, CA, 93630 o tumawag sa 559-846-9384 para matulungan sa wikang Tagalog.

Language in Vietnamese: Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ City of Kerman tại 850 S. Madera Ave, Kerman, CA, 93630 at 559-846-9384 để được hỗ trợ giúp bằng tiếng Việt.

Language in Hmong: Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau City of Kerman ntawm 850 S. Madera Ave, Kerman, CA, 93630 at 559-846-9384 rau kev pab hauv lus Askiv.

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 <i>E. coli</i> 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).

Term	Definition
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 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)

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
<i>E. coli</i>	0	0	0 ^(a)	0	Human and animal fecal waste
<i>Total Coliform Bacteria (STCR)</i>	0	0	0 ^(b)	0	Naturally present in the environment
<i>Fecal Coliform or E.coli (STCR)</i>	0	0	0 ^(c)	None	Human and animal fecal waste

(a) 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*.

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

(c) A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or *E.coli* positive.

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

Complete if lead or copper is detected in the last sample set.

Lead and Copper	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	2022	30	ND	0	0.015	0.0002	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2022	30	ND	0	1.3	0.3	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)	03/30/21	210	27-1100	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	03/30/21	47.8	20-150	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 (AVG)	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Nitrate (mg/L)	12/2022	3.15	1.8-6.4	10	45	Runoff and leaching from fertilizer use; Leaching from septic tanks and sewage; Erosion of natural deposits
Fluoride (ppm)	3/30/2021	0.11	.10-.15	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Arsenic (ppb)	3/30/2022	<4.75	<2-7.6	0.010	0.000004	Erosion of natural deposits, runoff from orchards grass and electronic production waste
Hexavalent Chromium (ppb)	8/10/2022	22.06	6.3-31	-	0.00002	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Uranium (pCi/L)	2022	82.16	68-120	20	0.43	Erosion of natural deposits
Gross Alpha (pCi/L)	2022	60.96	38.7-100	15	NA	Erosion of natural deposits
TTHMs (Total Trihalomethanes) (ug/L)	2022	ND	ND	0.080	N/A	Byproduct of drinking water disinfection

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 (mg/L)	3/30/21	175	5.1-1000	500	N/A	Runoff leaching from natural deposits; seawater influence
Sulfate (mg/L)	3/30/21	5.9	3.2-15	500	N/A	Runoff leaching from natural deposits; industrial waste
Color (units)	3/30/21	<0.8	0-5	15	N/A	Naturally-occurring organic materials
Total Dissolved Solids (mg/L)	3/30/21	583	120-2700	1000	N/A	Runoff/leaching from natural deposits
Turbidity (NTU)	3/30/21	<0.25	<0.1-0.88	5	N/A	Soil runoff
Specific Conductance (Us/cm)	2021	512	180-4600	1600	N/A	Substance that form ions when in water; sea

Table 6. Detection of Unregulated Contaminants

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects
1,2,3-Trichloropropane	2022	0.032	0.019-0.056	0.000005	Some people who drink water containing 1, 2, 3-Trichloropropane in excess of the MCL over many years may have an increased risk of getting cancer
Uranium	2022	82.16	68-120	20	Some people who drink water containing Uranium in excess of the MCL over many years may have kidney problems or an increased risk of getting cancer

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. The City of Kerman 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, Arsenic, Lead, Radon, and *Cryptosporidium*: 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

Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Uranium	The contaminant level violation was issued on August 25, 2022 on Well #12. The running annual average for Uranium concentration in Well #12 is 55 pCi/L	The Uranium concentrations of samples drawn from Well #12 are at or greater than the MCL during every quarter since 2022.	The water system is capable of meeting the city's MDD without the use of Well 12. Until the Uranium compliance is achieved, the City will continue to minimize the use of Well 12. The City's Corrective	Some people who drink water containing uranium in excess of the MCL over many years may have kidney problems or an increased risk of getting cancer

			Action Plan has changed from treating to abandoning Well #12 and constructing a new water well which is not prone to Uranium.	
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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
<i>E. coli</i>	0	2022	0	(0)	Human and animal fecal waste

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

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 no coliforms and were not required to do any Level 1 or Level 2 Assessments.