Lindsay-Strathmore Irrigation District P. O. Box 846 Lindsay, CA 93247



2020 Annual Drinking Water Quality Report

LINDSAY-STRATHMORE IRRIGATION DISTRICT VIA STRATHMORE PUBLIC UTILITY DISTRICT

We test the drinking water guality 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 and may include earlier monitoring data.

We are pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the water and services we have delivered to you over the past year. Our goal is and always has been, to provide you with a safe and dependable supply of drinking water. Our water source comes from surface water via the Friant Kern Canal and one groundwater well, Well No. 2. Treatment is by conventional filtration using dual media gravity filters followed by chlorination. Groundwater that exceeds the nitrate MCL is mixed with the surface water prior to treatment, with the blended supply having a nitrate level well below the allowed maximum.

A source water assessment was conducted for the District's water supply well and surface water source in March 2003. The water sources are considered most vulnerable to the following activities associated with contaminants detected in the water supply: fertilizer, pesticide and/or herbicide application. The water sources are considered most vulnerable to the following activities not associated with any detected contaminants: automobile gas stations; septic systems - high density; and wastewater treatment plants and disposal facilities. A sanitary survey report for the Friant-Kern Canal water supply has also been completed. An update to this report was completed in 2019. A copy of the complete assessment and sanitary survey report may be viewed at the District office. You may request a summary of the assessment or sanitary survey report be sent to you by contacting Mr. Craig Wallace, General Manager, at 559/562-2581.

If you have any questions about this report or concerning your water utility, please contact the District at 559/562-2581. We want our customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings held on the second Tuesday of each month at 1:30 p.m. at the District office at 23260 Round Valley Drive, Lindsay, CA 93247.

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. Primary MCLs a set as close to the PHGs (or MCLGs) as is economically a	are that a
technologically feasible. Secondary MCLs are set to protect t odor, taste, and appearance of drinking water.	
Maximum Contaminant Level Goal (MCLG) : The level of contaminant in drinking water below which there is no know or expected risk to health. MCLGs are set by the U Environmental Protection Agency (USEPA).	fa wn Regu
Public Health Goal (PHG) : The level of a contaminant drinking water below which there is no known or expected r to health. PHGs are set by the California Environmen Protection Agency.	isk not c
Maximum Residual Disinfectant Level (MRDL): T highest level of a disinfectant allowed in drinking water. There	he bacte
convincing evidence that addition of a disinfectant is necessation for control of microbial contaminants.	
Maximum Residual Disinfectant Level Goal (MRDLG): T	he have

Maximum level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the N/A: Not applicable

benefits of the use of disinfectants to control microbial ND: not detectable at testing limit ppm: parts per million or milligrams per liter (mg/L) contaminants. **ppb**: parts per billion or micrograms per liter (µg/L) Primary Drinking Water Standards (PDWS): MCLs, MRDLs ppt: parts per trillion or nanograms per liter (ng/L) and treatment techniques (TT) for contaminants that affect ppq: parts per quadrillion or picogram per liter (pg/L) pCi/L: picocuries per liter (a measure of radiation) health along with their monitoring and reporting requirements.

In general, sources of drinking water (both tap water and bottled water) may 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.

Constituents that may be present in source water to contamination levels include:

- operations and wildlife.
- domestic wastewater discharges, oil and gas production, mining or farming.
- production and can also come from gas stations, urban stormwater runoff, agricultural application and septic systems.

Lindsay-Strathmore ID via Strathmore PUD ~ 2020 Annual Drinking Water Quality Report

C	DETECTION OF SYNTHETIC ORGANIC CONTAMINANTS INCLUDING PESTICIDES & HERBICIDES									
Constituent MCL PHG [MCLG]		PHG [MCLG]	Sample Average Level Date Detected		· · · · · · · · · · · · · · · · · · ·		Range	Likely Source of Contamination		
Trichloropropane (H) (1,2,3-TCP) (ppt)	5	0.7	2019/2020	ND	N/A	Discharge from industrial and agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.				

(A) Results reported due to regulatory requirement or detection of a constituent.

- (B) ABOUT LEAD: 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. Strathmore Public Utility District 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.
- (C) The weighted average reflects the quantity of water provided from each source of supply, be it groundwater (wells) and/or surface water along with the representative concentration for a particular constituent.
- (D) Results reported include amounts that are less than the State Water Resources Control Board Division of Drinking Water required detection level for this constituent
- (E) ABOUT NITRATE: Nitrate in drinking water at levels above 10 mg/L (as N) 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 a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels as N that are above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.
- (F) ABOUT TTHM: Some people who drink water containing trihalomethanes (TTHM) in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.
- (G). ABOUT HAA5: Some people who drink water containing haloacetic acids (HAA5) in excess of the MCL over many years may have an increased risk of getting cancer.
- (H) ABOUT 1,2,3-TCP: Some people who drink water containing 1,2,3-trichloropropane (1,2,3-TCP) in excess of the MCL over many years may have an increased risk of getting cancer. 1,2,3-trichloropropane (1,2,3-TCP) had a notification level (NL) of 5 ppt until December 14, 2017, when the MCL of 5 ppt became effective. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards.

Additional General Information On Drinking Water

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some constituents. The presence of constituents does not necessarily indicate that the water poses a health risk. More information about constituents, contaminant levels and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1/800/426-4791 or their website http://www.epa.gov/safewater/hfacts.html.

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 and 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 microbiological contaminants are available from the Safe Drinking Water Hotline 1/800/426-4791.

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Este informe contiene información muy importante sobre su agua de beber.

Tradúzcalo ó hable con alguien que lo entienda bien.

The following are definitions of some of the TERMS USED IN THIS REPORT:

condary Drinking Water Standards (SDWS): MCLs for contaminants affect taste, odor, or appearance of the drinking water. Contaminants with Ss do not affect the health at the MCL levels.

atment Technique (TT): A required process intended to reduce the level contaminant in drinking water.

gulatory Action Level (AL): The concentration of a contaminant which, if eded, triggers treatment or other requirements that a water system must

iances and Exemptions: State Board permission to exceed an MCL or comply with a treatment technique under certain conditions.

rel 1 Assessment: A Level 1 assessment is a study of the water system to ntify potential problems and determine (if possible) why total coliform teria have been found in our water system.

rel 2 Assessment: A Level 2 assessment is a very detailed study of water system to identify potential problems and determine (if possible) why E. coli MCL violation has occurred and/or why total coliform bacteria been found in our water system on multiple occasions.

· Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock

• Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or

• Pesticides and herbicides 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

Radioactive contaminants that can be naturally occurring or the result of oil and gas production and mining activities.

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	DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD										
Chemical or Constituent (and reporting units)	MCL	PHG [MCLG]	Sample Date	Weighted Average Level Detected (C)	Range(D)	Likely Source of Contamination					
Barium (ppm)	1	2	2020	0.11	ND to 0.12	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits					
Fluoride (ppm)	2	1	2020	0.05	ND to 0.16	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories					
Nitrate as N (ppm) (Biended)	10	10	2020	3.74	0.49 to 9.3 (E)	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits					

	RADIOACTIVE CONTAMINANTS (D)										
Gross Alpha Activity (pCi/L)	15	N/A	2014 & 2020	<3	ND to 2.23	Erosion of natural deposits					
Radium 228 (pCi/L)	5 (Combined Radium)	0.019	2006 & 2011	0.87	0.52 to 1	Erosion of natural deposits					

DETECTIO	N OF C	ONTAMINA	NTS WITH A <u>SEC</u>	ONDARY DF	RINKING WATER STANDARD
Chemical or Constituent (and reporting units)	MCL	Sample Date	Weighted Average Level Detected (C)	Range(D)	Likely Source of Contamination
Chloride (ppm)	500	2020	10	2 to 34	Runoff/leaching from natural deposits; seawater influence
Color (Units)	15	2020	5	ND to 5	Naturally-occurring organic materials
Iron (ppb)	300	2020	122	ND to 130	Leaching from natural deposits: industrial waste
Specific Conductance (µS/cm)	1600	2020	177	29 to 610	Substances that form ions when in water; seawater influence
Sulfate (ppm)	500	2020	9.1	ND to 34	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS) (ppm)	1000	2020	112	26 to 360	Runoff/leaching from natural deposits
Turbidity (Units)	5	2020	0.71	0.13 to 0.91	Soil runoff

		Disin	fection By	products	and Disinfec	tant Residua	Is
Chemical or Constituent (and reporting units)	MCL [MRDL]	PHG	MCLG [MRDLG]	Sample Date	Running Annual Average	Range	Major Sources in Drinking Water
TTHM [Total Trihalomethanes] (ppb)	80	N/A	N/A	2020	49.1	32.2 to 62.6 (F)	Byproduct of drinking water chlorination
HAA5 [Haloacetic Acids] (ppb)	60	N/A	N/A	2020	15.1	7.4 to 22.6 (G)	Byproduct of drinking water disinfection
Chlorine as Cl ₂ (ppm)	[4.0]	N/A	[4]	2020	0.69	0.24 to 1.63	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose or stomach discomfort.

Control of DBP precursors (TOC)	MCL	MCLG	Range	Major Sources in Drinking Water	
Source Water (ppm)	Π	N/A	0.79 to 1.7	Various natural and manmade sources	
Treated Water (ppm)	П	N/A	0.75 to 1.7	Various natural and manmade sources	

In order to ensure that tap water is safe to drink, the U. S. Environmental Protection Agency (USEPA) and the State Water Resources Control
Board – Division of Drinking Water (DDW) prescribe regulations that limit the amount of certain contaminants in water provided by public water
systems. DDW regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.
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. Strathmore Public Utility District 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.
The tables below and on the following pages list all the drinking water constituents that were detected during the most recent samplings

bles below and on the following pages list all the drinking water constituents that were detected during the most recent samplings for the constituent. The presence of these constituents in the water does not necessarily indicate that the water poses a health risk. The DDW requires us to monitor for certain constituents less than once per year because the concentrations of these constituents are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, are therefore more than one year old.

SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES								
Treatment Technique	Turbidity Performance Standards (TPS)	Lowest monthly percentage of samples that met TPS	Number of Months in Violation	Highest single turbidity measurement during the year				
Conventional Filtration Treatment with Chlorination	Turbidity of the filtered water must: Be less than or equal to 0.3 NTU in 95% of measurements in a month.	100%	0	0.192				

Turbidity (measured in NTU) is a measurement of the cloudiness of water and is an indicator of filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

SAMPLI	NG RESULTS SH	HOWING T	HE DETECTION OF COLI	FORM	BACTERIA
Microbiological Contaminants	Highest No. of detections	No. of months in violation	MCL	MCLG	Typical Source of Contamination
Total Coliform Bacteria (State Coliform Bacteria Rule)	(In a month) 0	0	1 positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform or E. Coli (State Total Coliform Rule)	(In the year) 0	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		Human and animal fecal waste
E. coli (Federal Revised Total Coliform Rule)	(In the year) 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.

Total Coliform: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present. The District collects 4 to 5 samples a month.

Lead and Copper Rule	No. of samples collected	MCLG	Action Level	90 th percentile level detected	No. Sites Exceeding Action Level	Number of Schools Requesting Lead Sampling	Typical Source of Contamination
Lead (ppb) 2018	10	2	15	ND	1 (B)	N/A (No schools served by District)	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 2018	10	0.3	1.3	0.24	0	N/A	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

SAMPLING RESULTS FOR SODIUM AND HARDNESS									
Chemical or Constituent MCL (and reporting units)		PHG Sample Weighted [MCLG] Date Average Level Detected (C)			Range	Likely Source of Contamination			
Hardness (ppm)	None	None	2020	50	8.7 to 170	Generally found in ground and surface water			
Sodium (ppm)	None	None	2020	18	2.5 to 61	Generally found in ground and surface water			