ATTACHMENT 7

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 Board's website at <u>http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml</u>)

Water System Name: FOOTHILL MUNICIPAL WATER DISTRICT

Water System Number: 1910032

The water system named above hereby certifies that its Consumer Confidence Report was distributed on <u>April 18, 2017</u> (*date*) to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the State Water Resources Control Board, Division of Drinking Water.

Certified by:	Name:	Daniel Drugan			
	Signature:	Drin Da			
	Title:	Water Program Technician			
	Phone Number:	(818) 790-4036	Date:	April 18, 2017	

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

CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used: Foothill MWD emailed the Metropolitan Water District of Southern California (MWD) CCR as an electronic file attachment to the District's Retail Agencies. Foothill MWD only distributes one source of water (fullservice treated MWD imported water) to 7 retailing water agencies. Foothill MWD does not operate a retail water distribution system.

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

Posting the CCR on the Internet

Mailing the CCR to postal patrons within the service area (attach zip codes used)

Advertising the availability of the CCR in news media (attach copy of press relea		Advertising the availability	of the CCR in news media	(attach copy of press releas
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Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)

Posted the CCR in public places (attach a list of locations)

Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools

- Delivery to community organizations (attach a list of organizations)
- \bigcirc Other (attach a list of other methods used)
- For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following address: www._____
- *For privately-owned utilities*: Delivered the CCR to the California Public Utilities Commission

This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c), California Code of Regulations.

Daniel Drugan

From:	Daniel Drugan
Sent:	Tuesday, April 18, 2017 11:22 AM
То:	Bob Fan; Bob Hayward; Christy Scott; Doug Caister; Lisa Lopez; Tim Flynn; Tom Flynn;
	Mel Matthews; Tom Love; Bill Kimberling; Armando De La Paz; Jennifer Betancourt
Cc:	Nina Jazmadarian
Subject:	FW: MWD 2016 Annual Water Quality Report/Consumer Confidence Report (.CCR Only as of 20170314)
Attachments:	2016_Annual_Water_Quality_Report_Final-032817.xlsx; 2016 Annual Water Quality Report-Rev032817.pdf

Hello Managers,

Attached is data that will be factored into MWD's 2016 Annual Water Quality Report / CCR. The final report (covering **January – December 2016**) will be posted on MWD's website before July 1. FMWD staff will forward the final report when available.

Best,

Dan

From: Dymally,Edgar G [mailto:edymally@mwdh2o.com]
Sent: Tuesday, March 28, 2017 3:24 PM
To: Catrece Bragg**; Daniel Drugan; Lori A. Johnson**; Martin Manucharyan ; Scott Hallimore; Tarrah Henrie
Cc: Yun,Tae I
Subject: MWD 2016 Annual Water Quality Report/Consumer Confidence Report (.CCR Only as of 20170314)

Annual Water Quality Report to Member Agencies

As a wholesale water system, Metropolitan is required to provide its member agencies with the previous year's water quality monitoring data and relevant information by April 1. Metropolitan's **Annual Water Quality Report (AWQR) to Member Agencies** for the period **January – December 2016** is presented in PDF files **Plant Effluent, Source Water** and **Plant Influent** as well as in an **Excel** file with **three worksheets** of the same names. Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent locations and/or distribution system.

Additional information or monitoring data may also be found on the Water Quality Reports website (exclusive to member agencies) at <u>http://www.mwdh2o.com/wqinternet/index.asp</u>. The AWQR serves as the basis for the Consumer Confidence Report (CCR) that will be published on Metropolitan's website by July 1.

The State Water Resources Control Board, Division of Drinking Water has published a guidance and related documents that can help water systems prepare the CCRs at http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml.

Should you have any questions or need information not found in the attached report or in the Water Quality Reports website, please contact Water Quality Section's QA Officer, Socorro Baldonado at <u>sbaldonado@mwdh2o.com</u>. If you need help with graphics or photos that you want to include in your CCR, please contact Debra Sass of the External Affairs Group at <u>dsass@mwdh2o.com</u> or (213) 217-7230.

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						Treatment Plant Effluent					
		State or Federal		State	Range	Weymouth	Diemer	Jensen	Skinner	Mills	Major Sources in Drinking Water
Parameter	Units	MCL	PHG	DLR	Average	Plant	Plant	Plant	Plant	Plant	
Percent State Project Water	%	NA	NA	NA	Range Average	0–100 13	0–100 10	100 100	0–31 8	<u>100</u> 100	
PRIMARY STANDARDS—Man											
CLARITY	-	-		-							
Combined Filter	NTU	TT = 1			Highest	0.03	0.07	0.05	0.09	0.10	
Effluent Turbidity	%	TT (a)	NA	NA	% ≤ 0.3	100	100	100	100	100	Soil runoff
MICROBIOLOGICAL Total Coliform Bacteria (b)	1	1	1	. 1	Range	Distribution S	ystem-wide: NI	7-03			
State Total Coliform Rule	%	5.0	MCLG = 0	NA	Average		ystem-wide: NI				Naturally present in the environment
E. coli (Acute Total Coliform) State Total Coliform Rule	(c)	(c)	MCLG = 0	NA		Distribution	ystem-wide: NI	2			Human and animal fecal waste
Total Coliform Bacteria	(0)	(0)	NICLG = 0	INA	Range		vstem-wide: NI				
Federal Revised Total Coliform Rule	%	TT (d)	NA	NA	Average		ystem-wide: 0.				Naturally present in the environment
E. coli Federal Revised Total Coliform Rule	(e)	(e)	MCLG = 0	NA		Distribution S	ystem-wide: NI	r			Human and animal fecal waste
Heterotrophic Plate Count					Range	Distribution S	ystem-wide: TT				
(HPC) (f)	CFU/mL	TT	NA	NA	Average		ystem-wide: TT		ND	ND	Naturally present in the environment
Cryptosporidium	oocysts/ 200 L	TT	MCLG = 0	NA	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Human and animal fecal waste
	cysts/				Range	ND	ND	ND	ND	ND	
Giardia ORGANIC CHEMICALS	200 L	TT	MCLG = 0	NA	Average	ND	ND	ND	ND	ND	Human and animal fecal waste
Pesticides/PCBs (g)	_	_		_						_	
resticides/reds(g)					Range	ND	ND	ND	ND	ND	
Alachlor	ppb	2	4	1	Average	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops
Atrazine	ppb	1	0.15	0.5	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff from herbicide used on row crops and along highways
	ppo		0.10	0.0	Range	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice,
Bentazon	ppb	18	200	2	Average	ND	ND ND	ND	ND	ND	alfalfa, and grapes Leaching of soil fumigant used on rice, alfalfa,
Carbofuran	ppb	18	0.7	5	Range Average	ND ND	ND	ND ND	ND ND	ND ND	and grapes
					Range	ND	ND	ND	ND	ND	
Chlordane	ppt	100	30	100	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	Residue of banned insecticide Runoff from herbicide used on row crops,
2,4-D	ppb	70	20	10	Average	ND	ND	ND	ND	ND	rangeland, lawns, and aquatic weeds
Delenen	a a b	000	700	40	Range	ND	ND	ND	ND	ND	Runoff from herbicide used on rights-of-way,
Dalapon Dibromochloropropane	ppb	200	790	10	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	crops, and landscapes Banned nematocide that may still be present
(DBCP)	ppt	200	1.7	10	Average	ND	ND	ND	ND	ND	in soils
Dinoseb	ppb	7	14	2	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff from herbicide used on soybeans, vegetables, and fruits
Dinosed	ppp	1	14	2	Range	ND	ND	ND	ND	ND	Runoff from herbicide used for terrestrial
Diquat	ppb	20	6	4	Average	ND	ND	ND	ND	ND	and aquatic weeds
Endothall	ppb	100	94	45	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff from herbicide used for terrestrial and aquatic weeds
					Range	ND	ND	ND	ND	ND	
Endrin Ethylene Dibromide	ppb	2	0.3	0.1	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	Residue of banned insecticide and rodenticide Petroleum refinery discharges; underground
(EDB)	ppt	50	10	20	Average	ND	ND	ND	ND	ND	gas tank leaks
					Range	ND	ND	ND	ND	ND	
Glyphosate	ppb	700	900	25	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff from herbicide use
Heptachlor	ppt	10	8	10	Average	ND	ND	ND	ND	ND	Residue of banned insecticide
Heptachlor Epoxide	ppt	10	6	10	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Breakdown product of heptachlor
	ρρι	10	0	10	Range	ND	ND	ND	ND	ND	Runoff/leaching from insecticide used on cattle,
Lindane	ppt	200	32	200	Average	ND	ND	ND	ND	ND	lumber, and gardens
Methoxychlor	ppb	30	0.09	10	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	 Runoff/leaching from insecticide uses
	ppp		0.03	10	Range	ND	ND	ND	ND	ND	
Molinate (Ordram)	ppb	20	1	2	Average	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
Oxamyl (Vydate)	ppb	50	26	20	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff/leaching from insecticide uses
					Range	ND	ND	ND	ND	ND	Discharge from wood preserving factories
Pentachlorophenol	ppb	1	0.3	0.2	Average	ND	ND	ND	ND	ND	other insecticidal and herbicidal uses

							Treatn	nent Plant Effl	uent		
Parameter	Units	State or Federal MCL	PHG	State DLR	Range Average	Weymouth Plant	Diemer Plant	Jensen Plant	Skinner Plant	Mills Plant	Major Sources in Drinking Water
Dielerem	nnh	500	166	1	Range	ND ND	ND ND	ND ND	ND ND	ND ND	
Picloram Polychlorinated	ppb	500	100		Average Range	ND	ND ND	ND	ND	ND	Herbicide runoff
Biphenyls (PCBs)	ppt	500	90	500	Average	ND	ND	ND	ND	ND	Runoff from landfills; discharge of waste chemicals
					Range	ND	ND	ND	ND	ND	
Simazine	ppb	4	4	1	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	Herbicide runoff
Thiobencarb	ppb	70	42	1	Average	ND	ND	ND	ND	ND	Runoff leaching from rice herbicide
2,4,5-TP					Range	ND	ND	ND	ND	ND	
(Silvex)	ppb	50	3	1	Average	ND	ND	ND	ND	ND	Residue of banned herbicide
Toxaphene	ppb	3	0.03	1	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff/leaching from insecticide used on cotton and cattle
Semi-Volatile Organic Compound			0.00		Thorago		ne.			ne	
		ſ			Range	TT	TT	TT	TT	TT	
Acrylamide	NA	TT	MCLG = 0	NA	Average	TT	TT	TT	TT	TT	Water treatment chemical impurities
Benzo(a)pyrene	ppt	200	7	100	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Leaching from water storage tank linings and distribution lines
	ρρι	200	/	100	Range	ND	ND	ND	ND	ND	
Di(2-ethylhexyl)adipate	ppb	400	200	5	Average	ND	ND	ND	ND	ND	Discharge from chemical factories
			4.5	6	Range	ND	ND	ND	ND	ND	Chemical factory discharge; inert ingredient
Di(2-ethylhexyl)phthalate	ppb	4	12	3	Average Range	ND TT	ND TT	ND TT	ND TT	ND TT	in pesticides
Epichlorohydrin	NA	тт	MCLG = 0	NA	Average	TT	TT	TT	TT	TT	Water treatment chemical impurities
			MOLO = 0	1.073	Range	ND	ND	ND	ND	ND	Discharge from metal refineries & agrichemicals
Hexachlorobenzene	ppb	1	0.03	0.5	Average	ND	ND	ND	ND	ND	factories; wastewater chlorination reaction byproduct
	a a b	50	0	4	Range	ND	ND	ND	ND	ND	
Hexachlorocyclopentadiene 2,3,7,8-TCDD	ppb	50	2	1	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from chemical factories Waste incineration emissions; chemical factory
(Dioxin)	ppq	30	0.05	5	Average	ND	ND	ND	ND	ND	discharge
Volatile Organic Compounds						-					• • • • • • • •
.					Range	ND	ND	ND	ND	ND	Plastics factory discharge; gas tanks
Benzene	ppb	1	0.15	0.5	Average	ND	ND	ND	ND	ND	and landfill leaching
Carbon Tetrachloride	ppt	500	100	500	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from chemical plants and other industrial waste
	ρρι	300	100	300	Range	ND	ND	ND	ND	ND	waste
1,2-Dichlorobenzene	ppb	600	600	0.5	Average	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
		_			Range	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	ppb	5	6	0.5	Average	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from industrial chemical factories
1,1-Dichloroethane	ppb	5	3	0.5	Range Average	ND	ND	ND	ND	ND	Extraction and degreasing solvent; fumigant
i, i Biomorodunano	660		Ŭ	0.0	Range	ND	ND	ND	ND	ND	Exclusion and degreating content, runigant
1,2-Dichloroethane	ppt	500	400	500	Average	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1.1 Dichleresthulens	nnh	6	10	0.5	Range	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from industrial shamiaal fastariaa
1,1-Dichloroethylene	ppb	0	10	0.5	Average Range	ND	ND	ND	ND	ND	Discharge from industrial chemical factories Industrial chemical factory discharge;
cis-1,2-Dichloroethylene	ppb	6	100	0.5	Average	ND	ND	ND	ND	ND	byproduct of TCE and PCE biodegradation
					Range	ND	ND	ND	ND	ND	Industrial chemical factory discharge;
trans-1,2-Dichloroethylene	ppb	10	60	0.5	Average	ND ND	ND ND	ND ND	ND ND	ND ND	byproduct of TCE and PCE biodegradation
Dichloromethane (Methylene Chloride)	ppb	5	4	0.5	Range Average	ND	ND	ND	ND	ND	Discharge from pharmaceutical and chemical factories
	ppo	, , , , , , , , , , , , , , , , , , ,	•	0.0	Range	ND	ND	ND	ND	ND	Industrial chemical factory discharge;
1,2-Dichloropropane	ppb	5	0.5	0.5	Average	ND	ND	ND	ND	ND	primary component of some fumigants
		500	200	500	Range	ND ND	ND ND	ND	ND ND	ND ND	Runoff/leaching from nematocide used on
1,3-Dichloropropene	ppt	500	200	500	Average Range	ND ND	ND ND	ND ND	ND ND	ND	croplands Petroleum refinery discharge; industrial
Ethylbenzene	ppb	300	300	0.5	Average	ND	ND	ND	ND	ND	chemical factories
Methyl-tert-butyl ether					Range	ND	ND	ND	ND	ND	
(MTBE)	ppb	13	13	3	Average	ND	ND	ND	ND	ND	Gasoline discharge from watercraft engines
Manaahlarahanzana	nah	70	70	05	Range	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from industrial, agricultural, and chemical
Monochlorobenzene	ppb	70	70	0.5	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	factories, and dry cleaners Rubber and plastics factories discharge;
Styrene	ppb	100	0.5	0.5	Average	ND	ND	ND	ND	ND	landfill leaching
					Range	ND	ND	ND	ND	ND	Discharge from industrial, agricultural, and chemical
1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	Average	ND	ND	ND	ND	ND	factories; solvent uses
Tetrachloroethylene (PCE)	ppb	5	0.06	0.5	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from factories, dry cleaners, and auto shops
	hhn	0	0.00	0.0	Average						מווע מענט פווטףס

							Treatn	nent Plant Effl	luent		
Parameter	Units	State or Federal MCL	PHG	State DLR	Range Average	Weymouth Plant	Diemer Plant	Jensen Plant	Skinner Plant	Mills Plant	Major Sources in Drinking Water
Toluene	ppb	150	150	0.5	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from petroleum and chemical refineries
Toldene	aqq	150	150		Range	ND	ND	ND	ND	ND	Discharge nom petroleum and chemical reinferies
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Average	ND	ND	ND	ND	ND	Discharge from textile-finishing factories
1.1.1-Trichloroethane	ddd	200	1.000	0.5	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Metal degreasing site discharge; manufacture of food wrappings
					Range	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	ppb	5	0.3	0.5	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from industrial chemical factories Discharge from metal degreasing sites and
(TCE)	ppb	5	1.7	0.5	Average	ND	ND	ND	ND	ND	other factories
Frichlorofluoromethane Freon-11)	daa	150	1.300	5	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Industrial factory discharge; degreasing solvent; propellant
.1.2-Trichloro-1.2.2-	aqq	150	1,300	э	Range	ND	ND	ND	ND	ND	Discharge from metal degreasing sites and other
rifluoroethane (Freon-113)	ppm	1.2	4	0.01	Average	ND	ND	ND	ND	ND	factories; dry cleaning solvent; refrigerant
/inyl Chloride	ppt	500	50	500	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Leaching from PVC piping; plastic factory discharge; byproduct of TCE and PCE biodegradation
	ppt	500	50	300	Range	ND	ND	ND	ND	ND	Discharge from petroleum and chemical refineries;
Kylenes	ppm	1.750	1.8	0.0005	Average	ND	ND	ND	ND	ND	fuel solvent
NORGANIC CHEMICALS	-	1	T	1		77.000	100.010		F 0	00.450	
Aluminum	ddd	1.000	600	50	Range Highest RAA	77–220 159	<u>120–240</u> 168	ND-130 100	52 52	93–150 122	Residue from water treatment process; natural deposits erosion
					Range	ND	ND	ND	ND	ND	Petroleum refinery discharges; fire retardants;
Antimony	ppb	6	1	6	Average	ND ND	ND ND	ND	ND ND	ND	solder; electronics
rsenic	ddd	10	0.004	2	Range Average	ND	ND	3.1 3.1	ND	2.5 2.5	Natural deposits erosion, glass and electronics production wastes
				_	Range	ND	ND	ND	ND	ND	Asbestos cement pipes internal corrosion;
Asbestos (h)	MFL	7	7	0.2	Average	ND 144	ND 138	ND ND	ND 129	ND ND	natural deposits erosion Oil and metal refineries discharge;
Barium	ddd	1,000	2,000	100	Range Average	144	138	ND	129	ND	natural deposits erosion
					Range	ND	ND	ND	ND	ND	Discharge from metal refineries, aerospace,
Beryllium	ppb	4	1	1	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	and defense industries Internal corrosion of galvanized pipes;
Cadmium	ppb	5	0.04	1	Average	ND	ND	ND	ND	ND	natural deposits erosion
					Range	ND	ND	ND	ND	ND	Discharge from steel and pulp mills;
Chromium	ppb	50	MCLG = 100	10	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	natural deposits erosion Runoff/leaching from natural deposits;
Chromium VI (i)	ppb	10	0.02	1	Average	ND	ND	ND	ND	ND	discharge from industrial waste factories
					Range	ND	ND	ND	ND	ND	Internal corrosion of household pipes;
Copper (j)	ppm	AL = 1.3	0.3	0.05	Average	ND ND	ND ND	ND	ND	ND	natural deposits erosion
Cyanide	ddd	150	150	100	Range Average	ND	ND	ND ND	ND ND	ND ND	Discharge from steel/metal, plastic, and fertilizer factories
, janua			100		Control Range	0.6–1.2	0.6–1.2	0.6-1.2	0.6–1.2	0.6–1.2	
		1	1	Optima	al Fluoride Level	0.7	0.7	0.7	0.7	0.7	Erasion of notural depositor
Fluoride (k) Freatment-related	mag	2.0	1	0.1	Range Average	0.6–1.0	0.6–0.9	0.6-0.8	0.6-0.9	0.5–0.8	Erosion of natural deposits; water additive that promotes strong teeth
	pp	2.0	•	0.11	Range	Distribution S	ystem-wide: 0.6	6–1.0			
ead (i)	daa	AL = 15	0.2	5	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	House pipes internal corrosion; erosion of natural deposits
-cau ())	նկվ	AL = 15	0.2	5	Range	ND	ND	ND	ND	ND	Erosion of natural deposits; factory discharge;
Mercury	ppb	2	1.2	1	Average	ND	ND	ND	ND	ND	landfill runoff
lickel	ddd	100	12	10	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Erosion of natural deposits; discharge from metal factories
	uqq	100	12	10	Range	ND	ND	0.6-0.9	ND	0.4–1.1	Runoff and leaching from fertilizer use; septic tank
Nitrate (as Nitrogen)	ppm	10	10	0.4	Average	ND	ND	0.8	ND	0.8	and sewage; natural deposits erosion
litrite (as Nitregen)		1	1	0.4	Range	ND	ND ND	ND	ND	ND	Runoff and leaching from fertilizer use; septic tank
Nitrite (as Nitrogen)	ppm	1	1	0.4	Average Range	ND ND	ND ND	ND ND	ND ND	ND ND	and sewage; natural deposits erosion
Perchlorate (I)	ppb	6	1	4	Average	ND	ND	ND	ND	ND	Industrial waste discharge
Selenium	ddd	50	30	5	Range	ND ND	ND ND	ND ND	ND ND	ND ND	Refineries, mines, and chemical waste discharge: runoff from livestock lots
Selemulti	add	50	30	Э	Average Range	ND	ND ND	ND	ND ND	ND	Leaching from ore processing; electronics
Thallium	ppb	2	0.1	1	Average	ND	ND	ND	ND	ND	factory discharge

						Treatment Plant Effluent					
Parameter	Units	State or Federal MCL	PHG	State DLR	Range Average	Weymouth Plant	Diemer Plant	Jensen Plant	Skinner Plant	Mills Plant	Major Sources in Drinking Water
RADIOLOGICALS (m)					, incluge						
Gross Alpha	1	1			Range	ND-4	ND-4	ND–5	ND-5	ND-4	
Particle Activity	pCi/L	15	MCLG = 0	3	Average	ND	ND	3	ND	ND	Erosion of natural deposits
Gross Beta Particle Activity	pCi/L	50 (n)	MCLG = 0	4	Range Average	<mark>4–6</mark> 5	<mark>4–6</mark> 5	ND-5 ND	5 5	ND ND	Decay of natural and man-made deposits
		00 (11)	MOLO = 0		Range	ND	ND	ND	ND	ND	
Radium-226	pCi/L	NA	0.05	1	Average	ND	ND	ND	ND	ND	Erosion of natural deposits
Dedium 228		NA	0.010	4	Range	ND	ND ND	ND ND	ND ND	ND	Francisco of natural denomita
Radium-228 Combined	pCi/L	INA	0.019		Average Range	ND ND	ND	ND	ND	ND ND	Erosion of natural deposits
Radium-226 + 228	pCi/L	5	MCLG = 0	NA	Average	ND	ND	ND	ND	ND	Erosion of natural deposits
					Range	ND	ND	ND	ND	ND	
Strontium-90	pCi/L	8	0.35	2	Average	ND	ND	ND	ND	ND	Decay of natural and man-made deposits
Tritium	pCi/L	20,000	400	1,000	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Decay of natural and man-made deposits
Thadm	p0/L	20,000	400	1,000	Range	2–3	2–3	2–3	1-2	ND-4	
Uranium	pCi/L	20	0.43	1	Average	3	3	2	2	2	Erosion of natural deposits
DISINFECTION BYPRODUCTS, DI	SINFECT	ANT RESID	UALS, AND	DISINF	ECTION BYPI						
Total Trihalomethanes					Range	24-45	16-24	13–19	14–19	18–30	
(TTHM)	ppb	80	NA	1.0	Average	32	20	16	17	24	Byproduct of drinking water chlorination
Total Trihalomethanes	pph	80	NA	1.0	Range	<u>26-61</u>	21-25 30	<u>19-28</u> 33	<u>16-22</u> 21	16-29	Pyproduct of drinking water oblaringtion
(TTHM) (o) Total Trihalomethanes	ppb	80	NA	1.0	Highest LRAA Range	42 Distribution S	30 system-wide: 16-		21	34	Byproduct of drinking water chlorination
(TTHM) (p)	ppb	80	NA	1.0	Highest LRAA		system-wide: 42				Byproduct of drinking water chlorination
Haloacetic Acids (five)	ppo	00		1.0	Range	6.4-15	ND-2.3	2.7-5.3	1.6-7.2	3.9-11	Byproduct of drinking water enformation
(HAA5)	ppb	60	NA	1.0	Average	8.8	1.2	4.3	4.9	6.4	Byproduct of drinking water chlorination
Haloacetic Acids (five)					Range	4.5-25	1.4-4.2	3.0-6.7	3.5-7.5	3.5-10	
(HAA5) (o)	ppb	60	NA	1.0	Highest LRAA	14	9.4	9.0	6.2	7.0	Byproduct of drinking water chlorination
Haloacetic Acids (five)					Range		vstem-wide: ND	0-31			
(HAA5) (p)	ppb	60	NA	1.0	Highest LRAA	Distribution S	system-wide: 14	0.4			Byproduct of drinking water chlorination
Total Chlorine Residual	ppm		MRDLG = 4.0	NA	Range Highest RAA		ystem-wide: 0.9				Drinking water disinfectant added for treatment
	ррш	MIXDL = 4.0	WINDLO = 4.0	INA	Range	NA	ND-6.2	4.4-13	ND-9.1	ND-7	
Bromate (q)	ppb	10	0.1	1.0	Highest RAA	NA	1.2	7.4	4.2	4.5	Byproduct of drinking water ozonation
DBP Precursors Control				-	Range	TT	TT	TT	TT	TT	Various natural and man-made sources;
as Total Organic Carbon (TOC)	ppm	TT	NA	0.30	Average	TT	TT	TT	TT	TT	TOC as a medium for the formation of disinfection byproducts
SECONDARY STANDARDS—A	esthetic	Standard	s								
			000	50	Range	77-220	120-240	ND-130	52	93-150	Residue from water treatment process;
Aluminum	ppb	200	600	50	Highest RAA Range	159 103	168 102-103	100 89-97	52 102-104	122 78-89	natural deposits erosion Runoff/leaching from natural deposits;
Chloride	ppm	500	NA	NA	Average	103	103	93	102-104	84	seawater influence
	Color				Range	1	1	1-2	1-2	1-2	
Color	Units	15	NA	NA	Average	1	1	2	2	2	Naturally-occurring organic materials
		10	0.0	0.05	Range	ND	ND	ND	ND	ND	Internal corrosion of household pipes; natural
Copper (j)	ppm	1.0	0.3	0.05	Average	ND ND	ND ND	ND ND	ND ND	ND ND	deposits erosion; wood preservatives leaching
Foaming Agents (MBAS)	ppb	500	NA	NA	Range Average	ND	ND	ND	ND	ND	Municipal and industrial waste discharges
(MB/(C))	ppo	000		1.0/ \	Range	ND	ND	ND	ND	ND	
Iron	ppb	300	NA	100	Average	ND	ND	ND	ND	ND	Leaching from natural deposits; industrial wastes
<u> </u>			NU 500		Range	ND	ND	ND	ND	ND	
Manganese	ppb	50	NL = 500	20	Average	ND ND	ND ND	ND ND	ND ND	ND ND	Leaching from natural deposits
МТВЕ	nnh	5	13	3	Range Average	ND	ND	ND	ND	ND	Gasoline discharge from watercraft engines
	ppb	5	13	5	Range	2	3	3	3	2	
			N1.0	1	Average	2	3	3	3	2	Naturally-occurring organic materials
Odor Threshold	TON	3	NA						ND	ND	
					Range	ND	ND	ND			
Odor Threshold Silver	TON ppb	3 100	NA	10	Average	ND	ND	ND	ND	ND	Industrial discharges
Silver	ppb	100	NA		Average Range	ND 1,020–1,050	ND 1,030–1,050	ND 652–721	ND 965–1,030	ND 475–570	Substances that form ions in water;
				10 NA	Average Range Average	ND 1,020–1,050 1,035	ND 1,030–1,050 1,040	ND 652–721 687	ND 965–1,030 998	ND 475–570 522	Substances that form ions in water; seawater influence
Silver	ppb µS/cm	100 1,600	NA		Average Range	ND 1,020–1,050 1,035 256–259	ND 1,030–1,050 1,040 257–262	ND 652–721 687 86–104	ND 965–1,030 998 229–238	ND 475–570 522 29–72	Substances that form ions in water;
Silver Specific Conductance	ppb	100	NA NA	NA	Average Range Average Range	ND 1,020–1,050 1,035	ND 1,030–1,050 1,040	ND 652–721 687	ND 965–1,030 998	ND 475–570 522	Substances that form ions in water; seawater influence Runoff/leaching from natural deposits;

							Treatr	nent Plant Effl	luent		
Parameter	Units	State or Federal MCL	PHG	State DLR	Range Average	Weymouth Plant	Diemer Plant	Jensen Plant	Skinner Plant	Mills Plant	Major Sources in Drinking Water
Total Dissolved Solids	Units	WICL	FHG	DLK	Range	650–659	650–658	377-423	615–632	261-326	Runoff/leaching from natural deposits;
(TDS)	ppm	1,000	NA	NA	Average	655	654	400	624	294	seawater influence
		, in the second s			Range	ND	ND	ND	ND	ND	
Turbidity (a)	NTU	5	NA	0.1	Average	ND	ND	ND	ND	ND	Soil runoff
7.		5.0		0.05	Range	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits;
	ppm	5.0	NA	0.05	Average	ND	ND	ND	ND	ND	industrial wastes
OTHER PARAMETERS MICROBIOLOGICAL											
MICROBIOLOGICAL		r – – – –		1	Range	ND-1	ND-1	ND-1	ND-1	ND	
HPC (f')	CFU/mL	NA	NA	NA	Median	ND	ND	ND	ND	ND	Naturally present in the environment
Total Coliform		11/1	1177	1 1/ 1	Range	ND	ND	ND	ND	ND	
Bacteria (r)	%	NA	NA	NA	Average	ND	ND	ND	ND	ND	Naturally present in the environment
		11/1	1177	1 1/ 1	Range	ND	ND	ND	ND	ND	
E. coli (r)	%	NA	NA	NA		ND	ND	ND	ND	ND	Human and animal fecal waste
CHEMICAL		INA	INA	INA	Average	ND	ND	ND	ND	ND	
		- I		1	Range	113–124	115–124	92–95	118–125	64–78	
Alkalinity (as CaCO ₃)	ppm	NA	NA	NA	Average	118	120	92-95	122	71	-
	ppin	11/1	1177	1 1/ 1	Range	150	150	270	140	240	Runoff/leaching from natural deposits;
Boron	ddd	NL = 1,000	NA	100	Average	150	150	270	140	240	industrial wastes
					Range	75–79	75–76	30-36	70–74	17–27	
Calcium	ppm	NA	NA	NA	Average	77	76	33	72	22	
					Range	60	55	39	51	30	Byproduct of drinking water chlorination;
Chlorate	ppb	NL = 800	NA	20	Range		system-wide: 26		10 1 10 5	10.0	industrial processes
Corrosivity (s)	AI	NA	NA	NA	Range	<u>12.4–12.5</u> 12.5	12.4–12.5	12.2 12.2	<u>12.4–12.5</u> 12.5	12.0 12.0	Elemental balance in water; affected
(as Aggressiveness Index) Corrosivity (t)	AI	INA	NA	INA	Average Range	0.54-0.60	12.5 0.55–0.56	0.35-0.40	0.62-0.66	0.22-0.26	by temperature, other factors Elemental balance in water; affected
(as Saturation Index)	SI	NA	NA	NA	Average	0.57	0.56	0.38	0.64	0.24	by temperature, other factors
	.				Range	293-306	292-300	126-132	274-294	87–112	
Hardness (as $CaCO_3$)	ppm	NA	NA	NA	Average	300	296	129	284	100	
					Range	25–27	26–27	12	24–25	10	
Magnesium	ppm	NA	NA	NA	Average	26	27	12	25	10	
	pH				Range	8.1	8.1	8.3	8.1-8.2	8.3-8.6	
pH	Units	NA	NA	NA	Average Range	8.1 5.0–5.1	8.1 5.0–5.1	8.3 2.9–3.2	8.1 4.8–4.9	8.4 2.7–2.8	
Potassium	ppm	NA	NA	NA	Average	5.1	5.1	3.1	4.9	2.8	
			14/ \		Range	ND	ND	ND	ND	ND	1
Radon (m)	pCi/L	NA	NA	100	Average	ND	ND	ND	ND	ND]
					Range	104–106	99–107	84–94	101–104	62–75	
Sodium	ppm	NA	NA	NA	Average	105	103	89	102	68	
100			NIA	0.00	Range	1.7-2.8	2.1-2.6	1.8-2.8	2.2-2.7	1.6-3.7	Various natural and man-made sources;
TOC	ppm	TT	NA	0.30	Highest RAA	2.5 ND	2.5 ND	2.2	2.5 ND	2.5 8.9	TOC as a medium for the formation of disinfection byproducts
Vanadium	dqq	NL = 50	NA	3	Range Average	ND	ND	7.4	ND	8.9	Naturally-occurring; industrial waste discharge
N-Nitrosodimethylamine	րիս	NL = 50	11/5		Range	ND	ND	ND-2.7	ND-2.3	ND-5.6	Byproduct of drinking water chloramination;
(NDMA)	ppt	NL = 10	3	2	Range		System-wide: NI		110 2.5	100.0	industrial processes
Dichlorodifluoromethane				1 -	Range	ND	ND	ND	ND	ND	
(Freon 12)	dqq	NL = 1.000	NA	0.5	Average	ND	ND	ND	ND	ND	Industrial waste discharge
Ethyl-tert-butyl ether	PP~	,000		1	Range	ND	ND	ND	ND	ND	
(ETBE)	ppb	NA	NA	3	Average	ND	ND	ND	ND	ND	Used as gasoline additive
tert-Amyl-methyl ether					Range	ND	ND	ND	ND	ND	
(TAME)	ppb	NA	NA	3	Average	ND	ND	ND	ND	ND	Used as gasoline additive
tert-Butyl alcohol					Range	ND	ND	ND	ND	ND	MTBE breakdown product; used as gasoline
(TBA)	ppb	NL = 12	NA	2	Average	ND	ND	ND	ND	ND	additive

								Treatr	nent Plant Effl	uent		Maine Courses in Drinking Water
Parameter		Units	State or Federal MCL	PHG	State DLR	Range Average	Weymouth Plant	Diemer Plant	Jensen Plant	Skinner Plant	Mills Plant	Major Sources in Drinking Water
DEFINITION OF TEF	RMS AND F		TES									
Definition of Terms												
	CaCO ₃ CFU	Action Lev Result bas Calcium C Colony-Fo	sed on arithm arbonate rrming Units			MCL MCLG MFL MRDL MRDLG	Maximum C Million Fibe Maximum F Maximum F	tesidual Disinfe tesidual Disinfe	vel Goal	al	ppq ppt RAA	parts per quadrillion or picograms per liter (pg/L) parts per trillion or nanograms per liter (ng/L) Running Annual Average; highest RAA is the highest of all Running Annual Averages calculated as average of all the samples collected within a 12-month period
	DBP DLR LRAA	Detection		s rposes of Rep nual Average;		NA ND NL	Not Applica Not Detecte Notification		СВ		Range SI SWRCB	Results based on minimum and maximum values Saturation Index (Langelier) State Water Resources Control Board
			•	all Locational	•	NTU	•	tric Turbidity Ur	nits		TON	Threshold Odor Number
		all sample		ilated as avera rithin a 12-moi		pCi/L PHG	picoCuries Public Heal	th Goal			TT	Treatment Technique is a required process intended to reduce the level of a contaminant in drinking water
	MBAS	period Methylene	Blue Active	Substances		ppb ppm			ams per liter (µç ms per liter (mg		µS/cm	microSiemen per centimeter; or micromho per centimeter (µmho/cm)
ootnotes												
	(a)	to 0.3 NTL exceed 1	J in 95% of th NTU for more	ne online mea e than one hou	surements ur. Turbidi	taken each mo ty, a measure c	were less than o onth and did not f the cloudiness			Data above M These data ar	etropolitan's r e available up	
		The turbid		f treatment pe grab samples			compliance with	the			ers' tap under	an has no retail customers and is not required to collect samples r the Lead and Copper Rule. Results are based from annual
	(b)	Total colife	orm MCL: No				samples in a mo		(k)		vas in complia	nce with all provisions of the State's Fluoridation
		7,106 sam	ples analyze	d in 2016. Th	e MCL wa	s not violated.	ound out of the			Data above M	etropolitan's r	eporting level is 0.1 ppb, which is below the state DLR of 4 ppb. eporting level but below the DLR are reported as ND in this reported as
	(c)	samples, o	one of which	· ·	o <i>li,</i> constitu	utes an acute N	secutive total col ICL violation. No	•	(m)		samples colle	oon request. ected (triennially) during four consecutive quarters of orted for three years until the next samples are collected.
	(d)						rm TT violations	More than				to be the level of concern for beta particles.
		5.0% total conduct as	coliform-pos ssessments a	itive samples and correct fin	in a month dings with	trigger Level 1 in 30 days is a t	assessments. F	ailure to	(o)	These data re	present the tre	eatment plant specific core locations per the State approved nsen service area, the data for the B-5 location were excluded
	(e)	E. coli MC	L and Level		for assess	ments: Routine	and repeat sam		(p)	These data re	present the Lo	buth treatment plant. ccational Running Annual Average (LRAA) of all data collected predictions is active.
		repeat sar	nples followir	ng an <i>E. coli-</i> p	oositive sa	mple, or fails to	ystem fails to col test for <i>E. coli</i> w coli-positive. No	hen the	(q)			monitoring locations. red. Compliance with State and Federal Bromate MCL is based
			essments occ	•							e monthly pe	rcentage of coliform-positive samples analyzed at each treatmer
	(f)	and no HF	PC was requi	red. (f') HPC	reporting le	evel is 1 CFU/m	chlorine residuals IL. Values are ba		(s)	plant. AI ≥ 12.0 = No	00	
	(g)	Data are f	rom samples		015. Metr		red triennial mon	itoring		AI ≤ 10.0 = Hig	ghly aggressiv	y aggressive water /e water Standard C400-93 (R98)
	(h)	Data are f	rom samples	formed in 201 collected in 2 the next samp	011 and re	eported once ev	very nine-year		(t)	Positive SI ind	lex = non-corr	osive; tendency to precipitate and/or deposit scale on pipes /e; tendency to dissolve calcium carbonate

								S	ource Water [‡]				
						Colorad	lo River		ate Project Wa		Bler	nded	
Parameter	Units	State or Federal MCL	PHG	State DLR	Range Average	Lake Havasu	Lake Mathews	Castaic Lake	Silverwood Lake	Lake Perris	Diamond Valley Lake	Lake Skinner	Major Sources in Drinking Water
Percent State					Range	0	0	100	100	100	100	0–36	
Project Water	%	NA	NA	NA	Average	0	0	100	100	100	100	9	
RIMARY STANDAR		datory He	ealth-Rel	ated Stan	dards (for	reference o	only)						
RGANIC CHEMICALS	5												
Pesticides/PCBs (a)			1	T	•							1	
					Range	ND	ND	ND	ND	ND	ND	ND	
lachlor	ppb	2	4	1	Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops
			o / -		Range	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops
trazine	ppb	1	0.15	0.5	Average	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	and along highways
lantazan	nnh	10	200	2	Range	ND	ND	ND ND	ND	ND ND	ND	ND	Runoff/leaching from herbicide used on rice,
entazon	ppb	18	200	2	Average	ND	ND				ND	ND	alfalfa, and grapes
arbofuran	nnh	18	0.7	5	Range	ND ND	ND	ND ND	ND ND	ND ND	ND	ND	Leaching of soil fumigant used on rice, alfalfa,
Carbofuran	ppb	10	0.7	Э	Average Range	ND	ND	ND	ND	ND	ND	ND	and grapes
Chlordane	ppt	100	30	100	Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide
morualie	ppi	100		100	Range	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops,
,4-D	ppb	70	20	10	Average	ND	ND	ND	ND	ND	ND	ND	rangeland, lawns, and aquatic weeds
, · -	644	.0	20	10	Range	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on rights-of-way,
Dalapon	ppb	200	790	10	Average	ND	ND	ND	ND	ND	ND	ND	crops, and landscapes
Dibromochloropropane	- 44	200			Range	ND	ND	ND	ND	ND	ND	ND	Banned nematocide that may still be present
DBCP)	ppt	200	1.7	10	Average	ND	ND	ND	ND	ND	ND	ND	in soils
- /				-	Range	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on soybeans,
linoseb	ppb	7	14	2	Average	ND	ND	ND	ND	ND	ND	ND	vegetables, and fruits
					Range	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used for terrestrial
Diquat	ppb	20	6	4	Average	ND	ND	ND	ND	ND	ND	ND	and aquatic weeds
					Range	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used for terrestrial
ndothall	ppb	100	94	45	Average	ND	ND	ND	ND	ND	ND	ND	and aquatic weeds
					Range	ND	ND	ND	ND	ND	ND	ND	
Indrin	ppb	2	0.3	0.1	Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide and rodenticide
thylene Dibromide					Range	ND	ND	ND	ND	ND	ND	ND	Petroleum refinery discharges; underground
EDB)	ppt	50	10	20	Average	ND	ND	ND	ND	ND	ND	ND	gas tank leaks
					Range	ND	ND	ND	ND	ND	ND	ND	
Slyphosate	ppb	700	900	25	Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide use
					Range	ND	ND	ND	ND	ND	ND	ND	
leptachlor	ppt	10	8	10	Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide
					Range	ND	ND	ND	ND	ND	ND	ND	
leptachlor Epoxide	ppt	10	6	10	Average	ND	ND	ND	ND	ND	ND	ND	Breakdown product of heptachlor
in days		000	00	000	Range	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide used on cattle,
indane	ppt	200	32	200	Average	ND	ND	ND	ND	ND	ND	ND	lumber, and gardens
Anthony chlor	~~h	20	0.00	10	Range	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff/loophing from incontinida upon
<i>lethoxychlor</i>	ppb	30	0.09	10	Average Range	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide uses
Iolinate (Ordram)	pph	20	1	2	Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
	ppb	20	1	۷	Range	ND	ND	ND	ND	ND	ND	ND	Ranon/reaching from herbicide used of fide
Dxamyl (Vydate)	ppb	50	26	20	Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide uses
vianiyi (vyuale)	hhn	50	20	20	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from wood preserving factories
entachlorophenol	ppb	1	0.3	0.2	Average	ND	ND	ND	ND	ND	ND	ND	other insecticidal and herbicidal uses
	hhn		0.0	0.2	Range	ND	ND	ND	ND	ND	ND	ND	
icloram	ppb	500	166	1	Average	ND	ND	ND	ND	ND	ND	ND	Herbicide runoff
olychlorinated	644	000	100	'	Range	ND	ND	ND	ND	ND	ND	ND	
iphenyls (PCBs)	ppt	500	90	500	Average	ND	ND	ND	ND	ND	ND	ND	Runoff from landfills; discharge of waste chemicals
	PP'	000		000	Range	ND	ND	ND	ND	ND	ND	ND	reason normanamio, aconargo or waste offerfiloais
imazine	ppb	4	4	1	Average	ND	ND	ND	ND	ND	ND	ND	Herbicide runoff
	644	т	т	'	Range	ND	ND	ND	ND	ND	ND	ND	
hiobencarb	ppb	70	42	1	Average	ND	ND	ND	ND	ND	ND	ND	Runoff leaching from rice herbicide

								S	ource Water ¹				
						Colorad	o River		ate Project Wa		Bler	nded	1
Parameter	Units	State or Federal MCL	PHG	State DLR	Range Average	Lake Havasu	Lake Mathews	Castaic Lake	Silverwood Lake	Lake Perris	Diamond Valley Lake	Lake Skinner	Major Sources in Drinking Water
2,4,5-TP					Range	ND	ND	ND	ND	ND	ND	ND	
(Silvex)	ppb	50	3	1	Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned herbicide
					Range	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide used on
Toxaphene	ppb	3	0.03	1	Average	ND	ND	ND	ND	ND	ND	ND	cotton and cattle
Semi-Volatile Organic Co	ompoun	ds (a)											
					Range	ND	ND	ND	ND	ND	ND	ND	Leaching from water storage tank linings
Benzo(a)pyrene	ppt	200	7	100	Average	ND	ND	ND	ND	ND	ND	ND	and distribution lines
		100		_	Range	ND	ND	ND	ND	ND	ND	ND	
Di(2-ethylhexyl)adipate	ppb	400	200	5	Average	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical factories
Di/2 athylhogyd) a hthalata	nnh	4	10	2	Range	ND	ND	ND	ND	ND	ND	ND	Chemical factory discharge; inert ingredient
Di(2-ethylhexyl)phthalate	ppb	4	12	3	Average	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	in pesticides Discharge from metal refineries & agrichemicals
Havaahlarahanzana	nnh	1	0.03	0.5	Range	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobenzene	ppb	I	0.03	0.5	Average Range	ND	ND	ND	ND	ND	ND	ND	factories; wastewater chlorination reaction byproduct
Hexachlorocyclopentadiene	ppb	50	2	1	Average	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical factories
2,3,7,8-TCDD	- Pho	50	~		Range	ND	ND	ND	ND	ND	ND	ND	Waste incineration emissions; chemical factory
(Dioxin)	ppq	30	0.05	5	Average	ND	ND	ND	ND	ND	ND	ND	discharge
Volatile Organic Compou			0.00	Ŭ	Thorage				112	112	110	112	aloonalgo
	1		1		Range	ND	ND	ND	ND	ND	ND	ND	Plastics factory discharge; gas tanks
Benzene	ppb	1	0.15	0.5	Average	ND	ND	ND	ND	ND	ND	ND	and landfill leaching
					Range	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical plants and other industrial
Carbon Tetrachloride	ppt	500	100	500	Average	ND	ND	ND	ND	ND	ND	ND	waste
					Range	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	ppb	600	600	0.5	Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
					Range	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	ppb	5	6	0.5	Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
					Range	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	ppb	5	3	0.5	Average	ND	ND	ND	ND	ND	ND	ND	Extraction and degreasing solvent; fumigant
					Range	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	ppt	500	400	500	Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
		0	10	0.5	Range	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethylene	ppb	6	10	0.5	Average	ND	ND ND	ND	ND	ND	ND	ND ND	Discharge from industrial chemical factories
sis 4.0 Disklass other laws	nnh	6	100	0.5	Range	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	Industrial chemical factory discharge;
cis-1,2-Dichloroethylene	ppb	0	100	0.5	Average Range	ND	ND	ND	ND	ND	ND	ND	byproduct of TCE and PCE biodegradation Industrial chemical factory discharge;
trans-1,2-Dichloroethylene	ppb	10	60	0.5	Average	ND	ND	ND	ND	ND	ND	ND	byproduct of TCE and PCE biodegradation
Dichloromethane	ppb	10	00	0.0	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from pharmaceutical
(Methylene Chloride)	ppb	5	4	0.5	Average	ND	ND	ND	ND	ND	ND	ND	and chemical factories
	662	Ŭ		0.0	Range	ND	ND	ND	ND	ND	ND	ND	Industrial chemical factory discharge;
1,2-Dichloropropane	ppb	5	0.5	0.5	Average	ND	ND	ND	ND	ND	ND	ND	primary component of some fumigants
					Range	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from nematocide used on
1,3-Dichloropropene	ppt	500	200	500	Average	ND	ND	ND	ND	ND	ND	ND	croplands
					Range	ND	ND	ND	ND	ND	ND	ND	Petroleum refinery discharges; industrial
Ethylbenzene	ppb	300	300	0.5	Average	ND	ND	ND	ND	ND	ND	ND	chemical factories
Methyl-tert-butyl ether					Range	ND	ND	ND	ND	ND	ND	ND	
(MTBE)	ppb	13	13	3	Average	ND	ND	ND	ND	ND	ND	ND	Gasoline discharge from watercraft engines
					Range	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial, agricultural, and chemical
Monochlorobenzene	ppb	70	70	0.5	Average	ND	ND	ND	ND	ND	ND	ND	factories, and dry cleaners
			a -	a -	Range	ND	ND	ND	ND	ND	ND	ND	Rubber and plastics factories discharges;
Styrene	ppb	100	0.5	0.5	Average	ND	ND	ND	ND	ND	ND	ND	landfill leaching
			0.1	0.5	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial, agricultural, and chemical
1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	Average	ND	ND	ND	ND	ND	ND	ND	factories; solvent uses
Tetrachloroethylene	nah	F	0.00	0.5	Range	ND	ND ND	ND	ND	ND	ND ND	ND	Discharge from factories, dry cleaners,
(PCE)	ppb	5	0.06	0.5	Average	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	and auto shops
Toluopo	nah	150	150	0.5	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from petroleum and chemical refineries
Toluene	ppb	100	150	0.5	Average	שאו	IND	טא	IND	שאו	UVI	שא	Discharge nom perioleum and chemical reimefles

								S	ource Water ¹	:			
						Colorad	lo River		ate Project Wa		Bler	nded	
Devenuetor	Unito	State or Federal	PLIC	State	Range	Lake	Lake	Castaic	Silverwood	Lake	Diamond Valley	Lake	Majar Sauraa in Drinking Watar
Parameter	Units	MCL	PHG	DLR	Average Range	Havasu ND	Mathews ND	Lake ND	Lake ND	Perris ND	Lake ND	Skinner ND	Major Sources in Drinking Water
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Average	ND	ND	ND	ND	ND	ND	ND	Discharge from textile-finishing factories
	ppp	5	J	0.5	Range	ND	ND	ND	ND	ND	ND	ND	Metal degreasing site discharge; manufacture
1,1,1-Trichloroethane	ppb	200	1,000	0.5	Average	ND	ND	ND	ND	ND	ND	ND	of food wrappings
	ppb	200	1,000	0.0	Range	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	ppb	5	0.3	0.5	Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
Trichloroethylene	662	0	0.0	0.0	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from metal degreasing sites and
(TCE)	ppb	5	1.7	0.5	Average	ND	ND	ND	ND	ND	ND	ND	other factories
Trichlorofluoromethane					Range	ND	ND	ND	ND	ND	ND	ND	Industrial factory discharge; degreasing solvent;
(Freon-11)	ppb	150	1,300	5	Average	ND	ND	ND	ND	ND	ND	ND	propellant
1,1,2-Trichloro-1,2,2-					Range	ND	ND	ND	ND	ND	ND	ND	Discharge from metal degreasing sites and other
trifluoroethane (Freon-113)	ppm	1.2	4	0.01	Average	ND	ND	ND	ND	ND	ND	ND	factories; dry cleaning solvent; refrigerant
					Range	ND	ND	ND	ND	ND	ND	ND	Leaching from PVC piping; plastic factory
Vinyl Chloride	ppt	500	50	500	Average	ND	ND	ND	ND	ND	ND	ND	discharge; byproduct of TCE and PCE biodegradation
					Range	ND	ND	ND	ND	ND	ND	ND	Discharge from petroleum and chemical refineries;
Xylenes	ppm	1.750	1.8	0.0005	Average	ND	ND	ND	ND	ND	ND	ND	fuel solvent
INORGANIC CHEMICALS	5												
					Range	ND	ND	99	ND	ND	ND	93	Residue from water treatment process;
Aluminum	ppb	1,000	600	50	Average	ND	ND	99	ND	ND	ND	93	natural deposits erosion
					Range	ND	ND	ND	ND	ND	ND	ND	Petroleum refinery discharges; fire retardants;
Antimony	ppb	6	1	6	Average	ND	ND	ND	ND	ND	ND	ND	solder; electronics
					Range	2.3	2.4	4.8	5.0	2.3	2.4	ND	Natural deposits erosion, glass and electronics
Arsenic	ppb	10	0.004	2	Average	2.3	2.4	4.8	5.0	2.3	2.4	ND	production wastes
					Range	ND	ND	ND	ND	ND	ND	ND	Asbestos cement pipes internal corrosion;
Asbestos (b)	MFL	7	7	0.2	Average	ND	ND	ND	ND	ND	ND	ND	natural deposits erosion
					Range	141	140	ND	ND	ND	ND	132	Oil and metal refineries discharges;
Barium	ppb	1,000	2,000	100	Average	141	140	ND	ND	ND	ND	132	natural deposits erosion
					Range	ND	ND	ND	ND	ND	ND	ND	Discharge from metal refineries, aerospace,
Beryllium	ppb	4	1	1	Average	ND	ND	ND	ND	ND	ND	ND	and defense industries
		-	0.04		Range	ND	ND	ND	ND	ND	ND	ND	Internal corrosion of galvanized pipes;
Cadmium	ppb	5	0.04	1	Average	ND	ND	ND ND	ND ND	ND	ND ND	ND ND	natural deposits erosion
Chromium	nnh	50	MCLG = 0	10	Range	ND ND	ND ND	ND	ND	ND ND	ND	ND	Discharge from steel and pulp mills;
Chromium	ppb	50	MCLG = 0	10	Average	ND	ND	ND	1.0	ND	ND	ND	natural deposits erosion Runoff/leaching from natural deposits;
Chromium VI (c)	ppb	10	0.02	1	Range Average	ND	ND	ND	1.0	ND	ND	ND	discharge from industrial waste factories
	ppp	10	0.02	1	Range	ND	ND	ND	ND	ND	ND	ND	Internal corrosion of household pipes;
Copper	ppm	AL = 1.3	0.3	0.05	Average	ND	ND	ND	ND	ND	ND	ND	natural deposits erosion
	ppin	7.E = 1.0	0.0	0.00	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from steel/metal, plastic, and
Cyanide	ppb	150	150	100	Average	ND	ND	ND	ND	ND	ND	ND	fertilizer factories
Fluoride	995	100	100	100	Range	0.3	0.3	0.2	ND-0.2	0.2	0.1-0.2	0.3	Erosion of natural deposits; discharge from
(naturally-occurring)	ppm	2.0	1	0.1	Average	0.3	0.3	0.2	0.1	0.2	0.2	0.3	fertilizer and aluminum factories
		-		-	Range	ND	ND	ND	ND	ND	ND	ND	House pipes internal corrosion;
Lead	ppb	AL = 15	0.2	5	Average	ND	ND	ND	ND	ND	ND	ND	erosion of natural deposits
					Range	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits; factory discharge;
Mercury	ppb	2	1.2	1	Average	ND	ND	ND	ND	ND	ND	ND	landfill runoff
					Range	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits; discharge from
Nickel	ppb	100	12	10	Average	ND	ND	ND	ND	ND	ND	ND	metal factories
					Range	ND-0.4	ND	0.6–0.9	ND-0.8	ND	ND	ND	Runoff and leaching from fertilizer use; septic tank
Nitrate (as Nitrogen)	ppm	10	10	0.4	Average	ND	ND	0.7	0.4	ND	ND	ND	and sewage; natural deposits erosion
_					Range	ND	ND	ND	ND	ND	ND	ND	Runoff and leaching from fertilizer use; septic tank
Nitrite (as Nitrogen)	ppm	1	1	0.4	Average	ND	ND	ND	ND	ND	ND	ND	and sewage; natural deposits erosion
					Range	ND	ND	ND	ND	ND	ND	ND	
Perchlorate (d)	ppb	6	1	4	Average	ND	ND	ND	ND	ND	ND	ND	Industrial waste discharge
					Range	ND	ND	ND	ND	ND	ND	ND	Refineries, mines, and chemical
Selenium	ppb	50	30	5	Average	ND	ND	ND	ND	ND	ND	ND	waste discharge; runoff from livestock lots

			Г Т					S						
			1			Colorado River State Project Water Blended								
Parameter	Units	State or Federal MCL	PHG	State DLR	Range Average	Lake Havasu	Lake Mathews	Castaic Lake	Silverwood Lake	Lake Perris	Diamond Valley Lake	Lake Skinner	Major Sources in Drinking Water	
					Range	ND	ND	ND	ND	ND	ND	ND	Leaching from ore processing; electronics	
Thallium	ppb	2	0.1	1	Average	ND	ND	ND	ND	ND	ND	ND	factory discharge	
RADIOLOGICALS (e)														
Gross Alpha					Range	ND–3	ND-4	ND–5	ND-4	ND	ND	ND–6		
Particle Activity	pCi/L	15	MCLG = 0	3	Average	ND	3	ND	3	ND	ND	ND	Erosion of natural deposits	
Gross Beta					Range	4–6	4–6	ND-4	ND	ND-4	ND	ND–5		
Particle Activity	pCi/L	50 (f)	MCLG = 0	4	Average	6	5	ND	ND	ND	ND	ND	Decay of natural and man-made deposits	
					Range	ND	ND	ND	ND	ND	ND	ND		
Radium-226	pCi/L	NA	0.05	1	Average	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits	
					Range	ND	ND	ND	ND	ND	ND	ND		
Radium-228	pCi/L	NA	0.019	1	Average	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits	
Combined					Range	ND	ND	ND	ND	ND	ND	ND		
Radium-226 + 228	pCi/L	5	MCLG = 0	NA	Average	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits	
					Range	ND	ND	ND	ND	ND	ND	ND		
Strontium-90	pCi/L	8	0.35	2	Average	ND	ND	ND	ND	ND	ND	ND	Decay of natural and man-made deposits	
					Range	ND	ND	ND	ND	ND	ND	ND		
Tritium	pCi/L	20,000	400	1,000	Average	ND	ND	ND	ND	ND	ND	ND	Decay of natural and man-made deposits	
					Range	2–3	2–3	2–3	2–4	2	1	2–3		
Uranium	pCi/L	20	0.43	1	Average	2	3	2	3	2	1	2	Erosion of natural deposits	
SECONDARY STAND		Aesthetic	Standar	ds (a) (fo		only)								
			onanaaa	ue (g) (!e	Range	ND	ND	99	ND	ND	ND	93	Residue from water treatment process;	
Aluminum	ppb	200	600	50	Average	ND	ND	99	ND	ND	ND	93	natural deposits erosion	
/ turningin	ppo	200	000		Range	92-93	97–98	89–97	68-83	104–106	79–82	93	Runoff/leaching from natural deposits;	
Chloride	ppm	500	NA	NA	Average	93	98	93	76	104 100	81	93	seawater influence	
Ghionde	Color	300	11/1		Range	3-4	2	4-7	7-12	7-10	4-5	3-4		
Color	Units	15	NA	NA	Average	4	2	6	10	9	4	4	Naturally-occurring organic materials	
	01113	10	14/1		Range	ND	ND	ND	ND	ND	ND	ND	Internal corrosion of household pipes; natural	
Copper	ppm	1.0	0.3	0.05	Average	ND	ND	ND	ND	ND	ND	ND	deposits erosion; wood preservatives leaching	
Foaming Agents	ppin	1.0	0.5	0.00	Range	ND	ND	ND	ND	ND	ND	ND	deposits erosion, wood preservatives leaching	
(MBAS)	ppb	500	NA	NA	Average	ND	ND	ND	ND	ND	ND	ND	Municipal and industrial waste discharges	
(MBAS)	ppp	300	NA.	INA	Range	ND	ND	ND	ND	ND	ND	ND	Municipal and industrial waste discharges	
Iron	pph	300	NA	100		ND	ND	ND	ND	ND	ND	ND	Leaching from natural deposits; industrial wastes	
Iron	ppb	300	NA	100	Average Range	ND	ND	ND	ND	ND	ND	ND	Leaching nom natural deposits, industrial wastes	
Manganaga	nnh	50	NL = 500	20		ND	ND	ND	ND	ND	ND	ND	Leashing from notural deposite	
Manganese	ppb	50	NL = 500	20	Average								Leaching from natural deposits	
MTRE	nnh	5	13	3	Range	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	Capalina diapharga from waterproft angings	
MTBE	ppb	Э	13	3	Average	6	2	3	ND 4	3	ND 6	ND 6	Gasoline discharge from watercraft engines	
Odor Throphold	TON	3	NIA	1	Range	6			4	3	-	6	Naturally acquiring argania materiala	
Odor Threshold	TON	3	NA	I	Average	6 ND	2 ND	3 ND	4 ND	ND ND	6 ND	6 ND	Naturally-occurring organic materials	
Silver	~~h	100	NIA	10	Range	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	Industrial discharges	
Silver	ppb	100	NA	10	Average				ND 388–605		ND 562–594	934–993	Industrial discharges	
Specific Conductores	110/000	1 600	NIA	NIA.	Range		1,000-1,050	618-680		665-685			Substances that form ions in water;	
Specific Conductance	μS/cm	1,600	NA	NA	Average	1,010	1,025	649	497	675	578	964	seawater influence	
Sulfata	000	500	NA	0.5	Range	244-247	250-251	73-86	22–74	70–76	68–71	217-231	Runoff/leaching from natural deposits;	
Sulfate	ppm	500	INA	0.5	Average	246	251 ND	80 ND	48	73 ND	70	224	industrial wastes	
Thioboncarb	nnh	1	42	1	Range	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	Pupoff/loaching from rice berbiside	
Thiobencarb Total Dissolved Solids	ppb		42	I	Average	628–631				367–380			Runoff/leaching from rice herbicide Runoff/leaching from natural deposits;	
		1 000	NIA	NIA	Range		632-643	349-387	208-336		319-328	578-603	U I I	
(TDS)	ppm	1,000	NA	NA	Average	630	638	368	272	328	324	591	seawater influence	
Truck inline.	N.T	_	N1.4	0.4	Range	0.4–1.0	0.8–1.7	1.9	1.0	1.0-2.1	0.6	0.6-0.8	Coll mus off	
Turbidity	NTU	5	NA	0.1	Average	0.7	1.2	1.9	1.0	1.6	0.6	0.7	Soil runoff	
I					Range	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits;	
Zinc	ppm	5.0	NA	0.05	Average	ND	ND	ND	ND	ND	ND	ND	industrial wastes	

								S					
						Colorado River State Project Water					Bler	nded	1
1		State or									Diamond		
		Federal		State	Range	Lake	Lake	Castaic	Silverwood	Lake	Valley	Lake	
Parameter	Units	MCL	PHG	DLR	Average	Havasu	Mathews	Lake	Lake	Perris	Lake	Skinner	Major Sources in Drinking Water
OTHER PARAMETERS	(for re	ference or	nly)										
MICROBIOLOGICAL	-												
Total Coliform	CFU/				Range	5-9,900	ND-8,800	NC (i)	30–17,000	34-40,000	10-1,600	120-20,000	
Bacteria (h)	100 mL	NA	NA	NA	Median	340	310	NC (i)	580	1,800	150	390	Naturally present in the environment
	CFU/				Range	ND-1	ND-61	NC (i)	ND-8	ND-250	ND-11	ND–5	
<i>E. coli</i> (h)	100 mL	NA	NA	NA	Median	ND	3	NC (i)	2	10	ND	1	Human and animal fecal waste
CHEMICAL													
					Range	127–136	120–131	88–90	57–86	91–96	84–92	119–129	
Alkalinity (as $CaCO_3$)	ppm	NA	NA	NA	Average	132	126	89	72	94	88	124	
					Range	130	150	270	250	260	180	140	Runoff/leaching from natural deposits;
Boron	ppb	NL = 1,000	NA	100	Average	130	150	270	250	260	180	140	industrial wastes
					Range	74–77	71–76	30–34	14–28	26–30	27–31	66–72	
Calcium	ppm	NA	NA	NA	Average	76	74	32	21	28	29	69	
					Range	287–300	281–300	126–132	72–114	124–132	122–135	257–278	
Hardness (as CaCO ₃)	ppm	NA	NA	NA	Average	294	291	129	93	128	128	268	
					Range	25	26	11-12	9-10	13-14	14	23-24	
Magnesium	ppm	NA	NA	NA	Average	25	26	12	10	14	14	24	
	pН				Range	8.1–8.2	8.0-8.2	7.6	7.7–8.4	8.2	7.7–8.4	8.0-8.2	
pH	Units	NA	NA	NA	Average	8.1	8.1	7.6	8.0	8.2	8.0	8.1	
					Range	4.7–4.8	4.9	2.8–3.2	2.4–2.8	3.4–3.6	3.6–3.8	4.7	
Potassium	ppm	NA	NA	NA	Average	4.8	4.9	3.0	2.6	3.5	3.7	4.7	
					Range	ND	ND	ND	ND	ND	ND	ND	
Radon (e)	pCi/L	NA	NA	100	Average	ND	ND	ND	ND	ND	ND	ND	
					Range	96–98	99–102	72–82	47–74	85–86	63–67	92–93	
Sodium	ppm	NA	NA	NA	Average	97	100	77	60	86	65	92	
					Range	3.0–3.3	3.1	2.6-3.6	3.5–3.6	4.0-4.2	2.8-3.6	3.2-3.4	
Total Organic Carbon (TOC)	ppm	TT	NA	0.30	Average	3.2	3.1	3.1	3.6	4.1	3.2	3.3	Various natural and man-made sources
to a Rose		NH 50			Range	ND	ND	7.4	9.9	4.9	ND	ND	
	ppb	NL = 50	NA	3	Average	ND	ND	7.4	9.9	4.9	ND	ND	Naturally-occurring; industrial waste discharge
Dichlorodifluoromethane	nnh	NII 1 000	NIA	0.5	Range	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	Industrial waste discharge
Freon 12)	ppb	NL = 1,000	NA	0.5	Average	ND	ND	ND	ND	ND ND	ND ND	ND	Industrial waste discharge
Ethyl- <i>tert</i> -butyl ether ETBE)	nnh	NA	NA	3	Range	ND	ND	ND ND	ND	ND ND	ND ND	ND ND	Llood oo gooolino additiya
	ppb	INA	NA	3	Average	ND	ND	ND	ND	ND ND	ND ND	ND	Used as gasoline additive
<i>tert</i> -Amyl-methyl ether (TAME)	ppb	NA	NA	3	Range	ND	ND	ND	ND	ND	ND	ND	Used as gasoline additive
	php	INA	INA	3	Average	ND	ND	ND	ND	ND	ND	ND	MTBE breakdown product; used as gasoline
tert-Butyl alcohol	nnh	NII 40	NA	<u> </u>	Range	ND ND	ND	ND	ND	ND	ND	ND	additive
(TBA)	ppb	NL = 12	NA	2	Average								
1,2,3-Trichloropropane			o -	_	Range	NC	ND	ND	ND	NC	NC	NC	
(1,2,3-TCP)	ppt	NA	0.7	5	Average	NC	ND	ND	ND	NC	NC	NC	Used as cleaning and degreasing solvent

						Source Water [‡]							
						Colorado River		State Project Water			Blended		
		State or									Diamond		
		Federal		State	Range	Lake	Lake	Castaic	Silverwood	Lake	Valley	Lake	
Parameter	Units	MCL	PHG	DLR	Average	Havasu	Mathews	Lake	Lake	Perris	Lake	Skinner	Major Sources in Drinking Water

DEFINITION OF TERMS AND FOOTNOTES

[‡] As a wholesale water system, Metropolitan provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent locations and/or distribution system, or plant influent as noted.

Definition of Terms

AL	Action Level	NTU	Nephelometric Turbidity Units
Average	Result based on arithmetic mean	pCi/L	picoCuries per Liter
CaCO ₃	Calcium Carbonate	PHG	Public Health Goal
CFU	Colony-Forming Units	ppb	parts per billion or micrograms per liter (µg/L)
DLR	Detection Limits for Purposes of Reporting	ppm	parts per million or milligrams per liter (mg/L)
MBAS	Methylene Blue Active Substances	ppq	parts per quadrillion or picograms per liter (pg/L)
MCL	Maximum Contaminant Level	ppt	parts per trillion or nanograms per liter (ng/L)
MCLG	Maximum Contaminant Level Goal	Range	Results based minimum and maximum values
MFL	Million Fibers per Liter	SWRCB	State Water Resources Control Board
NA	Not Applicable	TON	Threshold Odor Number
NC	Not Collected	TT	Treatment Technique is a required process intended to reduce the level
ND	Not Detected		of a contaminant in drinking water
NL	Notification Level to SWRCB	μS/cm	microSiemen per centimeter; or micromho per centimeter (µmho/cm)

Footnotes

- (a) Data are from samples collected in 2015. Metropolitan's required triennial monitoring (2017–2019) will be performed in 2018.
- (b) Data are from samples collected in 2011 and reported once every nine-year compliance cycle until the next samples are collected.
- (c) Metropolitan's chromium VI reporting level is 0.03 ppb, which is below the state DLR of 1 ppb. Data above Metropolitan's reporting level but below the DLR are reported as ND in this report. These data are available upon request.
- (d) Metropolitan's perchlorate reporting level is 0.1 ppb, which is below the state DLR of 4 ppb. Data above Metropolitan's reporting level but below the DLR are reported as ND in this report. These data are available upon request.
- (e) Data are from samples collected (triennially) during four consecutive quarters of monitoring in 2014 and reported for three years until the next samples are collected.
- (f) SWRCB considers 50 pCi/L to be the level of concern for beta particles.
- (g) State Secondary Standards apply to water supplied to the public by community water systems; annual monitoring is required for approved surface water sources or distribution system entry points of the effluent of source water treatment.
- (h) Reporting level is 1 CFU/100 mL for total coliform and E. coli.
- (i) Samples were not collected directly from Castaic Lake but collected from Jensen influent per State approved monitoring plan.

				Treatment Plant Influent [‡]					
Parameter	Units	State DLR	Range	Weymouth Plant	Diemer Plant	Jensen Plant	Skinner Plant	Mills Plant	Major Sources in Drinking Water
Percent State	Units	DLK	Average Range	0–100	0–100	100	0–31	100	Major Sources in Drinking Water
Project Water	%	NA	Average	13	10	100	8	100	
LONG TERM 2 ENHA							0	100	
LONG TERM ZENHA					ND	ND	ND	ND	
	oocysts/	NIA	Range	ND		ND	ND		
Cryptosporidium	10 L CFU/	NA	Average	ND ND 0	ND				Human and animal fecal waste
E coli		NIA	Range	ND-2	ND ND	ND-2	1-20	ND-7	
E. coli	100 mL	NA	Average	ND		ND	4	1 0.47–1.4	Human and animal fecal waste
To sub-Subits a	NITLI	0.4	Range	0.38–1.6	0.34–1.8	0.73–7.4	0.22–1.1		
	NTU	0.1	Average	0.85	0.90	2.4	0.55	0.90	Human and animal fecal waste
OTHER PARAMETER		ice only							
-	cysts/	l	Range	ND	ND	ND	ND	ND	
Giardia	10 L	NA	Average	ND	ND	ND	ND		Human and animal fecal waste
Total Coliform	CFU/		Range	ND-28,000		28–1,900	130–4,100	19–7,200	4
Bacteria (b)	100 mL	NA	Median	630	600	180	340	440	Naturally present in the environment
	CFU/		Range	ND-1	ND-1	ND-1	ND-3	ND–6	
<i>E. coli</i> (b)	100 mL	NA	Median	ND	ND	ND	1	ND	Human and animal fecal waste
			Range	81–132	81–132	86–97	112–132	55–86	
Alkalinity (as CaCO ₃)	ppm	NA	Highest RAA	128	129	94	127	85	
			Range	ND	ND	99	93	ND	Residue from water treatment process;
Aluminum	ppb	50	Average	ND	ND	99	93	ND	natural deposits erosion
			Range	ND	ND	ND	ND	ND	Petroleum refinery discharges; fire retardants;
Antimony	ppb	6	Average	ND	ND	ND	ND	ND	solder; electronics
			Range	2.2	2.2	4.8	ND	4.9	Natural deposits erosion, glass and electronics
Arsenic	ppb	2	Average	2.2	2.2	4.8	ND	4.9	production wastes
			Range	141	142	ND	132	ND	Oil and metal refineries discharges;
Barium	ppb	100	Average	141	142	ND	132	ND	natural deposits erosion
			Range	ND	ND	ND	ND	ND	Discharge from metal refineries, aerospace,
Beryllium	ppb	1	Average	ND	ND	ND	ND	ND	and defense industries
			Range	140	140	270	140	230	Runoff/leaching from natural deposits;
Boron	ppb	100	Average	140	140	270	140	230	industrial wastes
			Range	ND	ND	ND	ND	ND	Internal corrosion of galvanized pipes;
Cadmium	ppb	1	Average	ND	ND	ND	ND	ND	natural deposits erosion
	FF*		Range	ND	ND	ND	ND	ND	Discharge from steel and pulp mills;
Chromium	ppb	10	Average	ND	ND	ND	ND	ND	natural deposits erosion
	FF*		Range	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits;
Chromium VI (c)	ppb	1	Average	ND	ND	ND	ND	ND	discharge from industrial waste factories
			Range	ND	ND	ND	ND	ND	Internal corrosion of household pipes;
Copper	ppm	0.05	Average	ND	ND	ND	ND	ND	natural deposits erosion
Fluoride		0.00	Range	0.2–0.4	0.2-0.4	0.2	0.2–0.4		Erosion of natural deposits; discharge from
(naturally-occurring)	ppm	0.1	Average	0.3	0.3	0.2	0.3	0.1 0.2	fertilizer and aluminum factories
(PP'''	5.1	Range	109–314	112–320	124–132	234–346	99	
Hardness (as CaCO ₃)	ppm	NA	Average	282	280	124-132	284	64-124	4
	PP111		Range	ND	ND	ND	ND	ND	
Iron	ppb	100	Average	ND	ND	ND	ND	ND	Leaching from natural deposits; industrial wastes
	hhn	100	Range	ND	ND	ND	ND	ND	House pipes internal corrosion;
Lead	ppb	5	Average	ND	ND	ND	ND	ND	erosion of natural deposits
LEau	hhn	5	Range	ND	ND	ND	ND	ND	
Manganana	~~h	20							Locabing from notural donosite
Manganese	ppb	20	Average	ND	ND	ND	ND	ND	Leaching from natural deposits

				Treatment Plant Influent [‡]					
Parameter	Units	State DLR	Range Average	Weymouth Plant	Diemer Plant	Jensen Plant	Skinner Plant	Mills Plant	Major Sources in Drinking Water
			Range	ND	ND	ND	ND	ND	Erosion of natural deposits; factory discharge;
Mercury	ppb	1	Average	ND	ND	ND	ND	ND	landfill runoff
			Range	ND	ND	ND	ND	ND	Erosion of natural deposits; discharge from
Nickel	ppb	10	Average	ND	ND	ND	ND	ND	metal factories
			Range	ND	ND	ND	ND	ND	
Perchlorate (d)	ppb	4	Average	ND	ND	ND	ND	ND	Industrial waste discharge
	pН		Range	7.9–8.8	7.9–8.8	7.1–8.8	8.0-8.5	7.–8.5	
рН	Units	NA	Average	8.2	8.2	7.6	8.3	8.0	
			Range	ND	ND	ND	ND	ND	Refineries, mines, and chemical
Selenium	ppb	5	Average	ND	ND	ND	ND	ND	waste discharge; runoff from livestock lots
			Range	ND	ND	ND	ND	ND	
Silver	ppb	10	Average	ND	ND	ND	ND	ND	Industrial discharges
			Range	NC	NC	582–684	876–1,052	368–668	Substances that form ions in water;
Specific Conductance	µS/cm	NA	Average	NC	NC	644	964	552	seawater influence
			Range	ND	ND	ND	ND	ND	Leaching from ore processing; electronics
Thallium	ppb	1	Average	ND	ND	ND	ND	ND	factory discharge
			Range	2.9–3.5	2.9–3.4	2.3–3.7	2.8–3.5	2.7–4.8	
Total Organic Carbon (TOC)	ppm	0.30	Highest RAA	3.1	3.1	2.9	3.1	3.8	Various natural and man-made sources
			Range	0.38-2.7	0.36–2.8	0.73–7.3	0.18–1.4	0.48–5.3	
Turbidity	NTU	0.1	Average	0.99	0.97	2.0	0.54	0.94	Soil runoff
			Range	ND	ND	7.4	ND	9.3	
Vanadium	ppb	3	Average	ND	ND	7.4	ND	9.3	Naturally-occurring; industrial waste discharge
			Range	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits;
Zinc	ppm	0.05	Average	ND	ND	ND	ND	ND	industrial wastes

DEFINITION OF TERMS AND FOOTNOTES

[‡] As a wholesale water system, Metropolitan provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent locations and/or distribution system, or plant influent as noted.

Definition of Terms

AL	Action Level	NTU Nephelometric Turbidity Units	
Average	Result based on arithmetic mean	ppb parts per billion or micrograms per liter (µg/L)	
CaCO ₃	Calcium Carbonate	ppm parts per million or milligrams per liter (mg/L)	
CFU	Colony-Forming Units	RAA Running Annual Average; highest RAA is the highest of all	
DLR	Detection Limits for Purposes of Reporting	Running Annual Averages calculated as average	
NA	Not Applicable	of the all samples collected within a 12-month period	
NC	Not Collected	Range Results based on minimum and maximum values	
ND	Not Detected	µS/cm microSiemen per centimeter; or micromho per centimeter (µmho/cm)	

Footnotes

- (a) Data are from samples collected during the second round of LT2ESWTR required monitoring of Cryptosporidium and E. coli in the plant influent.
- (b) Reporting level is 1 CFU/100 mL for total coliform and *E. coli*. Values are based on monthly median per State guidelines and recommendations.

(c) Metropolitan's chromium VI reporting level is 0.03 ppb, which is below the state DLR of 1 ppb. Data above Metropolitan's reporting level but below the DLR are reported as ND in this report. These data are available upon request.

(d) Metropolitan's perchlorate reporting level is 0.1 ppb, which is below the state DLR of 4 ppb. Data above Metropolitan's reporting level but below the DLR are reported as ND in this report. These data are available upon request.