Water Update

Water Conservation Measures

In response to the recent drought conditions in California and to comply with emergency regulations issued by the State in 2014, the City of Lathrop has implemented mandatory water conservation measures with the goal of achieving 20% reduction in water usage compared to 2013. In May 2016, Governor Brown issued an executive order directing State Agencies to establish a long term framework for water conservation and drought planning. This framework is presented in a report released in April 2017 entitled "Making Water Conservation a California Way of Life". The City will be evaluating modifications to its mandatory water conservation measures in response to these changes.

Capital Improvement Projects



Every year, the City of Lathrop Public Works Department implements numerous projects and programs to deliver safe, pure, clean water to your faucet. Here is a summary of some of the projects the City has recently completed or have planned for the near future for the City's water system:

PW 17-04 Louise Avenue Water Treatment Facility (LAWTF) Solids Handling Improvements (Est. Cost = \$350,000)

Solids Handling Improvements to install drying beds to better facilitate sludge dewatering and disposal at the LAWTF. These improvements will reduce operation and maintenance costs and eliminate the need for disposal of the dewatered solids at a hazardous waste landfill.

PW 08-09 Well 21 Improvements (Est. Cost = \$2M)

The Well 21 Improvements project is needed to meet compliance with drinking water standards for arsenic and uranium and to complete regulatory permitting requirements for Well 21.

PW 10-10 Integrated Water Resources Master Plan Update (Est. Cost = \$572,000)

Periodic updates to the City's Water Resources Master Plan are needed for effective planning and management of the City's water, wastewater and recycled water systems. The IWRMP is used to plan future capital improvement projects and serves as the basis for regulatory compliance documents and as the planning document used to provide water resources infrastructure needed for the City to develop according to its General Plan.

PW 18-04 Citywide Water System Repairs (Est. Cost = \$115.000)

This project is for the replacement and repairs of deficiencies in the City's water network. Approximately 8 water valves have been identified throughout the City which are in need of cleaning, repair or replacement.

PW 13-08 Water Meter Improvements (Cost = \$1, 282, 167)

This project is for the replacement of water meters that are obsolete and no longer producing accurate readings with new meters and endpoints that include automated meter reading capabilities. The new replacement meters increase the accuracy of metered water consumption and helps Staff assist customers with questions on their water bills and consumption.

PW 15-05 Well 10 Emergency Power Improvements (Est. Cost = \$140,000)

This project was completed in 2015 to provide emergency power to Well 10 for public safety to provide water supply, emergency storage and fire service during a power outage.

A summary of how the **City of Lathrop is meeting** or exceeding all EPA and State drinking water health standards

Drinking Water **Consumer Confidence Report**

For additional information about your water, or to answer any questions about this report, please contact Greg Gibson, Senior Civil Engineer at the City of Lathrop (209) 941-7200.



2016

This report contains important information about your drinking water. Translate it, or speak with someone who understands it.

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

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 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 through chemotherapy, organ transplants, HIV/AIDS or other immune system disorders, or 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 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).

Sources of drinking 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, radio-active 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 storm-water 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; naturally-occurring or the result of oil and gas production and mining activities.

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 Lathrop 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. 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 (SWRCB-DDW) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled

water that must provide the same protection for public

Definitions

health

Maximum Contaminant Level (MCL)

The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the Public Health Goal 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.

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.

Primary Drinking Water Standard (PDWS)

MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Regulatory Action Level (AL)

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Abbreviations

- **µS/cm:** Specific Conductance Units
- LI: Langelier Index
- mo: Monitored Only

n/a: Not Applicable

- ND: Non Detectable
- Ntu: Turbidity Units

pCi/L: picocuries per liter (a measure of radiation) ppb: parts per billion or micrograms per liter (ug/L) ppm: parts per million or milligrams per liter (mg/L)

** Information for Arsenic below MCL of 10 ppb but above 5 ppb (or 50% of the MCL):

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 costs 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.

2016 Water Quality Report

				GROUND\	WATER	SURFACE WATER		Water quality data based on data years 2010 to 2016
Constituent	Units	MCL	PHG (MCLG)	Range	AVG	Range	AVG	Typical Sources
PRIMARY DRINKING WATER STANDARDS: Mandatory Health-Related Standards by California Water Board Division of Drinking Water.								
MICROBIOLOGICAL CONTAMINANTS (Note: The following results are reported for the City's Service Area)								
Total Coliform Bacteria	#Tests	>5% or 1	(0)	0 out of 301	0%	0 out of 11	0%	Naturally present in the environment
RADIOACTIVE CONTAMINANTS	S. W. Section							
Gross Alpha particle activity	pCi/L	15	(0)	3.0 - 7.9	5.8			Erosion of natural deposits
Gross Beta particle activity	pCi/L	50	(0)	ND - 5.2	2.4			Decay of natural and man-made deposits
Uranium	pCi/L	20	0.43	ND - 8.0	5.0			Erosion of natural deposits
INORGANIC CHEMICALS			in the					
Aluminum	ppm	1	0.6	ND	ND		ND	Erosion of natural deposits
Arsenic	ppb	10	0.004	6.0 - 9.7	7.7 **		ND	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium	ppm	1	2	0.18 - 0.34	0.24		ND	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Chromium (Total Cr)	ppb	50	(100)	ND	ND		ND	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride	ppm	2	1	ND	ND		ND	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as N)	ppm	10	10	2.7 - 5.0	3.7		ND	Runoff and leaching from fertilizer use; leaching from septic tanks and sew- age; erosion of natural deposits
Nitrite (as N)	ppm	1	1	ND - 0.005	0.001		ND	Runoff and leaching from fertilizer use; leaching from septic tanks and sew- age; erosion of natural deposits
DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BYPRODUCT PRECURSORS (Note: The following results are reported for the City's Service Area)								
TTHMs (Total Trihalomethanes)	ppb	80	n/a	11 - 45	20	5	36	By-product of drinking water chlorination
Haloacetic Acids	ppb	60	n/a	ND - 18	5			By-product of drinking water disinfection
Chlorine	ppm	4	4	0.23 - 0.99	0.57			Drinking water disinfectant added for treatment
No.		and the second		A	1			
SECONDARY STANDARDS: Aestheti	c Standards Estab	olished by Califor	nia Water Boa	ard Division of Drinkir	ng Water.			
Aluminum	ppb	200	n/a	ND	ND	~	ND	Erosion of natural deposits; residual from some surface water treatment processes
Chloride	ppm	500	n/a	31 - 73	43	17 10	3.3	Runoff/leaching from natural deposits; seawater influence
Color	Units	15	n/a	ND	ND	- 2 2:300	ND	Naturally-occurring organic materials
Corrosivity (Langelier Index @ 60 C)		Non-corrosive	n/a	-1.81.0	-1.5		P.	Natural or industrial influenced balance
Iron	ppb	300	n/a	ND	ND		ND	Leaching from natural deposits; industrial wastes
Manganese	ppb	50	n/a	ND	ND		ND	Leaching from natural deposits
Odor	Units	3	n/a	ND	ND	me at	ND	Naturally-occurring organic materials
Specific Conductance	µS/cm	1,600	n/a	170 - 625	487		113	Substances that form ions when in water; seawater influenced
Sulfate	ppm	500	n/a	15 - 26	20		4	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	ppm	1,000	n/a	280 - 405	334	and the second	30	Runoff/leaching from natural deposits
Turbidity	ntu	5	n/a	ND - 0.39	0.06	Marie Liller	ND	Soil runoff
			- nar			Station - Long	20.0.3	
ADDITIONAL CONSTITUENTS ANALYZED								
Bicarbonate	ppm	mo	n/a	160 - 240	189	6510	57	Naturally present in the environment
Calcium	ppm	mo	n/a	9.2 - 59	38		11	Naturally present in the environment
Hardness (as CaC03)	ppm [grains]	mo	n/a	139 - 198	165 [9.7]	Station of	80 [4.7]	Erosion of natural deposits
Magnesium	ppm[graing]	mo	n/a	8.9 - 22	13	A PANE	3	Naturally present in the environment
pH	Units	mo	n/a	7.0 - 8.1	7.7	1.2.42	7.2	Measurement of acidity (Neutral= 7.0)
Potassium	ppm	mo	n/a	3.1 - 3.5	3.3	States and a	ND	Naturally present in the environment
Sodium	ppm	mo	n/a	35 - 47	41	2 Statis	5	Erosion of natural deposits
Total Alkalinity	ppm	mo	n/a	140 - 200	159	98.14	47	Measurement of water to neutralize acids
CONSTITUENT UNITS AL PHG SAMPLES 90% LEVEL NO. OF SITES (MCLG) COLLECTED DETECTED EXCEEDING AL							TYPICAL SOURCES	
Lead	ppb	15	0.2	31 0	0			Internal corrosion of household plumbing systems; discharges from industrial manufactures; erosion of natural deposits
Copper	ppm	1.3	0.3	31 0.22	0			Internal corrosion of household plumbing systems; erosion of natural deposits: leaching from wood preservatives

Water Sources: The water supplied to you by the City of Lathrop includes groundwater from 5 wells that are treated at the City's Louise Avenue Water Treatment Facility and surface water that is treated and delivered by South San Joaquin Irrigation District to the City's water service area.

Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives