

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

***** Note: Compliance with numeric Water Quality Objectives from the applicable Water Quality Control Plans (Basin Plans) is also required. *****

Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number		
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump	
Acenaphthene	Tastes and Odors	USEPA National Recomm. WQ Criteria, taste & odor	20	ug/L	G & IS	X	X		X	X					83-32-9	
	Toxicity - humans	USEPA IRIS Reference Dose (c)	420	ug/L	G											
		USEPA National Recomm. WQ Criteria, water & fish consump.	70	ug/L	IS											
	CTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	90	ug/L	E & O								X	X		
		California Toxics Rule (USEPA) for sources of drinking water	1,200	ug/L	IS											
	Toxicity - fw aquatic life	California Toxics Rule (USEPA) for other waters	2,700	ug/L	IS & E											
		USEPA National Recomm. WQ Criteria, acute tox info / 10	170	ug/L	IS											
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, toxicity to algae / 10	52	ug/L	IS						X					
		USEPA National Recomm. WQ Criteria, acute tox info / 10	97	ug/L	E & O											
USEPA National Recomm. WQ Criteria, chronic tox info / 10		71	ug/L	E & O												
Acenaphthylene	USEPA National Recomm. WQ Criteria, toxicity to algae / 10	50	ug/L	E & O												
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O									X	208-96-8	
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O							X					
Acetone	Tastes and Odors	Odor threshold (Amoore and Hautala)	20,000	ug/L	G & IS										67-64-1	
	Toxicity - humans	USEPA IRIS Reference Dose (c)	6,300	ug/L	G & IS	X	X		X	X						
Acrolein	Tastes and Odors	Odor threshold (Amoore and Hautala)	110	ug/L	G & IS										107-02-8	
	Toxicity - humans	USEPA IRIS Reference Dose (c)	3.5	ug/L	G	X	X									
		USEPA National Recomm. WQ Criteria, water & fish consump.	3	ug/L	IS						X					
	CTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	400	ug/L	E & O											
		California Toxics Rule (USEPA) for sources of drinking water	320	ug/L	IS				X	X						
	California Toxics Rule (USEPA) for other waters	780	ug/L	IS & E												
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	220	ug/L	O											
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	3	ug/L	IS						X					
		USEPA National Recomm. WQ Criteria, 1-hour average	3	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	5.5	ug/L	E & O							X	X				
Alachlor	Chemical Constituents	California Primary MCL	2	ug/L	G & IS	X	X		X	X					15972-60-8	
	Toxicity - humans	California Public Health Goal for Drinking Water	4	ug/L	G & IS											
	Toxicity - fw aquatic life	USEPA Water Quality Advisory, instantandous maximum	76	ug/L	IS						X					
Aldrin	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.0021	ug/L	G	X	X								309-00-2	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.00008	ug/L	IS											
	CTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	0.00008	ug/L	E & O											
		California Toxics Rule (USEPA) for sources of drinking water	0.00013	ug/L	IS				X	X	X					
	California Toxics Rule (USEPA) for other waters	0.00014	ug/L	IS & E								X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.000022	ug/L	O									X		
CTR - sw aquatic life	California Toxics Rule (USEPA), instantaneous maximum	1.3	ug/L	E & O												
Aluminum	Chemical Constituents	California Toxics Rule (USEPA), instantaneous maximum	3	ug/L	IS										7429-90-5	
		California Primary MCL	1,000	ug/L	G & IS											
		California Secondary MCL	200	ug/L	G & IS	X	X		X	X						
	Tastes and Odors	Water Quality for Agriculture (Ayers & Westcot)	5,000	ug/L	G & IS				X			X				
		California Secondary MCL	200	ug/L	G & IS											
	Toxicity - humans	California Public Health Goal for Drinking Water	600	ug/L	G & IS											
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day avg, total (f)	87	ug/L	IS						X					
USEPA National Recomm. WQ Criteria, 1-hour avg, total (f)		750	ug/L	IS												

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
Ammonia (and Ammonium)	Tastes and Odors	Odor threshold (Amoore and Hautala)	1,500	ug/L	G & IS	X	X		X	X					7664-41-7
	Toxicity - humans	USEPA Draft Health Advisory	30,000	ug/L	G & IS										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day avg, as N (i)	490	ug/L	IS						X				
		USEPA National Recomm. WQ Criteria, 1-hour avg, as N (j)	1,770	ug/L	IS										
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day avg, as N (k)	100	ug/L	E							X			
			250	ug/L	O										
		USEPA National Recomm. WQ Criteria, 1-hour avg, as N (k)	690	ug/L	E										
		1,800	ug/L	O											
CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median, as N	600	ug/L	O									X		
	Aquatic Life Protection Objective, daily maximum, as N	2,400	ug/L	O											
	Aquatic Life Protection Objective, instantaneous max, as N	6,000	ug/L	O											
tert-Amyl methyl ether (tAME) (Methyl tert-Amyl Ether)	Toxicity - humans	California Public Health Goal for Drinking Water (for MTBE)	13	ug/L	G & IS									994-05-8	
	Tastes and Odors	California Secondary MCL (taste/odor limit based on MTBE)	5	ug/L	G & IS	X	X		X	X					
Anthracene	Toxicity - humans	USEPA IRIS Reference Dose (c)	2,100	ug/L	G	X	X							120-12-7	
		USEPA National Recomm. WQ Criteria, water & fish consump.	300	ug/L	IS				X	X					
		USEPA National Recomm. WQ Criteria, fish consumption	400	ug/L	E & O							X			
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	9,600	ug/L	IS										
		California Toxics Rule (USEPA) for other waters	110,000	ug/L	IS & E						X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O								X		
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O							X				
Antimony	Chemical Constituents	California Primary MCL	6	ug/L	G & IS	X			X					7440-36-0	
	Toxicity - humans	California Public Health Goal for Drinking Water	1	ug/L	G		X			X					
		California Toxics Rule (USEPA) for sources of drinking water	14	ug/L	IS										
	CTR - humans	California Toxics Rule (USEPA) for other waters	4,300	ug/L	IS & E							X			
		Human Health Protection Objective, fish consumption	1,200	ug/L	O										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	900	ug/L	IS										
		USEPA National Recomm. WQ Criteria, chronic tox info / 10	160	ug/L	IS										
USEPA National Recomm. WQ Criteria, algae toxicity / 10		61	ug/L	IS						X					
Arsenic	Chemical Constituents	California Primary MCL	10	ug/L	G & IS	X								7440-38-2	
		Water Quality for Agriculture (Ayers & Westcot)	100	ug/L	G & IS			X				X			
	Toxicity - humans	California Public Health Goal for Drinking Water	0.004	ug/L	G & IS		X			X					
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.018	ug/L	IS				X	X					
	USEPA National Recomm. WQ Criteria, fish consumption		0.14	ug/L	E & O							X	X		
		California Toxics Rule (USEPA), 4-day average (dissolved)	150	ug/L	IS										
	CTR - fw aquatic life	California Toxics Rule (USEPA), 1-hour average (dissolved)	340	ug/L	IS										
		California Toxics Rule (USEPA), 4-day average (dissolved)	36	ug/L	E										
	CTR - sw aquatic life	California Toxics Rule (USEPA), 1-hour average (dissolved)	69	ug/L	E										
		Aquatic Life Protection Objective, 6-month median	8	ug/L	O										
CA Ocean Plan - aq life	Aquatic Life Protection Objective, daily maximum	32	ug/L	O											
	Aquatic Life Protection Objective, instantaneous maximum	80	ug/L	O											
Asbestos	Chemical Constituents	California Primary MCL	7	MFL	G & IS	X	X							1332-21-4	
	Toxicity - humans	USEPA Drinking Water Health Advisory	7	MFL	G										
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	7	MFL	IS				X	X					

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
Atrazine	Chemical Constituents	California Primary MCL	1	ug/L	G & IS	X			X						1912-24-9
	Toxicity - humans	California Public Health Goal for Drinking Water	0.15	ug/L	G & IS		X			X					
	Toxicity - fw aquatic life	USEPA draft National Recomm. WQ Criteria, 1-hour avg (h)	1,500	ug/L	IS						X				
	Toxicity - sw aquatic life	USEPA draft National Recomm. WQ Criteria, 30-day average	17	ug/L	E & O							X	X		
Barium	Chemical Constituents	California Primary MCL	1,000	ug/L	G & IS	X	X		X	X					7440-39-3
	Toxicity - humans	California Public Health Goal for Drinking Water	2,000	ug/L	G & IS										
		USEPA National Recomm. WQ Criteria, water & fish consump.	1,000	ug/L	IS										
Benzene	Chemical Constituents	California Primary MCL	1	ug/L	G & IS	X			X						71-43-2
	Tastes and Odors	Odor threshold (Amoore and Hautala)	170	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	0.15	ug/L	G		X			X					
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.58	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	16	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	1.2	ug/L	IS						X				
		California Toxics Rule (USEPA) for other waters	71	ug/L	IS & E							X			
CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	5.9	ug/L	O									X		
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	510	ug/L	E & O											
Benz(a)anthracene	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.029	ug/L	G	X	X							56-55-3	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.0012	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.0013	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0044	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.049	ug/L	IS & E							X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O										X
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O											
Benzo(a)pyrene	Chemical Constituents	California Primary MCL	0.2	ug/L	G & IS	X								50-32-8	
	Toxicity - humans	California Public Health Goal for Drinking Water	0.007	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.00012	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.00013	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0044	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.049	ug/L	IS & E							X			
CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O									X		
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O											
Benzo(b)fluoranthene	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.029	ug/L	G	X	X							205-99-2	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.0012	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.0013	ug/L	E & O										
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O								X		
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0044	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.049	ug/L	IS & E							X			
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O											
Benzo(k)fluoranthene	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.029	ug/L	G	X	X							207-08-9	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.012	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.013	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0044	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.049	ug/L	IS & E							X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O										X
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O											

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						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
Benzo(g,h,i)perylene	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O										X	191-24-2
Beryllium	Chemical Constituents	California Primary MCL	4	ug/L	G & IS	X			X							7440-41-7
		Water Quality for Agriculture (Ayers & Westcot)	100	ug/L	G & IS			X				X				
	Toxicity - humans	California Public Health Goal for Drinking Water	1	ug/L	G & IS		X			X						
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.033	ug/L	O										X	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	13	ug/L	IS											
		USEPA National Recomm. WQ Criteria, chronic tox info / 10	0.53	ug/L	IS						X					

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							MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR		Aquatic Life & Consump
alpha-BHC (alpha-Benzene hexachloride)	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.013	ug/L	G	X	X							319-84-6	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.00036	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.00039	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0039	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.013	ug/L	IS & E							X			
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.004	ug/L	O								X		
Aquatic Life Protection Objective, daily maximum		0.008	ug/L	O											
Aquatic Life Protection Objective, instantaneous maximum		0.012	ug/L	O											
beta-BHC (beta-Benzene hexachloride)	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.023	ug/L	G	X	X						319-85-7		
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.008	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.014	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.014	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.046	ug/L	IS & E							X			
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.004	ug/L	O									X	
Aquatic Life Protection Objective, daily maximum		0.008	ug/L	O											
Aquatic Life Protection Objective, instantaneous maximum		0.012	ug/L	O											
gamma-BHC (gamma-Benzene hexachloride) (Lindane)	Chemical Constituents	California Primary MCL	0.2	ug/L	G & IS	X							58-89-9		
	Toxicity - humans	California Public Health Goal for Drinking Water	0.032	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	4.2	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	4.4	ug/L	E & O										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	0.08	ug/L	IS										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.019	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.063	ug/L	IS & E							X			
	CTR - fw aquatic life	California Toxics Rule (USEPA), 1-hour average	0.95	ug/L	IS										
	CTR - sw aquatic life	California Toxics Rule (USEPA), instantaneous maximum	0.16	ug/L	E										
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.004	ug/L	O									X	
Aquatic Life Protection Objective, daily maximum		0.008	ug/L	O											
Aquatic Life Protection Objective, instantaneous maximum		0.012	ug/L	O											
technical-BHC (technical-Benzene hexachloride) (mixture of BHC isomers)	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.0088	ug/L	G & IS	X	X		X	X			608-73-1		
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.0066	ug/L	IS					X					
		USEPA National Recomm. WQ Criteria, fish consumption	0.01	ug/L	E & O										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	10	ug/L	IS										
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	0.034	ug/L	E & O							X			
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.004	ug/L	O									X	
Aquatic Life Protection Objective, daily maximum		0.008	ug/L	O											
Aquatic Life Protection Objective, instantaneous maximum		0.012	ug/L	O											
Boron	Chemical Constituents	Water Quality for Agriculture (Ayers & Westcot)	700	ug/L	G & IS			X				X	7440-42-8		
	Toxicity - humans	California DPH Notification Level for drinking water	1,000	ug/L	G & IS	X	X		X	X					
Bromacil	Toxicity - humans	USEPA, OPP Drinking Water Health Advisory - non-cancer	70	ug/L	G & IS	X	X		X	X			314-40-9		
Bromodichloromethane	Chemical Constituents	California Primary MCL (for total trihalomethanes)	80	ug/L	G & IS	X							75-27-4		
	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.27	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.95	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	27	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.56	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	46	ug/L	IS & E							X			
CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	6.2	ug/L	O								X			

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,100	ug/L	IS										
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O										
		USEPA National Recomm. WQ Criteria, acute tox info / 10	1,200	ug/L	E & O										

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body										CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters				Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump			
Bromoethane (Ethyl bromide)	Tastes and Odors	Odor threshold (Amoore and Hautala)	46	ug/L	G & IS	X	X		X	X						74-96-4	
Bromoform	Chemical Constituents	California Primary MCL (for total trihalomethanes)	80	ug/L	G & IS	X										75-25-2	
	Tastes and Odors	Odor threshold (Amoore and Hautala)	510	ug/L	G & IS												
	Toxicity - humans	USEPA IRIS Cancer Risk Level	4	ug/L	G		X										
		USEPA National Recomm. WQ Criteria, water & fish consump.	7	ug/L	IS												
		USEPA National Recomm. WQ Criteria, fish consumption	120	ug/L	E & O												
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	4.3	ug/L	IS				X	X	X						
		California Toxics Rule (USEPA) for other waters	360	ug/L	IS & E								X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	130	ug/L	O										X		
Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,100	ug/L	IS													
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O													
	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,200	ug/L	E & O													
tert-Butyl alcohol (TBA)	Tastes and Odors	Odor threshold (Amoore and Hautala)	290,000	ug/L	G & IS											75-65-0	
	Toxicity - humans	California DPH Notification Level for drinking water	12	ug/L	G & IS	X	X		X	X							
n-Butylbenzene	Toxicity - humans	California DPH Notification Level for drinking water	260	ug/L	G & IS	X	X		X	X						104-51-8	
sec-Butylbenzene	Toxicity - humans	California DPH Notification Level for drinking water	260	ug/L	G & IS	X	X		X	X						135-98-8	
tert-Butylbenzene	Toxicity - humans	California DPH Notification Level for drinking water	260	ug/L	G & IS	X	X		X	X						98-06-6	
Cadmium	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X			X								
		Water Quality for Agriculture (Ayers & Westcot)	10	ug/L	G & IS			X				X					
	Toxicity - humans	California Public Health Goal for Drinking Water	0.04	ug/L	G & IS		X			X							
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved (I)	1.1	ug/L	IS						X						
		California Toxics Rule (USEPA), 1-hour average, dissolved (I)	1.6	ug/L	IS												
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved	9.3	ug/L	E & O									X			
		California Toxics Rule (USEPA), 1-hour average, dissolved	42	ug/L	E & O												
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	1	ug/L	O												X
Aquatic Life Protection Objective, daily maximum		4	ug/L	O													
Aquatic Life Protection Objective, instantaneous maximum		10	ug/L	O													
Carbaryl (Sevin)	Toxicity - humans	USEPA, OPP Cancer Potency Factor as a drinking water level (40	ug/L	G & IS	X	X		X	X						63-25-2	
	Toxicity - fw aquatic life	USEPA National Recommended WQ Criteria, 4-day average	2.1	ug/L	IS						X						
		USEPA National Recommended WQ Criteria, 1-hour average	2.1	ug/L	IS												
	Toxicity - sw aquatic life	California Dept of Fish & Game WQ Criteria, 4-day average	0.81	ug/L	E & O								X	X			
		California Dept of Fish & Game WQ Criteria, 1-hour average	0.81	ug/L	E & O												
Carbon tetrachloride	Chemical Constituents	California Primary MCL	0.5	ug/L	G & IS	X										56-23-5	
	Tastes and Odors	Taste & Odor Threshold (USEPA)	520	ug/L	G & IS												
	Toxicity - humans	California Public Health Goal for Drinking Water	0.1	ug/L	G		X										
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.4	ug/L	IS												
		USEPA National Recomm. WQ Criteria, fish consumption	5	ug/L	E & O												
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	0.25	ug/L	IS				X	X	X						
		National Toxics Rule (USEPA) for other waters	4.4	ug/L	IS & E								X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.9	ug/L	O										X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	3,520	ug/L	IS												
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O												
USEPA National Recomm. WQ Criteria, acute tox info / 10		5,000	ug/L	E & O													

Water Quality-Based Assessment Thresholds

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number		
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump	
Chlordane	Chemical Constituents	California Primary MCL	0.1	ug/L	G & IS	X									57-74-9	
	Toxicity - humans	California Public Health Goal for Drinking Water	0.03	ug/L	G		X									
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.00031	ug/L	IS											
		USEPA National Recomm. WQ Criteria, fish consumption	0.00032	ug/L	E & O											
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.00057	ug/L	IS				X	X	X					
		California Toxics Rule (USEPA) for other waters	0.00059	ug/L	IS & E											
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.000023	ug/L	O									X		
	NTR/CTR - fw aq life	National Toxics Rule (USEPA), 4-day average, total	0.0043	ug/L	IS											
		California Toxics Rule (USEPA), instantaneous maximum	2.4	ug/L	IS											
	NTR/CTR - sw aq life	National Toxics Rule (USEPA), 4-day average, total	0.004	ug/L	E								X			
California Toxics Rule (USEPA), instantaneous maximum		0.09	ug/L	E												
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	0.004	ug/L	E & O												
	USEPA National Recomm. WQ Criteria, 1-hour average	0.09	ug/L	E & O												
Chloride	Chemical Constituents	California Secondary MCL, recommended level	250,000	ug/L	G & IS	X	X		X	X					16887-00-6	
		California Secondary MCL, upper level	500,000	ug/L	G & IS											
		Water Quality for Agriculture (Ayers & Westcot)	106,000	ug/L	G & IS			X				X				
	Tastes and Odors	California Secondary MCL	250,000	ug/L	G & IS											
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	230,000	ug/L	IS						X					
USEPA National Recomm. WQ Criteria, 1-hour average		860,000	ug/L	IS												
Chlorobenzene	Chemical Constituents	California Primary MCL	70	ug/L	G & IS									108-90-7		
	Tastes and Odors	USEPA National Recomm. WQ Criteria, taste & odor	20	ug/L	G & IS	X	X		X	X						
	Toxicity - humans	California Public Health Goal for Drinking Water	70	ug/L	G											
		USEPA National Recomm. WQ Criteria, water & fish consump.	100	ug/L	IS											
		USEPA National Recomm. WQ Criteria, fish consumption	800	ug/L	E & O											
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	680	ug/L	IS											
		National Toxics Rule (USEPA) for other waters	21,000	ug/L	IS & E											
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	570	ug/L	O										X	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	25	ug/L	IS						X					
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	12.9	ug/L	E & O								X				
	USEPA National Recomm. WQ Criteria, acute tox info / 10	16	ug/L	E & O												
Chloroethane (Ethyl Chloride)	Tastes and Odors	Odor threshold (Amoore and Hautala)	16	ug/L	G & IS									75-00-3		
	Toxicity - humans	Prop. 65 No-Significant Risk Level adjusted to 10(-6) risk	7.5	ug/L	G & IS	X	X		X	X						
Chloroform	Chemical Constituents	California Primary MCL (total trihalomethanes)	80	ug/L	G & IS	X								67-66-3		
	Tastes and Odors	Odor threshold (Amoore and Hautala)	2,400	ug/L	G & IS											
	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	1.1	ug/L	G & IS		X			X						
		USEPA National Recomm. WQ Criteria, water & fish consump.	60	ug/L	IS				X							
		USEPA National Recomm. WQ Criteria, fish consumption	2,000	ug/L	E & O							X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	130	ug/L	O										X	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	124	ug/L	IS						X					
USEPA National Recomm. WQ Criteria, acute tox info / 10		2,890	ug/L	IS												
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O												
	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,200	ug/L	E & O												
Chloromethane (Methyl chloride)	Toxicity - humans													74-87-3		
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	130	ug/L	O								X			
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,100	ug/L	IS						X					
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O							X					

Water Quality-Based Assessment Thresholds

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
		USEPA National Recomm. WQ Criteria, acute tox info / 10	1,200	ug/L	E & O											

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
Chlorpyrifos	Toxicity - humans	USEPA, OPP Drinking Water Health Advisory - non-cancer	2	ug/L	G & IS	X	X		X	X					2921-88-2
	Toxicity - fw aquatic life	California Dept of Fish & Game WQ Criteria, 4-day average (s)	0.014	ug/L	IS						X				
		California Dept of Fish & Game WQ Criteria, 1-hour average (s)	0.02	ug/L	IS										
	Toxicity - sw aquatic life	California Dept of Fish & Game WQ Criteria, 4-day average	0.009	ug/L	E & O							X	X		
California Dept of Fish & Game WQ Criteria, 1-hour average		0.02	ug/L	E & O											
Chromium (III)	Chemical Constituents	California Primary MCL (total chromium)	50	ug/L	G & IS	X	X		X	X				16065-83-1	
	Toxicity - humans	USEPA IRIS Reference Dose (c)	10,500	ug/L	G & IS										
	NTR - fw aquatic life	National Toxics Rule (USEPA), 4-day average, dissolved (l)	84	ug/L	IS						X				
		National Toxics Rule (USEPA), 1-hour average, dissolved (l)	260	ug/L	IS										
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	190,000	ug/L	O										
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,030	ug/L	E & O							X	X			
Chromium (VI)	Chemical Constituents	California Primary MCL	10	ug/L	G & IS	X			X					18540-29-9	
		Water Quality for Agriculture (Ayers & Westcot)	100	ug/L	G & IS			X			X				
	Toxicity - humans	California Public Health Goal for Drinking Water	0.02	ug/L	G & IS		X			X					
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average (dissolved)	11	ug/L	IS						X				
		California Toxics Rule (USEPA), 1-hour average (dissolved)	16	ug/L	IS										
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average (dissolved)	50	ug/L	E							X			
		California Toxics Rule (USEPA), 1-hour average (dissolved)	1100	ug/L	E										
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	2	ug/L	O										X
Aquatic Life Protection Objective, daily maximum		8	ug/L	O											
Aquatic Life Protection Objective, instantaneous maximum		20	ug/L	O											
Chrysene	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.29	ug/L	G	X	X							218-01-9	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.12	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.13	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0044	ug/L	IS				X	X	X				
		California Toxics Rule (USEPA) for other waters	0.049	ug/L	IS & E							X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O								X		
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O											
Cobalt	Chemical Constituents	Water Quality for Agriculture (Ayers & Westcot)	50	ug/L	G & IS			X			X		7440-48-4		
Copper	Chemical Constituents	California Primary MCL	1,300	ug/L	G & IS								7440-50-8		
		California Secondary MCL	1,000	ug/L	G & IS	X			X	X					
		Water Quality for Agriculture (Ayers & Westcot)	200	ug/L	G & IS			X			X				
	Tastes and Odors	California Secondary MCL & USEPA Nat. Rec. WQ Criteria	1,000	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	300	ug/L	G		X								
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	1300	ug/L	IS										
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved (l)	4.1	ug/L	IS						X				
		California Toxics Rule (USEPA), 1-hour average, dissolved (l)	5.7	ug/L	IS										
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved	3.1	ug/L	E							X			
California Toxics Rule (USEPA), 1-hour average, dissolved		4.8	ug/L	E											
CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	3	ug/L	O								X			
	Aquatic Life Protection Objective, daily maximum	12	ug/L	O											
	Aquatic Life Protection Objective, instantaneous maximum	30	ug/L	O											
Cumene (Isopropylbenzene)	Tastes and Odors	Odor threshold (Amoore and Hautala)	0.8	ug/L	G & IS	X	X		X	X			98-82-8		
	Toxicity - humans	California DPH Notification Level for drinking water	770	ug/L	G & IS										

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump	
Cyanide	Chemical Constituents	California Primary MCL	150	ug/L	G & IS	X	X		X	X					57-12-5	
	Tastes and Odors	Odor threshold (Amoore and Hautala)	170	ug/L	G & IS											
	Toxicity - humans	California Public Health Goal for Drinking Water	150	ug/L	G											
		USEPA National Recomm. WQ Criteria, water & fish consump.	4	ug/L	IS											
		USEPA National Recomm. WQ Criteria, fish consumption	400	ug/L	E & O											
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	700	ug/L	IS											
		California Toxics Rule (USEPA) for other waters	220000	ug/L	IS & E											
	NTR - fw aquatic life	National Toxics Rule (USEPA), 4-day average, total	5.2	ug/L	IS						X					
		National Toxics Rule (USEPA), 1-hour average, total	22	ug/L	IS											
	NTR - sw aquatic life	National Toxics Rule (USEPA), 4-day average, total	1	ug/L	E							X				
National Toxics Rule (USEPA), 1-hour average, total		1	ug/L	E												
CA Ocean Plan - aq life		Aquatic Life Protection Objective, 6-month median	1	ug/L	O									X		
		Aquatic Life Protection Objective, daily maximum	4	ug/L	O											
		Aquatic Life Protection Objective, instantaneous maximum	10	ug/L	O											
2,4-D (2,4-Dichlorophenoxyacetic acid)	Chemical Constituents	California Primary MCL	70	ug/L	G & IS	X			X						94-75-7	
	Toxicity - humans	California Public Health Goal for Drinking Water	20	ug/L	G & IS		X			X						
		USEPA National Recomm. WQ Criteria, water & fish consump.	1,300	ug/L	IS						X		X			
		USEPA National Recomm. WQ Criteria, fish consumption	12,000	ug/L	E & O									X		
Dalapon	Chemical Constituents	California Primary MCL	200	ug/L	G & IS	X	X		X	X					75-99-0	
	Toxicity - humans	California Public Health Goal for Drinking Water	790	ug/L	G & IS											
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous max	110	ug/L	IS						X					
DDD	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.15	ug/L	G	X	X								72-54-8	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.00012	ug/L	IS											
		USEPA National Recomm. WQ Criteria, fish consumption	0.00012	ug/L	E & O											
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.00083	ug/L	IS				X	X						
		California Toxics Rule (USEPA) for other waters	0.00084	ug/L	IS & E						X		X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (m)	0.00017	ug/L	O									X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	0.06	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	0.36	ug/L	E & O												
DDE	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.1	ug/L	G	X	X								72-55-9	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.000018	ug/L	IS											
		USEPA National Recomm. WQ Criteria, fish consumption	0.000018	ug/L	E & O											
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.00059	ug/L	IS				X	X	X					
		California Toxics Rule (USEPA) for other waters	0.00059	ug/L	IS & E							X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (m)	0.00017	ug/L	O									X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	105	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1.4	ug/L	E & O												
DDT	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.1	ug/L	G	X	X								50-29-3	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.000030	ug/L	IS											
		USEPA National Recomm. WQ Criteria, fish consumption	0.000030	ug/L	E & O											
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.00059	ug/L	IS				X	X	X					
		California Toxics Rule (USEPA) for other waters	0.00059	ug/L	IS & E							X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (m)	0.00017	ug/L	O									X		
	CTR/NTR - fw aq life	National Toxics Rule (USEPA), 4-day average, total	0.001	ug/L	IS											
California Toxics Rule (USEPA), instantaneous maximum		1.1	ug/L	IS												
CTR/NTR - sw aq life	National Toxics Rule (USEPA), 4-day average, total	0.001	ug/L	E												

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

***** Note: Compliance with numeric Water Quality Objectives from the applicable Water Quality Control Plans (Basin Plans) is also required. *****

Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body									CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
		California Toxics Rule (USEPA), instantaneous maximum	0.13	ug/L	E											
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	0.001	ug/L	E & O											
		USEPA National Recomm. WQ Criteria, instantaneous max	0.13	ug/L	E & O											
Diazinon	Toxicity - humans	California DPH Notification Level for drinking water	1.2	ug/L	G & IS	X	X		X	X						50-29-3
	Toxicity - fw aquatic life	California Dept of Fish & Game WQ Criteria, 4-day average (t)	0.1	ug/L	IS						X					
		California Dept of Fish & Game WQ Criteria, 1-hour average (t)	0.16	ug/L	IS											
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average, draft	0.82	ug/L	E & O								X	X		
		USEPA National Recomm. WQ Criteria, 1-hour average, draft	0.82	ug/L	E & O											

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

***** Note: Compliance with numeric Water Quality Objectives from the applicable Water Quality Control Plans (Basin Plans) is also required. *****

Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
Dibenz(a,h)anthracene	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.0085	ug/L	G	X	X							53-70-3	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.00012	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.00013	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0044	ug/L	IS			X	X	X					
		California Toxics Rule (USEPA) for other waters	0.049	ug/L	IS & E						X				
	CA Ocean Plan - humans Toxicity - sw aquatic life	Human Health Protection Objective, fish consumption (n) USEPA National Recomm. WQ Criteria, acute tox info / 10	0.0088 30	ug/L	O E & O								X		
Dibromochloromethane	Chemical Constituents	California Primary MCL (total trihalomethanes)	80	ug/L	G & IS	X								124-48-1	
	Toxicity - humans	USEPA IRIS Cancer Risk Level	0.4	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.8	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	21	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.41	ug/L	IS			X	X	X					
		California Toxics Rule (USEPA) for other waters	34	ug/L	IS & E						X				
	CA Ocean Plan - humans Toxicity - fw aquatic life	Human Health Protection Objective, fish consumption USEPA National Recomm. WQ Criteria, acute tox info / 10	8.6 1,100	ug/L	O IS								X		
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O										
USEPA National Recomm. WQ Criteria, acute tox info / 10		1,200	ug/L	E & O											
1,2-Dibromo-3-chloropropane (DBCP)	Chemical Constituents	California Primary MCL	0.2	ug/L	G & IS	X			X					96-12-8	
	Tastes and Odors	Taste & Odor Threshold (USEPA)	10	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	0.0017	ug/L	G & IS		X		X						
Dicamba	Toxicity - humans	USEPA, OPP Drinking Water Health Advisory - non-cancer	4000	ug/L	G & IS	X	X		X	X				1918-00-9	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous max	200	ug/L	IS					X					
1,2-Dibromoethane (Ethylene dibromide; EDB)	Chemical Constituents	California Primary MCL	0.05	ug/L	G & IS	X			X					106-93-4	
	Toxicity - humans	California Public Health Goal for Drinking Water	0.01	ug/L	G & IS		X		X						
1,2-Dichlorobenzene	Chemical Constituents	California Primary MCL	600	ug/L	G & IS									95-50-1	
	Tastes and Odors	Odor threshold (Amoore and Hautala)	24	ug/L	G & IS	X	X		X	X					
	Toxicity - humans	California Public Health Goal for Drinking Water	600	ug/L	G										
		USEPA National Recomm. WQ Criteria, water & fish consump.	1,000	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	3,000	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	2,700	ug/L	IS										
		California Toxics Rule (USEPA) for other waters	17,000	ug/L	IS & E										
	CA Ocean Plan - humans Toxicity - fw aquatic life	Human Health Protection Objective, fish consumption USEPA National Recomm. WQ Criteria, chronic tox info / 10	5,100 76	ug/L	O IS						X				
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	112	ug/L	IS										
		USEPA National Recomm. WQ Criteria, chronic tox info / 10	13	ug/L	E & O							X	X		
USEPA National Recomm. WQ Criteria, acute tox info / 10	197	ug/L	E & O												
1,3-Dichlorobenzene	Tastes and Odors	California DPH Archived Advisory Level for drinking water	20	ug/L	G & IS	X	X							541-73-1	
	Toxicity - humans	California DPH Notification Level for drinking water	600	ug/L	G										
		USEPA National Recomm. WQ Criteria, water & fish consump.	7	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	10	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	400	ug/L	IS			X	X						
		California Toxics Rule (USEPA) for other waters	2,600	ug/L	IS & E										
	CA Ocean Plan - humans Toxicity - fw aquatic life	Human Health Protection Objective, fish consumption USEPA National Recomm. WQ Criteria, chronic tox info / 10	5,100 76.3	ug/L	O IS						X				
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	112	ug/L	IS										
		USEPA National Recomm. WQ Criteria, chronic tox info / 10	13	ug/L	E & O							X	X		

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

***** Note: Compliance with numeric Water Quality Objectives from the applicable Water Quality Control Plans (Basin Plans) is also required. *****

Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body									CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
		USEPA National Recomm. WQ Criteria, acute tox info / 10	197	ug/L	E & O											

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
1,4-Dichlorobenzene	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X	X		X	X					106-46-7
	Tastes and Odors	Odor threshold (Amoore and Hautala)	11	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	6	ug/L	G										
		USEPA National Recomm. WQ Criteria, water & fish consump.	300	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	900	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	400	ug/L	IS										
		California Toxics Rule (USEPA) for other waters	2,600	ug/L	IS & E										
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	5,100	ug/L	O										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	76.3	ug/L	IS						X				
USEPA National Recomm. WQ Criteria, acute tox info / 10		112	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	12.9	ug/L	E & O							X	X			
	USEPA National Recomm. WQ Criteria, acute tox info / 10	197	ug/L	E & O											
Dichlorodifluoromethane	Toxicity - humans	California DPH Notification Level for drinking water	1,000	ug/L	G & IS	X	X							75-71-8	
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.19	ug/L	IS			X	X	X					
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,100	ug/L	IS										
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O							X	X		
		USEPA National Recomm. WQ Criteria, acute tox info / 10	1,200	ug/L	E & O										
1,1-Dichloroethane	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X			X					75-34-3	
	Toxicity - humans	California Public Health Goal for Drinking Water	3	ug/L	G & IS		X			X					
1,2-Dichloroethane (Ethylene dichloride)	Chemical Constituents	California Primary MCL	0.5	ug/L	G & IS	X								107-06-2	
	Tastes and Odors	Odor threshold (Amoore and Hautala)	7,000	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	0.4	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	9.9	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	650	ug/L	E & O										
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	0.38	ug/L	IS				X	X	X				
		National Toxics Rule (USEPA) for other waters	99	ug/L	IS & E							X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	28	ug/L	O								X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	2,000	ug/L	IS										
USEPA National Recomm. WQ Criteria, acute tox info / 10		11,800	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	11,300	ug/L	E & O											
1,1-Dichloroethylene	Chemical Constituents	California Primary MCL	6	ug/L	G & IS	X	X							75-35-4	
	Tastes and Odors	Odor threshold (Amoore and Hautala)	1500	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	10	ug/L	G										
		USEPA National Recomm. WQ Criteria, water & fish consump.	300	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	20,000	ug/L	E & O										
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	0.057	ug/L	IS				X	X	X				
		National Toxics Rule (USEPA) for other waters	3.2	ug/L	IS & E							X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.9	ug/L	O								X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,160	ug/L	IS										
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	22,400	ug/L	E & O											
cis-1,2-Dichloroethylene	Chemical Constituents	California Primary MCL	6	ug/L	G & IS	X	X		X					156-59-2	
	Toxicity - humans	California Public Health Goal for Drinking Water	100	ug/L	G & IS										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,160	ug/L	IS						X				
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	22,400	ug/L	E & O							X	X		

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

***** Note: Compliance with numeric Water Quality Objectives from the applicable Water Quality Control Plans (Basin Plans) is also required. *****

Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body									CAS Number
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump	
trans-1,2-Dichloroethylene	Chemical Constituents	California Primary MCL	10	ug/L	G & IS	X	X		X	X					156-60-5
	Tastes and Odors	Odor threshold (Amoore and Hautala)	260	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	60	ug/L	G										
		USEPA National Recomm. WQ Criteria, water & fish consump.	100	ug/L	IS										
	CTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	4,000	ug/L	E & O									X	
		California Toxics Rule (USEPA) for sources of drinking water	700	ug/L	IS										
	Toxicity - fw aquatic life	California Toxics Rule (USEPA) for other waters	140,000	ug/L	IS & E							X			
		USEPA National Recomm. WQ Criteria, acute tox info / 10	1,160	ug/L	IS					X					
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	22,400	ug/L	E & O											
Dichloromethane (Methylene chloride)	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X								75-09-2	
	Tastes and Odors	Odor threshold (Amoore and Hautala)	9,100	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	4	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	20	ug/L	IS										
	CTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	1,000	ug/L	E & O										
		California Toxics Rule (USEPA) for sources of drinking water	4.7	ug/L	IS			X	X						
	CA Ocean Plan - humans	California Toxics Rule (USEPA) for other waters	1,600	ug/L	IS & E							X			
		Human Health Protection Objective, fish consumption	450	ug/L	O										X
Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,100	ug/L	IS					X						
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O											
	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,200	ug/L	E & O											
2,4-Dichlorophenoxybutyric acid (2,4-DB)	Toxicity - humans	USEPA IRIS Reference Dose (c)	56	ug/L	G & IS	X	X		X	X				94-82-6	
1,2-Dichloropropane	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X								78-87-5	
	Tastes and Odors	Odor threshold (Amoore and Hautala)	10	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	0.5	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.9	ug/L	IS										
	CTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	31	ug/L	E & O										X
		California Toxics Rule (USEPA) for sources of drinking water	0.52	ug/L	IS			X	X	X					
	Toxicity - fw aquatic life	California Toxics Rule (USEPA) for other waters	39	ug/L	IS & E							X			
		USEPA National Recomm. WQ Criteria, chronic tox info / 10	570	ug/L	IS										
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	2,300	ug/L	IS											
	USEPA National Recomm. WQ Criteria, chronic tox info / 10	304	ug/L	E & O											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,030	ug/L	E & O											
1,3-Dichloropropene	Chemical Constituents	California Primary MCL	0.5	ug/L	G & IS	X			X	X				542-75-6	
	Toxicity - humans	California Public Health Goal for Drinking Water	0.2	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.27	ug/L	IS										
	CTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	12	ug/L	E & O										
		California Toxics Rule (USEPA) for sources of drinking water	10	ug/L	IS										
	CA Ocean Plan - humans	California Toxics Rule (USEPA) for other waters	1,700	ug/L	IS & E										X
		Human Health Protection Objective, fish consumption	8.9	ug/L	O										X
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	24.4	ug/L	IS					X					
USEPA National Recomm. WQ Criteria, acute tox info / 10		606	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	79	ug/L	E & O							X				

Water Quality-Based Assessment Thresholds

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters	
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	
Dieldrin	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.0022	ug/L	G	X	X							94-82-6
		USEPA National Recomm. WQ Criteria, water & fish consump.	1.2E-06	ug/L	IS									
		USEPA National Recomm. WQ Criteria, fish consumption	1.2E-06	ug/L	E & O									
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.00014	ug/L	IS			X	X	X				
		California Toxics Rule (USEPA) for other waters	0.00014	ug/L	IS & E						X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.00004	ug/L	O								X	
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average	0.056	ug/L	IS									
		California Toxics Rule (USEPA), 1-hour average	0.24	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average	0.0019	ug/L	E									
		California Toxics Rule (USEPA), instantaneous maximum	0.71	ug/L	E									
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	0.0019	ug/L	E & O										
	USEPA National Recomm. WQ Criteria, instantaneous max	0.71	ug/L	E & O										
Diesel (TPH-d)	Tastes and Odors	Taste & odor threshold (USEPA Health Advisory)	100	ug/L	G & IS	X	X		X	X			68476-34-6	
	Toxicity - humans	USEPA Superfund Provisional Reference Dose (c)	56 to 140	ug/L	G & IS									
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate) (DEHP)	Chemical Constituents	California Primary MCL	4	ug/L	G & IS	X	X						117-81-7	
	Toxicity - humans	California Public Health Goal for Drinking Water	12	ug/L	G									
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.32	ug/L	IS									
		USEPA National Recomm. WQ Criteria, fish consumption	0.37	ug/L	E & O									
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	1.8	ug/L	IS			X	X	X				
		National Toxics Rule (USEPA) for other waters	5.9	ug/L	IS & E						X			
CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	3.5	ug/L	O								X		
Di-isopropyl ether (Isopropyl ether) (DIPE)	Tastes and Odors	Odor threshold (Amoore and Hautala)	0.8	ug/L	G & IS	X	X		X	X			108-20-3	
Dinoseb	Chemical Constituents	California Primary MCL	7	ug/L	G & IS	X	X		X	X			88-85-7	
	Toxicity - humans	California Public Health Goal for Drinking Water	14	ug/L	G & IS									
1,4-Dioxane	Tastes and Odors	Odor threshold (Amoore and Hautala)	230,000	ug/L	G & IS								123-91-1	
	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	1.3	ug/L	G & IS	X	X		X	X				
Dioxin (2,3,7,8-TCDD equivalents)	Chemical Constituents	California Primary MCL	0.00003	ug/L	G & IS	X							1746-01-6	
	Toxicity - humans	California Public Health Goal for Drinking Water	5E-08	ug/L	G		X							
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	1.3E-08	ug/L	IS			X	X	X				
		California Toxics Rule (USEPA) for other waters	1.4E-08	ug/L	IS & E						X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	3.9E-09	ug/L	O									X
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	< 0.000001	ug/L	IS									
USEPA National Recomm. WQ Criteria, acute tox info / 10		< 0.001	ug/L	IS										
Disyston (Disulfoton)	Toxicity - humans	USEPA IRIS Reference Dose (c)	0.3	ug/L	G & IS	X	X		X	X			298-04-4	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, inst. max (1973)	0.05	ug/L	IS					X				
Diuron	Toxicity - humans	USEPA, OPP Cancer Potency Factor as drinking water level (b)	2	ug/L	G & IS	X	X		X	X			330-54-1	
Electrical conductivity	see Specific conductance												--	

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
Endosulfan (sum of alpha-Endosulfan, beta- Endosulfan and Endosulfansulfate)	Toxicity - humans	USEPA IRIS Reference Dose (c)	42	ug/L	G	X	X								115-29-7
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.009	ug/L	O									X	
		Aquatic Life Protection Objective, daily maximum	0.018	ug/L	O										
		Aquatic Life Protection Objective, instantaneous maximum	0.027	ug/L	O										
alpha-Endosulfan	Toxicity - humans	USEPA National Recomm. WQ Criteria, water & fish consump.	20	ug/L	IS										959-98-8
		USEPA National Recomm. WQ Criteria, fish consumption	30	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	110	ug/L	IS			X	X						
		California Toxics Rule (USEPA) for other waters	240	ug/L	IS & E										
	NTR/CTR - fw aq life	National Toxics Rule (USEPA), 4-day average, total	0.056	ug/L	IS					X					
		California Toxics Rule (USEPA), Instantaneous Maximum	0.22	ug/L	IS										
NTR/CTR - sw aq life	National Toxics Rule (USEPA), 4-day average, total	0.0087	ug/L	E							X				
	California Toxics Rule (USEPA), Instantaneous Maximum	0.034	ug/L	E											
beta-Endosulfan	Toxicity - humans	USEPA National Recomm. WQ Criteria, water & fish consump.	20	ug/L	IS									33213-65-9	
		USEPA National Recomm. WQ Criteria, fish consumption	40	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	110	ug/L	IS			X	X						
		California Toxics Rule (USEPA) for other waters	240	ug/L	IS & E										
	NTR/CTR - fw aq life	National Toxics Rule (USEPA), 4-day average, total	0.056	ug/L	IS					X					
		California Toxics Rule (USEPA), Instantaneous Maximum	0.22	ug/L	IS										
NTR/CTR - sw aq life	National Toxics Rule (USEPA), 4-day average, total	0.0087	ug/L	E							X				
	California Toxics Rule (USEPA), Instantaneous Maximum	0.034	ug/L	E											
Endosulfan sulfate	Toxicity - humans	USEPA National Recomm. WQ Criteria, water & fish consump.	20	ug/L	IS									1031-07-8	
		USEPA National Recomm. WQ Criteria, fish consumption	40	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	110	ug/L	IS			X	X						
		California Toxics Rule (USEPA) for other waters	240	ug/L	IS & E										
Endrin	Chemical Constituents	California Primary MCL	2	ug/L	G & IS	X								72-20-8	
	Toxicity - humans	California Public Health Goal for Drinking Water	0.3	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.03	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	0.03	ug/L	E & O										
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.76	ug/L	IS			X	X						
		California Toxics Rule (USEPA) for other waters	0.81	ug/L	IS & E										
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average, total	0.036	ug/L	IS					X					
		California Toxics Rule (USEPA), 1-hour average, total	0.086	ug/L	IS										
	CTR/NTR - sw aq life	National Toxics Rule (USEPA), 4-day average, total	0.0023	ug/L	E							X			
		California Toxics Rule (USEPA), instantaneous max, total	0.037	ug/L	E										
CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.002	ug/L	O									X		
	Aquatic Life Protection Objective, daily maximum	0.004	ug/L	O											
	Aquatic Life Protection Objective, instantaneous maximum	0.006	ug/L	O											
Ethanol	Tastes and Odors	Odor threshold (Amoore and Hautala)	760,000	ug/L	G & IS	X	X		X	X				64-17-5	

Water Quality-Based Assessment Thresholds

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters				
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump		
Ethylbenzene	Chemical Constituents	California Primary MCL	300	ug/L	G & IS											100-41-4	
	Tastes and Odors	Taste & Odor Threshold (USEPA)	29	ug/L	G & IS	X			X	X							
	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	3.2	ug/L	G		X										
		USEPA National Recomm. WQ Criteria, water & fish consump.	68	ug/L	IS												
		USEPA National Recomm. WQ Criteria, fish consumption	130	ug/L	E & O												
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	3,100	ug/L	IS												
		National Toxics Rule (USEPA) for other waters	29,000	ug/L	IS & E												
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	4,100	ug/L	O												
Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	3,200	ug/L	IS						X							
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	43	ug/L	E & O							X	X					
Ethyl t-butyl ether (EtBE)	Toxicity - humans	California Public Health Goal for Drinking Water (for MTBE)	13	ug/L	G & IS											637-92-3	
	Tastes and Odors	California Secondary MCL (taste/odor limit based on MTBE)	5	ug/L	G & IS	X	X		X	X							
Fluoranthene	Toxicity - humans	USEPA IRIS Reference Dose (c)	280	ug/L	G	X	X									206-44-0	
		USEPA National Recomm. WQ Criteria, water & fish consump.	20	ug/L	IS												
		USEPA National Recomm. WQ Criteria, fish consumption	20	ug/L	E & O												
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	300	ug/L	IS				X	X	X						
		California Toxics Rule (USEPA) for other waters	370	ug/L	IS & E												
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	15	ug/L	O										X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	398	ug/L	IS												
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	1.6	ug/L	E & O								X					
	USEPA National Recomm. WQ Criteria, acute tox info / 10	4	ug/L	E & O													
Fluorene	Toxicity - humans	USEPA IRIS Reference Dose (c)	280	ug/L	G	X	X									86-73-7	
		USEPA National Recomm. WQ Criteria, water & fish consump.	50	ug/L	IS												
		USEPA National Recomm. WQ Criteria, fish consumption	70	ug/L	E & O												
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	1,300	ug/L	IS				X	X							
		California Toxics Rule (USEPA) for other waters	14,000	ug/L	IS & E						X						
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O										X		
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	30	ug/L	E & O								X					
Fluoride	Chemical Constituents	California Primary MCL	2,000	ug/L	G & IS	X			X							16984-48-8	
		Water Quality for Agriculture (Ayers & Westcot)	1,000	ug/L	G & IS			X				X					
	Tastes and Odors	USEPA Secondary MCL	2,000	ug/L	G & IS												
	Toxicity - humans	California Public Health Goal for Drinking Water	1,000	ug/L	G & IS		X			X							
Gasoline (Hexane) (TPH-g)	Toxicity - humans	USEPA Superfund Provisional Cancer Slope Factor (b)	21	ug/L	G & IS											110-54-3	
	Tastes and Odors	California SWRCB, <i>Water Quality Criteria</i> (McKee & Wolf)	5	ug/L	G & IS	X	X		X	X							
Heptachlor	Chemical Constituents	California Primary MCL	0.01	ug/L	G & IS	X										76-44-8	
		California Public Health Goal for Drinking Water	0.008	ug/L	G		X										
	Toxicity - humans	USEPA National Recomm. WQ Criteria, water & fish consump.	5.9E-06	ug/L	IS												
		USEPA National Recomm. WQ Criteria, fish consumption	5.9E-06	ug/L	E & O												
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.00021	ug/L	IS				X	X	X						
		California Toxics Rule (USEPA) for other waters	0.00021	ug/L	IS & E								X				
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.00005	ug/L	O										X		
	CTR/NTR - fw aq life	National Toxics Rule (USEPA), 4-day average, total	0.0038	ug/L	IS												
		California Toxics Rule (USEPA), instantaneous maximum	0.52	ug/L	IS												
	CTR/NTR - sw aq life	National Toxics Rule (USEPA), 4-day average, total	0.0036	ug/L	E												
		California Toxics Rule (USEPA), instantaneous maximum	0.053	ug/L	E												
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	0.0036	ug/L	E & O													

Water Quality-Based Assessment Thresholds

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
		USEPA National Recomm. WQ Criteria, instantaneous max	0.053	ug/L	E & O											

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters	
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	
Indeno(1,2,3-c,d)pyrene	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.029	ug/L	G	X	X							193-39-5
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.0012	ug/L	IS									
		USEPA National Recomm. WQ Criteria, fish consumption	0.0013	ug/L	E & O									
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.0044	ug/L	IS			X	X	X				
		California Toxics Rule (USEPA) for other waters	0.049	ug/L	IS & E						X			
CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O								X		
Iron	Chemical Constituents	California Secondary MCL	300	ug/L	G & IS	X	X		X	X			7439-89-6	
		Water Quality for Agriculture (Ayers & Westcot)	5,000	ug/L	G & IS			X			X			
	Tastes and Odors	California Secondary MCL	300	ug/L	G & IS									
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	1,000	ug/L	IS					X				
Kepone	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.0022	ug/L	G & IS	X	X		X	X			143-50-0	
Lead	Chemical Constituents	California Primary MCL	15	ug/L	G & IS	X			X				7439-92-1	
		Water Quality for Agriculture (Ayers & Westcot)	5,000	ug/L	G & IS			X			X			
	Toxicity - humans	California Public Health Goal for Drinking Water	0.2	ug/L	G & IS			X		X				
		Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.13	ug/L	G & IS			X		X				
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved (I)	0.92	ug/L	IS					X				
		California Toxics Rule (USEPA), 1-hour average, dissolved (I)	24	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved	8.1	ug/L	E							X		
California Toxics Rule (USEPA), 1-hour average, dissolved		210	ug/L	E										
CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	2	ug/L	O								X		
	Aquatic Life Protection Objective, daily maximum	8	ug/L	O										
	Aquatic Life Protection Objective, instantaneous maximum	20	ug/L	O										
Lead acetate	Chemical Constituents	California Primary MCL for Lead	15	ug/L	G & IS	X			X				301-04-2	
		Water Quality for Agriculture (Ayers & Westcot) for Lead	5,000	ug/L	G & IS			X			X			
	Toxicity - humans	California Public Health Goal for Lead in Drinking Water	2	ug/L	G & IS									
		Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.13	ug/L	G & IS			X		X				
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day avg, for Lead (I)	0.92	ug/L	IS					X				
		California Toxics Rule (USEPA), 1-hour avg for Lead (I)	24	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, for Lead	8.1	ug/L	E							X		
		California Toxics Rule (USEPA), 1-hour average, for Lead	210	ug/L	E									
CA Ocean Plan - aq life	Aquatic Life Protection Objective for Lead, 6-month median	2	ug/L	O								X		
	Aquatic Life Protection Objective for Lead, daily maximum	8	ug/L	O										
	Aquatic Life Protection Objective for Lead, instantaneous max	20	ug/L	O										
Lead subacetate	Chemical Constituents	California Primary MCL for Lead	15	ug/L	G & IS	X			X				1335-32-6	
		Water Quality for Agriculture (Ayers & Westcot) for Lead	5,000	ug/L	G & IS			X			X			
	Toxicity - humans	California Public Health Goal for Lead in Drinking Water	2	ug/L	G & IS									
		Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.92	ug/L	G & IS			X		X				
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day avg, for Lead (I)	0.92	ug/L	IS					X				
		California Toxics Rule (USEPA), 1-hour avg for Lead (I)	24	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, for Lead	8.1	ug/L	E							X		
California Toxics Rule (USEPA), 1-hour average, for Lead		210	ug/L	E										
CA Ocean Plan - aq life	Aquatic Life Protection Objective for Lead, 6-month median	2	ug/L	O								X		
	Aquatic Life Protection Objective for Lead, daily maximum	8	ug/L	O										
	Aquatic Life Protection Objective for Lead, instantaneous max	20	ug/L	O										
Lindane	see gamma-BHC												58-89-9	
Linuron	Toxicity - humans	USEPA IRIS Reference Dose (c)	1.4	ug/L	G & IS	X	X		X	X			330-55-2	

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters	
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	
Manganese	Chemical Constituents	California Secondary MCL	50	ug/L	G & IS	X	X		X	X				7439-96-5
		Water Quality for Agriculture (Ayers & Westcot)	200	ug/L	G & IS			X				X		
	Tastes and Odors	California Secondary MCL	50	ug/L	G & IS									
	Toxicity - humans	California DPH Notification Level for drinking water	500	ug/L	G & IS									
		USEPA National Recomm. WQ Criteria, fish consumption	100	ug/L	IS & E & O						X	X		
Mercury (see also Methylmercury)	Chemical Constituents	California Primary MCL	2	ug/L	G & IS	X								7439-97-6
	Toxicity - humans	California Public Health Goal for Drinking Water	1.2	ug/L	G		X							
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.05	ug/L	IS				X	X	X			
		California Toxics Rule (USEPA) for other waters	0.051	ug/L	IS & E							X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day avg, dissolved	0.77	ug/L	IS									
		USEPA National Recomm. WQ Criteria, 1-hour avg, dissolved	1.4	ug/L	IS									
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day avg, dissolved	0.94	ug/L	E & O									
		USEPA National Recomm. WQ Criteria, 1-hour avg, dissolved	1.8	ug/L	E & O									
CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.04	ug/L	O									X	
	Aquatic Life Protection Objective, daily maximum	0.16	ug/L	O										
	Aquatic Life Protection Objective, instantaneous max	0.4	ug/L	O										
Methoxychlor	Chemical Constituents	California Primary MCL	30	ug/L	G & IS	X			X					72-43-5
	Tastes and Odors	Taste & Odor Threshold (USEPA)	4,700	ug/L	G & IS									
	Toxicity - humans	California Public Health Goal for Drinking Water	0.09	ug/L	G & IS		X			X				
		USEPA National Recomm. WQ Criteria, water & fish consump.	100	ug/L	IS									
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous max	0.03	ug/L	IS					X				
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous max	0.03	ug/L	E & O							X	X		
Methanol (Methyl alcohol)	Tastes and Odors	Odor threshold (Amoore and Hautala)	740,000	ug/L	G & IS									67-56-1
	Toxicity - humans	USEPA IRIS Reference Dose (c)	14,000	ug/L	G & IS	X	X		X	X				
Methyl t-butyl ether (MTBE)	Chemical Constituents	California Primary MCL	13	ug/L	G & IS									1634-04-4
		California Secondary MCL	5	ug/L	G & IS	X	X		X	X				
	Tastes and Odors	California Secondary MCL	5	ug/L	G & IS									
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	51,000	ug/L	IS						X			
		USEPA National Recomm. WQ Criteria, 1-hour average	151,000	ug/L	IS									
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	18,000	ug/L	E & O							X	X	
USEPA National Recomm. WQ Criteria, 1-hour average		53,000	ug/L	E & O										
Methyl ethyl ketone (MEK)	Tastes and Odors	Odor threshold (Amoore and Hautala)	8,400	ug/L	G & IS									78-93-3
	Toxicity - humans	USEPA IRIS Reference Dose (c)	4,200	ug/L	G & IS	X	X		X	X				
Methylmercury	Toxicity - humans	USEPA IRIS Reference Dose (c)	0.07	ug/L	G & IS	X	X		X	X				22967-92-6
		USEPA National Recomm. WQ Criteria (fish tissue)	0.3	mg/kg	IS									
2-Methylnaphthalene	Toxicity	USEPA IRIS Reference Dose (c)	28	ug/L	G & IS	X	X		X	X				91-57-6
Molybdenum	Chemical Constituents	Water Quality for Agriculture (Ayers & Westcot)	10	ug/L	G & IS			X				X		7439-98-7
	Toxicity - humans	USEPA IRIS Reference Dose (c)	35	ug/L	G & IS	X	X		X	X				
Naphthalene	Tastes and Odors	Odor threshold (Amoore and Hautala)	21	ug/L	G & IS									91-20-3
	Toxicity - humans	Cal/EPA Cancer Potency Factor as a drinking water level (b)	0.29	ug/L	G & IS	X	X		X	X				
		USEPA National Recomm. WQ Criteria, chronic tox info / 10	62	ug/L	IS						X			
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	230	ug/L	IS									
		USEPA National Recomm. WQ Criteria, acute tox info / 10	235	ug/L	E & O							X	X	

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters	
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	
Nickel	Chemical Constituents	California Primary MCL	100	ug/L	G & IS	X			X	X				7440-02-0
		Water Quality for Agriculture (Ayers & Westcot)	200	ug/L	G & IS			X				X		
	Toxicity - humans	California Public Health Goal for Drinking Water	12	ug/L	G		X							
		USEPA National Recomm. WQ Criteria, fish consumption	4,600	ug/L	IS & E & O									
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	610	ug/L	IS									
		California Toxics Rule (USEPA) for other waters	4,600	ug/L	IS & E									
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved (I)	24	ug/L	IS					X				
		California Toxics Rule (USEPA), 1-hour average, dissolved (I)	220	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, dissolved	8	ug/L	E							X		
		California Toxics Rule (USEPA), 1-hour average, dissolved	74	ug/L	E									
CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	5	ug/L	O								X		
	Aquatic Life Protection Objective, daily maximum	20	ug/L	O										
	Aquatic Life Protection Objective, instantaneous maximum	50	ug/L	O										
Nitrate (expressed as nitrogen)	Chemical Constituents	California Primary MCL	10,000	ug/L	G & IS	X	X		X	X			14797-55-8	
	Toxicity - humans	California Public Health Goal for Drinking Water	10,000	ug/L	G & IS									
N-Nitrosodimethylamine (NDMA)	Toxicity - humans	California Public Health Goal for Drinking Water	0.003	ug/L	G	X	X						62-75-9	
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	0.00069	ug/L	IS				X	X	X			
		National Toxics Rule (USEPA) for other waters	8.1	ug/L	IS & E							X		
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	7.3	ug/L	O							X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	585	ug/L	IS									
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	330,000	ug/L	E & O										
Pendimethalin (Prowl)	Toxicity - humans	USEPA IRIS Reference Dose (c)	280	ug/L	G & IS	X	X		X	X			40487-42-1	
Pentachlorophenol	Chemical Constituents	California Primary MCL	1	ug/L	G & IS	X							87-86-5	
		Tastes and Odors	Taste & Odor Threshold (USEPA)	30	ug/L	G & IS								
	Toxicity - humans	California Public Health Goal for Drinking Water	0.3	ug/L	G		X							
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.03	ug/L	IS									
		USEPA National Recomm. WQ Criteria, fish consumption	0.04	ug/L	E & O									
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.28	ug/L	IS				X	X				
		California Toxics Rule (USEPA) for other waters	8.2	ug/L	IS & E									
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average at pH 6.5	4	ug/L	IS					X				
		California Toxics Rule (USEPA), 1-hour average at pH 6.5	5.3	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average	7.9	ug/L	E							X		
California Toxics Rule (USEPA), 1-hour average		13	ug/L	E										
CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median (p)	1	ug/L	O								X		
	Aquatic Life Protection Objective, daily maximum (p)	4	ug/L	O										
	Aquatic Life Protection Objective, instantaneous maximum (p)	10	ug/L	O										
Perchlorate	Chemical Constituents	California Primary MCL	6	ug/L	G & IS	X			X				14797-73-0	
	Toxicity - humans	California Public Health Goal for Drinking Water	1	ug/L	G		X			X				
pH - minimum	Chemical Constituents	USEPA Secondary MCL	6.5	units	G & IS	X	X		X	X			--	
		Water Quality for Agriculture (Ayers & Westcot)	6.5	units	G & IS			X			X			
	Tastes and Odors	USEPA National Recomm. WQ Criteria, taste & odor	5	units	G & IS									
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous	6.5	units	IS					X				
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous	6.5	units	E & O						X			
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, instantaneous	6	units	O							X		

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

***** Note: Compliance with numeric Water Quality Objectives from the applicable Water Quality Control Plans (Basin Plans) is also required. *****

Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters	
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	
pH - maximum	Chemical Constituents	USEPA Secondary MCL	8.5	units	G & IS	X	X		X	X				--
		Water Quality for Agriculture (Ayers & Westcot)	8.4	units	G & IS			X				X		
	Tastes and Odors	USEPA National Recomm. WQ Criteria, taste & odor	9	units	G & IS									
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous	9	units	IS					X				
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous	8.5	units	E & O						X			
CA Ocean Plan - aq life	Aquatic Life Protection Objective, instantaneous	9	units	O								X		
Phenanthrene	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O								X	85-01-8
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10 (n)	30	ug/L	E & O						X			
Polychlorinated biphenyls (PCBs)	Chemical Constituents	California Primary MCL	0.5	ug/L	G & IS	X								1336-36-3
	Toxicity - humans	California Public Health Goal for Drinking Water	0.09	ug/L	G		X							
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	0.00017	ug/L	IS				X	X	X			
		California Toxics Rule (USEPA) for other waters	0.00017	ug/L	IS & E							X		
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	0.000019	ug/L	O								X	
	NTR - fw aquatic life	National Toxics Rule (USEPA), 4-day average (e)	0.014	ug/L	IS									
	NTR - sw aquatic life	National Toxics Rule (USEPA), 4-day average (e)	0.03	ug/L	E									
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average (q)	0.03	ug/L	E & O										
Propham	Toxicity - humans	USEPA IRIS Reference Dose (c)	140	ug/L	G & IS	X	X		X	X				122-42-9
n-Propylbenzene	Toxicity - humans	California DPH Notification Level for drinking water	260	ug/L	G & IS	X	X		X	X				103-65-1
Pyrene	Toxicity - humans	USEPA IRIS Reference Dose (c)	210	ug/L	G	X	X							129-00-0
		USEPA National Recomm. WQ Criteria, water & fish consump.	30	ug/L	IS									
		USEPA National Recomm. WQ Criteria, fish consumption	40	ug/L	E & O									
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	960	ug/L	IS				X	X	X			
		California Toxics Rule (USEPA) for other waters	11,000	ug/L	IS & E									
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption (n)	0.0088	ug/L	O								X	
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10 (n)	30	ug/L	E & O							X			
Selenium	Chemical Constituents	California Primary MCL	50	ug/L	G & IS	X			X					7782-49-2
		Water Quality for Agriculture (Ayers & Westcot)	20	ug/L	G & IS			X				X		
	Toxicity - humans	California Public Health Goal for Drinking Water	30	ug/L	G & IS		X			X				
		USEPA National Recomm. WQ Criteria, water & fish consump.	170	ug/L	IS									
	USEPA National Recomm. WQ Criteria, fish consumption	4,200	ug/L	E & O										
		NTR - fw aquatic life	National Toxics Rule (USEPA), 4-day average, total	5	ug/L	IS					X			
	NTR - sw aquatic life	National Toxics Rule (USEPA), 1-hour average, total	20	ug/L	IS									
		California Toxics Rule (USEPA), 4-day average, dissolved	71	ug/L	E							X		
	California Toxics Rule (USEPA), 1-hour average, dissolved	290	ug/L	E										
		CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	15	ug/L	O								
Aquatic Life Protection Objective, daily maximum	60	ug/L	O											
Aquatic Life Protection Objective, instantaneous maximum	150	ug/L	O											
Silver	Chemical Constituents	California Secondary MCL	100	ug/L	G & IS	X			X					7440-22-4
	Tastes and Odors	California Secondary MCL	100	ug/L	G & IS									
	Toxicity - humans	USEPA IRIS Reference Dose (c)	35	ug/L	G & IS		X			X				
	CTR - fw aquatic life	California Toxics Rule (USEPA), 1-hour average, dissolved (l)	0.71	ug/L	IS						X			
	CTR - sw aquatic life	California Toxics Rule (USEPA), 1-hour average, dissolved	1.9	ug/L	E							X		
	CA Ocean Plan - aq life	Aquatic Life Protection Objective, 6-month median	0.7	ug/L	O									
Aquatic Life Protection Objective, daily maximum		2.8	ug/L	O										
Aquatic Life Protection Objective, instantaneous maximum		7	ug/L	O										

Water Quality-Based Assessment Thresholds

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
Simazine	Chemical Constituents	California Primary MCL	4	ug/L	G & IS	X	X		X	X					122-34-9
	Toxicity - humans	California Public Health Goal for Drinking Water	4	ug/L	G & IS										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, instantaneous max (r)	10	ug/L	IS					X					
Sodium	Chemical Constituents	Water Quality for Agriculture (Ayers & Westcot)	69,000	ug/L	G & IS			X				X			7440-23-5
	Tastes and Odors	Taste threshold (USEPA Drinking Water Advisory)	30,000	ug/L	G & IS										
	Toxicity - humans	USEPA Drinking Water Advisory for persons on restricted	20,000	ug/L	G & IS	X	X		X	X					
Specific conductance (Electrical conductivity) (EC)	Chemical Constituents	California Secondary MCL, recommended level	900	umhos/cm	G & IS	X	X		X	X					--
		California Secondary MCL, upper level	1,600	umhos/cm	G & IS										
	Tastes and Odors	Water Quality for Agriculture (Ayers & Westcot)	700	umhos/cm	G & IS			X				X			
		California Secondary MCL, recommended level	900	umhos/cm	G & IS										
Sulfate	Chemical Constituents	California Secondary MCL, recommended level	250,000	ug/L	G & IS	X	X		X	X					14808-79-8
		California Secondary MCL, upper level	500,000	ug/L	G & IS										
	Tastes and Odors	California Secondary MCL, recommended level	250,000	ug/L	G & IS										
		USEPA Drinking Water Advisory	500,000	ug/L	G & IS										
Tebuthiuron	Toxicity - humans	USEPA IRIS Reference Dose (c)	490	ug/L	G & IS	X	X		X	X					34014-18-1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	See Dioxin														
1,1,1,2-Tetrachloroethane	Toxicity - humans	USEPA IRIS Cancer Risk Level	1	ug/L	G & IS	X	X		X	X					630-20-6
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	932	ug/L	IS						X				
1,1,2,2-Tetrachloroethane	Chemical Constituents	California Primary MCL	1	ug/L	G & IS	X									79-34-5
	Tastes and Odors	Odor threshold (Amoore and Hautala)	500	ug/L	G & IS										
		Toxicity - humans	California Public Health Goal for Drinking Water	0.1	ug/L	G		X							
	USEPA National Recomm. WQ Criteria, water & fish consump.		0.2	ug/L	IS										
	NTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	3	ug/L	E & O										
		National Toxics Rule (USEPA) for sources of drinking water	0.17	ug/L	IS				X	X	X				
	CA Ocean Plan - humans	National Toxics Rule (USEPA) for other waters	11	ug/L	IS & E								X		
		Human Health Protection Objective, fish consumption	2.3	ug/L	O									X	
Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	240	ug/L	IS											
	USEPA National Recomm. WQ Criteria, acute tox info / 10	932	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	902	ug/L	E & O											
Tetrachloroethylene (Tetrachloroethene) (PCE)	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X									127-18-4
	Tastes and Odors	Odor threshold (Amoore and Hautala)	170	ug/L	G & IS										
		Toxicity - humans	California Public Health Goal for Drinking Water	0.06	ug/L	G		X							
	USEPA National Recomm. WQ Criteria, water & fish consump.		10	ug/L	IS										
	NTR - humans	USEPA National Recomm. WQ Criteria, fish consumption	29	ug/L	E & O										
		National Toxics Rule (USEPA) for sources of drinking water	0.8	ug/L	IS				X	X	X				
	CA Ocean Plan - humans	National Toxics Rule (USEPA) for other waters	8.85	ug/L	IS & E								X		
		Human Health Protection Objective, fish consumption	2	ug/L	O									X	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	84	ug/L	IS										
		USEPA National Recomm. WQ Criteria, acute tox info / 10	528	ug/L	IS										
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	45	ug/L	E & O											
	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,020	ug/L	E & O											

Water Quality-Based Assessment Thresholds

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters	
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	
Tetraethyl lead	Chemical Constituents	California Primary MCL for Lead	15	ug/L	G & IS	X			X					78-00-2
		Water Quality for Agriculture (Ayers & Westcot) for Lead	5,000	ug/L	G & IS			X			X			
	Toxicity - humans	California Public Health Goal for Lead in Drinking Water	2	ug/L	G & IS									
		USEPA IRIS Reference Dose (c)	0.0007	ug/L	G & IS		X			X				
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day avg, for Lead (I)	0.92	ug/L	IS						X			
		California Toxics Rule (USEPA), 1-hour avg for Lead (I)	24	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, for Lead	8.1	ug/L	E							X		
		California Toxics Rule (USEPA), 1-hour average, for Lead	210	ug/L	E									
	CA Ocean Plan - aq life	Aquatic Life Protection Objective for Lead, 6-month median	2	ug/L	O								X	
Aquatic Life Protection Objective for Lead, daily maximum		8	ug/L	O										
Aquatic Life Protection Objective for Lead, instantaneous max		20	ug/L	O										
Thallium	Chemical Constituents	California Primary MCL	2	ug/L	G & IS	X							7440-28-0	
		Toxicity - humans	California Public Health Goal for Drinking Water	0.1	ug/L	G		X						
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	1.7	ug/L	IS				X	X	X			
		National Toxics Rule (USEPA) for other waters	6.3	ug/L	IS & E							X		
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	2	ug/L	O									X
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	4	ug/L	IS									
		USEPA National Recomm. WQ Criteria, acute tox info / 10	140	ug/L	IS									
		USEPA National Recomm. WQ Criteria, other tox info / 10	2	ug/L	IS									
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	213	ug/L	E & O										
Toluene	Chemical Constituents	California Primary MCL	150	ug/L	G & IS								108-88-3	
		Tastes and Odors	Taste & Odor Threshold (USEPA)	42	ug/L	G & IS	X	X		X	X			
	Toxicity - humans	California Public Health Goal for Drinking Water	150	ug/L	G									
		USEPA National Recomm. WQ Criteria, water & fish consump.	57	ug/L	IS									
		USEPA National Recomm. WQ Criteria, fish consumption	520	ug/L	E & O									
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	85,000	ug/L	O									
	CTR - humans	California Toxics Rule (USEPA) for sources of drinking water	6,800	ug/L	IS									
		California Toxics Rule (USEPA) for other waters	200,000	ug/L	IS & E									
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,750	ug/L	IS						X			
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	500	ug/L	E & O							X	X		
	USEPA National Recomm. WQ Criteria, acute tox info / 10	630	ug/L	E & O										
Total Dissolved Solids (TDS)	Chemical Constituents	California Secondary MCL, recommended level	500,000	ug/L	G & IS	X	X		X	X			--	
		California Secondary MCL, upper level	1,000,000	ug/L	G & IS									
		Water Quality for Agriculture (Ayers & Westcot)	450,000	ug/L	G & IS			X				X		
	Tastes and Odors	California Secondary MCL	500,000	ug/L	G & IS									
Toxaphene	Chemical Constituents	California Primary MCL	3	ug/L	G & IS	X							8001-35-2	
		Tastes and Odors	Taste & Odor Threshold (USEPA)	140	ug/L	G & IS								
	Toxicity - humans	California Public Health Goal for Drinking Water	0.03	ug/L	G		X							
		California Toxics Rule (USEPA) for sources of drinking water	0.00073	ug/L	IS				X	X				
	CTR - humans	California Toxics Rule (USEPA) for other waters	0.00075	ug/L	IS & E									
		Human Health Protection Objective, fish consumption	0.00021	ug/L	O									
	CTR - fw aquatic life	California Toxics Rule (USEPA), 4-day average, total	0.0002	ug/L	IS						X			
		California Toxics Rule (USEPA), 1-hour average, total	0.73	ug/L	IS									
	CTR - sw aquatic life	California Toxics Rule (USEPA), 4-day average, total	0.0002	ug/L	E							X		
		California Toxics Rule (USEPA), 1-hour average, total	0.21	ug/L	E									
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day average	0.0002	ug/L	E & O									X

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
		USEPA Naional Recomm. WQ Criteria, 1-hour average	0.21	ug/L	E & O											

Water Quality-Based Assessment Thresholds

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body								CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump		Aquatic Life & Consump
2,4,5-TP (Silvex)	Chemical Constituents	California Primary MCL	50	ug/L	G & IS	X			X						93-72-1
	Toxicity - humans	California Public Health Goal for Drinking Water	2	ug/L	G & IS		X			X					
		USEPA National Recomm. WQ Criteria, water & fish consump.	100	ug/L	IS						X				
		USEPA National Recomm. WQ Criteria, fish consumption	400	ug/L	E & O							X	X		
1,2,4-Trichlorobenzene	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X	X		X						120-82-1
	Tastes and Odors	Taste & Odor Threshold (USEPA)	3,000	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	5	ug/L	G & IS					X					
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.071	ug/L	IS						X				
		USEPA National Recomm. WQ Criteria, fish consumption	0.076	ug/L	E & O							X	X		
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	5	ug/L	IS										
		USEPA National Recomm. WQ Criteria, acute tox info / 10	25	ug/L	IS										
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	12.9	ug/L	E & O										
	USEPA National Recomm. WQ Criteria, acute tox info / 10	16	ug/L	E & O											
1,1,1-Trichloroethane	Chemical Constituents	California Primary MCL	200	ug/L	G & IS	X	X		X	X					71-55-6
	Tastes and Odors	Odor threshold (Amoore and Hautala)	970	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	1000	ug/L	G & IS										
		USEPA National Recomm. WQ Criteria, water & fish consump.	10,000	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	200,000	ug/L	E & O										
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	540,000	ug/L	O										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,800	ug/L	IS						X				
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	3,120	ug/L	E & O							X	X			
1,1,2-Trichloroethane	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X									79-00-5
	Toxicity - humans	California Public Health Goal for Drinking Water	0.3	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.55	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	8.9	ug/L	E & O										
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	0.6	ug/L	IS				X	X	X				
		National Toxics Rule (USEPA) for other waters	42	ug/L	IS & E							X			
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	9.4	ug/L	O									X	
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	940	ug/L	IS										
	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,800	ug/L	IS											
Trichloroethylene (TCE)	Chemical Constituents	California Primary MCL	5	ug/L	G & IS	X									79-01-6
	Tastes and Odors	Odor threshold (Amoore and Hautala)	310	ug/L	G & IS										
	Toxicity - humans	California Public Health Goal for Drinking Water	1.7	ug/L	G		X								
		USEPA National Recomm. WQ Criteria, water & fish consump.	0.6	ug/L	IS										
		USEPA National Recomm. WQ Criteria, fish consumption	7	ug/L	E & O										
	CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	27	ug/L	O									X	
	NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	2.7	ug/L	IS				X	X	X				
		National Toxics Rule (USEPA) for other waters	81	ug/L	IS & E							X			
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	4,500	ug/L	IS										
	USEPA National Recomm. WQ Criteria, other tox info / 10	2,190	ug/L	IS											
Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	200	ug/L	E & O											
Trichlorofluoromethane (Freon 11)	Chemical Constituents	California Primary MCL	150	ug/L	G & IS	X	X		X	X					75-69-4
	Toxicity - humans	California Public Health Goal for Drinking Water	1,300	ug/L	G & IS										
	Toxicity - fw aquatic life	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,100	ug/L	IS						X				
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, chronic tox info / 10	640	ug/L	E & O							X	X		
	USEPA National Recomm. WQ Criteria, acute tox info / 10	1,200	ug/L	E & O											

Water Quality-Based Assessment Thresholds

Derived using the Assessment Threshold Algorithms in the Water Quality Goals Staff Report, on the web at http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf

***** Note: Compliance with numeric Water Quality Objectives from the applicable Water Quality Control Plans (Basin Plans) is also required. *****

Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body									CAS Number	
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters			Bay or Estuary	Ocean Waters			
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
		USEPA National Recomm. WQ Criteria, algae tox info / 10	1,150	ug/L	E & O											

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		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters				Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN- Toxicity	AGR	MUN-MCL	MUN- Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		
2,4,5-Trichlorophenoxyacetid acid (2,4,5-T)	Toxicity - humans	USEPA IRIS Reference Dose (c)	70	ug/L ug/L	G & IS	X	X		X	X						93-76-5
1,2,3-Trichloropropane	Toxicity - humans	California Public Health Goal for Drinking Water	0.0007	ug/L ug/L	G & IS	X	X		X	X						96-18-4
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	Chemical Constituents	California Primary MCL	1,200	ug/L	G & IS	X	X		X	X						76-13-1
	Tastes and Odors	California Public Health Goal for Drinking Water	>300,000	ug/L	G & IS											
	Toxicity - humans	California Public Health Goal for Drinking Water	4,000	ug/L	G & IS											
Trifluralin	Toxicity - humans	USEPA IRIS Cancer Risk Level	5	ug/L	G & IS	X	X		X	X						1582-09-8
1,2,4-Trimethylbenzene	Toxicity - humans	California DPH Notification Level for drinking water	330	ug/L	G & IS	X	X		X	X						95-63-6
1,3,5-Trimethylbenzene	Tastes and Odors	Odor threshold (Amoore and Hautala)	15	ug/L	G & IS	X	X		X	X						108-67-8
	Toxicity - humans	California DPH Notification Level for drinking water	330	ug/L	G & IS											
Vanadium	Chemical Constituents	Water Quality for Agriculture (Ayers & Westcot)	100	ug/L	G & IS			X				X				7440-62-2
	Toxicity - humans	California DPH Notification Level for drinking water	50	ug/L	G & IS	X	X		X	X						
Vinyl choride	Chemical Constituents	California Primary MCL	0.5	ug/L	G & IS	X			X	X						75-01-4
	Tastes and Odors	Odor threshold (Amoore and Hautala)	3,400	ug/L	G & IS											
	Toxicity - humans	California Public Health Goal for Drinking Water	0.05	ug/L	G		X									
		California Toxics Rule (USEPA) for sources of drinking water	0.022	ug/L	IS											
		California Toxics Rule (USEPA) for other waters	1.6	ug/L	IS & E											
		NTR - humans	National Toxics Rule (USEPA) for sources of drinking water	2	ug/L	IS										
		National Toxics Rule (USEPA) for other waters	525	ug/L	IS & E						X		X			
CA Ocean Plan - humans	Human Health Protection Objective, fish consumption	36	ug/L	O										X		
Xylene(s)	Chemical Constituents	California Primary MCL	1,750	ug/L	G & IS											1330-20-7
	Tastes and Odors	Taste & Odor Threshold (USEPA)	17	ug/L	G & IS	X	X		X	X						
	Toxicity - humans	California Public Health Goal for Drinking Water	1,800	ug/L	G & IS											
Zinc	Chemical Constituents	California Secondary MCL	5,000	ug/L	G & IS	X			X							7440-66-6
		Water Quality for Agriculture (Ayers & Westcot)	2,000	ug/L	G & IS											
	Tastes and Odors	California Secondary MCL	5,000	ug/L	G & IS											
	Toxicity - humans	USEPA IRIS Reference Dose (c)	2,100	ug/L	G & IS		X			X						
		USEPA National Recomm. WQ Criteria, water & fish consump.	7,400	ug/L	IS											
		USEPA National Recomm. WQ Criteria, fish consumption	26,000	ug/L	E & O											
	CTR - fw aquatic life	California Toxics Rule (USEPA), 1-hour average, dissolved (l)	54	ug/L	IS						X					
		California Toxics Rule (USEPA), 4-day average, dissolved (l)	54	ug/L	IS											
	Toxicity - sw aquatic life	USEPA National Recomm. WQ Criteria, 4-day avg, dissolved	81	ug/L	E & O								X			
		USEPA National Recomm. WQ Criteria, 1-hour avg, dissolved	90	ug/L	E & O											
	CA Ocean Plan - aq life	Aquatic Life Protection Objective for Lead, 6-month median	20	ug/L	O									X		
Aquatic Life Protection Objective for Lead, daily maximum		80	ug/L	O												
Aquatic Life Protection Objective for Lead, instantaneous max		200	ug/L	O												
m-Xylene	See Xylene(s) above.														108-38-3	
o-Xylene	See Xylene(s) above.														95-47-6	
p-Xylene	See Xylene(s) above.														106-42-3	

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Constituent / Parameter (Synonym)	Water Quality Objective or Promulgated Criterion	Numeric Thresholds Recommended to Implement Objective or Criterion			G=Groundwater IS=Inland SW E=EB/Estuary O=Ocean	Assessment Thresholds Recommended to Protect Designated Beneficial Uses in the Water Body										CAS Number
		Source of Numeric Threshold <i>(footnotes in parentheses are at bottom of table)</i>	Numeric Threshold	Units		Groundwater			Inland Surface Waters				Bay or Estuary	Ocean Waters		
						MUN-MCL	MUN-Toxicity	AGR	MUN-MCL	MUN-Toxicity	Aquatic Life & Consump	AGR	Aquatic Life & Consump	Aquatic Life & Consump		

Notes:

- (a) For surface waters, toxicity limits may be preempted by California Toxics Rule or National Toxics Rule criteria or by California Ocean Plan objectives.
- (b) Assumes 70 kg body weight and 2 liters per day drinking water consumption.
- (c) Assumes 70 kg body weight, 2 liters per day drinking water consumption, and 20 percent relative source contribution. An additional uncertainty factor of 10 is used for Class C carcinogens.
- (d) Applies to "TCDD Equivalents" calculated from the concentrations of 2,3,7,8-chlorinated dibenzodioxins and 2,3,7,8-chlorinated dibenzofurans and their corresponding toxic equivalency factors (TEFs).
- (e) Applies separately to Aroclors 1242, 1254, 1221, 1232, 1248, 1260, and 1016.
- (f) USEPA, Region 9 has allowed acid soluble analysis in surface water samples to account for suspended clay particles, which pose little aluminum toxicity.
- (g)
- (h) In addition, the Average Primary Producer Steinhaus Similarity deviation for a site is less than 5% (as determined using Comprehensive Aquatic Systems Model (CASM) or other appropriate model and index) and is not exceeded more than once every three years (or other appropriate return frequency sufficient to allow system recovery). The 5% index for the protection of aquatic plant community should also be protective of most freshwater animals (chronic criterion).
- (i) Assumes pH 8.5, 27°C, and fish early life stages present.
- (j) Assumes pH 8.5 and salmonids present.
- (k) For estuarine waters, assumes maximum temperature of 25°C, maximum pH of 9.0 and minimum salinity of 20 g/kg. For ocean waters, assumes maximum temperature of 25°C, maximum pH of 8.5 and minimum salinity of 30 g/kg.
- (l) Assumes 40 mg/L hardness as CaCO3.
- (m) For sum of DDD, DDE and DDT.
- (n) For sum of carcinogenic PAHs.
- (o) Cancer risk at action level is 5 in 1,000,000.
- (p) For chlorinated phenolics.
- (q) Applies to total PCBs (e.g., sum of all congener or all isomer or homolog or Arochlor analyses).
- (r) Criterion appears in an older reference, but not in the current list of recommended criteria.
- (s) Value adjusted by rounding intermediate calculations per USEPA procedures.
- (t) Value adjusted by removing *Gammarus fasciatus* study results per recommendation of Finlayson, California Dept. of Fish and Game.

CTR California Toxics Rule

MFL Million fibers per liter; limited to fibers longer than 10 um.

NTR National Toxics Rule

fw freshwater

sw saltwater

tox toxicity

Beneficial Uses:

MUN-MCL = Municipal or Domestic Supply with default selection of drinking water Maximum Contaminant Level (MCL) when available

MUN-Toxicity = Municipal or Domestic Supply with consideration of human toxicity thresholds that are more stringent than drinking water MCLs

AGR = Agricultural Water Uses, including irrigation supply and stock watering

Aquatic Life & Consump = Supporting protection of aquatic life and consumption of aquatic organisms (assume consumption of both water and aquatic organisms in fresh waters)

Where no numeric aquatic life protective criteria exist, 1/10 of the published toxic level for the most sensitive aquatic life species will be considered protective. For the most recent toxic levels see <http://cfpub.epa.gov/ecotox/>.