				Data	Date: January 1, 202	0 to December 31	2020
			1 1	Data	Date. January 1, 202	Treatment Plant	
						Effluent	
		C4=4= ==				Enluent	4
		State or	BUG			O suite best	
		Federal	PHG	.	_	Carlsbad	Major Sources in Drinking Water
_		MCL	(MCLG)	State	Range	Desalination	
Parameter	Units	[MRDL]	[MRDLG]	DLR	Average	Plant	
PRIMARY STANDARDS—Ma	Indatory F	lealth-Rela	ted Standa	rds			
CLARITY							
Combined Filter		TT = 0.1 (a)			Highest	0.08	
Effluent Turbidity	%	TT (a)	NA	NA	% ≤ 0.1	100%	Soil runoff
MICROBIOLOGICAL							
Total Coliform					Range	ND	
Bacteria (b)	%	5.0	(0)	NA	Average	ND	Naturally present in the environment
		0.0	(-7		Range	ND	
E. coli	(c)	(c)	(0)	NA	Average	ND	Human and animal fecal waste
Heterotrophic Plate Count	(9)	(9)	(3)	1 1/ 1	Range	NA	
(HPC) (d)	CFU/ml	TT	NA	NA	Average	NA	Naturally present in the environment
	oocysts/		11/7	11/7	Range	NA	
Cruptopporidium		TT	(0)	NIA			
Cryptosporidium	200 L	TT	(0)	NA	Average	NA	Human and animal fecal waste
	cysts/				Range	NA	
Giardia	200 L	TT	(0)	NA	Average	NA	Human and animal fecal waste
ORGANIC CHEMICALS							
Pesticides/PCBs							
					Range	ND	
Alachlor	ppb	2	4	1	Average	ND	Runoff from herbicide used on row crops
					Range	ND	Runoff from herbicide used on row crops
Atrazine	ppb	1	0.15	0.5	Average	ND	and along highways
					Range	ND	Runoff/leaching from herbicide used on rice,
Bentazon	ppb	18	200	2	Average	ND	alfalfa, and grapes
Donnazon	PPP			_	Range	ND	Leaching of soil fumigant used on rice, alfalfa,
Carbofuran	ppb	18	1.7	5	Average	ND	and grapes
Carbolaran	ppb	10	1.7	U	Range	ND	
Chlordane	ppt	100	30	100	Average	ND	Residue of banned insecticide
Chiordane	ρρι	100	30	100	Range	ND	Runoff from herbicide used on row crops.
2,4-D	nnh	70	20	10		ND	rangeland, lawns, and aquatic weeds
2,4-D	ppb	70	20	10	Average		
Delever		000	700	40	Range	ND	Runoff from herbicide used on rights-of-way,
Dalapon	ppb	200	790	10	Average	ND	crops, and landscapes
Dibromochloropropane					Range	ND	Banned nematocide that may still be present
(DBCP)	ppt	200	1.7	10	Average	ND	in soils
					Range	ND	Runoff from herbicide used on soybeans,
Dinoseb	ppb	7	14	2	Average	ND	vegetables, and fruits
					Range	ND	Runoff from herbicide used for terrestrial
Diquat	ppb	20	15	4	Average	ND	and aquatic weeds
					Range	ND	Runoff from herbicide used for terrestrial
Endothall	ppb	100	94	45	Average	ND	and aquatic weeds
					Range	ND	
Endrin	ppb	2	1.8	0.1	Average	ND	Residue of banned insecticide and rodenticide
Endrin					Range	ND	Petroleum refinery discharges, underground
(EDB)	ppt	50	10	20	Average	ND	gas tank leaks
					Range	ND	
Glyphosate	ppb	700	900	25	Average	ND	Runoff from herbicide use
	444	100	000	20	Range	ND	
Heptachlor	ppt	10	8	10	Average	ND	Residue of banned insecticide
	ρμι	10	0	IU		ND	
Hontophlar Encyida	nnt	10	6	10	Range		
Heptachlor Epoxide	ppt	10	Ö	10	Average	ND	Breakdown product of heptachlor
1 to do a		000		000	Range	ND	Runoff/leaching from insecticide used on cattle,
Lindane	ppt	200	32	200	Average	ND	lumber, and gardens
					Range	ND	

And Base (Ortham) And Solution And Solu	Methoxychlor	ppb	30	0.09	10	Average	ND	Runoff/leaching from insecticide uses
Matimate (Orderam) pp 2 1 2 Normage Normage Representation from interaction used on nee Coarma (Velate) ppb 5 2 2 2 Normage		FF=						
Orann (Visitabi) Pentachiorsphenolppb502020Average AverageNDElectrange for wood preserving factories Discharge for wood preserving factoriesPentachiorsphenolppb00.2AverageNDObscharge for wood preserving factoriesPolyationaredppb5000.2AverageNDPeloidar unoffPolyationaredppb50001AverageNDPolyationaredppb500701AverageNDPolyationaredppb70701AverageNDPolyationaredppb70701AverageNDSincariappb70701AverageNDSincariappb6031AverageNDSincariappb6031AverageNDSincariappb70701AverageNDSincariappb70701AverageNDSincariappb70701AverageNDSincariappb70701AverageNDSincariappb7070100AverageNDSincariappb7070100AverageNDSincariappb7070100AverageNDSincariappb7070100AverageNDSincariappb7070100	Molinate (Ordram)	ppb	20	1	2		ND	Runoff/leaching from herbicide used on rice
Orace/interplemodeppb502020AverageNDRepresentation of mean section of an experimentation of mean section of m						Range	ND	
Pentacinophenol ppb 1 0.3 0.2 Average ND oher machical and herbicidal uses. Pataan ppb 500 500 500 1 Average ND Herbicide numf Singlanionande ppb 500 500 500 500 Average ND Herbicide numf Singlanionande ppb 4 4 1 Average ND Rundf from landfills: discharge of waste chemicals Singlanionande ppb 4 9 1 0 Rundf ND Rundf lack numf Singlanionande ppb 5 0 1 Average ND Rundf lack numf Singlanionande ppb 5 0 3 1 Average ND Rundf lack numf	Oxamyl (Vydate)	ppb	50	26	20		ND	Runoff/leaching from insecticide uses
Performance / Polythomated Polythomated <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Range</td><td>ND</td><td>Discharge from wood preserving factories</td></th<>						Range	ND	Discharge from wood preserving factories
Pickam pb 500 500 1 Average NO Herbicide runoff Biphenylcher pt 500 500 500 Average NO Herbicide runoff Biphenylcher pt 500 70 1 Average NO Herbicide runoff Biphenylcher pt 70 1 Average NO Herbicide runoff Tobencarb pb 50 70 1 Average NO Rande Paidaue of barned herbicide Site/Site/Site/Site/Site/Site/Site/Site/	Pentachlorophenol	ppb	1	0.3	0.2			other insecticidal and herbicidal uses
Polycholinated Bilendrysi (PCBs) Pol Sol For Sol Sol						Range		
Biphenyis (PCBs) ppt 50 90 500 Average ND Aver	Picloram	ppb	500	500	1	Average	ND	Herbicide runoff
Imagine ppb 4 4 1 Average Range ND ND Herbicide runoff Tiobancalb ppb 70 70 1 Average ND Runoff leaching from rice herbicide System ppb 70 1 Average ND Runoff leaching from ince herbicide System ppb 3 0.3 1 Average ND Runoff leaching from ince herbicide Togenere ppb 3 0.3 1 Average ND Runoff leaching from incescide used on Togenere ppb 3 0.3 1 Average ND Runoff leaching from incescide used on Semi-Volatio Organic Compounds	Polychlorinated					Range		
Simaine ppb 4 4 1 Average ND Herbicker unoff hisbancarb ppb 70 70 1 Average ND Runoff leaching from rice herbicide hisbancarb ppb 50 3 1 Average ND Runoff leaching from rice herbicide Tosobne ppb 3 0.33 1 Average ND Runoff leaching from rise clicide used on costs Semi-Volatile Organic Compounts T 0.03 1 Average NA Runoff leaching from rise clicide used on costs Semi-Volatile Organic Compounts Ppb 100 NA Average NA Leaching from value storage lank linings Benzo(a)gyrene ppb 4 0 7 Range ND Leaching from value storage lank linings Di(2-ethylhexyladipate ppb 4 12 3 Average ND Leaching from value storage lank linings Di(2-ethylhexyladipate ppb 4 12 3 Average ND Leaching from mellar factories <td>Biphenyls (PCBs)</td> <td>ppt</td> <td>500</td> <td>90</td> <td>500</td> <td>Average</td> <td></td> <td>Runoff from landfills; discharge of waste chemicals</td>	Biphenyls (PCBs)	ppt	500	90	500	Average		Runoff from landfills; discharge of waste chemicals
Simaine ppb 4 4 1 Average ND Herbicker unoff hisbancarb ppb 70 70 1 Average ND Runoff leaching from rice herbicide hisbancarb ppb 50 3 1 Average ND Runoff leaching from rice herbicide Tosobne ppb 3 0.33 1 Average ND Runoff leaching from rise clicide used on costs Semi-Volatile Organic Compounts T 0.03 1 Average NA Runoff leaching from rise clicide used on costs Semi-Volatile Organic Compounts Ppb 100 NA Average NA Leaching from value storage lank linings Benzo(a)gyrene ppb 4 0 7 Range ND Leaching from value storage lank linings Di(2-ethylhexyladipate ppb 4 12 3 Average ND Leaching from value storage lank linings Di(2-ethylhexyladipate ppb 4 12 3 Average ND Leaching from mellar factories <td></td> <td></td> <td></td> <td></td> <td></td> <td>Range</td> <td></td> <td></td>						Range		
Thickenarb pp 70 70 70 1 Average ND Runoff leaching from ice herbicide (Silvex) pp 50 3 1 Average ND Residue of banned herbicide (Silvex) pp 3 0.03 1 Average ND Residue of banned herbicide (Silvex) pp 0.03 1 Average ND Rounoffleaching from inscretorization Banz/Galipyrene pp 200 7 100 Average ND Leaching from vater storage task kinnings Banzolds/pyrene pp 400 200 5 Average ND Leaching from vater storage task kinnings Banzolds/pyrene pp 4 12 3 Average ND Chemical factorization in growthings Di/2-ethylhexvl/adipate ppb 4 12 3 Average ND Floatharge from chemical factorization in growthings Di/2-ethylexvl/adipate ppb 1 0.03 0.5 Average ND floatharge from chemi	Simazine	ppb	4	4	1	Average		Herbicide runoff
2.4,5 TP mage ND Range ND Residue of banned herbicide Toxaphene ppb 3 0.03 1 Average ND Reunoffleeching from insecticide used on Semi-Velatile Organic Compounds Range ND Reunoffleeching from insecticide used on Acrylamide NA TT (0) NA Average NA Acrylamide NA TT (0) NA Average NA Di2-ethylhexylapipate ppb 400 7 100 Average ND Leaching from water storage lank linings Di2-ethylhexylapipate ppb 4 12 3 Range ND Discharge from chemical factories Di2-ethylhexylapipate ppb 4 12 3 Range ND Discharge from chemical factories Di2-ethylhexylapipate ppb 1 0.03 0.5 Average NA Water treatment chemical imputities Di2-ethylhexylapipate ppb 50 2 1 Range						Range		
(Silvex) pp 50 3 1 Average ND Residue of banned herbicide Toxaphene pp 0.03 1 Average ND Residue of banned herbicide used on cotton and tile Semi-Volatile Organic Compounds		ppb	70	70	1			Runoff leaching from rice herbicide
Image in a stand in the stand in t								
Toxaphene ppb 3 0.3 1 Average ND contand cattle Semi-Volatil Organic Compounds	(Silvex)	ppb	50	3	1	Average		
Semi-Volatile Organic Compounds Range NA NA Acrylamide NA TT (0) NA Average NA Benzo(a)pyrene pt 200 7 100 Average ND Benzo(a)pyrene pt 200 7 100 Average ND Di(2-ethyhex/jadipate pb 400 200 5 Average ND Di(2-ethyhex/jadipate pb 4 12 3 Average ND Di(2-ethyhex/jabinate pb 4 12 3 Average ND Di/2-ethyhex/jabinate pb 4 12 3 Average NA Vaet reatment chemical induction insection in product ND Discharge from netal refineres & agrichemicals Exicitorocyclopentatione pb 1 0.03 0.5 Average ND Discharge from hemical refores 2.3,7.8,170D Diowing pp 3.0 5 Average ND and iandfil leaching Carbon Tetr						Range		
AcylamideNATT(0)NARangeNAWater treatment chemical impuritiesBenzo(a)pyrenept2007100AverageNDLeaching from water storage tank liningsBenzo(a)pyreneppb4002005AverageNDand distribution linesDi(2-ethylhexyljadpateppb4002005AverageNDDischarge from chemical factoriesDi(2-ethylhexyljadpateppb4123AverageNDChemical factory discharge; inert ingredientDi(2-ethylhexyljadpateppb4123AverageNDIn pesticalesEpichlorohydrinNATT(0)NAAverageNDIn pesticalesHexachlorocyclopentadienppb5021AverageNDDischarge from chemical factories4000000000000000000000000000000000000			3	0.03	1	Average	ND	cotton and cattle
AcryanideNATT(0)NAAverageNAWater treatment chemical inpuritiesBenza(a)pyrenept2007100AverageNDLeaching from water storage tank liningsBenza(a)pyrenepb4002005AverageNDIcaching from water storage tank liningsDi(2-ethylhexi/adipatepb4005AverageNDDicharge from chemical factoriesDi(2-ethylhexi/phthatatepb4123AverageNDDicharge from chemical factoriesDi(2-ethylhexi/phthatatepb4123AverageNDDicharge from metal refineries & agrichemicalsBeindrobyninNATT(0)NAAverageNDDicharge from metal refineries & agrichemicalsHexachlorochyninpb10.030.5AverageNDDicharge from metal refineries & agrichemicalsHexachlorochyninpb521AverageNDDicharge from chemical factories2.37.87DDpb55AverageNDDicharge from chemical factoriesColoninpp10.55AverageNDDicharge from chemical factoriesCathor Chargepp10.55AverageNDDicharge from chemical factories2.37.87DDpp10.55AverageNDDicharge from chemical plants and other industrialCohinopp10.5AverageNDDicharge from industrial	Semi-Volatile Organic Compo	ounds						
Party Poil Poil <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Benzelapyreneppt20077100AverageNDand distribution linesDI2-ethylhexylyadipateppt4002005AverageNDDischarge from chemical factory discharge; inert ingredientDI2-ethylhexylyabhalateppt4123AverageNDChemical factory discharge; inert ingredientDI2-ethylhexylyabhalateppt4123AverageNDIn pesticidesEpichlorobydrinNATT00NAAverageNAHarter eatment chemical inguritiesHoxachlorobycopentadieneppt10.030.5AverageNDDischarge from metal refinence & agrichemicalsHexachlorocycopentadieneppt5021AverageNDDischarge from chemical factories(Dishingppt0.055AverageNDMaterial inductionsAverageNDHexachlorocycopentadieneppt0.055AverageNDMaterial factoriesAverageND(Dishingppt10.150.5AverageNDand indifile achingAverageND(Dishingppt501000.5AverageNDand indifile achingAverageND(Dishingppt50100500AverageNDand indifile achingAverageND(Dishingppt50100500AverageNDand indifile achingAverage(Dishingppt5 <td>Acrylamide</td> <td>NA</td> <td>TT</td> <td>(0)</td> <td>NA</td> <td></td> <td></td> <td></td>	Acrylamide	NA	TT	(0)	NA			
Durb Ppb Ppb <td></td> <td></td> <td></td> <td></td> <td></td> <td>Range</td> <td>ND</td> <td>Leaching from water storage tank linings</td>						Range	ND	Leaching from water storage tank linings
DI(2-ethylhexyladipate ppb 400 200 5 Average ND Chenical factory discharge; inert ingredient DI(2-ethylhexylphthalate ppb 4 12 3 Average ND Chenical factory discharge; inert ingredient DI(2-ethylhexylphthalate ppb 4 12 3 Average ND Chenical factory discharge; inert ingredient Epichiorbydrin NA TT (0) NA Average NA Water treatment chemical ingurities Hexachlorocyclopentalene ppb 1 0.03 0.5 Average ND Discharge from chemical factories 23,7.8-TCD1 range ND Average ND Discharge from chemical factories 23,7.8-TCD1 range ND Average ND discharge; gas tanks Bonzene ppb 1 0.15 0.5 Average ND aldrift leactories Carbon Tetrachoride ppb 1 0.15 0.5 Average ND aldrift leactories 1,1-Dichlorobenzene <td>Benzo(a)pyrene</td> <td>ppt</td> <td>200</td> <td>7</td> <td>100</td> <td>Average</td> <td></td> <td>and distribution lines</td>	Benzo(a)pyrene	ppt	200	7	100	Average		and distribution lines
Digestry/thexylphthalate ppb 4 12 3 Average ND Chemical factory discharge; inert ingredient Digestry/thexylphthalate ppb 4 12 3 Average ND nesticides Epichlorohydrin NA TT (0) NA Average NA Water treatment chemical impurities Epichlorohydrin NA TO 0.03 0.5 Average ND Discharge from metal refinertes & agrichemicals Hexachlorobyclopentadiene ppb 50 2 1 Average ND Valatile Organic Compounds 50 2 1 Average ND Vaste incineration emissions; chemical factory Valatile Organic Compounds 1 0.15 0.5 Average ND adia landfill leaching Benzene ppb 1 0.15 0.5 Average ND adia landfill leaching Carbon Tetrachloride ppt 500 100 500 Average ND and landfill leaching 1.2-Dichlorobenzene						Range		
DIQ-2-ethylnexylphthalateppb4123AverageNDIn pesticidesEpichlorohydrinNATT(0)NAAverageNAWater treatment chemical inpuritiesEpichlorohydrinNATT(0)NAAverageNAWater treatment chemical inpuritiesHexachlorobenzeneppb10.030.5AverageNDDischarge from metal refineries & agrichemicalsHexachlorocyclopentadieneppb5021AverageNDDischarge from metal refineries & agrichemical factories2.37,87CDDRangeNDDischarge from chemical factories2.37,87CDDRangeNDDischarge from chemical factories(Jostin)ppg300.055AverageNDDischarge from chemical factoriesVolatile Organic CompoundsRangeNDPlastics factory discharge; gas tanksBenzeneppb10.150.5AverageNDand landfill leachingCarbon Tetrachloridept500100500AverageNDbischarge from chemical plants and other industrial1.2-Dichlorobenzeneppb60.5AverageNDDischarge from industrial chemical factories1.2-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1.2-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical f	Di(2-ethylhexyl)adipate	ppb	400	200	5	Average	ND	Discharge from chemical factories
Carbon NA TT (r) NA Average NA Hexachlorobenzene ppb 1 0.03 0.5 Average ND Discharge from metal refineries & agrichemicals Hexachlorobenzene ppb 1 0.03 0.5 Average ND Discharge from metal refineries & agrichemicals Hexachlorocyclopentadiene ppb 50 2 1 Average ND Discharge from chemical factories 2.3.7.8.7CDD ppd 0 0.05 5 Average ND Water indirection emissions; chemical factories Volatile Organic Compounds ppb 1 0.15 0.5 Average ND Plastics factory discharge; gas tanks Benzene ppb 1 0.15 0.5 Average ND Discharge from chemical factories 1.2-Dichlorobenzene ppb 500 100 S00 Average ND Discharge from industrial chemical factories 1.4-Dichlorobenzene ppb 5 6 0.5 Average ND Disch						Range	ND	Chemical factory discharge; inert ingredient
EpichlorohydrinNATT(0)NAAverageNAWater treatment chemical impuritiesHexachlorobenzeneppb10.030.5AverageNDDischarge from metal refineries & agrichemicalsHexachlorobyclopentadieneppb5021AverageNDDischarge from chemical factories2,3,7,8-TCDDppq300.5AverageNDUscharge from chemical factories(Doxin)ppq300.5AverageNDWaste incineration emissions; chemical factory(Doxin)ppq300.5AverageNDWaste incineration emissions; chemical factory(Doxin)ppq300.5AverageNDWaste incineration emissions; chemical factory(Doxin)ppq300.5AverageNDdischarge(Doxin)ppq500.5AverageNDadlandfill leachingBenzenepb10.150.5AverageNDadlandfill leachingCarbon Tetrachloridept5000.0AverageNDDischarge from industrial chemical factories1,2-Dichlorobenzenepb560.5AverageNDDischarge from industrial chemical factories1,2-Dichloroethylenepp500400500AverageNDDischarge from industrial chemical factories1,2-Dichloroethylenepb6100.5AverageNDDischarge from industrial chemical factories1,2-Dichloroethy	Di(2-ethylhexyl)phthalate	ppb	4	12	3	Average	ND	in pesticides
Hexachlorobenzeneppb10.030.5RangeNDDischarge from metal refineries & agrichemicalsHexachlorocyclopentalieneppb5021AverageNDfactories; wastewater chlorination reaction byproductHexachlorocyclopentalieneppb5021AverageNDDischarge from chemical factories2,3,7,8-TCDDRangeNDWaste incineration emissions; chemical factory(bioxin)pq300.055AverageNDWaste incineration emissions; chemical factory(bioxin)pq300.055AverageNDPlastics factory discharge; gas tanksBenzeneppb10.150.5AverageNDplastics factory discharge; gas tanksCarbon Tetrachlorideppt500100500AverageNDDischarge from chemical plants and other industrial1,2-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1,1-Dichlorobenzeneppb530.5AverageNDDischarge from industrial chemical factories1,1-Dichlorobethaneppb530.5AverageNDDischarge from industrial chemical factories1,1-Dichlorobethyleneppb6100.5AverageNDDischarge from industrial chemical factories1,2-Dichloroethyleneppb6100.5AverageNDDischarge from industrial chemical factories1,						Range	NA	
Hexachlorobenzeneppb10.030.5AverageNDfactories; wastewater chlorination reaction byproductHexachlorocyclopentalieneppb5021AverageNDDischarge from chemical factories2,3,.8-TCDDppq300.055AverageNDWaste incineration emissions; chemical factory(Dioxin)ppq300.055AverageNDdischargeVolatile Organic Compounds0.150.5AverageNDPlastics factory discharge; gas tanksBenzeneppb10.150.5AverageNDDischarge from chemical plants and other industrialCarbon Tetrachlorideppt500100500AverageNDwaste1.2-Dichlorobenzeneppb6000.5AverageNDDischarge from industrial chemical factories1.4-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1.1-Dichlorobenzeneppb530.5AverageNDDischarge from industrial chemical factories1.1-Dichlorobenzeneppb6100.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethaneppb6100.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethyleneppb6100.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethylene <td>Epichlorohydrin</td> <td>NA</td> <td>TT</td> <td>(0)</td> <td>NA</td> <td>Average</td> <td>NA</td> <td>Water treatment chemical impurities</td>	Epichlorohydrin	NA	TT	(0)	NA	Average	NA	Water treatment chemical impurities
Hexachlorobenzeneppb10.030.5AverageNDfactories; wastewater chlorination reaction byproductHexachlorocyclopentadieneppb5021AverageNDDischarge from chemical factories2.3.7,6TCDDppq300.055AverageNDWaste inclineration emissions; chemical factory(Dioxin)ppq300.055AverageNDWaste inclineration emissions; chemical factory(Dioxin)ppq300.055AverageNDdischargeVolatile Organic CompoundsNDPlastics factory discharge; gas tanks and landfill leachingBenzeneppb10.150.5AverageNDCarbon Tetrachlorideppt500100500AverageND1.2-Dichlorobenzeneppb6000.5AverageNDDischarge from industrial chemical factories1.4-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethaneppb530.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethyleneppb6100.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethyleneppb6100.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethyleneppb6100.5AverageNDDischarge from industria						Range	ND	Discharge from metal refineries & agrichemicals
Hexachlorocyclopentadieneppb5021AverageNDDischarge from chemical factories2,3,7,8-TCDDppq300.055AverageNDWaste incincration emissions; chemical factory(Doxin)ppq300.055AverageNDdischargeVolatie Organic CompoundsNDPlastics factory discharge; gas tanksBenzeneppb10.150.5AverageNDPlastics factory discharge; gas tanksCarbon Tetrachlorideppt500100500AverageNDDischarge from chemical plants and other industrial1,2-Dichlorobenzeneppb6006000.5AverageNDDischarge from industrial chemical factories1,4-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1,1-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1,1-Dichloroethaneppb50100500AverageNDDischarge from industrial chemical factories1,1-Dichloroethyleneppb6100.5AverageNDDischarge from industrial chemical factories1,1-Dichloroethyleneppb6100.5AverageNDDischarge from industrial chemical factories1,1-Dichloroethyleneppb61000.5AverageNDDischarge from industrial chemical factories1,1-Dichloroethy	Hexachlorobenzene	ppb	1	0.03	0.5	Average	ND	factories; wastewater chlorination reaction byproduct
2.3,7.8-TCDD m Range ND Waste incineration emissions; chemical factory (Dioxin) ppq 30 0.05 5 Average ND discharge Volatile Organic Compounds m 0.05 5 Average ND Plastics factory discharge; gas tanks Benzene pp1 1 0.15 0.5 Average ND plastics factory discharge; gas tanks Carbon Tetrachloride pp1 500 100 500 Average ND ind landfill leaching 1.2-Dichlorobenzene ppb 60 0.5 Average ND ischarge from industrial chemical factories 1.4-Dichlorobenzene ppb 5 6 0.5 Average ND ischarge from industrial chemical factories 1.1-Dichloroethane ppb 5 3 0.5 Average ND ischarge from industrial chemical factories 1.1-Dichloroethylene ppb 6 10 0.5 Average ND ischarge from industrial chemical factories 1.2-Dichloroethylene ppb 6 10 0.5 Average ND <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Range</td><td>ND</td><td></td></td<>						Range	ND	
(Dioxin)ppq300.055AverageNDdischargeVolatile Organic CompoundsBenzeneppb10.150.5AverageNDPlastics factory discharge; gas tanksBenzeneppb10.150.5AverageNDplastics factory discharge; gas tanksCarbon Tetrachlorideppt500100500AverageNDDischarge from chemical plants and other industrial1.2-Dichlorobenzeneppb6000.5AverageNDDischarge from industrial chemical factories1.4-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1.1-Dichlorobenzeneppb530.5AverageNDDischarge from industrial chemical factories1.1-Dichlorobenzeneppb530.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethaneppb530.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethyleneppb6100.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethyleneppb61000.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethyleneppb61000.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethyleneppb61000.5AverageNDDisch	Hexachlorocyclopentadiene	ppb	50	2	1	Average	ND	Discharge from chemical factories
(Dioxin)ppq300.055AverageNDdischargeVolatile Organic Compoundsvolatile Organic Compoundsvolatile Organic CompoundsPlastics factory discharge; gas tanksBenzeneppb10.150.5AverageNDand landfill leachingBenzeneppt500100500AverageNDDischarge from chemical plants and other industrialCarbon Tetrachlorideppt500100500AverageNDDischarge from chemical plants and other industrial1.2-Dichlorobenzeneppb6006000.5AverageNDDischarge from industrial chemical factories1.4-Dichlorobenzeneppb560.5AverageNDDischarge from industrial chemical factories1.4-Dichloroethaneppb530.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethyleneppt500400600AverageNDDischarge from industrial chemical factories1.2-Dichloroethyleneppt6100.5AverageNDDischarge from industrial chemical factories1.1-Dichloroethyleneppb61000.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethyleneppb61000.5AverageNDDischarge from industrial chemical factories1.2-Dichloroethyleneppb61000.5AverageNDDischarge from industrial chemical factories </td <td>2,3,7,8-TCDD</td> <td></td> <td></td> <td></td> <td></td> <td>Range</td> <td>ND</td> <td>Waste incineration emissions; chemical factory</td>	2,3,7,8-TCDD					Range	ND	Waste incineration emissions; chemical factory
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cis-1,2-Dichloroethyleneppb61000.5AverageNDbyproduct of TCE and PCE biodegradationtrans-1,2-Dichloroethyleneppb10600.5RangeNDIndustrial chemical factory discharge; trans-1,2-Dichloroethylenepichloromethaner600.5AverageNDbyproduct of TCE and PCE biodegradationDichloromethaner600.5AverageNDbyproduct of TCE and PCE biodegradation(Methylene Chloride)ppb540.5AverageNDDischarge from phramaceutical and chemical factory discharge;1,2-Dichloropropaneppb50.50.5AverageNDIndustrial chemical factory discharge; numery component of some fumigants				-				
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trans-1,2-Dichloroethylene ppb 10 60 0.5 Average ND byproduct of TCE and PCE biodegradation Dichloromethane Comparison Range ND Discharge from pharmaceutical (Methylene Chloride) ppb 5 4 0.5 Average ND and chemical factories 1,2-Dichloropropane ppb 5 0.5 0.5 Average ND Industrial chemical factory discharge; 1,2-Dichloropropane ppb 5 0.5 0.5 Average ND primary component of some fumigants	,,		-					
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(Methylene Chloride) ppb 5 4 0.5 Average ND and chemical factories 1,2-Dichloropropane ppb 5 0.5 0.5 Average ND Industrial chemical factory discharge; 1,2-Dichloropropane ppb 5 0.5 0.5 Average ND primary component of some fumigants						Range		
Image: Constraint of the second sec		ppb	5	4	0.5			
1,2-Dichloropropane ppb 5 0.5 0.5 Average ND primary component of some fumigants		222	Ŭ		0.0			
	1 2-Dichloropropane	pph	5	0.5	0.5			
	1,2 216110100100000	222	Ŭ	0.0	0.0	Range	ND	Runoff/leaching from nematocide used on

1,3-Dichloropropene	ppt	500	200	500	Average	ND	croplands
	ppt	000	200	000	Range	ND	Petroleum refinery discharge; industrial
Ethylbenzene	ppb	300	300	0.5	Average	ND	chemical factories
Methyl-tert-butyl ether					Range	ND	
(MTBE)	ppb	13	13	3	Average	ND	Gasoline discharge from watercraft engines
()				-	Range	ND	Discharge from industrial, agricultural, and chemical
Monochlorobenzene	ppb	70	70	0.5	Average	ND	factories, and dry cleaners
		10		0.0	Range	ND	Rubber and plastics factories discharge;
Styrene	ppb	100	0.5	0.5	Average	ND	landfill leaching
		100	0.0	0.0	Range	ND	Discharge from industrial, agricultural, and chemical
1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	Average	ND	factories; solvent uses
Tetrachloroethylene		-			Range	ND	Discharge from factories, dry cleaners,
(PCE)	ppb	5	0.06	0.5	Average	ND	and auto shops
(***=)					Range	ND	
Toluene	ppb	150	150	0.5	Average	ND	Discharge from petroleum and chemical refineries
- ciacito		100	100	0.0	Range	ND	
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Average	ND	Discharge from textile-finishing factories
1,2,1 1101101000120110		Ű	U U	0.0	Range	ND	Metal degreasing site discharge; manufacture
1,1,1-Trichloroethane	ppb	200	1,000	0.5	Average	ND	of food wrappings
	ppo	200	1,000	0.0	Range	ND	
1,1,2-Trichloroethane	ppb	5	0.3	0.5	Average	ND	Discharge from industrial chemical factories
Trichloroethylene	ppp	Ŭ	0.0	0.0	Range	ND	Discharge from metal degreasing sites and
(TCE)	ppb	5	1.7	0.5	Average	ND	other factories
Trichlorofluoromethane	ppp	Ŭ	1.7	0.0	Range	ND	Industrial factory discharge; degreasing solvent;
(Freon-11)	ppb	150	1300	5	Average	ND	propellant
1.1.2-Trichloro-1.2.2-	ρρυ	150	1300	J	Range	ND	Discharge from metal degreasing sites and other
trifluoroethane (Freon-113)	ppm	1.2	4	0.01	Average	ND	factories; dry cleaning solvent; refrigerant
	ppin	1.2	4	0.01	Range	ND	Leaching from PVC piping; plastic factory
Vinyl Chloride	ppt	500	50	500	Average	ND	discharge; byproduct of TCE and PCE biodegradation
	ρρι	300	- 50	500	Range	ND	Discharge from petroleum and chemical refineries;
Xylenes	ppm	1.750	1.8	0.0005	Average	ND	fuel solvent
INORGANIC CHEMICALS	ppin	1.750	1.0	0.0003	Avelage	ND	
					Range	ND	Residue from water treatment process;
Aluminum	ppm	1	0.6	0.05	Average	ND	natural deposits erosion
/ turninum	ppin	1	0.0	0.00	Range	ND	Petroleum refinery discharges; fire retardants;
Antimony	ppb	6	20	6	Average	ND	solder: electronics
7 anamony	ppp	Ū	20	U	Range	ND	Natural deposits erosion, glass and electronics
Arsenic	ppb	10	0.004	2	Average	ND	production wastes
Alsenie	ppp	10	0.004	2	Range	NA	Asbestos cement pipes internal corrosion;
Asbestos (f)	MFL	7	7	0.2	Average	NA	natural deposits erosion
Asbestos (I)		1	'	0.2	Range	ND	Oil and metal refineries discharge;
Barium	ppb	1,000	2,000	100	Average	ND	natural deposits erosion
Danum	ppp	1,000	2,000	100	Range	ND	Discharge from metal refineries, aerospace,
Beryllium	ppb	4	1	1	Average	ND	and defense industries
Deryllium	ρρυ	4	1		Range	ND	Internal corrosion of galvanized pipes;
Cadmium	ppb	5	0.04	1	Average	ND	natural deposits erosion
Cadmium	ppp	5	0.04	1	Range	ND	Discharge from steel and pulp mills;
Chromium	ppb	50	(100)	10	Average	ND	natural deposits erosion
Chiomum	ppp	50	(100)	10		ND	Runoff/leaching from natural deposits;
Chromium VI	nnh	10	0.02	1	Range Average	ND	discharge from industrial waste factories
	ppb	10	0.02	1	Range	ND	Internal corrosion of household pipes;
Copper	ppm	AL = 1.3	0.3	0.05	Average	ND	natural deposits erosion
Copper	ррп	AL - 1.3	0.5	0.00		ND	Discharge from steel/metal, plastic, and
Cuanida	nnh	150	150	100	Range	ND	
Cyanide	ppb	150	150	100	Average		fertilizer factories
Fluoride (e)		2.0	4	0.4	Range	0.605-0.796	Erosion of natural deposits;
Treatment-related	ppm	2.0	1	0.1	Average	0.705	water additive that promotes strong teeth
Land	un un la	AL = 45	0.0		Range	ND	House pipes internal corrosion;
Lead	ppb	AL = 15	0.2	5	Average	ND ND	erosion of natural deposits
Moroup	nnh	2	1.2	1	Range	ND ND	Erosion of natural deposits; factory discharge;
Mercury	ppb	2	1.2	L I	Average		

Nackel ppb 100 12 101 Nurringe NO Rund fand leaching two fieltier use; septic tank Miriste (as Nirogen) ppm 10 0.4 Average NO Andressinger, induct deposits reaction Parcial cards ppb 6 1 4. Average NO and sewage, induct deposits reaction Parcial cards ppb 6 1 4. Average NO and sewage, induct deposits reaction Parcial cards ppb 6 1 4. Average NO and sewage, induct deposits reaction Selenium ppb 2 0.1 1 Average NO Induction reactions Thallum ppb 2 0.1 1 Average NO Icaching from reprocessing: electronics Robit State ppb 10 1 Average NO Icaching from reprocessing: electronics Radum-228 pC/L NA 0.06 1 Average NO Icaching from reprocessingelectronics Radum-228						Dense	ND	Energian of matural demonster dischange from
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DBP Precursors Control as Total Organic Carbon (TOC) ppm TT NA 0.30 Average NA Various natural and man-made sources; TOC as a medium for the formation of disinfection byproducts SECONDARY STANDARDS—Aesthetic Standards Range ND Residue from water treatment process; Aluminum ppm 1 0.6 0.05 Average ND natural deposits erosion Chloride ppm 500 NA NA Average 74.6 seawater influence Color Color Range ND Naturally-occurring organic materials Color Units 15 NA NA Average ND Naturally-occurring organic materials Log Range ND Internal corrosion of household pipes; natural Range ND								
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SECONDARY STANDARDS—Aesthetic Standards Range ND Residue from water treatment process; Aluminum ppm 1 0.6 0.05 Average ND natural deposits erosion Aluminum ppm 1 0.6 0.05 Average ND natural deposits erosion Chloride ppm 500 NA NA Average 74.6 seawater influence Color Color Range ND Naturally-occurring organic materials Color Units 15 NA Average ND Internal corrosion of household pipes; natural	DBP Precursors Control					Range	NA	Various natural and man-made sources;
SECONDARY STANDARDS—Aesthetic Standards Range ND Residue from water treatment process; Aluminum ppm 1 0.6 0.05 Average ND natural deposits erosion Aluminum ppm 1 0.6 0.05 Average ND natural deposits erosion Chloride ppm 500 NA NA Average 74.6 seawater influence Color Color Range ND Naturally-occurring organic materials Color Units 15 NA Average ND Internal corrosion of household pipes; natural	as Total Organic Carbon (TOC)	ppm	TT	NA	0.30		NA	TOC as a medium for the formation of disinfection byproducts
Image ND Residue from water treatment process; Aluminum ppm 1 0.6 0.05 Average ND natural deposits erosion Aluminum ppm 1 0.6 0.05 Average ND natural deposits erosion Chloride ppm 500 NA NA Average 54.0-100 Runoff/leaching from natural deposits; Chloride ppm 500 NA NA Average 74.6 seawater influence Color Color Range ND Naturally-occurring organic materials Color Range ND Internal corrosion of household pipes; natural							·	
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Chloride ppm 500 NA NA Average 74.6 seawater influence Color Range ND Internal corrosion of household pipes; natural	Aluminum	ppm	1	0.6	0.05			
Chloride ppm 500 NA NA Average 74.6 seawater influence Color Color Range ND ND ND Color Units 15 NA NA Average ND Naturally-occurring organic materials Color Units 15 NA NA Average ND Internal corrosion of household pipes; natural		PP'''		0.0	0.00			
Color Range ND Color Units 15 NA Average ND Naturally-occurring organic materials Color Units 15 NA NA Average ND Naturally-occurring organic materials Color Range ND Internal corrosion of household pipes; natural	Chloride	nnm	500	NΔ	NΔ			
Color Units 15 NA Average ND Naturally-occurring organic materials Image ND Internal corrosion of household pipes; natural Internal corrosion of household pipes; natural	Onionde		500	11/4	11/7			
Range ND Internal corrosion of household pipes; natural	Color		15	NIA	NIA			Naturally accurring arganic materials
		Units	15	INA	INA			
ILODDER I DDM I TU I U.3 I UUS I AVERAGE I NU Idebosits erosion: Wood preservatives leaching	Connon		4.0	0.0	0.05			
	Copper	ppm	1.0	0.3	0.05	Average		deposits erosion; wood preservatives leaching
Foaming Agents Range ND								
(MBAS) ppm 0.5 NA NA Average ND Municipal and industrial waste discharges	(MBAS)	ppm	0.5	NA	NA			Municipal and industrial waste discharges
Range ND						Range	ND	

Iron	ppm	0.3	NA	0.1	Average	ND	Leaching from natural deposits; industrial wastes
	P P P P P			•••	Range	ND	
Manganese	ppm	0.5	NL = 500	20	Average	ND	Leaching from natural deposits
0				-	Range	ND	
MTBE	ppb	5	13	3	Average	ND	Gasoline discharge from watercraft engines
					Range	ND	
Odor Threshold	TON	3	NA	1	Average	ND	Naturally-occurring organic materials
					Range	ND	
Silver	ppb	100	NA	10	Average	ND	Industrial discharges
					Range	291.9-515.7	Substances that form ions in water;
Specific Conductance	µS/cm	1,600	NA	NA	Average	404.0	seawater influence
					Range	12-16.7	Runoff/leaching from natural deposits;
Sulfate	ppm	500	NA	0.5	Average	13.68	industrial wastes
					Range	ND	
Thiobencarb	ppb	1	70	1	Average	ND	Runoff/leaching from rice herbicide
Total Dissolved Solids					Range	140-276	Runoff/leaching from natural deposits;
(TDS)	ppm	500	NA	NA	Average	205	seawater influence
					Range	ND - 0.76	Turbidity is a measure of the cloudiness of the water,
Turbidity	NTU	5	NA	0.1	Average	0.1	an indicator of the effectiveness of our filtration system
					Range	ND	Runoff/leaching from natural deposits;
Zinc	ppm	5.0	NA	0.05	Average	ND	industrial wastes
OTHER PARAMETERS							
MICROBIOLOGICAL					_		
					Range	NA	
HPC	CFU/ml	TT	NA	NA	Median	NA	Naturally present in the environment
CHEMICAL					_		
					Range	46-104	
Alkalinity	ppm	NA	NA	NA	Average	64.43	
					Range	0.36-0.78	Runoff/leaching from natural deposits;
Boron (g)	ppm	NA	NA	NA	Average	0.55	industrial wastes and naturally occurring in seawater
Ostations		NIA	NIA	NIA	Range	<u>16.68-31.88</u>	
Calcium	ppm	NA	NA	NA	Average	22.68 NA	Duran duct of division suctor eldevis of inter-
Chianata	a a la	NII - 000	NIA	20	Range	NA NA	Byproduct of drinking water chlorination;
Chlorate Corrosivity	ppb	NL = 800	NA	20	Average	8.52 - 10.88	industrial processes Elemental balance in water; affected
(as Aggressiveness Index)	A 1	NA	NA	NA	Range	10.58	by temperature, other factors
Corrosivity	AI	INA	INA	INA	Average	0.04-0.63	Elemental balance in water: affected
(as Saturation Index)	SI	NA	NA	NA	Range Average	0.31	by temperature, other factors
(as Saturation index)	31	INA	IN/A	INA	Range	41.7-79.7	
Total Hardness	ppm	NA	NA	NA	Average	56.71	
Total Hardness	ppin	INA.	11/4	INA.	Range	0.89-0.98	
Magnesium	ppm	NA	NA	NA	Average	0.93	
Magnesiam	ppIII			11/1	Range	8.27-8.80	
pH	Units	NA	NA	NA	Average	8.51	•
	0 mile			101	Range	0.000-54.467	
Potassium 40	pCi/L	NA	NA	NA	Average	14.729	
					Range	NA	
Radon	pCi/L	NA	NA	100	Average	NA	
					Range	45.4-66	
Sodium	ppm	NA	NA	NA	Average	55.1	
					Range	NA	Various natural and man-made sources;
тос	ppm	TT	NA	0.30	Highest RAA	NA	TOC as a medium for the formation of disinfection byproducts
					Range	NA	
Vanadium	ppb	NL = 50	NA	3	Average	NA	Naturally-occurring; industrial waste discharge
N-Nitrosodimethylamine					Range	NA	Byproduct of drinking water chloramination;
(NDMA)	ppt	NL = 10	3	2	Range	NA	industrial processes
Dichlorodifluoromethane					Range	NA	
(Freon 12)	ppb	NL = 1,000	NA	0.5	Average	NA	Industrial waste discharge
Ethyl-tert-butyl ether					Range	NA	
(ETBE)	ppb	NA	NA	3	Average	NA	Used as gasoline additive

tert-Amyl-methyl ether					Range	NA	
(TAME)	ppb	NA	NA	3	Average	NA	Used as gasoline additive
tert-Butyl alcohol					Range	NA	MTBE breakdown product; used as gasoline
(TBA)	ppb	NL = 12	NA	2	Average	NA	additive
ABBREVIATIONS AND FOOTNOTES							

Abbreviations

AI	Aggressiveness Index	MCL	
AL	Action Level	MCLG	
CDPH	California Department of Public Health	MFL	
CFU	Colony-Forming Units	MRDL	
DBP	Disinfection Byproducts	MRDLG	
DLR	Detection Limits for Purposes of Reporting	NA	
LRAA	Locational Running Annual Average; highest	ND	
	LRAA is the highest of all Locational Running	NL	
	Annual Averages calculated as average of	NTU	
	all samples collected within a 12-month	pCi/L	
	period	PHG	
MBAS	Methylene Blue Active Substances	ppb	

Maximum Contaminant Level Maximum Contaminant Level Goal Million Fibers per Liter Maximum Residual Disinfectant Level Maximum Residual Disinfectant Level Goal Not Applicable Not Detected Notification Level Nephelometric Turbidity Units picoCuries per Liter Public Health Goal parts per billion or micrograms per liter (µg/L)

Footnotes

- (a) The reverse osmosis filter effluent turbidity must be equal to or less than 0.1 NTU in 95% of the measurements taken each month, shall not exceed 0.5 NTU in more than two (2) consecutive 15-minute samples and shall not exceed 1.0 NTU at any time. Turbidity is an indicator of the effectiveness of the filters.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. Compliance is based on the combined distribution system sampling from all the treatment plants.
- (c) E. coli MCL: The occurrence of two consecutive total coliform-positive samples, one of which contains E. coli, constitutes an acute MCL violation. The MCL was not violated.
- (d) All product water tank effluent samples collected had detectable total chlorine residuals and no HPC was required. HPC reporting level is 1 CFU/ml. Values are based on monthly median per State guidelines and recommendations.
- (e) Fluoride samples that were below target ranges were blended with other water supply sources to maintain compliance in water distributed to consumers.
- (f) Not used
- (g) Boron analysis is included as seawater is a natural source for this constituent.