2019 Consumer Confidence Report

Water System Name:	Monterey Mushrooms WS	Report Date:	05/07/20	
We test the drinking w	orton and the form	7.6.7		

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, 2019 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse [Enter Water System's Name Here] a [Enter Water System's Address or Phone Number Here] para asistirlo en español.

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 [Enter Water System's Name Here]以获得中文的帮助:[Enter Water System's Address Here][Enter Water System's Phone Number Here]

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa [Enter Water System's Name and Address Here] o tumawag sa [Enter Water System's Phone Number Here] para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ [<u>Enter Water System's Name Here</u>] tại [<u>Enter Water System's Address or Phone Number Here</u>] để được hỗ trợ giúp bằng tiếng Việt.

Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau [Enter Water System's Name Here] ntawm [Enter Water System's Address or Phone Number Here] rau kev pab hauv lus Askiv.

Type of water source(s) in use:	Ground water,	Wells		
Name & general location of source	e(s): Well#5	potable source. Well #4 standb	y. Well#3	3 irrigation. Well #2 irrigation
Drinking Water Source Assessmen	nt information:	All wells are treated with so Monthly routine water test f	dium hypo or coliform	chloride. Monitored daily. n and E.coli by Soil Control Lab.
Time and place of regularly sched	uled board meetin	gs for public participation:		
For more information, contact:	Dennis Powell		Phone:	(831) 274-5543

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 (U.S. EPA).

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

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: Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.

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

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

ppb: parts per billion or micrograms per liter ($\mu g/L$)

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)

monitoring and reporting requirements, and water treatment requirements.

Wells are monitored daily for chlorine residual level.

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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.

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.

Tables 1, 2, 3, 4, 5, and 6 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.

Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a month)	0	1 positive monthly sample ^(a)	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive		Human and animal feca waste
E. coli (federal Revised Total Coliform Rule)	(In the year)	0	(b)	0	Human and animal feca 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*.

TABLE 2	– SAMPL	ING RESU	,	ING THE D	ETEC	TON O	F LEAD AND (COPPER
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	09/11/19	10	ND		15	0.2		Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	09/11/19	10	ND		1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

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	TABLE 3	B - SAMPLING	RESULTS FOR	SODIUM A	AND HARD	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	10/09/14	48		None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	12/21/11	106		None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DE	FECTION C	OF CONTAMIN	ANTS 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
Nitrate as N	01/07/16	1.2				Run off and leaching from fertilizer use. Leaching from septic tanks and sewage erosion of natural deposits
Fluoride	04/29/14	0.15				Erosion of natural deposits water additive which promotes strong teeth. Discharge from fertilizer and aluminum factories
TABLE 5 – DETI	ECTION OF	CONTAMINA	NTS WITH A <u>S</u>	<u>ECONDAR</u>	<u>Y</u> DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Chromium Hexachrome	03/15/17	15				Discharge from electro plating factories, leather tanneries, wood preservation chemical synthesis refractory production facilities erosion of natural deposits
	TABLE		NATION OF THE STATE OF THE STAT			
	·	6 – DETECTIO		LATED CO	INTAMINA)	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion Level	Health Effects Language
Chromium Hexachrome	06/19/17	15				Some people who drink water containing haxalvalent chromium in excess of the MCL over many years may have an increase risk of 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. [ENTER WATER SYSTEM'S NAME HERE] 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

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using water for drinking or cooking. [OPTIONAL: If you do so, you may wish to collect the flushed water and reuse i	it for
another beneficial purpose, such as watering plants. If you are concerned about lead in your water, you may wish to be	houo
your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure	mave ira ic
available from the Safe Drinking Water Hotline (1-800-426-4791) or at http://www.epa.gov/lead .	10 15

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
THE STATE OF THE S				

For Water Systems Providing Groundwater as a Source of Drinking Water

FECAL	TABLE ? . INDICATOR-	7 – SAMPLING POSITIVE GRO			
Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
E. coli	(In the year)		0	(0)	Human and animal fecal waste
Enterococci	(In the year)		TT	N/A	Human and animal fecal waste
Coliphage	(In the year)		TT	N/A	Human and animal fecal waste

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

SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLE
SPECIAL NOTICE FOR UNCORRECTED SIGNIFICANT DEFICIENCIES

APPENDIX F: Certification Form (Suggested Format)

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/certlie/drinkingwater/CCR.shtml)

Water	Syster	n Name:	Monterey	Mushrooms WS			
Water	Syster	n Number:	2701940				
05/11/ given) with tl	2020_ . Furtl he com	her, the syste	em certifies itoring data	by certifies that its date) to customers that the information previously submi	(and appropriate on contained in the	notices of available report is correct	bility have been
Certi	fied by	: Name	:	Dennis Powell	A		
		Signa	ture:	Denny	Powell)		
		Title:		Chief operator T	-2 D-2		
		Phone	Number:	(831) 274-5543		Date: 05/11/2	0
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		Other (attacl	a list of ot	ther methods used)			
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APPENDIX A: Regulated Contaminants with Primary Drinking Water Standards

Microbiological Contaminants

	- " " "	_		
Contaminant	Measure MCL -ment TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Total Coliform Bacteria	MCL:	(0)	Naturally present in	Colliforms are hacteria that are notified to proceed in 41.
(state Total Coliform Rule)	Systems that collect 40 or		the environment	are used as an indicator that other, potentially-harmful, bacteria may be
	5.0% of monthly samples are positive			present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
	Systems that collect less			
	than 40 samples per month:			
	I positive monthly sample	***		
Fecal coliform and E. coli	MCL:	(0)	Human and animal	Fecal coliforms and E. coli are bacteria whose presence indicates that
(State Lotal Coliform Kule)	A routine sample and a		fecal waste	the water may be contaminated with human or animal wastes. Microbes
	coliform positive, and one of		×	in these wastes can cause short-term effects, such as diarrhea, cramps,
	these is also fecal coliform or <i>E. coli</i> positive	·		risk for infants, young children, some of the elderly, and people with severely compromised immune systems
Total Coliform Bacteria (federal Revised Total		N/A	t in	Coliforms are bacteria that are naturally present in the environment and
Coliform Rule)			HIC CHANGINGING	pathogens may be present or that a potentially harmful, waterborne
			****	which contamination may enter the drinking water distribution system.
				We found coliforms indicating the need to look for potential problems in
				water treatment or distribution. When this occurs, we are required to
				that were found during these assessments
				THE TOTAL CHILL THOSE GOODSHIPTS,

Contaminant	Unit Measure -ment	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
E. coli (federal Revised Total Coliform Rule)		Footnote	(0)	Human and animal fecal waste	E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems.
					For the consumer confidence report, if a water system detects E. coli and has violated the E. coli MCL, the water system shall include the following statements, as appropriate.
					 We had an <i>E. coli</i>-positive repeat sample following a total coliform-positive routine sample. We had a total coliform-positive repeat sample following an <i>E. coli</i>-positive routine sample. We failed to take all required repeat samples following an <i>E. coli</i>-
	- Constitution of the Cons	.,,,,,	· · · · · · · · · · · · · · · · · · ·		If the E. coli MCL was not violated, the water system may include a statement that explains that although E. coli was detected, the water system is not in violation of the E. coli MCI
E. coli (federal Revised Total Coliform Rule)]	N/A	Human and animal fecal waste	E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems
Fecal Indicator (E. coli) (Ground Water Rule)		0	(0)	Human and animal fecal waste	Fecal coliforms and <i>E. coli</i> are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes
					in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.

¹ 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*.

Contaminant	Unit Measure -ment	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
(enterococci or coliphage) (Ground Water Rule)		TT	N/A	Human and animal fecal waste	Fecal indicators are microbes whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for
Turbidity		doub.			compromised immune systems.
			Z	Soil runoff	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as cause at the contract of the contract
Giardia lamblia, Viruses, Heterotrophic Plate Count Bacteria, Legionella, Cryptosporidium		TT	HPC = N/A; $Others = (0)$	Naturally present in the environment	Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Radioactive Contaminants

Contaminant	Unit Measure -ment	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Gross Beta Particle Activity	pCi/L	50^{2}	(0)	σ.	Certain minerals are radioactive and may emit forms of radiation known
				man-made deposits	as photons and beta radiation. Some people who drink water containing beta and photon emitters in excess of the MCL over many years may
Ctrontine OO	24.13				have an increased risk of getting cancer.
30000000-90	pCI/L	~	0.35	ă	Some people who drink water containing strontium-90 in excess of the
T 7.5 \$ 1.5 4.7	2:17			man-made deposit	MCL over many years may have an increased risk of getting cancer.
	pCI/L	20,000	400	Ω,	Some people who drink water containing tritium in excess of the MCL
Gross Alaka Bartiala Astinita				man-made deposits	over many years may have an increased risk of getting cancer.
Gross Alpha Farucie Activity	DC//L	U	(0)	Erosion of natural	Certain minerals are radioactive and may emit a form of radiation
				deposits	known as alpha radiation. Some people who drink water containing
					alpha emitters in excess of the MCL over many years may have an
				***************************************	increased risk of getting cancer.

level. ² Effective June 11, 2006, the gross beta particle activity MCL is 4 millirems/year annual dose equivalent to the total body or any internal organ. 50 pCi/L is used as a screening

	[]ranium	water systems)	noutrangiant noncommunity	T.1. D. J. /	Combined Radium 226 & 228		Contaminant	
PCFL	.C:/I		pCi/L		pCi/L	-ment	Unit Measure	
20	30		5,		5	TT, as noted	MCL	
0.43			N/A		(0)3	(MCLG)	PHG	
Erosion of natural deposits		deposits	Erosion of natural	deposits	Erosion of natural	Contamination	Major Sources of	
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.	getting cancer.	excess of the MCL over many years may have an increased risk of	Some people who drink water containing radium 222 224 or 224 in	the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years are the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increased that the MCL over many years may have an increase of the MCL over many years may have a supplied the many years may have a supplied to the	Some people who drink water containing radium 226 or 228 in access of	Health Effects Language		

Inorganic Contaminants

Contaminant	Measure -ment	MCL (AL) TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Aluminum	mg/L		0.6	Erosion of natural deposits;	Some people who drink water containing aluminum in
				residue from some surface water treatment processes	excess of the MCL over many years may experience short-
Ammiony	∏g/L	6	jen-ul	Discharge from petroleum	Some people who drink water containing antimony in
				refineries; fire retardants;	excess of the MCL over many years may experience
Arsenic	1	10		ceramics; electronics; solder	increases in blood cholesterol and decreases in blood sugar.
TELOCATEC] (B)	10	0.004	Erosion of natural deposits;	Some people who drink water containing arsenic in excess
				runoll from orchards; glass and	of the MCL over many years may experience skin damage
	7			electronics production wastes	or circulatory system problems, and may have an increased
Acheetoe	NATI -	77			risk of getting cancer.
11000000	ZIF1		7	Internal corrosion of asbestos	Some people who drink water containing asbestos in excess
				cement water mains; erosion of	of the MCL over many years may have an increased risk of
Rogina	4			natural deposits	developing benign intestinal polyps.
Banun	mg/L		2	Discharge of oil drilling wastes	Some people who drink water containing barium in excess
				and from metal refineries;	of the MCL over many years may experience an increase in
Berylline				erosion of natural deposits	blood pressure.
Бегушан	T/8n	4		Discharge from metal refineries,	Some people who drink water containing beryllium in
					excess of the MCL over many years may develop intestinal
		**		electrical, aerospace, and defense	lesions.
70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001 - 70001				industries	

³ If reporting results for Ra-226 and Ra-228 as individual constituents, the PHG is 0.05 pCi/L for Ra-226 and 0.019 pCi/L for Ra-228.

	I Init				
Contaminant	Measure	MCL (AL) TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Cadmium	T/Bni	5	0.04	Internal corrosion of galvanized	Some people who drink water containing codmism in
				pipes; erosion of natural deposits: discharge from	of the MCL over many years may experience kidney
		111 0.		electroplating and industrial	Callidge.
				chemical factories, and metal	
	····			refineries; runoff from waste	
	***************************************			batteries and paints	
Chromium (Lotal)	μg/L	50	(100)	Discharge from steel and pulp	Some people who use water containing chromium in excess
		•		mills and chrome plating;	of the MCL over many years may experience alleroic
			***************************************	erosion of natural deposits	dermatitis.
Copper	mg/L	(AL=1.3)	0.3	Internal corrosion of household	Copper is an essential nutrient, but some people who drink
				plumbing systems; erosion of	water containing copper in excess of the action level over a
				natural deposits; leaching from	relatively short amount of time may experience
			**-	wood preservatives	gastrointestinal distress. Some people who drink water
					containing copper in excess of the action level over many
					years may suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor
Cyanide	μg/L	150	150	Discharge from steel/metal,	Some people who drink water containing cyanide in excess
				plastic and fertilizer factories	of the MCL over many years may experience nerve damage or thyroid mobilems
Fluoride	mg/L	2.0		Erosion of natural deposits;	Some people who drink water containing fluoride in excess
				water additive which promotes	of the federal MCL of 4 mg/L over many years may get
				strong teeth; discharge from	bone disease, including pain and tenderness of the bones.
	****			fertilizer and aluminum factories	Children who drink water containing fluoride in excess of
					the state MCL of 2 mg/L may get mottled teeth.
Leau	μg/L	(AL=15)	0.2	Internal corrosion of household	Infants and children who drink water containing lead in
			····	water plumbing systems;	excess of the action level may experience delays in their
***************************************				discharges from industrial	physical or mental development. Children may show slight
				manufacturers; erosion of natural	deficits in attention span and learning abilities. Adults who
			***	deposits	
Mercury (Inorganic)	1/2/1		-	T + T	productis of figh blood pressure.
incicaly (HOIganic)	11.0%	F	1.2	brosion of natural deposits; discharge from refineries and	Some people who drink water containing mercury in excess of the MCL over many years may experience mental
				factories; runoff from landfills	disturbances, or impaired physical coordination, speech and
				and cropland	hearing.
Nickel	μg/L	100	12	Erosion of natural deposits;	Some people who drink water containing nickel in excess of
				discharge from metal factories	the MCL over many years may experience liver and heart
					e Tects.

Contaminant	Unit Measure -ment	MCL (AL) TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Nitrate (as Nitrogen, N)	mg/L	10	10	Runoff and leaching from	Infants below the age of six months who drink water
				fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the committee of the containing mineral levels can interfere with the committee of the containing mineral levels can interfere with the committee of the containing mineral levels can interfere with the containing mineral levels can interfere with the containing mineral levels can interfere with the containing mineral levels can be a seen as a second containing mineral levels can be a second contained to the second containing mineral levels can be a second containing mineral level containing mineral levels ca
					blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may
The state of the s					also affect the oxygen-carrying ability of the blood of
Nitrite (as nitrogen, N)	mg/L	,		Runoff and leaching from	Infants helow the are of the moulton.
				fertilizer use; leaching from	containing nitrite in excess of the MCI, may quickly
		***		septic tanks and sewage; erosion	become seriously ill and, if untreated, may die. Symptoms
Perchiorate	1,2,1		7	of natural deposits	include shortness of breath and blueness of the skin.
	- K8/1		-	chemical used in solid rocket	Perchlorate has been shown to interfere with uptake of iodide by the thyroid gland and to thereby reduce the
				propellant, fireworks, explosives,	production of thyroid hormones, leading to adverse affects
	***			flares, matches, and a variety of	associated with inadequate hormone levels. Thyroid
				industries. It usually gets into	hormones are needed for normal prenatal growth and
				drinking water as a result of	development of the fetus, as well as for normal growth and
				from historic aerospace or other	hormones are needed for normal matabalism and manual
***************************************				industrial operations that used or	function.
Mar.				use, store, or dispose of	
Selenium	J/gn	50	30	Discharge from patroleum whee	Solonium is an accountial to the solonium in the solonium is an accountial to the solonium in the solonium is a solonium in the solonium in the solonium is a solonium in the
				and metal refineries; erosion of	who drink water containing selenium in excess of the MCI
				natural deposits; discharge from	over many years may experience hair or fingernail losses
٨					numbness in fingers or toes, or circulation system problems.
·		~~~		manufacturers; runoff from	***************************************
777.011	Α.			livestock lots (feed additive)	
	μ <u>ő</u> /L	2	0.1	Leaching from ore-processing	Some people who drink water containing thallium in excess
				glass, and drug factories	changes in their blood or kidney intestinal or liver
					problems.

Synthetic Organic Contaminants including Pesticides and Herbicides

Contaminant	Unit	MCL	PHG	Major Sources of	
Сощанинан	-ment	TT, as noted	(MCLG)	Contamination	Health Effects Language
2,4-D	Т/Ви	70	20	Runoff from herbicide used on	Some people who use water containing the weed killer 2.4.
				row crops, range land, lawns, and aquatic weeds	D in excess of the MCL over many years may experience kidney, liver, or adrenal pland problems
2,4,5-1P (Silvex)	μg/L	50	w	Residue of banned herbicide	Some people who drink water containing Silvex in excess of the MCL over many years may experience liver
Acrylamide		TT	(0)	Added to water during	problems.
, NOT JAMITIME)	(0)	Added to water during sewage/wastewater treatment	Some people who drink water containing high levels of acrylamide over a long period of time may experience
			**************************************		nervous system or blood problems, and may have an increased risk of getting cancer.
Alachior	ug/L	12	4	Runoff from herbicide used on	Some people who use water containing alachlor in excess of
				row crops	the MCL over many years may experience eye, liver, kidney, or spleen problems, or experience anemia, and may
	**************************************			THE RESERVE THE PROPERTY OF TH	have an increased risk of getting cancer.
Atrazine	µg/L	است. است.	0.15	Runoff from herbicide used on row crops and along railroad and	Some people who use water containing atrazine in excess of the MC1 over many years may experience cardiovascular
7				highway right-of-ways	system problems or reproductive difficulties.
Bentazon	μg/L	18	200	Runoff/leaching from herbicide	Some people who drink water containing bentazon in
				used on beans, peppers, corn,	excess of the MCL over many year may experience prostate
				peanuts, rice, and ornamental	and gastrointestinal effects.
				grasses	
Benzo(a)pyrene (PAH)	ng/L	200	7	Leaching from linings of water	Some people who use water containing benzo(a)pyrene in
				storage tanks and distribution	excess of the MCL over many years may experience
		W		mains	reproductive difficulties and may have an increased risk of getting cancer.
Carbofuran	T/8nf	18	0.7	Leaching of soil fumigant used	Some people who use water containing carbofuran in excess
			***************************************	on rice and alfalfa, and grape	of the MCL over many years may experience problems with
				vineyards	their blood, or nervous or reproductive system problems.
Chlordane	ng/L	100	30	Residue of banned insecticide	Some people who use water containing chlordane in excess of the MCL over many years may experience liver or
					nervous system problems, and may have an increased risk of getting cancer.
Dalapon	µg/L	200	790	Runoff from herbicide used on	Some people who drink water containing dalapon in excess
			****	rights-of-ways, and crops and	of the MCL over many years may experience minor kidney
				landscape maintenance	changes.

Contaminant	Unit Measure	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Di(2-ethylhexyl) adipate	Т/8и	400	200	Discharge from chemical factories	Some people who drink water containing di(2-ethylhexyl) adipate in excess of the MCL over many years may experi
					ence weight loss, liver enlargement, or possible reproductive difficulties.
Di(2-ethymexyi) primalate	µg/L	4	12	Discharge from rubber and chemical factories; inert	Some people who use water containing di(2-ethylhexyl) phthalate in excess of the MCL over many years may
				ingredient in pesticides	experience liver problems or reproductive difficulties, and may have an increased risk of getting cancer.
(DBCP)	ng/L	200	, <u>)</u>	Banned nematocide that may still be present in soils due to	Some people who use water containing DBCP in excess of the MCL over many years may experience reproductive
				runoff/leaching from former use	difficulties and may have an increased risk of getting
				tomatoes, and tree fruit	CHROCI.
Dinoseb	μg/L	7	14	Runoff from herbicide used on	Some people who drink water containing dinoseb in excess
				soybeans, vegetables, and fruits	of the MCL over many years may experience reproductive difficulties.
Dioxin (2,3,7,8-TCDD)	pg/L	30	0.05	Emissions from waste incineration and other	Some people who use water containing dioxin in excess of the MCI over many years may experience reproductive
				combustion; discharge from	difficulties and may have an increased risk of getting
Diquat	J/gri	20	6	Runoff from herbicide use for	Some people who drink water containing diquat in excess of
				terrestrial and aquatic weeds	the MCL over many years may get cataracts.
Endothall	T/g/I	100	94	Runoff from herbicide use for	Some people who drink water containing endothall in
		777		defoliant	stomach or intestinal problems.
Endrin	μg/L	2	0.3	Residue of banned insecticide and rodenticide	Some people who drink water containing endrin in excess of the MCL over many years may experience liver
Epichlorohydrin			(0)	Discharge from industrial	Some people who drink water containing high levels of
				chemical factories; impurity of some water treatment chemicals	epichlorohydrin over a long period of time may experience stomach problems, and may have an increased risk of
	***************************************				getting cancer.
Ethylene dibromide (EDB)	ng/L	50	10	Discharge from petroleum refineries; underground gas tank	Some people who use water containing ethylene dibromide in excess of the MCL over many years may experience
				leaks; banned nematocide that	liver, stomach, reproductive system, or kidney problems,
				may still be present in soils due	and may have an increased risk of getting cancer.
AND THE PROPERTY OF THE PROPER	The state of the s	THE REAL PROPERTY AND THE PROPERTY AND T		and fruit crops	

Contaminant	Unit Measure -ment	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Glyphosate	µg/L	700	900	Runoff from herbicide use	Some people who drink water containing glyphosate in excess of the MCL over many years may experience kidney
Heptachlor	ng/L	10	∞	Residue of banned insecticide	Some people who use water containing heptachlor in excess of the MCL over many years may experience liver damage and may have an increased risk of carrier contains.
Heptachlor epoxide	ng/L	10	6	Breakdown of heptachlor	Some people who use water containing heptachlor epoxide in excess of the MCL over many years may experience liver damage, and may have an increased risk of petting cancer.
Hexachlorobenzene	μg/L		0.03	Discharge from metal refineries and agricultural chemical factories; byproduct of chlorination reactions in wastewater	Some people who drink water containing hexachlorobenzene in excess of the MCL over many years may experience liver or kidney problems, or adverse reproductive effects, and may have an increased risk of certain cancer.
Hexachlorocyclopentadiene	μg/L	50	2	Discharge from chemical factories	Some people who use water containing hexachlorocyclopentadiene in excess of the MCL over many years may experience kidney or stomach problems.
Lindane	ng/L	200	32	Runoff/leaching from insecticide used on cattle, lumber, and gardens	Some people who drink water containing lindane in excess of the MCL over many years may experience kidney or liver problems.
Methoxychlor	μg/L	30	0.09	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, and livestock	Some people who drink water containing methoxychlor in excess of the MCL over many years may experience reproductive difficulties
Molinate (Ordram)	T/But	20		Runoff/leaching from herbicide used on rice	Some people who use water containing molinate in excess of the MCL over many years may experience reproductive effects.
Oxamyl (Vydate)	μg/L	50	26	Runoff/leaching from insecticide used on field crops, fruits and ornamentals, especially apples, potatoes, and tomatoes	Some people who drink water containing oxamyl in excess of the MCL over many years may experience slight nervous system effects.
PCBs (Polychlorinated biphenyls)	ng/L	500	90	Runoff from landfills; discharge of waste chemicals	Some people who drink water containing PCBs in excess of the MCL over many years may experience changes in their skin, thymus gland problems, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.
Pentachlorophenol	µg/L		0.3	Discharge from wood preserving factories, cotton and other insecticidal/herbicidal uses	Some people who use water containing pentachlorophenol in excess of the MCL over many years may experience liver or kidney problems, and may have an increased risk of getting cancer.

Contaminant	Unit Measure -ment	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Picloram	нg/L	500	166	Herbicide runoff	Some people who drink water containing picloram in excess of the MCL over many years may experience liver
Singzina		*			problems.
эннахине	μg/L	4.	4.	Herbicide runoff	Some people who use water containing simazine in excess of the MCL over many years may experience blood
Thiobencarb	hg/L	70	42	Runoff/leaching from herbicide used on rice	Some people who use water containing thiobencarb in excess of the MCL over many years may experience body weight and blood effects
Ioxaphene	μg/L	ω	0.03	Runoff/leaching from insecticide used on cotton and cattle	Some people who use water containing toxaphene in excess of the MCL over many years may experience kidney, liver,
					or thyroid problems, and may have an increased risk of getting cancer.
1,2,5-1 richloropropane	ng/L	S	0.7	Discharge from industrial and	Some people who drink water containing 1,2,3-
			····	agricultural chemical factories;	trichloropropane in excess of the MCL over many years
				sites; used as cleaning and	may have an increased risk of getting cancer.
				maintenance solvent, paint and	
				varnish remover, and cleaning	
				and degreasing agent; byproduct	
				during the production of other	
PROGRAMAGO				compounds and pesticides.	

Volatile Organic Contaminants

Contaminant	Unit Measure -ment	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Benzene	µg/L	procede	0.15	Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and	Some people who use water containing benzene in excess of the MCL over many years may experience anemia or a decrease in blood platelets, and may have an increased risk
				landfills	of getting cancer.
Carbon tetrachloride	ng/L	500	100	Discharge from chemical plants	Some people who use water containing carbon tetrachloride
				and other industrial activities	in excess of the MCL over many years may experience liver
					problems and may have an increased risk of getting cancer.
1,2-Dichlorobenzene	µg/L	600	600	Discharge from industrial	Some people who drink water containing 1,2-
				chemical factories	dichlorobenzene in excess of the MCL over many years
					may experience liver, kidney, or circulatory system
					problems.

Contaminant	Unit Measure	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
1,4-Dichlorobenzene	μg/L	5	6	Discharge from industrial chemical factories	Some people who use water containing 1.4-dichlorobenzene in excess of the MCL over many years may experience anemia, liver, kidney, or spleen damage, or changes in their blood
1,1-Dichloroethane	μg/L	S	ယ	Extraction and degreasing solvent; used in the manufacture of pharmaceuticals, stone, clay, and place products: furniteers	Some people who use water containing 1,1-dichloroethane in excess of the MCL over many years may experience nervous system or respiratory problems.
1,2-Dichloroethane	ng/L	500	400	Discharge from industrial chemical factories	Some people who use water containing 1,2- dichloroethane in excess of the MCL over many years may have an
I,1-Dichloroethylene	μg/L	6	10	Discharge from industrial chemical factories	Some people who use water containing 1,1- dichloroethylene in excess of the MCL over many years
cis-1,2-Dichloroethylene	μg/L	6	100	Discharge from industrial chemical factories; major biodegradation byproduct of TCE and PCE groundwater contamination	Some people who use water containing cis-1,2-dichloroethylene in excess of the MCL over many years may experience liver problems.
trans-1,2-Dichloroethylene	1/8th	10	60	Discharge from industrial chemical factories; minor biodegradation byproduct of TCE and PCE groundwater contamination	Some people who drink water containing trans-1,2-dichloroethylene in excess of the MCL over many years may experience liver problems.
Dichloromethane	μg/L	5	4	Discharge from pharmaceutical and chemical factories; insecticide	Some people who drink water containing dichloromethane in excess of the MCL over many years may experience liver problems and may have an increased risk of certain concerno
1,2-Dichloropropane	μg/L	5	0.5	Discharge from industrial chemical factories; primary component of some fumigants	Some people who use water containing 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer
1,3-Dichloropropene	ng/L	500	200		Some people who use water containing 1,3-dichloropropene in excess of the MCL over many years may have an increased risk of getting cancer.
Ethylbenzene	Т/814	300	300	Discharge from petroleum refineries; industrial chemical factories	Some people who use water containing ethylbenzene in excess of the MCL over many years may experience liver or kidney problems.
Methyl- <i>tert</i> -butyl ether	hg/L	13	13	Leaking underground storage tanks; discharges from petroleum and chemical factories	Some people who use water containing methyl-tert-butyl ether in excess of the MCL over many years may have an increased risk of getting cancer.

707	Unit		200	# • • · · ·	
Contaminant	Measure -ment	TT, as noted	(MCLG)	Major Sources of Contamination	Health Effects Language
Monochlorobenzene	µg/L	70	70	Discharge from industrial and	Some people who use water containing monochlorobenzene
THE REAL PROPERTY AND THE PROPERTY AND T				agricultural chemical factories and drycleaning facilities	in excess of the MCL over many years may experience liver or kidney problems
Styrene	μg/L	100	0.5	Discharge from rubber and	Some people who drink water containing styrene in excess
111.		10-		plastic factories; leaching from	of the MCL over many years may experience liver, kidney,
The state of the s				landfills	or circulatory system problems, and may have an increased risk of getting cancer.
1,1,2,2-Tetrachloroethane	μg/L	<u></u>	0.1	Discharge from industrial and	Some people who drink water containing 1,1,2,2-
				agricultural chemical factories;	tetrachloroethane in excess of the MCL over many years
				solvent used in production of	may experience liver or nervous system problems.
				ICE, pesticides, varnish and	
				lacquers	
Tetrachloroethylene (PCE)	mg/L	ن ا	0.06	Discharge from factories, dry	Some people who use water containing tetrachloroethylene
				cleaners, and auto shops (metal	in excess of the MCL over many years may experience liver
				degreaser)	problems, and may have an increased risk of getting cancer.
1,2,4-1fichlorobenzene	η8η	5	Ų,	Discharge from textile-finishing	Some people who use water containing 1,2,4-
				factories	trichlorobenzene in excess of the MCL over many years
1,1,1-Trichloroethane	Hg/L	200	1000	Discharge from metal degreasing	Some people who use water containing [.].]-
				sites and other factories;	trichloroethane in excess of the MCL over many years may
				manufacture of food wrappings	experience liver, nervous system, or circulatory system
1,1,2-Trichloroethane	lug/L	5	0.3	Discharge from industrial	Some people who use water containing 1,1,2-
				chemical factories	trichloroethane in excess of the MCL over many years may
Trichlographylana (TCE)	::>/	7	1		experience liver, kidney, or immune system problems.
Hichoroentylene (1CE)	ig/L	0		Discharge from metal degreasing sites and other factories	Some people who use water containing trichloroethylene in excess of the MCI over many wars may experience liver
				CHAN THOUGHTON	problems and may have an increased risk of getting cancer
Toluene	T/Bnl	150	150	Discharge from petroleum and	Some people who use water containing toluene in excess of
		***************************************		chemical factories; underground	the MCL over many years may experience nervous system,
2				gas tank leaks	kidney, or liver problems.
Trichlorofluoromethane	µg/L	150	1300	Discharge from industrial	Some people who use water containing
The state of the s				factories; degreasing solvent;	trichlorofluoromethane in excess of the MCL over many
***************************************			***************************************	propellant and refrigerant	years may experience liver problems.
1,1,2-Trichloro-1,2,2-	mg/L	1.2	4	Discharge from metal degreasing	Some people who use water containing 1,1,2-trichloro-
trifluoroethane				sites and other factories;	1,2,2-trifloroethane in excess of the MCL over many years
				drycleaning solvent; refrigerant	may experience liver problems.

Contaminant	Measure -ment	MCL TT, as noted	PHG (MCLG)	Major Sources of Contamination	Health Effects Language
Vinyl chloride	ng/L	500	50	n PVC piping; n plastics factories; n byproduct of groundwater	Some people who use water containing vinyl chloride in excess of the MCL over many years may have an increased risk of getting cancer.
Xylenes	mg/L	1.750	8 . E	Discharge from petroleum and chemical factories; fuel solvent	Some people who use water containing xylenes in excess of the MCL over many years may experience nervous system
					damage.

Disinfection Byproducts, Disinfectant Residuals, and Disinfection Byproduct Precursors

	11.				The state of the s
Contaminant	Measure -ment	MRDLI TT. as noted	(MCLG)	Major Sources of Contamination	Health Effects Language
TTHMs (Total	μg/L	80	N/A	Byproduct of drinking water	Some people who drink water containing trihalomethanes in
**************************************				disinfection	excess of the MCL over many years may experience liver,
TYANG CO		The state of the s	***************************************	And the state of t	kidney, or central nervous system problems, and may have an increased risk of getting cancer.
Acids)	µg/L	60	N/A	Byproduct of drinking water	Some people who drink water containing haloacetic acids in
D				disinfection	excess of the MCL over many years may have an increased risk of getting cancer.
DIOIDAG	T/Bnf	~	0.1	Byproduct of drinking water disinfection	Some people who drink water containing bromate in excess
Chloronino	7				getting cancer.
Chordenines	mg/L	[MRDL =	[MRDLG =	Drinking water disinfectant	Some people who use water containing chloramines well in
		4.0 (as C12)]	+ (as Cl ₂₎]	added for freatment	excess of the MRDL could experience irritating effects to
					their eyes and nose. Some people who drink water
					containing chloramines well in excess of the MRDL could
Chlorine	T/nm	MDDI —	Ann		experience stomach discomfort or anemia.
	E C	4.0 (as Cb)	4 (as Ch)	Drinking water disinfectant	Some people who use water containing chlorine well in
				nesses tot asamtoni	their eves and nose. Some neonle who drink water
					containing chlorine well in excess of the MRDL could
	***************************************				experience stomach discomfort.
					-

Contaminant	Unit Measure	MCL	PHG (MCLG)	Major Sources of	Health Effects Language
And the second s	-ment	TT, as noted	[MRDLG]	Contamination	invalum Enfects Language
Chlorite	mg/L	1.0	0.05	Byproduct of drinking water disinfection	Some infants and young children who drink water containing chlorite in excess of the MCL could experience
					nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing
					chlorite in excess of the MCL. Some people may
Oli Circuit Ci	-				experience anemia.
CHOLINE DIOXIGE	181	[MRDL = 800 (as CIO2)]	[MRDLG = 800 (as	Drinking water disinfectant added for treatment	Some infants and young children who drink water containing chlorine dioxide in excess of the MRDI could
			$ClO_2)]$		experience nervous system effects. Similar effects may
					occur in fetuses of pregnant women who drink water
					containing chlorine dioxide in excess of the MRDL. Some
C. Compa					people may experience anemia.
(TAC)		, ,	NA	Various natural and man-made	Total organic carbon (TOC) has no health effects.
		****		sources	However, total organic carbon provides a medium for the
					formation of disinfection byproducts. These byproducts
					include trihalomethanes (THMs) and haloacetic acids
					(HAAs). Drinking water containing these byproducts in
					excess of the MCL may lead to adverse health effects, liver
					or kidney problems, or nervous system effects, and may
***************************************					lead to an increased risk of cancer.

APPENDIX B: Regulated Contaminants with Secondary Drinking Water Standards

Monitoring Required by Section 64449, Chapter 15, Title 22, California Code of Regulations

Contaminant	Unit Measurement	MCL	Typical Source of Contaminant
Aluminum	μg/L	200	Erosion of natural deposits; residual from some surface water treatment processes
Color	Units	15	Naturally-occurring organic materials
Copper	mg/L	1.0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Foaming Agents (MBAS)	μg/L	500	Municipal and industrial waste discharges
Iron	μg/L	300	Leaching from natural deposits; industrial wastes
Manganese	μg/L	50	Leaching from natural deposits
Methyl-tert-butyl ether (MTBE)	μg/L	5	Leaking underground storage tanks; discharge from petroleum and chemical factories
OdorThreshold	Units	3	Naturally-occurring organic materials
Silver	μg/L	100	Industrial discharges
Thiobencarb	μg/L	1	Runoff/leaching from rice herbicide
Turbidity	Units	5	Soil runoff
Zinc	mg/L	5.0	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	mg/L	1,000	Runoff/leaching from natural deposits
Specific Conductance	μS/cm	1,600	Substances that form ions when in water; seawater influence
Chloride	mg/L	500	Runoff/leaching from natural deposits; seawater influence
Sulfate	mg/L	500	Runoff/leaching from natural deposits; industrial wastes

There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because secondary MCLs are set on the basis of aesthetics.

APPENDIX C: Monitored Contaminants with No MCLs

Background

The 1996 Amendments to the SDWA required the U.S. EPA to establish criteria for a monitoring program for unregulated contaminants, and to publish, once every five years, a list of no more than 30 contaminants to be monitored by public water systems (PWS).

Section 64450 of the California Code of Regulations also required certain water systems to monitor a number of unregulated contaminants, with contaminant lists that were published or revised in 1990, 1996, 2000, and 2003. This section of the California Code of Regulations was repealed effective October 18, 2007. Water systems that continued to monitor for state unregulated contaminants are encouraged, but not required, to include the information regarding detected contaminants in the CCR.

Although Section 64450 of the California Code of Regulations was repealed, the State Water Board may request water systems to monitor for specific contaminants per HSC section 116375(b).

Federal UCMR 1 (2001 – 2003 Monitoring)

The U.S. EPA published the first list of contaminants to monitor as part of the UCMR in September 1999. Contaminants were divided into two lists: Assessment Monitoring (List 1), and Screening Survey (List 2).

Assessment Monitoring of List 1 contaminants was conducted by large PWS serving more than 10,000 people and 800 representative small PWS serving 10,000 or fewer people. Assessment Monitoring was conducted by each PWS over a 12-month period between 2001 and 2003.

Screening Survey was conducted by a randomly selected set of 300 large and small PWSs for List 2 contaminants. Screening Survey for chemical contaminants was conducted in 2001 and 2002 for small and large PWS, respectively. Screening Survey for *Aeromonas* was conducted in 2003 for small and large PWS.

	UCMR 1	
List 1 – Assessment Monitoring	List 2 – Screening Survey	
2,4-dinitrotoluene	1,2-diphenylhydrazine	
2,6-dinitrotoluene	2-methyl-phenol	
Acetochlor	2,4-dichlorophenol	
DCPA mono-acid degradate	2,4-dinitrophenol	
DCPA di-acid degradate	2,4,6-trichlorophenol	
4,4'-DDE	Aeromonas	
EPTC	Alachlor ESA	
Molinate	Diazinon	
MTBE	Disulfoton	
Nitrobenzene	Diuron	
Perchlorate	Fonofos	

Terbacil	Linuron
	Nitrobenzene
	Prometon
	Hexahydro-1,3,5-trinitro-1-3-5-triazine [RDX]
	Terbufos

Federal UCMR 2 (2008 – 2010 Monitoring)

The U.S. EPA published the second list of contaminants to monitor as part of the UCMR in January 2007.

Assessment Monitoring was required of all PWS serving more than 10,000 people and 800 representative PWS serving 10,000 or fewer people for List 1 contaminants. Assessment Monitoring was required of each PWS during a 12-month period from January 2008 to December 2010.

Screening Survey was required of all PWS serving more than 100,000 people, 320 representative PWS serving 10,001 to 100,000 people, and 480 representative PWS serving 10,000 or fewer people for List 2 contaminants. Screening Survey was required of each PWS during a 12-month period from January 2008 to December 2010.

U	CMR 2
Dimethoate Terbufos sulfone 2,2',4,4'-tetrabromodiphenyl ether 2,2',4,4',5-pentabromodiphenyl ether 2,2',4,4',5,5'-hexabromodiphenyl 2,2',4,4',5,5'-hexabromodiphenyl ether 2,2',4,4',6-pentabromodiphenyl ether 1,3-dinitrobenzene 2,4,6-trinitrotoluene (TNT) Hexahydro-1,3,5-trinitro-1,3,5-trazine (RDX)	List 2 – Screening Survey Acetochlor ethane sulfonic acid Acetochlor oxanilic acid Alachlor ethane sulfonic acid Alachlor oxanilic acid Metolachlor ethane sulfonic acid Metolachlor oxanilic acid Acetochlor acid Acetochlor Alachlor Metolachlor N-nitrosodiethylamine (NDEA) N-nitrosodimethylamine (NDMA) N-nitroso-di-n-butylamine (NDBA) N-nitroso-di-n-propylamine (NDPA) N-nitrosomethylethylamine (NMEA) N-nitrosomethylethylamine (NMEA) N-nitrosopyrrolidine (NPYR)

Federal UCMR 3 (2013 – 2015 Monitoring)

The third UCMR list of contaminants was published in May 2012.

Assessment Monitoring (List 1 Contaminants) was required of all PWS serving more than 10,000 people and 800 representative PWS serving 10,000 or fewer people. Assessment

Monitoring was required of each PWS during a 12-month period from January 2013 to December 2015.

Screening Survey (List 2 Contaminants) was required of all PWS serving more than 100,000 people, 320 representative PWS serving 10,001 to 100,000 people, and 480 representative PWS serving 10,000 or fewer people. Screening Survey was required of each PWS during a 12-month period from January 2013 to December 2015.

Pre-screen Testing (List 3 Contaminants) was required from a selection of 800 representative PWS serving 1,000 or fewer people that do not disinfect. These PWS were selected because they have groundwater wells that were located in areas of karst or fractured bedrock. Monitored lasted 12 months between January 2013 and December 2015.

	UCMR 3
List 1 – Assessment Monitoring	List 2 – Screening Survey
1,2,3-trichloropropane 1,3-butadiene Chloromethane (methyl chloride) 1,2-dichloroethane Bromomethane (methyl bromide) Chlorodifluoromethane (HCFC-22) Bromochloromethane (halon 1011) 1,4-dioxane	17-β-estradiol 17-α-ethynylestradiol (ethinyl estradiol) 16-α-hydroxyestradiol (estriol) Equilin Estrone Testosterone 4-anderostene-3,17-dione
Vanadium Molybdenum Cobalt Strontium Chromium (total) Chromium-6 Chlorate	List 3 – Pre-Screen Testing Enteroviruses Noroviruses
Perfluorooctanesulfonate acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluorononanoic acid (PFNA) Perfluorohexanesulfonic acid (PFHxS) Perfluoroheptanoic acid (PFHpA) Perfluorobutanesulfonic acid (PFBS)	

Federal UCMR 4 (2018 – 2020 Monitoring)

The fourth list of contaminants to monitor as part of the UCMR was published by the U.S. EPA in December 2016.

PWSs are required to monitor for 10 cyanotoxins at the entry point to the distribution system during a 4-consecutive month period from March 2018 through November 2020, according to the table

below. PWSs are also required to monitor for 20 additional chemical contaminants and indicators during a 12-month period from January 2018 through December 2020. The sampling site for these additional chemicals is the entry point to the distribution system, except for HAAs that need to be monitored at the Stage 2 D/DBPR sampling sites. The two indicators, *i.e.*, TOC and bromide, need to be monitored at source water intakes.

System Size (Population Served)	10 Cyanotoxins	20 Chemicals
Small Systems (25 – 10,000)	800 randomly selected surface water or ground water under the direct influence of surface water (GWUDI) systems	A different group of 800 randomly selected surface water systems, GWUDI and groundwater systems
Large Systems (10,001 or more)	All surface water and GWUDI systems	All surface water, groundwater and GWUDI systems

The 10 cyanotoxins and 20 additional chemical contaminants and indicators are listed in the table below.

	UCMR 4	
Cyanotoxins	Minimum Reporting Level	
Total Microcystin	0.3 μg/L	
Microcystin-LA	0.008 µg/L	
Microcystin-LF	0.006 μg/L	
Microcystin-LR	0.02 μg/L	
Microcystin-LY	0.009 μg/L	
Microcystin-RR	0.006 μg/L	
Microcystin-YR	0.02 μg/L	
Nodularin	0.005 μg/L	
Anatoxin-a	$0.03 \mu g/L$	
Cylindrospermopsin	$0.09 \mu\text{g/L}$	
Additional Chemicals	Minimum Reporting Level	
Germanium	0.3 μg/L	
Manganese	0.4 μg/L	
Alpha-hexachlorocyclohexane	0.01 μg/L	
Chlorpyrifos	0.03 μg/L	
Dimethipin	0.2 μg/L	
Ethoprop	0.03 µg/L	ĺ
Oxyfluorfen	$0.05 \mu \mathrm{g/L}$	
Profenofos	0.3 μg/L	
Tebuconazole	$0.2 \mu g/L$	
Total Permethrin (cis- & trans-)	$0.04 \mu\mathrm{g/L}$	
Tribufos	0.07 μg/L	
HAA5	N/A	,
HAA6Br ¹	N/A	

HAA9 ²	N/A	
1-butanol 2-methoxyethanol 2-propen-1-ol	2.0 µg/L 0.4 µg/L 0.5 µg/L	
butylated hydroxyanisole o-toluidine quinoline	0.03 μg/L 0.007 μg/L 0.02 μg/L	
Total Organic Carbon (TOC) Bromide	N/A N/A	

¹ HAA6Br: Bromochloroacetic acid, bromodichloroacetic acid, dibromoacetic acid, dibromochloroacetic acid, monobromoacetic acid, and tribromoacetic acid.

Reporting

U.S. EPA is essentially silent on the issue of reporting federal UCMR contaminants beyond the previous calendar year's detections, other than to say it is not required and that data older than five years need not be reported. As a result, the State Water Board recommends systems to report data for five years from the date of the last sampling.

² HAA9: Bromochloroacetic acid, bromodichloroacetic acid, chlorodibromoacetic acid, dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, tribromoacetic acid, and trichloroacetic acid.

APPENDIX D: State Contaminants with Notification Levels

Inclusion of the Notification Level (NL) and health effects language for contaminant concentrations detected above the NL is recommended, but not required.

Chemical	Notification Level	Health Effects Language (Optional)
Boron	l mg/L	Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats.
n-Butylbenzene	260 μg/L	Exposures to cumene (isopropylbenzene), a surrogate for
sec-Butylbenzene	260 μg/L	n-, sec-, and tert-butylbenzene, resulted in increased
tert-Butylbenzene	260 μg/L	kidney weight in rats.
Carbon Disulfide	160 μg/L	Carbon disulfide exposures resulted in decreased motor conduction velocity in people.
Chlorate	800 μg/L	Animal studies demonstrated that chlorate exposure in rats caused adverse effects to the pituitary and thyroid glands.
2-Chlorotoluene	140 μg/L	2-Chlorotoluene exposures resulted in decrease in body
4-Chlorotoluene	140 μg/L	weight gain in rats. 4-Chlorotoluene is expected to have health effects similar to those of 2-chlorotoluene.
Diazinon	1.2 μg/L	Diazinon exposures may result in neurotoxic effects.
Dichlodifluoromethane [Freon 12]	1 mg/L	Dichlorodifluoromethane exposures resulted in reduced body weight in rats.
1,4-Dioxane	1 μg/L	1,4-Dioxane exposures resulted in cancer, based on studies in laboratory animals.
Ethylene Glycol	14 mg/L	Ethylene glycol exposures resulted in kidney toxicity in rats.
Formaldehyde	100 μg/L	Formaldehyde exposures resulted in reduced weight gain and histopathology in rats.
Octahydro-1,3,5,7- tetranitro-1,3,5,7- tetrazocine [HMX]	350 μg/L	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine exposures resulted in liver lesions in rats.
Isopropylbenzene	770 μg/L	Isopropylbenzene exposures resulted in increased kidney weight in rats.
Manganese	500 μg/L	Manganese exposures resulted in neurological effects. High levels of manganese in people have been shown to result in adverse effects to the nervous system.
Methyl Isobutyl Ketone [MIBK]	120 μg/L	Methyl isobutyl ketone exposures resulted in increased kidney and liver weight, and kidney pathology in rats.
Naphthalene	17 μg/L	Naphthalene exposures resulted in decreased body weight in rats.
N-Nitrosodiethylamine [NDEA]	10 ng/L	N-nitrosodiethylamine exposures resulted in cancer in a variety of laboratory animals.

Chemical	Notification Level	Health Effects Language (Optional)
N-Nitrosodimethylamine [NDMA]	10 ng/L	N-nitrosodimethylamine exposures resulted in cancer in a variety of laboratory animals.
N-Nitrosodi-n- propylamine [NDPA]	10 ng/L	N-nitrosodi-n-propylamine exposures resulted in cancer in a variety of laboratory animals.
Perfluorooctanoic Acid [PFOA]	5.1 ng/L**	Perfluorooctanoic acid exposures resulted in increased liver weight in laboratory animals.
Perfluorooctanesulfonic Acid [PFOS]	6.5 ng/L**	Perfluorooctanesulfonic acid exposures resulted in immune suppression, specifically, a decrease in antibody response to an exogenous antigen challenge.
Propachlor	90 μg/L	Propachlor exposures resulted in decrease in weight gain, decrease in food intake, and relative liver weight increase in rats.
n-Propylbenzene	260 μg/L	Exposures to cumene (isopropylene), a surrogate for n-propylbenzene, resulted in increased kidney weight in rats.
Hexahydro-1,3,5-trinitro- 1-3-5-triazine [RDX]	300 ng/L	Hexahydro-1,3,5-trinitro-1-3-5-triazine exposures resulted in liver carcinomas and adenomas in female mice.
Tertiary Butyl Alcohol [TBA]	12 μg/L	Tert-butyl alcohol exposures resulted in cancer in laboratory animals.
1,2,4-Trimethylbenzene	330 µg/L	1,2,4-Trimethylbenzene exposures resulted in increased serum phosphorus levels in rats.
1,3,5-Trimethylbenzene	330 μg/L	1,3,5-Trimethylbenzene exposures resulted in increased serum phosphorus levels in rats.
2,4,6-Trinitrotoluene [TNT]	1 μg/L	2,4,6-Trinitrotoluene exposures resulted in urinary bladder transitional cell papillomas and squamous cell carcinomas in female rats.
Vanadium	50 μg/L	Vanadium exposures resulted in developmental and reproductive effects in rats.

^{**} The July 2018 notification levels for PFOA of 14 ng/L and PFOS of 13 ng/L were superseded on August 22, 2019 by new notification levels of 5.1 ng/L for PFOA and 6.5 ng/L for PFOS.

APPENDIX E: Special Language for Nitrate, Arsenic, Lead, Radon, *Cryptosporidium*, Ground Water Systems, and Surface Water Systems

(A) Nitrate: For systems that detect nitrate above 5 mg/L as nitrogen, but below 10 mg/L as nitrogen, the following language is REQUIRED:

Nitrate in drinking water at levels above 10 mg/L 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 serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels 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 specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

If a utility cannot demonstrate to the State Water Board with at least five years of the most current monitoring data that its nitrate levels are stable, it must also add the following language to the preceding statement on nitrate:

Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

(B) Arsenic: For systems that detect arsenic above 5 μg/L, but below or equal to 10 μg/L, 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.

(C) Lead¹: Consistent with 40 CFR section 141.154(d)(1), every Consumer Confidence Report (CCR) must include the lead-specific language shown below. A water system may provide its own educational statement, but only after consulting with the State Water Board.

Instructions for Small Water Systems, Appendix E Revised January 2020

All water systems are required to comply with the state Lead and Copper Rule (LCR). Water systems are also required to comply with the federal LCR, and its revisions and corrections. The 2007 Short-term Revisions of the LCR included mandatory language requirements that have not yet been adopted by the State Water Board.

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. [NAME OF UTILITY] 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 or at http://www.epa.gov/lead.

Consistent with the California Code of Regulations, section 64482(c), systems that detect lead above 15 μ g/L in more than 5 percent, and up to and including 10 percent, of sites sampled (or if your system samples fewer than 20 sites and has even one sample above the Action Level [AL]), the following language is REQUIRED:

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the U.S. EPA Safe Drinking Water Hotline (1-800-426-4791).

(D) Radon: Systems that performed monitoring that indicates the presence of radon in the finished water MUST include the results of the monitoring and an explanation of the significance of the results. The following language MAY be used:

We constantly monitor the water supply for various contaminants. We have detected radon in the finished water supply in _____ out of _____ samples tested. There is no federal regulation for radon levels in drinking water. Exposure over a long period of time to air transmitting radon may cause adverse health effects.

The language below MAY be included if the level of information is helpful.

Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of

stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. You should pursue radon removal for your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-745-7236, the U.S. EPA Safe Drinking Water Act Hotline (1-800-426-4791), or the National Safe Council Radon Hotline (1-800-767-7236).

(E) Cryptosporidium: Systems that have performed any monitoring for Cryptosporidium that indicates that Cryptosporidium may be present in the source water or finished water MUST include the results of the monitoring and an explanation of the significance of the results. The following language MAY be used:

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water and/or finished water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants, small children, and the elderly are at greater risk of developing lifethreatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

(F) Groundwater Systems: For ground water systems that had a treatment technique (TT) violation described in Item S of the document titled "Instructions for Completing the 2018 CCR for Small Water Systems", the following language MAY be used to describe the potential health effects. The U.S. Environmental Protection Agency (EPA) did not provide standard health effect language for these TT violations in the Ground Water Rule; U.S. EPA provided the language in their guidance to water systems.

Inadequately protected or treated water may contain disease-causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps, and associated headaches.

(G) Surface Water Systems: For surface water systems that had a TT violation under the Surface Water Treatment Rule (SWTR), Interim Enhanced Surface Water Treatment Rule (IESWTR), Filter Backwash Recycling Rule (FBRR), or Long-term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR), as described in Item U of the document titled "Instructions for Completing the 2018 CCR for Small Water Systems", the following language is REQUIRED to describe the potential health effects:

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

For surface water systems that had a TT violation under the Long-term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), as described in Item U of the document titled "Instructions for Completing the 2018 CCR for Small Water Systems", the following language MAY be used to describe the potential health effects. U.S. EPA did not provide standard health effect language for these TT violations in the LT2ESWTR; U.S. EPA provided the language in their guidance to water systems.

LT2ESWTR TT Violation	Health Effect Language
Uncovered and Untreated Finished Water Reservoir	Inadequately protected water may contain disease-causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps, and associated headaches.
Determine and Report Bin Classification	Inadequately treated water may contain disease-causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps, and associated headaches.
Provide or Install an Additional Level of Treatment	Inadequately treated water may contain disease-causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps, and associated headaches.