Inorganic Constituent			BASIN PLAN		Drinking Water Standards (California & Federal) Maximum Contaminant Levels (MCLs)			
Constituent	Ocean Waters (1) "‡" = carcinogen	Bays and Estuaries	Inland Surface Waters	Ground Water	California Dept.o		USEPA Primary MCL	
Ammonia	600 (2)	NH ₃ not > 0.025 mg/l	NH ₃ not > 0025 mg/l					
Antimony	1,200						6 (8)	
Arsenic	8				50		50	
Beryllium	0.033 ‡						4 (8)	
Boron			0.5 mg/l or as noted in Table 3-1	0.5 mg/l or as noted in Table 3-2				
Bromide								
Cadmium	1				10		5	
Chloride			250 mg/l or as noted in Table 3-1	60 mg/l or as noted in Table 3-2		250,000 (7)		
Chlorine	2 (3)							
Chromium (III)	190,000							
Chromium (VI)	2 (4)							
Chromium (total)	2 (4)				50		100	
Color			20 units or as noted in Table 3-1	15 units or as noted in Table 3-2		15 units		
Copper	3					1,000	1,300 (9)	
Cyanide	1						200 (8)	
Fluoride			1.0 mg/l or as noted in Table 3-1	1.0 mg/l or as noted in Table 3-2	1,400 to 2,400 (5)		4,000	
Iron			0.3 mg/l or as noted in Table 3-1	0.3 mg/l or as noted in Table 3-2	101	300		
Lead	2				50		15 (9)	
Manganese			0.05 mg/l or as noted in Table 3-1	0.05 mg/l or as noted in Table 3-2		50		
Mercury (inorganic)	0.04				2		2	
Nickel	5						100 (8)	
Nitrate			5 mg/l or as noted in Table 3-1	5 mg/l or as noted in Table 3-2	45,000 (6)		10,000 (10)	
Oxygen, dissolved	Shall not be depressed >10%	Shall not be less than 5.0 mg/l with designated MAR. The annual mean DO shall not be less than 7 mg/l more than 10% of the time.	Shall not be less than 5.0 mg/l in inland surface waters with WARM or less than 6.0 m/l in waters with COLD beneficial use The annual mean D.O. conc. shall not be less than 7 mg/l more than 10% of the time.					

Table C-1 -- Values are in ug/l (ppb) unless otherwise indicated. Numbers in parenthesis indicate endnotes following the tables.

Inorganic Constituent				Drinking Water Standards (California & Federal) Maximum Contaminant Levels (MCLs)			
Constituent	Ocean Waters (1) "‡" = carcinogen	Bays and Estuaries	Inland Surface Waters	Ground Water		of Health Services Secondary MCL	USEPA Primary MCL
pН	Shall not be +/- 0.2 units of natural pH	Shall not be depressed below 7.0; nor raised above 9.0. Changes in normal ambient pH shall not exceed 0.2 units.	Shall not be depressed below 6.5 nor raised above 8.5. Changes in normal ambient pH levels shall not exceed 0.5 units in fresh waters with designated COLD or WARM beneficial uses.				
Phosphorus			Shall not exceed 0.05 mg/l in any steam at the point where it enters any standing body of water, nor 0.025 mg/l in any standing body of water; for flowing waters, shall not exceed 0.1 mgl total P. These values not to be exceeded more than 10% of the time.				
Radioactivity, Gross Alpha					15 pCi/l		15 pCi/I (12)
Radioactivity, Gross Beta					50 pCi/l		4 mrem/yr
Radium 226 + 228					5 pCi/l		5 pCi/l / 20 pCi/l (13)
Selenium	15				10		50
Settleable solids			Shall not contain suspended and settleable solids in concentrations that result in the deposition of solids that cause nuisance or adversely affect beneficial uses.				
Silver	0.7		beneficial asss.		50		100
Sodium			60% Na; or as noted in Table 3-1	60% Na; or as noted in Table 3-2			
Strontium-90					8 pCi/l		
Sulfate			65 mg/l; or as noted in Table 3-1	60 mg/l; or as noted in Table 3-2		250,000 (7)	400,000 - 500,000 (13)
Total dissolved solids (TDS)			300 mg/l; or as noted in Table 3-1	350 mg/l; or as noted in Table 3-2		500,000 (11)	
Thallium	14						2 (8)
Tritium					20,000 pCi/l		
Turbidity		Shall not be less than 50% of the depth at locations where measurement is made by means of a standard Secchi disk, or as noted in Chapter 3 page 30.	shall be free of changes in turbidity that	5 NTU; or as noted in Table 3-2. Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses.		5 units	1 to 5 units
Uranium					20 pCi/l		$20 \mu \text{g/I} = 30 \text{pCi/I}$ (13)
Zinc	20					5,000	

Table C-1 -- Values are in ug/l (ppb) unless otherwise indicated. Numbers in parenthesis indicate endnotes following the tables.

	Drinking Water Standards		California			US EPA Integrated			Incremental	California	A. i. It
Inorgania	(Fe	d e r a l) Contaminant	Recommended Public Health		dverse-Response SNARLs)	Risk Information System (IRIS)	Cal/EPA Cancer	er Risk Estimates f USEPA	or Drinking Water USEPA	Proposition 65	Agricultural Water
Inorganic		vels	Level (RPHL)		than cancer risk	Reference Dose	Potency Factor	Integrated	Health Advisory	Regulatory Level as a	Quality
Constituent		SEPA	Department of	National Academ		4	as a Water Quality	_	or SNARL	Water Quality	Goals (21)
	Secondary MCL		Health Services	USEPA	of Sciences (NAS)	Criterion (16)	Criterion (17)		5. 5. m	Criterion (19)	300.0 (2.)
Ammonia				30,000 (14)					(D)		
Antimony		6 (8)		3		2.8			(D)		
Arsenic								0.02	0.02 (A,14)	5	100
Beryllium		4 (8)		4,000 / 20,000 (7-yr,14,15)				0.008	0.008 (B,14)	(18)	100
Boron				600 (14)		630			(D)		750 (22) /700
Bromide					2,300						
Cadmium		5		5	5	3.5	(18)		(D)	(18)	10
Chloride	250,000										106,000
Chlorine						1,050			(D)		
Chromium (III)											
Chromium (VI)							0.083		(A)	(18)	100
Chromium (total)		100		100		35			(D)		
Color	15 units										
Copper	1,000	1,300							(D)		200
Cyanide		200 (8)		200		150			(D)		
Fluoride	2,000	4,000				840			(D)		1,000
Iron	300										5,000
Lead		zero							(B)	0.25 (20)	5,000
Manganese	50					980					200
Mercury (inorganic)		2	2 (13)	2		2.1			(D)		
Nickel		100 (8)		100		140	(18)		(D)	(18)	200
Nitrate		10,000 (2)		10,000 (2)		11,000 (2)			(D)		
Oxygen, dissolved											

Table C-1 -- Values are in ug/l (ppb) unless otherwise indicated. Numbers in parenthesis indicate endnotes following the tables.

	Drinking Wa	ater Standards	California		lvisories or	US EPA Integrated			Incremental	California	
Inorganic		d e r a l) Contaminant	Recommended Public Health		dverse-Response SNARLs)	Risk Information System (IRIS)	Cal/EPA Cancer	er Risk Estimates	USEPA	Proposition 65	Agricultural Water
		evels	Level (RPHL)		r than cancer risk	Reference Dose	Potency Factor	Integrated	Health Advisory	Regulatory Level as a	Quality
Constituent		SEPA	Department of	TOT TOXICITY OTHE		l .	as a Water Quality	-	Ī	Water Quality	
	Secondary MCL		Health Services	USEPA	National Academy of Sciences (NAS)	Criterion (16)	•	System (IRIS)	or SNARL	Criterion (19)	Goals (21)
	Secondary WCL	MCL Goal	nealth Services			Criterion (16)	Criterion (17)	System (Inis)			
рН	6.5 to 8.5										
	unts										
Phosphorus				0.1 (23)					(D)		
Radioactivity, Gross Alpha		zero							(A)		
Radioactivity, Gross Beta		zero							0.04 mrem/yr (A,14)		
Radium 226 + 228		zero (13)							0.22-0.26 pCi/l (A,14)		
Selenium		50				35					20
Settleable solids											
Silver				100 (14)		35			(D)		
Sodium				2,000 (24)							
Strontium-90									(A)		
Sulfate	250,000	400,000 - 500,000 (13)									
Total dissolved solids (TDS)	500,000										450,000
Thallium		0.5 (8)		0.4		0.5					
Tritium									(A)		
Turbidity											
Uranium		zero (13)			35				1.7 pCi/l (A)		
Zinc	5,000			2,000		2,100			(D)		2,000

Table C-1 -- Values are in ug/l (ppb) unless otherwise indicated. Numbers in parenthesis indicate endnotes following the tables.

		USEPA	National	Ambient	Wate	er Quality	/ Criteria	a				
		th and Welfare		Fresh water A quatic Life Protection Recommended Criteria Additional Toxicity Information								
Inorganic		Protection	<u> </u>	Rec	o m m e i	nded Crit	eria .	Addition	al Toxicity In	formation		
Constituent	Non-Cancer Public Health Effects	One-in-a-Million Incremental Cancer Risk Estimate	Taste & Odor or Welfare	Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)	Maximum (Instantaneous)	Acute	Chronic	Other		
Ammonia				(26)		(26)						
Antimony	14 / 4300 (25)			30 (13,27)		88 (13,27)		9,000	1,600	610 (42)		
Arsenic		0.018 / 0.14 (25)		190 (27)		360 (27)		850 (41)		48 (43)		
Beryllium								130	5.3			
Boron												
Bromide												
Cadmium				0.55 (28,29)		1.4 (28,36)						
Chloride	250,000			230,000 (30)		860,000 (30)						
Chlorine				11 (31)		19 (31)						
Chromium (III)				98 (28,32)		820 (28,37)						
Chromium (VI)				11		16						
Chromium (total)												
Color												
Copper			1000	5.4 (28,33)		7.5 (28,38)						
Cyanide	700 / 220,000 (25)			5.2		22						
Fluoride												
Iron			300				1000					
Lead				0.99 (28,34)		25 (28,39)						
Manganese			50									
Mercury (inorganic)	0.14 / 0.15 (25)			0.012		2.4						
Nickel	610 / 4600 (25)			73 (28,35)		653 (28,40)						
Nitrate	10,000 (2)											
Oxygen, dissolved				(22)	(22)							

Table C-1 -- Values are in ug/l (ppb) unless otherwise indicated. Numbers in parenthesis indicate endnotes following the tables.

		USEPA	National	Ambient						
	H e a	Ith and Welfare Protection					atic Life Prot	ection		
Inorganic		Rec	ommer	eria	Additional Toxicity Information					
Constituent	Non-Cancer Public Health Effects	One-in-a-Million Incremental Cancer Risk Estimate	Taste & Odor or Welfare	Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)	Maximum (Instantaneous)	Acute	Chronic	Other
рН			5 to 9 units				6.5 to 9.0 units			
Phosphorus										
Radioactivity, Gross Alpha										
Radioactivity, Gross Beta										
Radium 226 + 228										
Selenium				5		20				
Settleable solids										
Silver				0.12 (13)		0.84 (28,44)			0.12	
Sodium										
Strontium-90										
Sulfate			250,000							
Total dissolved solids (TDS)										
Thallium	1.7 / 6.3 (25)							1,400	40	20 (46)
Tritium										
Turbidity										
Uranium										
Zinc						54 (28,45)				

Table C-1 -- Values are in ug/l (ppb) unless otherwise indicated. Numbers in parenthesis indicate endnotes following the tables.

	USEPA			iter Quality		eria	California Ocean Plan						
Inorganic	Recomm		Aquatic Lit	fe Protectio Additional To:		rmation	Human Health	Numerical Water Quality Objectives					
Constituent	Continuous Concentration (4-day Average)	Maximum Concentration (1-hour)	Maximum (Instantaneous)	Acute	Chronic	Other	Protection (30-day Average)	6-month	30-day	7-day	Life Protec	Instantaneous	
	(au / / troinge/	(1-Hour)					"‡" = carcinogen	Median	Average	Average	Maximum	Maximum	
Ammonia	35 (47)	233 (47)						600 (2)			2,400 (2)	6,000 (2)	
Antimony	500 (13,27)	1,500 (13,27)					1,200						
Arsenic	36 (27)	69 (27)		2,319 (41)		13 (43)		8			32	80	
Beryllium							0.033 ‡						
Boron													
Bromide													
Cadmium	9.3	43						1			4	10	
Chloride													
Chlorine	7.5 (48)	13 (48)						2 (3)			8 (3)	60 (3)	
Chromium (III)				10,300 (49)			190,000						
Chromium (VI)	50	1,100						2 (4)			8 (4)	20 (4)	
Chromium (total)								2 (4)			8 (4)	20 (4)	
Color													
Copper	2.9	2.9						3			12	30	
Cyanide	1	1						1			4	10	
Fluoride													
Iron													
Lead	5.6	140						2			8	20	
Manganese			100										
Mercury (inorganic)	0.025	2.1						0.04			0.16	0.4	
Nickel	8.3	75						5			20	50	
Nitrate													
Oxygen, dissolved													

Table C-1 -- Values are in ug/l (ppb) unless otherwise indicated. Numbers in parenthesis indicate endnotes following the tables.

	USEPA National Ambient Water Quality Criteria Saltwater Aquatic Life Protection							California Ocean Plan Numerical Water Quality Objectives					
Inorganic	Recomm		riteria	Additional To		rmation	Human Health						
Constituent	Continuous Concentration (4-day Average)	Maximum Concentration (1-hour)	Maximum (Instantaneous)	Acute	Chronic	Other	Protection (30-day Average)	6-month Median	30-day Average	7-day Average	Daily Maximum	Instantaneous Maximum	
рН			6.5 to 8.5 units				"‡" = carcinogen	Wedian	Avoidge	Avoidge	Waxiiidii	6.0 to 9.0 units	
Phosphorus			0.1 (50)										
Radioactivity, Gross Alpha												15 pCi/l (12)	
Radioactivity, Gross Beta												50 pCI/I	
Radium 226 + 228												5 pCi/l	
Selenium	71	300						15			60	150	
Settleable solids									1,000	1,500		3,000	
Silver	0.92 (13)	2.3						0.7			2.8	7	
Sodium													
Strontium-90												8 pCi/l	
Sulfate													
Total dissolved solids (TDS)													
Thallium				2,130			14						
Tritium												20,000 pCi/l	
Turbidity									75 NTU	100 NTU		225 NTU	
Uranium												20 pCi/l	
Zinc	86	95						20			80	200	

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