		State (Federal)		State	Donne		Treat	ment Plant Ef	fluent *			
Parameter	Units	State (Federal) MCL	PHG	DLR/CCRDL (RL)	Range Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Percent State Water Project	%	NA	NA	NA	Range Average	0 - 94 9	100	100	0 - 84	0 - 90		Not applicable
PRIMARY STANDARDS—Mandatory Heal	th-Related Stan	dards										
CLARITY Combined Filter Effluent (CFE) Turbidity (a)	NTU %	тт	NA	NA	Highest % <= 0.3	0.04	0.04	0.09	0.09	0.04		Soil runoff
MICROBIOLOGICAL (b)	,,,				70 1- 0.0	100	100	100	100	100		
Total Coliform Bacteria (c)	% Positive Monthly Samples	5.0	MCLG = 0	NA	Range Average	NA	NA	NA	NA	NA	0 - 0.1 0	Naturally present in the environment
Escherichia coli (E. coli) (d)	Number	1	MCLG = 0	NA	Number of Positive Samples	NA	NA	NA	NA	NA	0	Human and animal fecal waste
Heterotrophic Plate Count (HPC) Bacteria (e)	CFU/mL	TT	NA	(1)	Median Range Median	ND - 1 ND	ND - 3 ND	ND - 1 ND	ND - 1 ND	- ND		Naturally present in the environment
Cryptosporidium	oocysts/200 L	TT	MCLG = 0	(1)	Range Average	ND	ND	ND	ND	ND		Human and animal fecal waste
Giardia	cysts/200 L	TT	MCLG = 0	(1)	Range Average	ND	ND	ND	ND	ND		Human and animal fecal waste
ORGANIC CHEMICALS Synthetic Organic Compounds (SOC) (f)												
Synthetic Organic Compounds (SOC) (f) 1,2,3-Trichloropropane (1,2,3-TCP)	ppt	5	0.7	5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial and agrichemical factories; byproduct of producing other compounds and pesticides; leaching from hazardous waste sites
2,4,5-TP (Silvex)	ppb	50	3	1	Range Average	ND	ND	ND	ND	ND		Residue of banned herbicide
2,4-D	ppb	70	20	10	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on row crops, rangeland, lawns, and aquatic weeds
Acrylamide	ppm	TT	MCLG = 0	NA	Range Average	NA	NA	NA	NA	NA		Water treatment chemical impurities
Alachlor	ppb	2	4	1	Range 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		Runoff from herbicide used on row crops and along railroad and highway right-of-ways
Bentazon	ppb	18	200	2	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses
Benzo(a)pyrene	ppt	200	7	100	Range Average	ND	ND	ND	ND	ND		Leaching from linings and coatings of water storage tanks and distribution mains
Carbofuran	ppb	18	0.7	5	Range Average	ND	ND	ND	ND	ND		Leaching of soil fumigant used on rice, alfalfa, and grape vineyards
Chlordane	ppt	100	30	100	Range Average	ND	ND	ND	ND	ND		Residue of banned insecticide
Dalapon	ppb	200	790	10	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on right-of-ways, and crops and landscape maintenance
Di(2-ethylhexyl)adipate	ppb	400	200	5	Range Average	ND	ND	ND	ND	ND		Discharge from chemical factories
Di(2-ethylhexyl)phthalate	ppb	4	12	3	Range Average	ND	ND	ND	ND	ND		Discharge from rubber and chemical factories; inert ingredient in pesticides
Dibromochloropropane (DBCP)	ppt	200	1.7	10	Range Average	ND	ND	ND	ND	ND		Banned nematocide that may still be present in soils due to runoff/leaching
Dinoseb	ppb	7	14	2	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on soybeans, vegetables, and fruits
Dioxin (2,3,7,8-TCDD)	ppq	30	0.05	5	Range Average	ND	ND	ND	ND	ND		Waste incineration emissions; chemical factory discharge
Diquat	ppb	20	6	4	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used for terrestrial and aquatic weeds

Patentine Patentine Patentine Pate Patentine					State	_		Treati	nent Plant Eff	luent *		
Part 1985	Parameter	Units	, ,	PHG	DLR/CCRDL	_						Major Sources in Drinking Water
Part	Endothall	ppb	100	94	45	_	ND	ND	ND	ND	ND	
	Endrin	ppb	2	0.3	0.1		ND	ND	ND	ND	ND	Residue of banned insecticide and rodenticide
Property 10	Epichlorohydrin	ppm	ТТ	MCLG = 0	NA		NA	NA	NA	NA	NA	Water treatment chemical impurities
Part Color	Ethylene Dibromide (EDB)	ppt	50	10	20		ND	ND	ND	ND	ND	banned nematocide that maybe still present in soils due to runoff
Processor 10	Glyphosate	ppb	700	900	25		ND	ND	ND	ND	ND	Runoff from herbicide use
Present for the courts of the court of the c	Heptachlor	ppt	10	8	10	Average	ND	ND	ND	ND	ND	Residue of banned insecticide
Note	Heptachlor Epoxide	ppt	10	6	10		ND	ND	ND	ND	ND	Breakdown product of heptachlor
Average No No No No No No No N	Hexachlorobenzene	ppb	1	0.03	0.5		ND	ND	ND	ND	ND	
Accessing 190 20 22 20 Accessing No NO NO NO NO NO NO NO	Hexachlorocyclopentadiene	ppb	50	2	1		ND	ND	ND	ND	ND	Discharge from chemical factories
Montania (Ordania)	Lindane	ppt	200	32	200		ND	ND	ND	ND	ND	•
County (Vydatrix) Spb 50 26 20 Range NO ND ND ND ND ND Runoffloaching from insecticide uses on rice Pertachiorophrenol Spb 1 0.3 0.2 Range NO ND ND ND ND ND Subtrage from sood preserving fluctures other insecticide and nectocide uses on rice Pertachiorophrenol Spb 500 168 1 Range ND ND ND ND ND ND Runoffloaching from insecticide uses Pertachiorophrenol Spb 500 168 1 Range ND ND ND ND ND ND Runoffloaching from insecticide uses Pertachiorophrenol Spb 500 500 Range ND ND ND ND ND ND Runoffloaching fluctures other insecticide and nectocide used on received and nectocide used on r	Methoxychlor	ppb	30	0.09	10		ND	ND	ND	ND	ND	
Pertachiorophenel ppb 1 0.3 0.2 Average ND ND ND ND ND ND Discharge from insecticidal and Pertachionophenel ppb 1 0.3 0.2 Average ND ND ND ND ND ND ND Hericide nurse insecticidal and Pertachionophenel ppb 500 166 1 Average ND ND ND ND ND ND ND Hericide nurse insecticidal and Pertachionophenel ppb 500 90 800 800 800 800 800 800 800 800 80	Molinate (Ordram)	ppb	20	1	2		ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
Pictoran peb 500 166 1 Average ND ND ND ND ND ND ND Herbicidal uses Prictoran peb 500 166 1 Average ND	Oxamyl (Vydate)	ppb	50	26	20		ND	ND	ND	ND	ND	Runoff/leaching from insecticide uses
Polycholominated Biphenyle (PCBs) Ppt 500 90 500 Range ND ND ND ND ND ND ND Runoff from landfilis; discharge of waste chemicals	Pentachlorophenol	ppb	1	0.3	0.2		ND	ND	ND	ND	ND	
Simacine ppb 4 4 4 1 Arichicorethane ppc 700 42 1 Average ND	Picloram	ppb	500	166	1		ND	ND	ND	ND	ND	Herbicide runoff
Thiobencarb ppb 70 42 1 Range ND ND ND ND ND ND Runoffleaching from herbicide used on rice Toxaphene ppb 3 0.03 1 Range ND ND ND ND ND ND ND ND Runoffleaching from herbicide used on rice Toxaphene ppb 3 0.03 1 Range ND ND ND ND ND ND ND ND ND Runoffleaching from herbicide used on rice **Toxaphene ND	Polychlorinated Biphenyls (PCBs)	ppt	500	90	500		ND	ND	ND	ND	ND	Runoff from landfills; discharge of waste chemicals
Transparence Paragres Parag	Simazine	ppb	4	4	1		ND	ND	ND	ND	ND	Herbicide runoff
Volatile Organic Compounds 1,1,1-Trichloroethane	Thiobencarb	ppb	70	42	1		ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
1,1,1-Trichloroethane	Toxaphene	ppb	3	0.03	1		ND	ND	ND	ND	ND	Runoff/leaching from insecticide used on cotton and cattle
1,1,2-Trichloroethane	Volatile Organic Compounds											
1,1,2,2-Trichloro-1,2,2-trifluoroethane ppb 1	1,1,1-Trichloroethane	ppb	200	1,000	0.5		ND	ND	ND	ND	ND	Metal degreasing site discharge; manufacture of food wrappings
Average ND ND ND ND ND Discharge from industrial chemical factories 1,1,2-Trichloroethane ppb 5 0.3 0.5 Range Average ND ND ND ND ND ND ND ND ND Discharge from industrial chemical factories 1,1-Dichloroethylene ppb 6 10 0.5 Range Average ND Discharge from industrial chemical factories 1,2-Trichlorobenzene ppb 6 0 0 600 0.5 Range Average ND	1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	_	ND	ND	ND	ND	ND	
Average ND	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ppm	1.2	4	0.01		ND	ND	ND	ND	ND	
Average ND	1,1,2-Trichloroethane	ppb	5	0.3	0.5		ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,2,4-Trichlorobenzene ppb 6 10 0.5 Average ND ND ND ND ND ND Discharge from industrial chemical factories 1,2,4-Trichlorobenzene ppb 5 5 5 0.5 Range Average ND Discharge from textile-finishing factories 1,2-Dichlorobenzene ppb 600 600 0.5 Range Average ND ND ND ND ND ND ND ND Discharge from industrial chemical factories 1,2-Dichloropethane ppt 500 400 500 Range ND ND ND ND ND ND ND Discharge from industrial chemical factories	1,1-Dichloroethane	ppb	5	3	0.5	Range	ND	ND	ND	ND	ND	Extraction and degreasing solvent; fumigant
1,2-Dichloroethane ppb 5 5 5 0.5 Average ND ND ND ND ND ND Discharge from textile-finishing factories Average ND ND ND ND ND ND ND Discharge from industrial chemical factories 1,2-Dichloroethane ppt 500 400 500 Range ND ND ND ND ND ND ND Discharge from industrial chemical factories	1,1-Dichloroethylene	ppb	6	10	0.5		ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,2-Dichloropenzene ppb 600 600 0.5 Average ND ND ND ND ND Discharge from industrial chemical factories 1,2-Dichloropethane ppt 500 400 500 Range ND ND ND ND ND ND Discharge from industrial chemical factories	1,2,4-Trichlorobenzene	ppb	5	5	0.5		ND	ND	ND	ND	ND	Discharge from textile-finishing factories
1.2-Dichloroethane ppt 500 400 500 Range ND ND ND ND Discharge from industrial chemical factories	1,2-Dichlorobenzene	ppb	600	600	0.5	Range	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
	1,2-Dichloroethane	ppt	500	400	500	Ŭ	ND	ND	ND	ND	ND	Discharge from industrial chemical factories

		State (Federal)		State	Range		Treati	nent Plant Eff	luent *			
Parameter	Units	MCL	PHG	DLR/CCRDL (RL)	Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
1,2-Dichloropropane	ppb	5	0.5	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; primary component of some fumigants
1,3-Dichloropropene	ppt	500	200	500	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from nematocide used on croplands
1,4-Dichlorobenzene	ppb	5	6	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
Benzene	ppb	1	0.15	0.5	Range Average	ND	ND	ND	ND	ND		Plastics factory discharge; gas tanks and landfill leaching
Carbon Tetrachloride	ppt	500	100	500	Range Average	ND	ND	ND	ND	ND		Discharge from chemical plants and other industrial wastes
cis-1,2-Dichloroethylene	ppb	6	100	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; 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; insecticide
Ethylbenzene	ppb	300	300	0.5	Range Average	ND	ND	ND	ND	ND		Petroleum refinery discharge; industrial chemical factories
Methyl-tert-butyl ether (MTBE)	ppb	13	13	3	Range Average	ND	ND	ND	ND	ND		Gasoline discharge from watercraft engines
Monochlorobenzene	ppb	70	70	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial and agrichemical factories, and dry cleaners
Styrene	ppb	100	0.5	0.5	Range Average	ND	ND	ND	ND	ND		Rubber and plastics factories discharge; landfill leaching
Tetrachloroethylene (PCE)	ppb	5	0.06	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from factories, dry cleaners, and auto shops
Toluene	ppb	150	150	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from petroleum and chemical refineries
trans -1,2-Dichloroethylene	ppb	10	60	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Trichloroethylene (TCE)	ppb	5	1.7	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories
Trichlorofluoromethane (Freon-11)	ppb	150	1,300	5	Range Average	ND	ND	ND	ND	ND		Industrial factory discharge; degreasing solvent; propellant and refrigerant
Vinyl Chloride	ppt	500	50	500	Range Average	ND	ND	ND	ND	ND		Leaching from PVC piping; plastic factory discharge; byproduct of TCE and PCE biodegradation
Xylenes	ppm	1.750	1.8	0.0005	Range Average	ND	ND	ND	ND	ND		Discharge from petroleum and chemical refineries; fuel solvent
INORGANIC CHEMICALS	I	1			_							
Aluminum (g)	ppb	1,000	600	50	Range Highest RAA	ND - 260 137	ND - 220 116	ND - 93 ND	ND - 200 108	80 - 210 149		Residue from water treatment process; runoff and leaching from natural deposits
Antimony	ppb	6	1	6	Range Average	ND	ND	ND	ND	ND		Petroleum refinery discharges; fire retardants; solder; electronics
Arsenic	ppb	10	0.004	2	Range Average	ND	ND	ND	ND	ND		Natural deposits erosion, glass and electronics production wastes
Asbestos (h)	MFL	7	7	0.2	Range Average	ND	ND	ND	ND	ND		Asbestos cement pipes internal corrosion; runoff and leaching from natural deposits
Barium	ppb	1,000	2,000	100	Range Average	107	ND	ND	ND	105		Oil and metal refineries discharge; natural deposits erosion
Beryllium	ppb	4	1	1	Range Average	ND	ND	ND	ND	ND		Discharge from metal refineries, aerospace, and defense industries
Cadmium	ppb	5	0.04	1	Range Average	ND	ND	ND	ND	ND		Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints; natural deposits erosion
Chromium	ppb	50	MCLG = 100	10	Range Average	ND	ND	ND	ND	ND		Discharge from steel and pulp mills; natural deposits erosion
Copper (i)	ppm	AL = 1.3	0.3	0.05	Range Average	ND	ND	ND	ND	ND		Internal corrosion of household pipes; runoff and leaching from natural deposits; leaching from wood preservatives
Cyanide	ppb	150	150	100	Range Average	ND	ND	ND	ND	ND		Discharge from steel/metal, plastic, and fertilizer factories

				State		Treatment Plant Effluent *						
Parameter	Units	State (Federal) MCL	PHG	DLR/CCRDL (RL)	Range Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Fluoride (j)	nom	2.0	1	0.1	Range	0.5 - 0.9	0.4 - 0.8	0.1 - 0.9	0.6 - 0.9	0.6 - 0.8	0.2 - 0.9	Runoff and leaching from natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum
Fluoride (J)	ppm	2.0	1	0.1	Average	0.7	0.7	0.8	0.7	0.7	0.7	factories
Lead	ppb	AL = 15	0.2	5	Range Average	ND	ND	ND	ND	ND		Internal corrosion of household water plumbing systems; industrial manufacturers' discharge; runoff and leaching from natural deposits
Mercury	ppb	2	1.2	1	Range Average	ND	ND	ND	ND	ND		Erosion of natural deposits; factory discharge; landfill runoff
Nickel	ppb	100	12	10	Range Average	ND	ND	ND	ND	ND		Erosion of natural deposits; discharge from metal factories
Nitrate (as Nitrogen)	ppm	10	10	0.4	Range Average	ND	ND	0.6	ND	ND		Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
Nitrite (as Nitrogen)	ppm	1	1	0.4	Range Average	ND	ND	ND	ND	ND		Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
Perchlorate	ppb	6	1	4	Range Average	ND	ND	ND	ND	ND		Industrial waste discharge
Selenium	ppb	50	30	5	Range Average	ND	ND	ND	ND	ND		Refineries, mines, and chemical waste discharge; runoff from livestock lots
Thallium	ppb	2	0.1	1	Range Average	ND	ND	ND	ND	ND		Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
RADIOLOGICALS									l			
Gross Alpha Particle Activity	pCi/L	15	MCLG = 0	3	Range Average	ND - 3 ND	ND	ND - 4 ND	ND - 3 ND	ND		Runoff/leaching from natural deposits
Gross Beta Particle Activity	pCi/L	50	MCLG = 0	4	Range Average	ND - 7	ND	ND - 4	ND - 5	ND - 6 4		Decay of natural and man-made deposits
Radium-226	pCi/L	NA	0.05	1	Range Average	ND	ND	ND	ND	ND		Erosion of natural deposits
Radium-228	pCi/L	NA	0.019	1	Range Average	ND	ND	ND	ND - 1 ND	ND - 2 ND		Erosion of natural deposits
Combined Radium-226 + 228	pCi/L	5	MCLG = 0	NA	Range Average	ND	ND	ND	ND	ND		Erosion of natural deposits
Strontium-90	pCi/L	8	0.35	2	Range 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		Decay of natural and man-made deposits
Uranium	pCi/L	20	0.43	1	Range Average	1 - 3 2	ND - 3 ND	ND - 2 ND	ND - 2 2	1 - 3 2		Erosion of natural deposits
DISINFECTION BYPRODUCTS, DISINFECTANT	RESIDUALS, AN	D DISINFECTION	ON BYPRODUC	T PRECURSO					1		T	
Total Trihalomethanes (TTHM) (Plant Core Locations and Distribution System)	ppb	80	NA	1.0	Range Highest LRAA	19 - 27 25	12 - 17 14	14 - 22 18	13 - 24 23	20 - 26 24	10 - 31 32	Byproduct of drinking water chlorination
Sum of Five Haloacetic Acids (HAA5)					Range	1.8 - 8.0	1.9 - 4.9	2.2 - 14	3.5 - 12	3.3 - 7.3	1.1 - 14	
(Plant Core Locations and Distribution System)	ppb	60	NA	1.0	Highest LRAA	5.9	4.6	9.1	8.5	6.2	9.1	Byproduct of drinking water chlorination
Total Chlorine Residual	ppm	MRDL = 4.0	MRDLG = 4.0	(0.05)	Range Highest RAA						1.4 - 3.0 2.4	Drinking water disinfectant added for treatment
Bromate (I)	ppb	10	0.1	1.0	Range Highest RAA	ND - 1.3 1.9	1.4 - 6.0 4.4	ND - 12 4.3	ND - 5.6 2.5	ND - 4.2 2.0		Byproduct of drinking water ozonation
Total Organic Carbon (TOC)	ppm	тт	NA	0.30	Range Highest RAA	2.2 - 2.7 2.4	1.8 - 2.3 2.2	1.7 - 3.1 2.1	1.9 - 2.6 2.3	2.1 - 2.6 2.4		Various natural and man-made sources; TOC is a precursor for the formation of disinfection byproducts
SECONDARY STANDARDS—Aesthetic Sta	ndards											
Aluminum (g)	ppb	200	600	50	Range Highest RAA	ND - 260 137	ND - 220 116	ND - 93 ND	ND - 200 108	80 - 210 149		Residue from water treatment process; runoff and leaching from natural deposits
Chloride	ppm	500	NA	NA	Range Average	93 - 94 94	51 - 54 52	60 - 62 61	81 - 92 86	93		Runoff/leaching from natural deposits; seawater influence
Color	Color Units	15	NA	NA	Range Average	1	1 - 3 2	1 - 3 2	1 - 2 2	1		Naturally-occurring organic materials
Copper (i)	ppm	1.0	0.3	0.05	Range Average	ND	ND	ND	ND	ND		Internal corrosion of household pipes; runoff/leaching from natural deposits; wood preservatives leaching
Foaming Agents - Methylene Blue Active Substances (MBAS)	ppb	500	NA	NA	Range Average	ND	ND	ND	ND	ND		Municipal and industrial waste discharges

				State			Treati	ment Plant Eff	luent *			
Parameter	Units	State (Federal) MCL	PHG	DLR/CCRDL (RL)	Range Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Iron	ppb	300	NA	100	Range Average	ND	ND	ND	ND	ND		Leaching from natural deposits; industrial wastes
Manganese	ppb	50	NL = 500	20	Range Average	ND	ND	ND	ND	ND		Leaching from natural deposits
MTBE	ppb	5	13	3	Range Average	ND	ND	ND	ND	ND		Gasoline discharge from watercraft engines
Odor Threshold	TON	3	NA	1	Range Average	2	2	2	2	2		Naturally-occurring organic materials
Silver	ppb	100	NA	10	Range Average	ND	ND	ND	ND	ND		Industrial discharges
Specific Conductance	μS/cm	1,600	NA	NA	Range Average	964 - 975 970	451 - 468 460	439 - 455 447	796 - 956 876	963 - 968 966		Substances that form ions in water; seawater influence
Sulfate	ppm	500	NA	0.5	Range Average	215 - 217 216	53 - 56 54	41 - 43 42	152 - 208 180	211 - 215 213		Runoff/leaching from natural deposits; industrial wastes
Thiobencarb	ppb	1	42	1	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from rice herbicide
Total Dissolved Solids, Filterable (TDS) (m)	ppm	1,000	NA	NA	Range Average	582 - 603 592	255 - 264 260	240 - 255 248	472 - 588 530	587 - 593 590		Runoff/leaching from natural deposits
Turbidity	NTU	5	NA	0.1	Range Average	ND	ND	ND	ND	ND		Soil runoff
Zinc	ppm	5.0	NA	0.05	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; industrial wastes
OTHER PARAMETERS General Minerals												
Alkalinity (as CaCO ₃)	ppm	NA	NA	(1)	Range Average	117 - 120 118	79 - 86 82	75 - 76 76	105 - 121 113	118 - 119 118		Runoff/leaching of natural deposits; carbonate, bicarbonate, hydroxide, and occasionally borate, silicate, and phosphate
Calcium	ppm	NA	NA	(0.1)	Range Average	65 - 67 66	25 - 27 26	21 - 22	52 - 72 62	65		Runoff/leaching from natural deposits
Hardness (as CaCO ₃)	ppm	NA	NA	(1)	Range	261 - 269	107 - 110	84 - 94	211 - 273	256 - 268		Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water
Magnesium	ppm	NA	NA	(0.01)	Average Range	265 25 - 26	108	89 9.7 - 10	242	262 25 - 26		Runoff/leaching from natural deposits
Potassium	ppm	NA	NA	(0.2)	Average Range	26 4.5 - 4.7	12 2.5 - 2.6	9.8 2.5	23 4.0 - 4.8	26 4.5 - 4.6		Salt present in the water; naturally-occurring
Sodium	ppm	NA	NA	(1)	Average Range	4.6 93 - 98	2.6 46 - 48	51 - 55	4.4 76 - 98	4.6 93 - 97		Salt present in the water; naturally-occurring
Unregulated Contaminants		1			Average	96	47	53	87	95		
Boron	ppb	NL = 1,000	NA	100	Range Average	130	170	140	130	130		Runoff/leaching from natural deposits; industrial wastes
Chlorate	ppb	NL = 800	NA	20	Range Average	69	27	27	34	76		Byproduct of drinking water chlorination; industrial processes
Chromium VI	ppb	NA	0.02	1	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; discharge from industrial wastes
Vanadium	ppb	NL = 50	NA	3	Range Average	ND	ND	ND	ND	ND		Naturally-occurring; industrial waste discharge
Dichlorodifluoromethane (Freon-12)	ppb	NL = 1,000	NA	0.5	Range Average	ND	ND	ND	ND	ND		Industrial waste discharge
N-Nitrosodimethylamine (NDMA)	ppt	NL = 10	3	(2)	Range	3.1	2.0	2.5	4.2	ND	ND - 5.2	Byproduct of drinking water chloramination; industrial processes
Perfluoroalkyl and Polyfluoroalkyl Substances (P	PFAS) (n, o)				-							
Perfluorooctanoic acid (PFOA)	ppt	NL = 5.1	NA	4	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharges; runoff/leaching from
Perfluorooctanesulfonic acid (PFOS)	ppt	NL = 6.5	NA	4	Range Average	ND	ND	ND	ND	ND		landfills; used in fire-retarding foams and various industrial processes
Perfluorononanoic acid (PFNA)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		processes

				State			Treat	ment Plant Eff	luent *			
Parameter	Units	State (Federal) MCL	PHG	DLR/CCRDL (RL)	Range Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Perfluorohexanesulfonic acid (PFHxS)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
Perfluoroheptanoic acid (PFHpA)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
Perfluorobutanesulfonic acid (PFBS)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
Perfluorodecanoic acid (PFDA)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
Perfluorododecanoic acid (PFDoA)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
Perfluorohexanoic acid (PFHxA)	ppt	NA	NA	4	Range Average	ND	2.5	2.6	ND	ND		
Perfluorotetradecanoic acid (PFTeDA)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
Perfluorotridecanoic acid (PFTrDA)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
Perfluoroundecanoic acid (PFUnA)	ppt	NA	NA	4	Range Average	ND	ND	ND	ND	ND		
4,8-dioxa-3H-perfluorononanoate (ADONA)	ppt	NA	NA	2	Range Average	ND	ND	ND	ND	ND		
F-53B Major (11Cl-PF3OUdS)	ppt	NA	NA	2	Range Average Range	ND	ND	ND	ND	ND		
F-53B Minor (9CI-PF3ONS)	ppt	NA	NA	2	Average Range	ND	ND	ND	ND	ND		
GenX (HFPO-DA)	ppt	NA	NA	4	Average Range	ND	ND	ND	ND	ND		
N-ethyl Perfluorooctanesulfonamidoacetic acid	ppt	NA	NA	4	Average Range	ND	ND	ND	ND	ND		
N-methyl Perfluorooctanesulfonamidoacetic acid	ppt	NA	NA	4	Average	ND	ND	ND	ND	ND		
Miscellaneous (o)		, ,			· -							
Calcium Carbonate Precipitation Potential (CCPP) (as CaCO ₃) (p)	ppm	NA	NA	NA	Range Average	2.6 - 11 8.1	1.1 - 3.4 2.2	0.85 - 2.2 1.6	0.78 - 11 6.4	3.3 - 9.9 7.4		Elemental balance in water; affected by temperature, other factors
Corrosivity (as Aggressiveness Index) (q)	Al	NA	NA	NA	Range Average	12.3 - 12.4 12.4	12.1 - 12.2 12.1	11.9 - 12.1	12.3 - 12.5	12.4		Elemental balance in water; affected by temperature, other factors
Corrosivity (as Saturation Index) (r)	SI	NA	NA	NA	Range Average	0.49 - 0.69 0.59	0.32 - 0.48 0.40	0.27 - 0.28 0.28	0.39 - 0.73 0.56	0.48 - 0.65 0.56		Elemental balance in water; affected by temperature, other factors
рН	pH Units	NA	NA	NA	Range Average	8.1	8.4	8.3 - 8.5 8.4	8.1	8.1		Not applicable
Radon	pCi/L	NA	NA	100	Range Average	ND	ND	ND	ND	ND		Gas produced by the decay of naturally-occurring uranium in soil and water
Total Dissolved Solids, Calculated (TDS) (s)	ppm	1,000	NA	NA	Range Average	402 - 595 563	248 - 273 258	244 - 295 263	334 - 612 475	450 - 599 565		Runoff/leaching from natural deposits
Ethyl-tert-butyl ether (ETBE)	ppb	NA	NA	3	Range Average	ND	ND	ND	ND	ND		Used as gasoline additive
tert-Amyl-methyl ether (TAME)	ppb	NA	NA	3	Range Average	ND	ND	ND	ND	ND		Used as gasoline additive

	State (Foderal)			State	_		Treati	ment Plant Effl	uent *			
Parameter	Units	State (Federal) MCL	PHG	DLR/CCRDL (RL)	Range Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Sum of Five Haloacetic Acids (HAA5) (t)	ppb	60	NA	1.0	Range	1.1 - 4.0	1.4 - 3.0	2.1 - 7.6	2.9 - 8.6	3.4 - 5.7		Byproduct of drinking water chlorination
Sum of the Halbacetic Acids (HAAS)	рры	00	INA	1.0	Average	2.5	2.5	5.7	6.2	4.5		Dyproduct of diffiking water chilofiliation
Total Trihalomethanes (TTHM) (t)	daa	90	NA	1.0	Range	13 - 32	8.2 - 22	12 - 29	11 - 40	15 - 36		Byproduct of drinking water chlorination
(t)	ρρυ	80	IVA	1.0	Average	22	11	18	19	22		Byproduct of drinking water chilomiation

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 per frequency stipulated in Metropolitan's state-approved monitoring plan, and is based on TT, RAA, or LRAA, as appropriate. Data above Metropolitan's laboratory reporting limit (RL) but below the state DLR are reported as ND in this report; these data are available upon request. Metropolitan was in compliance with all primary and secondary drinking water regulations for the currrent monitoring period.

Note: Metropolitan monitors the distribution system for constituents under the revised Total Coliform Rule (TCR), Water Fluoridation Standards, and Disinfectants/Disinfection Byproducts Rule (TTHMs, HAA5, and total chlorine residual). Constituents with grayed out areas in the distribution system column are routinely monitored at treatment plant effluents and not in the distribution system.

Definition of Terms

Al	Aggressiveness Index	MCL	Maximum Contaminant Level	ppt	Parts per trillion or nanograms per liter (ng/L)
AL	Action Level	MCLG	Maximum Contaminant Level Goal	RAA	Running Annual Average; highest RAA is the highest of all
Average	Arithmetic mean	MFL	Million Fibers per Liter		running Annual Averages calculated as an average of all the
CaCO ₃	Calcium Carbonate	MRDL	Maximum Residual Disinfectant Level		samples collected within a 12-month period
ŭ		MRDLG		Donas	·
CCPP	Calcium Carbonate Precipitation Potential	IVIRDLG	Maximum Residual Disinfectant Level Goal	Range	Results based on minimum and maximum values; range
CCRDL	Consumer Confidence Report Detection Level	NA	Not Applicable		and average values are the same if a single value is reported
CFE	Combined Filter Effluent	ND	Not Detected at or above DLR or RL		for samples collected once or twice annually
CFU	Colony-Forming Units	NL	Notification Level to SWRCB	RL	Reporting Limit
DLR	Detection Limits for Purposes of Reporting	NTU	Nephelometric Turbidity Units	SI	Saturation Index (Langelier)
HAA5	Sum of five haloacetic acids	pCi/L	PicoCuries per Liter	SWRCB	State Water Resources Control Board
HPC	Heterotrophic Plate Count	PFAS	Per- and polyfluoralkyl substances	TDS	Total Dissolved Solids
LRAA	Locational Running Annual Average; highest LRAA	PHG	Public Health Goal	TON	Threshold Odor Number
	is the highest of all Locational Running Annual Averages	ppb	parts per billion or micrograms per liter (µg/L)	TT	Treatment Technique is a required process intended to
	calculated as an average of all samples collected within	ppm	parts per million or milligrams per liter (mg/L)		reduce the level of a contaminant in drinking water
	a 12-month period	ppq	parts per quadrillion or picograms per liter (pg/L)	TTHM	Total Trihalomethanes
				μS/cm	MicroSiemen per centimeter

Footnotes

- (a) Metropolitan monitors turbidity at the CFE locations using continuous and grab samples. Turbidity, a measure of cloudiness of the water, is an indicator of treatment performance. Turbidity was in compliance with the TT primary drinking water standard and the secondary drinking water standard of less than 5 NTU.
- (b) Per the state's Surface Water Treatment Rule, treatment techniques that remove or inactivate Giardia cysts will also remove HPC bacteria, Legionella, and viruses. Legionella and virus monitoring is not required.
- (c) Compliance is based on monthly samples from treatment plant effluents and the distribution system.
- (d) The E. coli MCL is based on routine and repeat samples testing positive for coliforms and/or E. coli, failure to test for E. coli, or failure to analyze required repeat samples.
- (e) All distribution system samples had detectable total chlorine residuals, so no HPC bacteria analysis was required. Metropolitan monitors HPC bacteria to ensure treatment process efficacy.
- (f) Acrylamide and epichlorohydrins are monitored annually. All other SOC data were collected in 2018 and reported once every three-year compliance cycle until the next required triennial monitoring in 2021.
- (g) Compliance with the state MCL for aluminum is based on RAA. No exceedances occurred in the Diemer, Jensen, Mills, Skinner, and Weymouth plant effluents.
- (h) Data collected in 2020 and reported once every nine-year compliance cycle, until the next samples are collected in 2029.
- (i) As a wholesaler, Metropolitan has no retail customers and is not required to collect samples at consumers' taps. However, compliance monitoring under Title 22 is required at plant effluents.
- (j) Metropolitan was in compliance with all provisions of the State's fluoridation system requirements. Fluoride feed systems were temporarily out of service during treatment plant shutdowns and/or maintenance work in 2020, resulting in occasional fluoride levels below 0.7 mg/L.
- (k) Compliance with the state and federal MCLs is based on RAA or LRAA, as appropriate. Plant core locations for TTHM and HAA5 are service connections specific to each of the treatment plant effluents.
- (I) Compliance with the state and federal bromate MCL is based on RAA. No exceedances occurred in the Diemer, Jensen, Mills, Skinner, and Weymouth plant effluents.
- (m) Metropolitan's TDS compliance data are based on flow-weighted monthly composite samples collected twice per year (April and October). The 12-month statistical summary of flow-weighted data is reported in "Other Parameters".
- (n) All PFAS monitoring results were below the SWRCB established CCRDLs. PFAS results below the laboratory minimum reporting level (MRL) of 2.0 ppt are reported as "ND".
- (o) Data are from voluntary monitoring of constituents and are provided for informational purposes.
- (p) Positive CCPP = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative CCPP = corrosive; tendency to dissolve calcium carbonate. Reference: Standard Methods (SM2330)
- (q) Al >= 12.0 = Non-aggressive water; Al 10.0-11.9 = Moderately aggressive water; Al <= 10.0 = Highly aggressive water. Reference: ANSI/AWWA Standard C400-93 (R98)
- (r) Positive SI = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative SI = corrosive; tendency to dissolve calcium carbonate. Reference: Standard Methods (SM2330)
- Statistical summary represents 12 months of flow-weighted data and values may be different than the TDS reported to meet compliance with secondary drinking water regulations.
 Metropolitan's calculated TDS goal is ≤ 500 mg/L.
- (t) HAA5 and TTHMs noncompliance samples collected at treatment plant effluents

					S	ource Water '				
		Range	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	
Parameter	Units	Average	tuno, Luno							Major Sources in Drinking Water
Percent State Water Project	%	Range Average	100	0 - 82 34	0	0	100	100	100	Not applicable
ORGANIC CHEMICALS										
Synthetic Organic Compounds (a)										
1,2,3-Trichloropropane (1,2,3-TCP)	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial and agrichemical factories; byproduct of producing other compounds and pesticides; leaching from hazardous waste sites
2,4,5-TP (Silvex)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned herbicide
2,4-D	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops, rangeland, lawns, and aquatic weeds
Alachlor	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops
Atrazine	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops and along railroad and highway right-of-ways
Bentazon	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses
Benzo(a)pyrene	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Leaching from water storage tank linings and distribution lines
Carbofuran	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Leaching of soil fumigant used on rice, alfalfa, and grape vineyards
Chlordane	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide
Dalapon	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on right-of-ways, and crops and landscape maintenance
Di(2-ethylhexyl)adipate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical factories
Di(2-ethylhexyl)phthalate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from rubber and chemical factories; inert ingredient in pesticides
Dibromochloropropane (DBCP)	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Banned nematocide that may still be present in soils due to runoff/leaching
Dinoseb	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on soybeans, vegetables, and fruits
Dioxin (2,3,7,8-TCDD)	ppq	Range Average	ND	ND	ND	ND	ND	ND	ND	Waste incineration emissions; chemical factory discharge
Diquat	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used for terrestrial and aquatic weeds
Endothall	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used for terrestrial and aquatic weeds
Endrin	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide and rodenticide

					S	ource Water '				
		Range	Diamond	Lake	Lake	Lake	Castaic	Lake Perris	Silverwood	
Parameter	Units	Average	Valley Lake	Skinner	Havasu	Mathews	Lake		Lake	Major Sources in Drinking Water
Ethylene Dibromide (EDB)	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Petroleum refinery discharges; underground gas tank leaks; banned nematocide that maybe still present in soils due to runoff and leaching
Glyphosate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide use
Heptachlor	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide
Heptachlor Epoxide	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Breakdown product of heptachlor
Hexachlorobenzene	ppb	Range Average	ND	ND	ND	ND	ND	ND	INI)	Discharge from metal refineries and agrichemicals factories; wastewater chlorination reaction byproduct
Hexachlorocyclopentadiene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical factories
Lindane	ppt	Range Average	ND	ND	ND	ND	ND	ND	I INI)	Runoff/leaching from insecticide used on cattle, lumber, and gardens
Methoxychlor	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide uses on fruits, vegetables, alfalfa, and livestock
Molinate (Ordram)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
Oxamyl (Vydate)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide uses
Pentachlorophenol	ppb	Range Average	ND	ND	ND	ND	ND	ND		Discharge from wood preserving factories other insecticidal and herbicidal uses
Picloram	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Herbicide runoff
Polychlorinated Biphenyls (PCBs)	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from landfills; discharge of waste chemicals
Simazine	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Herbicide runoff
Thiobencarb	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
Toxaphene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Compounds										
1,1,1-Trichloroethane	ppb	Range Average	ND	ND	ND	ND	ND	ND	1311.)	Metal degreasing site discharge; manufacture of food wrappings
1,1,2,2-Tetrachloroethane	ppb	Range Average	ND	ND	ND	ND	ND	ND		Discharge from industrial and agrichemical factories; solvent used in production of TCE, pesticides, varnish, and lacquers
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ppm	Range Average	ND	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories; dry cleaning solvent; refrigerant

					s	ource Water				
		Range	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	
Parameter	Units	Average	vano, zano	- Citarino	Havaoa	mamono	Zano		Lano	Major Sources in Drinking Water
1,1,2-Trichloroethane	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,1-Dichloroethane	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Extraction and degreasing solvent; fumigant
1,1-Dichloroethylene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,2,4-Trichlorobenzene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from textile-finishing factories
1,2-Dichlorobenzene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,2-Dichloroethane	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,2-Dichloropropane	ppb	Range Average	ND	ND	ND	ND	ND	ND		Industrial chemical factory discharge; primary component of some fumigants
1,3-Dichloropropene	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from nematocide used on croplands
1,4-Dichlorobenzene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
Benzene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Plastics factory discharge; gas tanks and landfill leaching
Carbon Tetrachloride	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical plants and other industrial wastes
cis-1,2-Dichloroethylene	ppb	Range Average	ND	ND	ND	ND	ND	ND		Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Dichloromethane (Methylene Chloride)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from pharmaceutical and chemical factories
Ethylbenzene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Petroleum refinery discharge; industrial chemical factories
Methyl-tert-butyl ether (MTBE)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Gasoline discharge from watercraft engines
Monochlorobenzene	ppb	Range Average	ND	ND	ND	ND	ND	ND		Discharge from industrial and agrichemical factories, and dry cleaners
Styrene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Rubber and plastics factories discharge; landfill leaching
Tetrachloroethylene (PCE)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from factories, dry cleaners, and auto shops
Toluene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from petroleum and chemical refineries
trans-1,2-Dichloroethylene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation

					S	ource Water				
Parameter	Units	Range Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
Trichloroethylene (TCE)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from metal degreasing sites and other factories
Trichlorofluoromethane (Freon-11)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial factory discharge; degreasing solvent; propellant
Vinyl Chloride	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Leaching from PVC piping; plastic factory discharge; byproduct of TCE and PCE biodegradation
Xylenes	ppm	Range Average	ND	ND	ND	ND	ND	ND	I NII)	Discharge from petroleum and chemical refineries; fuel solvent
INORGANIC CHEMICALS										
Aluminum	ppb	Range Average	ND	ND	ND	72	ND	ND	ND	Residue from water treatment process; natural deposits erosion
Antimony	ppb	Range Average	ND	ND	ND	ND	ND	ND	1311.)	Petroleum refinery discharges; fire retardants; solder; electronics
Arsenic	ppb	Range Average	2.1	2.1	2.3	2.1	ND	ND	ND	Natural deposits erosion, glass and electronics production wastes
Asbestos (b)	MFL	Range Average	ND	ND	ND	ND	ND	ND	ND	Asbestos cement pipes internal corrosion; natural deposits erosion
Barium	ppb	Range Average	ND	ND	106	105	ND	ND	ND	Oil and metal refineries discharge; natural deposits erosion
Beryllium	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from metal refineries, aerospace, and defense industries
Cadmium	ppb	Range Average	ND	ND	ND	ND	ND	ND		Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints; natural deposits
Chromium	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from steel and pulp mills; natural deposits erosion
Copper	ppm	Range Average	ND	ND	ND	ND	ND	ND	ND	Internal corrosion of household pipes; natural deposits erosion; leaching from wood preservatives
Cyanide	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from steel/metal, plastic, and fertilizer factories
Fluoride	ppm	Range	0.1	0.2 - 0.3	0.3	0.3	0.1 - 0.2	0.1		Erosion of natural deposits; discharge from fertilizer and
	•••	Average		0.2			0.2			aluminum factories Internal corrosion of household water plumbing systems;
Lead	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	industrial manufacturers' discharge; erosion of natural deposits
Mercury	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits; factory discharge; landfill runoff
Nickel	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits; discharge from metal factories
Nitrate (as Nitrogen)	ppm	Range Average	ND	ND	ND	ND	ND	ND		Runoff and leaching from fertilizer use; leaching from septic tank and sewage; natural deposits erosion

					So	ource Water	k			
Parameter	Units	Range Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
Nitrite (as Nitrogen)	ppm	Range Average	ND	ND	ND	ND	ND	ND		Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
Perchlorate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial waste discharge
Selenium	ppb	Range Average	ND	ND	ND	ND	ND	ND	INI)	Refineries, mines, and chemical waste discharge; runoff from livestock lots
Thallium	ppb	Range Average	ND	ND	ND	ND	ND	ND		Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
RADIOLOGICALS										
Gross Alpha Particle Activity	pCi/L	Range	ND	ND - 3.0	ND - 3.6	ND - 3.6	ND	ND	ND - 5.0	Erosion of natural deposits
Orocco / lipita i articlo / tellvity	PO#2	Average		ND	ND	ND	.,,,	110	ND	21001011 01 Hattiral doposito
Gross Beta Particle Activity	pCi/L	Range	ND - 4.4	ND - 5.5	4.7 - 6.7	4.8 - 7.7	ND	ND	ND	Decay of natural and man-made deposits
		Average	ND	ND	5.5	6.0				
Radium-226	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits
Radium-228	pCi/L	Range Average	ND	ND - 1.0 ND	ND	ND	ND	ND	ND	Erosion of natural deposits
Combined Radium-226 + 228	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits
Strontium-90	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	ND	Decay of natural and man-made deposits
Tritium	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	ND	Decay of natural and man-made deposits
Uranium	pCi/L	Range Average	ND	1.4 - 2.6 1.9	2.5 - 2.8 2.7	2.8 - 3.4 3.0	ND - 1.4 1.1	1.3 - 1.4 1.4	1.2 - 3.1 2.1	Erosion of natural deposits
AESTHETIC PARAMETERS (c)										
Aluminum	ppb	Range Average	ND	ND	ND	72	ND	ND	NI)	Residue from water treatment process; natural deposits erosion
Chloride	nnm	Range	65 - 69	77 - 88	86	91	47 - 51	74 - 80	56 - 59	Runoff/leaching from natural deposits; seawater influence
Chloride	ppm	Average	67	82	00	91	49	77	58	Runott/leaching from natural deposits; seawater influence
Color	Color Units	Range Average	3 - 5 4	3	3 - 5 4	3	5 - 10 8	5 - 10 8	10	Naturally-occurring organic materials
Copper	ppm	Range Average	ND	ND	ND	ND	ND	ND		Internal corrosion of household pipes; natural deposits erosion; wood preservatives leaching
Foaming Agents - Methylene Blue Active Substances (MBAS)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Municipal and industrial waste discharges
Iron	ppb	Range Average	ND	ND	ND	106	ND	ND	ND	Leaching from natural deposits; industrial wastes
Manganese	ppb	Range Average	ND	ND	ND	ND	ND	ND	27	Leaching from natural deposits

					S					
Parameter	Units	Range Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
МТВЕ	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Gasoline discharge from watercraft engines
Odor Threshold	TON	Range Average	2	7	7	10	3	9	5	Naturally-occurring organic materials
Silver	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial discharges
Specific Conductance	μS/cm	Range Average	463 - 477 470	728 - 907 818	928 - 944 936	923 - 945 934	417 - 429 423	478 - 528 503	401 - 422 412	Substances that form ions in water; seawater influence
Sulfate	ppm	Range Average	44 - 47 46	142 - 199 170	206 - 212 209	214 - 215 214	49 - 51 50	40 - 42 41	34 - 38 36	Runoff/leaching from natural deposits; industrial wastes
Thiobencarb	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from rice herbicide
Total Dissolved Solids (TDS)	ppm	Range Average	257 - 258 258	446 - 571 508	596 - 601 598	593 - 604 598	242 - 244 243	265 - 290 278	236 - 242 239	Runoff/leaching from natural deposits
Turbidity	NTU	Range Average	0.4 - 1.0 0.7	0.6 - 0.7 0.7	0.4 - 0.6 0.5	0.7 - 2.2 1.4	0.6 - 0.7 0.6	0.5 - 1.0 0.8	0.5 - 1.1 0.8	Soil runoff
Zinc	ppm	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits; industrial wastes
OTHER PARAMETERS	<u>'</u>									
Microbiological										
Total Coliform Bacteria	MPN/100 mL	Range Median	6 - 4,100 49	40 - 20,000 440	23 - 140,000 690	20 - 3,700 440	NC	66 - 20,000 360	8 - 3,700 190	Naturally present in the environment
Escherichia coli (E. coli)	MPN/100 mL	Range Median	ND - 5 ND	ND - 7	ND - 6 ND	ND - 160 5	NC	ND - 83	ND - 10	Human and animal fecal waste
General Minerals										
Alkalinity (as CaCO ₃)	ppm	Range Average	74 - 79 76	110 - 129 120	132 - 134 133	122	75 - 76 76	83 - 90 86	79 - 80 80	Runoff/leaching of natural deposits; carbonate, bicarbonate, hydroxide, and occasionally borate, silicate, and phosphate
Calcium	ppm	Range	21 - 22	49 - 68	70 - 73 72	64	25 - 27 26	23 - 25	21	Runoff/leaching from natural deposits
Hardness (as CaCO ₃)	ppm	Average Range	94 - 99	196 - 252	264 - 277	254 - 255	109 - 111	100 - 102	80 - 91	Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the
Magnesium	ppm	Average Range	96 11 - 12	224 19 - 25	270 25 - 26	254 25	110	101	86 8.8 - 10	water Runoff/leaching from natural deposits
Potassium	ppm	Range	3.0 - 3.4	3.8 - 4.6	26 4.5 - 4.6	4.5	2.4 - 2.6	3.2 - 3.4	9.4	Salt present in the water; naturally-occurring
Sodium	ppm	Average Average	3.2 49 - 54	4.2 70 - 88 79	4.6 87 - 90 88	89	2.5	3.3 55 - 59 57	2.4 46 - 47 46	Salt present in the water; naturally-occurring
Unregulated Contaminants		Average	52	79	88			5/	40	
Boron	ppb	Range Average	150	130	130	120	170	160	150	Runoff/leaching from natural deposits; industrial wastes

					s	ource Water				
		Range	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	
Parameter	Units	Average	Valley Lake	Skillilei	пачаъи	Maniews	Lake		Lake	Major Sources in Drinking Water
Chromium VI	ppb	Range Average	ND	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; discharge from industrial waste factories
Dichlorodifluoromethane (Freon-12)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial waste discharge
Ethyl-tert-butyl ether (ETBE)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Used as gasoline additive
tert-Amyl-methyl ether (TAME)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Used as gasoline additive
Vanadium	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Naturally-occurring; industrial waste discharge
Perfluoroalkyl and Polyfluoroalkyl Substances (F	PFAS) (d)	J								
Perfluorooctanoic acid (PFOA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluorooctanesulfonic acid (PFOS)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	Industrial chemical factory discharges; runoff/leaching from
Perfluorononanoic acid (PFNA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	landfills; used in fire-retarding foams and various industrial processes
Perfluorohexanesulfonic acid (PFHxS)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluoroheptanoic acid (PFHpA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluorobutanesulfonic acid (PFBS)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluorodecanoic acid (PFDA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluorododecanoic acid (PFDoA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluorohexanoic acid (PFHxA)	ppt	Range Average	2.5	ND	NC	ND	2.4	3.7	2.4	
Perfluorotetradecanoic acid (PFTeDA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluorotridecanoic acid (PFTrDA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Perfluoroundecanoic acid (PFUnA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
4,8-dioxa-3H-perfluorononanoate (ADONA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
F-53B Major (11CI-PF3OUdS)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
F-53B Minor (9CI-PF3ONS)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	

Source Water 3/30/2021

2020 Water Quality Report to Member Agencies—The Metropolitan Water District of Southern California Source Waters

					S	ource Water				
Parameter	Units	Range Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
GenX (HFPO-DA)	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
N-ethyl Perfluorooctanesulfonamidoacetic acid	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
N-methyl Perfluorooctanesulfonamidoacetic acid	ppt	Range Average	ND	ND	NC	ND	ND	ND	ND	
Miscellaneous								•		
Ethyl-tert-butyl ether (ETBE)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Used as gasoline additive
nH	pH Units	Range	8.4 - 9.3	8.1 - 8.2	8.1 - 8.2	8.2	7.4 - 7.8	8.3 - 8.4	8.0 - 8.2	Not applicable
pri	prionits	Average	8.8	8.2	8.1	0.2	7.6	8.4	8.1	Tvot applicable
Radon	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	I (NI)	Gas produced by the decay of naturally-occurring uranium in soil and water
tert-Amyl-methyl ether (TAME)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Used as gasoline additive
Total Organic Carbon (TOC)	ppm	Range Average	2.9 - 3.2 3.1	3.0 - 3.2 3.1	2.9 - 3.4 3.2	3.2 - 3.3 3.2	2.5 - 2.8 2.7	3.9 - 4.2 4.1	3.4	Various natural and man-made sources; TOC is a precursor for the formation of disinfection byproducts

DEFINITION OF TERMS AND FOOTNOTES

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Definition of Terms

Average	Arithmetic mean	PHG	Public Health Goal
CaCO ₃	Calcium Carbonate	ppb	Parts per billion or micrograms per liter (μg/L)
CCRDL	Consumer Confidence Report Detection Level	ppm	Parts per million or milligrams per liter (mg/L)
DLR	Detection Limits for Purposes of Reporting	ppq	Parts per quadrillion or picograms per liter (pg/L)
MCL	Maximum Contaminant Level	ppt	Parts per trillion or nanograms per liter (ng/L)
MFL	Million Fibers per Liter	Range	Results based on minimum and maximum values; range and average
MPN	Most Probable Number		values are the same if a single value is reported for samples collected
NC	Not Collected		once or twice annually
ND	Not Detected at or above DLR or RL	SWRCB	State Water Resources Control Board
NTU	Nephelometric Turbidity Units	TON	Threshold Odor Number
pCi/L	PicoCuries per Liter	μS/cm	MicroSiemen per centimeter
PFAS	Per- and polyfluoralkyl substances		

Footnotes

- (a) Synthetic organic compounds (SOC) data are from samples collected in 2018. Metropolitan's next required triennial monitoring is in 2021.
- (b) Data collected in 2020 and reported once every nine-year compliance cycle, until the next samples are collected in 2029.
- (c) Aesthetic parameters are monitored in source and treated waters, as appropriate, to comply with Secondary Drinking Water Standards criteria.
- (d) All PFAS monitoring results were below the SWRCB established CCRDLs. PFAS results below the laboratory minimum reporting level (MRL) of 2.0 ppt are reported as "ND".

2020 Water Quality Report to Member Agencies—The Metropolitan Water District of Southern California Treatment Plant Influents

				Treat	ment Plant Infl	uent *		
		Range	Diemer	Jensen	Mills	Skinner	Weymouth	Major Sources in Drinking Water
Parameter	Units	Average	Plant	Plant	Plant	Plant	Plant	
Percent State Water Project	%	Range	0 - 94	100	100	0 - 84	0 - 90	Not applicable
•		Average	9	.00	.00	32	10	. Tot approach
COMPLIANCE MONITORING PARAM Microbiological	IETERS							
	T	Range	ND - 16,000	9 - 3,700	7 - 300	49 - 9,800	ND - 3,900	I.,
Total Coliform Bacteria	MPN/100 mL	Median	37	140	75	780	76	Naturally present in the environment
Escherichia coli (E. coli)	MPN/100 mL	Range	ND - 15	ND - 1	ND - 17	ND - 7	ND - 38	Human and animal fecal waste
, ,		Median	ND	ND	1	3	ND	The state of the s
Chemical	T	Dongo	04 424	74 07	70 04	02 422	06 420	
Alkalinity (as CaCO ₃)	ppm	Range Highest RAA	84 - 131 120	71 - 87 78	70 - 84 81	83 - 132 112	96 - 130 121	Runoff/leaching of natural deposits; carbonate, bicarbonate, hydroxide, and occasionally borate, silicate, and phosphate
		Range	0.1 - 0.4	0.1 - 0.2	01	0.1 - 0.3	0.2 - 0.4	Erosion of natural deposits; discharge from fertilizer and aluminum
Fluoride	ppm	Average	0.1	0.1 0.2	0.1	0.1 - 0.3	0.3	factories
		Range	2.7 - 3.4	2.5 - 2.9	2.9 - 3.6	2.8 - 3.4	2.8 - 3.4	
Total Organic Carbon (TOC)	ppm	Highest RAA	3.1	2.9	3.3	3.1	3.1	Various natural and man-made sources
OTHER PARAMETERS								
Aluminum	ppb	Range Average	66	ND	ND	ND	82	Residue from water treatment process; natural deposits erosion
Antimony	ppb	Range Average	ND	ND	ND	ND	ND	Petroleum refinery discharges; fire retardants; solder; electronics
Arsenic	ppb	Range Average	2.1	ND	ND	2.1	2.0	Natural deposits erosion, glass and electronics production wastes
Barium	ppb	Range Average	109	ND	ND	ND	108	Oil and metal refineries discharges; natural deposits erosion
Beryllium	ppb	Range Average	ND	ND	ND	ND	ND	Discharge from metal refineries, aerospace, and defense industries
Boron	ppb	Range Average	120	170	150	130	120	Runoff/leaching from natural deposits; Industrial wastes
Cadmium	ppb	Range Average	ND	ND	ND	ND	ND	Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints; natural deposits erosion
Chromium	ppb	Range Average	ND	ND	ND	ND	ND	Discharge from steel and pulp mills; natural deposits erosion
Chromium VI	ppb	Range Average	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits; Industrial wastes
Copper	ppm	Range Average	ND	ND	ND	ND	ND	Internal corrosion of household pipes; natural deposits erosion; leaching from wood preservatives
Cryptosporidium	oocysts/10 L	Range Average	ND	ND	ND	ND	ND	Human and animal fecal waste
Giardia	cysts/10 L	Range Average	ND	ND	ND	ND	ND	Human and animal fecal waste
Hardness (as CaCO ₃)	ppm	Range Average	100 - 284 258	106 - 124 111	72 - 108 93	118 - 290 214	106 - 292 261	Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water
Iron	ppb	Range Average	ND	ND	ND	ND	ND	Leaching from natural deposits; industrial wastes
Lead	ppb	Range Average	ND	ND	ND	ND	ND	Internal corrosion of household water plumbing systems; industrial manufacturers' discharge; erosion of natural deposits

2020 Water Quality Report to Member Agencies—The Metropolitan Water District of Southern California **Treatment Plant Influents**

				reatment				
				Treat	ment Plant Infl	uent *		
		Range	Diemer	Jensen	Mills	Skinner	Weymouth	Major Sources in Drinking Water
Parameter	Units	Average	Plant	Plant	Plant	Plant	Plant	
Manganese	ppb	Range Average	ND	ND	ND	ND	ND	Leaching from natural deposits
Mercury	ppb	Range Average	ND	ND	ND	ND	ND	Erosion of natural deposits; factory discharge; landfill runoff
Nickel	ppb	Range Average	ND	ND	ND	ND	ND	Erosion of natural deposits; discharge from metal factories
Perchlorate	ppb	Range Average	ND	ND	ND	ND	ND	Industrial waste discharge
рН	pH Units	Range Average	7.9 - 8.6 8.2	7.3 - 8.0 7.7	7.5 - 8.5 8.0	7.7 - 8.8 8.2	7.9 - 8.5 8.2	Not applicable
Selenium	ppb	Range Average	ND	ND	ND	ND	ND	Refineries, mines, and chemical waste discharge; runoff from livestoc lots
Specific Conductance	μS/cm	Range Average	119 - 961 891	401 - 470 430	331 - 517 435	734 - 962 761	663 - 947 911	Substances that form ions in water; seawater influence
Silver	ppb	Range Average	ND	ND	ND	ND	ND	Industrial discharges
Thallium	ppb	Range Average	ND	ND	ND	ND	ND	Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
Turbidity	NTU	Range Average	0.6 - 4.0 1.3	0.4 - 2.3 0.7	0.3 - 3.0 0.6	0.5 - 2.3 0.9	0.3 - 3.8 1.0	Soil runoff
Vanadium	ppb	Range Average	ND	ND	ND	ND		Naturally-occurring; industrial waste discharge
Zinc	ppm	Range Average	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits; industrial wastes
DEFINITION OF TERMS AND FOOTNOTI	ES							

^{*} 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 per frequency stipulated in Metropolitan's state-approved monitoring plan. MCLs, PHGs, and state DLRs are included in the Treatment Plant Effluent Report. Data above Metropolitan's laboratory reporting limit but below the state DLR are reported as ND in this report. These data are available upon request.

Definition of Terms

Average	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)
DLR	Detection Limits for Purposes of Reporting	RAA	Running Annual Average; highest RAA is the highest of all
MCL	Maximum Contaminant Level		Running Annual Averages calculated as an average
MPN	Most Probable Number		of the all samples collected within a 12-month period
ND	Not Detected at or above DLR or RL	Range	Results based on minimum and maximum values; range and average
NTU	Nephelometric Turbidity Units		values are the same if a single value is reported for samples collected
PHG	Public Health Goal		once or twice annually
μS/cm	MicroSiemen per centimeter		