


Consumer Confidence Report Certification Form

(to be submitted with a copy of the CCR)

(to certify electronic delivery of the CCR, use the certification form on the State Water Board's website at
http://www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml)

Water System Name:	PATTERSON TRACT CSD
Water System Number:	5402038

The water system named above hereby certifies that its Consumer Confidence Report was distributed on _____ (date) to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the State Water Resources Control Board, Division of Drinking Water.

Certified By:	Name:	Linda F. Lee	
	Signature:		
	Title:	Secretary/Financial Officer	
	Phone Number:	(559-734-2965	Date: 06/30/2021

To summarize report delivery used and good-faith efforts taken, please complete the form below by checking all items that apply and fill-in where appropriate:

CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used:

"Good faith" efforts were used to reach non-bill paying customers. Those efforts included the following methods:

- Posted the CCR on the internet at [http:// pattersontract.wordpress.com](http://pattersontract.wordpress.com)
- Mailed the CCR to postal patrons within the service area (attach zip codes used)
- Advertised the availability of the CCR in news media (attach a copy of press release)
- Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of the newspaper and date published)
- Posted the CCR in public places (attach a list of locations)
- Delivery of multiple copies of CCR to single bill addresses serving several persons, such as apartments, businesses, and schools
- Delivery to community organizations (attach a list of organizations)
- Other (attach a list of other methods used)

For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following address: <http://> _____

For investor-owned utilities: Delivered the CCR to the California Public Utilities Commission

2020 Consumer Confidence Report

Water System Name: PATTERSON TRACT CSD

Report Date: March 2021

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 - December 31, 2020.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: According to SWRCB records, this Source is Groundwater. This Assessment was done using the Default Groundwater System Method.

Your water comes from 2 source(s): Well 01 - West and Well 02 - East

Opportunities for public participation in decisions that affect drinking water quality: Regularly-scheduled water board or city/county council meetings are held at various locations every second Monday of each month at 6:30 PM. Call (559) 734-2965 for meeting locations.

For more information about this report, or any questions relating to your drinking water, please call (559) 734-2965 and ask for Linda Lee.

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically 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 the contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for the 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.

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.

ND: not detectable at testing limit

mg/L: milligrams per liter or parts per million (ppm)

ug/L: micrograms per liter or parts per billion (ppb)

pCi/L: picocuries per liter (a measure of radiation)

NTU: Nephelometric Turbidity Units

umhos/cm: micro mhos per centimeter

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 Resource Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Water Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 6 and 7 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 Water 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 MCL, AL or MRDL is highlighted. Additional information regarding the violation is provided later in this report.

Table 1 - SAMPLING RESULTS FOR SODIUM AND HARDNESS						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant
Sodium (mg/L)	(2018 - 2020)	19	18 - 20	none	none	Salt present in the water and is generally naturally occurring
Hardness (mg/L)	(2018 - 2020)	92.8	90.3 - 95.3	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

Table 2 - DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Sources of Contaminant
Arsenic (ug/L)	(2018 - 2020)	2	n/a	10	0.004	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes
Hexavalent Chromium (ug/L)	(2015)	1.2	1.1 - 1.3		0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits.
Fluoride (mg/L)	(2018 - 2020)	0.2	0.1 - 0.2	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate as N (mg/L)	(2020)	3	2.2 - 3.7	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

Nitrate + Nitrite as N (mg/L)	(2018 - 2020)	3.7	3.6 - 3.8	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Gross Alpha (pCi/L)	(2018)	1.81	1.46 - 2.15	15	(0)	Erosion of natural deposits.

Table 3 - DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant
Chloride (mg/L)	(2018 - 2020)	7	6 - 7	500	n/a	Runoff/leaching from natural deposits; seawater influence
Odor Threshold at 60 °C (TON)	(2018 - 2020)	ND	ND - 1	3	n/a	Naturally-occurring organic materials.
Specific Conductance (umhos/cm)	(2018 - 2020)	282	281 - 283	1600	n/a	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	(2018 - 2020)	13.2	12.8 - 13.6	500	n/a	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (mg/L)	(2018 - 2020)	170	160 - 180	1000	n/a	Runoff/leaching from natural deposits
Turbidity (NTU)	(2018)	1.4	1.0 - 1.7	5	n/a	Soil runoff

Table 4 - DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	Notification Level	Typical Sources of Contaminant
Boron (mg/L)	(2018 - 2020)	0.2	ND - 0.4	1	Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats.
Vanadium (mg/L)	(2018 - 2020)	0.024	0.023 - 0.024	0.05	Vanadium exposures resulted in developmental and reproductive effects in rats.

Table 5 - ADDITIONAL DETECTIONS

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	Notification Level	Typical Sources of Contaminant
Calcium (mg/L)	(2018 - 2020)	24	23 - 25	n/a	n/a
Magnesium (mg/L)	(2018 - 2020)	8	n/a	n/a	n/a
pH (units)	(2018 - 2020)	7.3	7.0 - 7.6	n/a	n/a
Alkalinity (mg/L)	(2018 - 2020)	100	n/a	n/a	n/a
Aggressiveness Index	(2018 - 2020)	11.1	10.8 - 11.4	n/a	n/a
Langelier Index	(2018 - 2020)	-0.7	-1.0 - -0.4	n/a	n/a

Table 6 - DETECTION OF DISINFECTANT/DISINFECTANT BYPRODUCT RULE

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL (MRDL)	PHG (MCLG)	Violation	Typical Sources of Contaminant
Chlorine (mg/L)	(2020)	0.40	0.11 - 1.23	4.0	4.0	No	Drinking water disinfectant added for treatment.

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 the service lines and home plumbing. *Patterson Tract CSD* 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/lead>.

2020 Consumer Confidence Report

Drinking Water Assessment Information

Assessment Information

A source water assessment was conducted for the WELL 01 □ WEST of the PATTERSON TRACT CSD water system in September, 2002.

Well 01 - West - is considered most vulnerable to the following activities not associated with any detected contaminants:

- Automobile - Gas stations
- Chemical/petroleum processing/storage
- Septic systems - high density [>1/acre]

Well 02 - East - is considered most vulnerable to the following activities not associated with any detected contaminants:

- Automobile - Gas stations
- Chemical/petroleum processing/storage
- Septic systems - high density [>1/acre]

Discussion of Vulnerability

The activities to which the Patterson Tract CSD water system is most vulnerable include septic systems, petroleum and chemical storage, and agricultural activity and drainage.

It is important that septic systems be kept in good repair and pumped regularly. It is also necessary to keep the well site

clean and free of weeds and debris to prevent contamination. The cement surface seal needs to be checked for cracks and immediately repaired or sealed.

Acquiring Information

A copy of the complete assessment may be viewed at:

Southern California Branch
Drinking Water Field Operations
265 W Bullard Ave. Suite 101
Fresno CA 93704

You may request a summary of the assessment be sent to you by contacting:

Chad Fischer, P.E.
Senior Sanitary Engineer, Tulare District
(559) 447-3300
DWPDist24@Waterboards.ca.gov

Patterson Tract CSD

Analytical Results By FGL - 2020

SAMPLING RESULTS FOR SODIUM AND HARDNESS									
		Units	MCLG	CA-MCL	PHG	Sampled	Result	Avg. Result(a)	Range (b)
Sodium		mg/L		none	none			19	18 - 20
Well 01 - West	VI 2040009-1	mg/L				2020-01-02	20		
Well 02 - East	VI 1840704-1	mg/L				2018-02-20	18		
Hardness		mg/L		none	none			92.8	90.3 - 95.3
Well 01 - West	VI 2040009-1	mg/L				2020-01-02	90.3		
Well 02 - East	VI 1840704-1	mg/L				2018-02-20	95.3		

PRIMARY DRINKING WATER STANDARDS (PDWS)									
		Units	MCLG	CA-MCL	PHG	Sampled	Result	Avg. Result(a)	Range (b)
Arsenic		ug/L		10	0.004			2	2 - 2
Well 01 - West	VI 2040009-1	ug/L				2020-01-02	2		
Well 02 - East	VI 1840704-1	ug/L				2018-02-20	2		
Hexavalent Chromium		ug/L			0.02			1.2	1.1 - 1.3
Well 01 - West	VI 1540564-2	ug/L				2015-02-19	1.1		
Well 02 - East	VI 1540564-1	ug/L				2015-02-19	1.3		
Fluoride		mg/L		2	1			0.2	0.1 - 0.2
Well 01 - West	VI 2040009-1	mg/L				2020-01-02	0.2		
Well 02 - East	VI 1840704-1	mg/L				2018-02-20	0.1		
Nitrate as N		mg/L		10	10			3.0	2.2 - 3.7
Well 01 - West	VI 2048329-1	mg/L				2020-10-26	2.5		
Well 01 - West	VI 2045645-1	mg/L				2020-07-23	2.4		
Well 01 - West	VI 2042738-1	mg/L				2020-04-22	2.2		
Well 01 - West	VI 2040009-1	mg/L				2020-01-02	3.6		
Well 02 - East	VI 2049159-1	mg/L				2020-11-19	3.4		
Well 02 - East	VI 2046410-1	mg/L				2020-08-20	3.7		
Well 02 - East	VI 2043530-1	mg/L				2020-05-14	2.8		
Well 02 - East	VI 2041029-1	mg/L				2020-02-13	3.7		
Nitrate + Nitrite as N		mg/L		10	10			3.7	3.6 - 3.8
Well 01 - West	VI 2040009-1	mg/L				2020-01-02	3.6		
Well 02 - East	VI 1840704-1	mg/L				2018-02-20	3.8		
Gross Alpha		pCi/L		15	(0)			1.81	1.46 - 2.15
Well 01 - West	VI 1840048-1	pCi/L				2018-01-04	1.46		
Well 02 - East	VI 1840054-1	pCi/L				2018-01-04	2.15		

SECONDARY DRINKING WATER STANDARDS (SDWS)									
		Units	MCLG	CA-MCL	PHG	Sampled	Result	Avg. Result(a)	Range (b)
Chloride		mg/L		500	n/a			7	6 - 7
Well 01 - West	VI 2040009-1	mg/L				2020-01-02	7		
Well 02 - East	VI 1840704-1	mg/L				2018-02-20	6		
Odor Threshold at 60 °C		TON		3	n/a			ND	ND - 1
Well 01 - West	VI 2048328-1	TON				2020-10-26	ND		
Well 01 - West	VI 2045649-1	TON				2020-07-23	ND		
Well 01 - West	VI 2042737-1	TON				2020-04-22	ND		
Well 01 - West	VI 2040006-1	TON				2020-01-02	ND		
Well 02 - East	VI 1840704-1	TON				2018-02-20	1		
Specific Conductance		umhos/cm		1600	n/a			282	281 - 283
Well 01 - West	VI 2040009-1	umhos/cm				2020-01-02	281		
Well 02 - East	VI 1840704-1	umhos/cm				2018-02-20	283		
Sulfate		mg/L		500	n/a			13.2	12.8 - 13.6
Well 01 - West	VI 2040009-1	mg/L				2020-01-02	12.8		
Well 02 - East	VI 1840704-1	mg/L				2018-02-20	13.6		

Patterson Tract CSD

CCR Login Linkage - 2020

FGL Code	Lab ID	Date_Sampled	Method	Description	Property
12509 Ave. 328	VI 2047210-8	2020-09-15	Metals, Total	12509 Ave. 328	Lead & Copper Monitoring
12519 Ave. 328	VI 2047210-7	2020-09-15	Metals, Total	12519 Ave. 328	Lead & Copper Monitoring
32542 Grandview	VI 2047210-9	2020-09-15	Metals, Total	32542 Grandview	Lead & Copper Monitoring
32554 GRNDVW	VI 2047210-10	2020-09-15	Metals, Total	32554 Grandview	Lead & Copper Monitoring
32653 LINCLN	VI 2047210-4	2020-09-15	Metals, Total	32653 Lincoln	Lead & Copper Monitoring
32654 Lincoln	VI 2047210-6	2020-09-15	Metals, Total	32654 Lincoln	Lead & Copper Monitoring
32665Lincoln	VI 2040007-1	2020-01-02	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2040007-1	2020-01-02	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2041033-1	2020-02-13	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2041033-1	2020-02-13	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2041473-1	2020-03-02	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2041473-1	2020-03-02	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2042740-1	2020-04-22	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2042740-1	2020-04-22	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2043517-1	2020-05-14	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2043517-1	2020-05-14	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2044618-1	2020-06-16	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2044618-1	2020-06-16	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2045650-1	2020-07-23	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2045650-1	2020-07-23	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2046411-1	2020-08-20	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2046411-1	2020-08-20	Field Test	32665 Lincoln	Routine Water Monitoring
32665 Lincoln	VI 2047210-1	2020-09-15	Metals, Total	32665 Lincoln	Lead & Copper Monitoring
32665Lincoln	VI 2047199-1	2020-09-16	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2047199-1	2020-09-16	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2048320-1	2020-10-26	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2048320-1	2020-10-26	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2049160-1	2020-11-19	Coliform	32665 Lincoln	Routine Water Monitoring
	VI 2049160-1	2020-11-19	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2049808-1	2020-12-16	Field Test	32665 Lincoln	Routine Water Monitoring
	VI 2049808-1	2020-12-16	Coliform	32665 Lincoln	Routine Water Monitoring
32715 GRNDVW	VI 2047210-3	2020-09-15	Metals, Total	32715 Grandview	Lead & Copper Monitoring
32720 Grandview	VI 2047210-5	2020-09-15	Metals, Total	32720 Grandview	Lead & Copper Monitoring
32732 Grandview	VI 2047210-2	2020-09-15	Metals, Total	32732 Grandview	Lead & Copper Monitoring
5402038-001	VI 1540564-2	2015-02-19	Wet Chemistry	Well 01 - West	Cr+6 Monitoring
	VI 1840047-1	2018-01-04	Wet Chemistry	Well 01 - West	Well 01 Water Quality - B
	VI 1840048-1	2018-01-04	Radio Chemistry	Well 01 - West	PATTERSON TRACT CSD
	VI 2040009-1	2020-01-02	Metals, Total	Well 01 - West	Well 01 Water Quality - A
	VI 2040006-1	2020-01-02	Wet Chemistry	Well 01 - West	Well 01 Water Quality - B
	VI 2040009-1	2020-01-02	General Mineral	Well 01 - West	Well 01 Water Quality - A
	VI 2042738-1	2020-04-22	Wet Chemistry	Well 01 - West	Well 01 Water Quality - A
	VI 2042737-1	2020-04-22	Wet Chemistry	Well 01 - West	Well 01 Water Quality - B
	VI 2045649-1	2020-07-23	Wet Chemistry	Well 01 - West	Well 01 Water Quality - B
	VI 2045645-1	2020-07-23	Wet Chemistry	Well 01 - West	Well 01 Water Quality - A
	VI 2048329-1	2020-10-26	Wet Chemistry	Well 01 - West	Well 01 Water Quality - A
	VI 2048328-1	2020-10-26	Wet Chemistry	Well 01 - West	Well 01 Water Quality - B
5402038-002	VI 1540564-1	2015-02-19	Wet Chemistry	Well 02 - East	Cr+6 Monitoring
	VI 1840054-1	2018-01-04	Radio Chemistry	Well 02 - East	Radio Monitoring-Well #2-East
	VI 1840704-1	2018-02-20	Metals, Total	Well 02 - East	Well 02 Water Quality
	VI 1840704-1	2018-02-20	Wet Chemistry	Well 02 - East	Well 02 Water Quality
	VI 1840704-1	2018-02-20	General Mineral	Well 02 - East	Well 02 Water Quality
	VI 2041029-1	2020-02-13	Wet Chemistry	Well 02 - East	Well 02 Water Quality
	VI 2043530-1	2020-05-14	Wet Chemistry	Well 02 - East	Well 02 Water Quality
	VI 2046410-1	2020-08-20	Wet Chemistry	Well 02 - East	Well 02 Water Quality
	VI 2049159-1	2020-11-19	Wet Chemistry	Well 02 - East	Well 02 Water Quality