

Attachment Three

Tables of WQOs, Criteria, and Guidelines applied during the assessment of readily available data.

Table 1. Basin Plan Numeric Water Quality Objectives (CRBRWQCB, 2006).

Constituent	Water Quality Objective	units (WW)	Beneficial Use
Arsenic	0.05	ppm	MUN
Barium	1	ppm	MUN
Cadmium	0.01	ppm	MUN
Chromium (total)	0.05	ppm	MUN
coliform (fecal)	The fecal coliform concentration based on a minimum of not less than five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100 ml, nor shall more than ten percent of total samples during any 30-day period exceed 400 MPN per 100 ml.	MPN/100ml	RECI
2,4-D	0.1	ppm	MUN
Endrin	0.002	ppm	MUN
Enterococci/E. coli	<div><div><div><div><u>REC I</u></div><div>E. coli 126 per 100 ml</div><div>enterococci 33 per 100 ml</div></div><div><div><u>REC II</u></div><div>630 per 100 ml</div><div>165 per 100 ml</div></div></div><div>nor shall any sample exceed the following maximum allowables:</div><div><div><div><div><u>REC I</u></div><div>E. coli 400 per 100 ml</div><div>enterococci 100 per 100 ml</div></div><div><div><u>REC II</u></div><div>2000 per 100 ml</div><div>500 per 100 ml</div></div></div><div>except that for the Colorado River, the following maximum allowables shall apply:</div><div><div><div><div><u>REC I</u></div><div>E. coli 235 per 100 ml</div><div>enterococci 61 per 100 ml</div></div><div><div><u>REC II</u></div><div>1175 per 100ml</div><div>305 per 100 ml</div></div></div></div></div></div>	MPN/100ml	RECI/RECII
Flouride	<div><div>Annual Average of Maximum <u>Daily Air Temperature</u></div><div><div><div><div><div></div><div>Degrees Fahrenheit</div><div>below 53.8</div></div><div><div>Degrees Celsius</div><div>below 12.1</div><div>53.8 to 58.3</div><div>58.4 to 63.8</div><div>63.9 to 70.6</div><div>70.7 to 79.2</div><div>79.3 to 90.5</div></div><div><div><div><div><u>Lower</u></div><div>0.9</div></div><div><div><u>Optimum</u></div><div>1.2</div></div><div><div><u>Upper</u></div><div>1.7</div></div><div><div><u>Maximum Contaminant Level</u></div><div>2.4</div></div></div><div><div><div><div><u>Lower</u></div><div>0.8</div></div><div><div><u>Optimum</u></div><div>1.1</div></div><div><div><u>Upper</u></div><div>1.5</div></div><div><div><u>Maximum Contaminant Level</u></div><div>2.2</div></div></div><div><div><div><div><u>Lower</u></div><div>0.8</div></div><div><div><u>Optimum</u></div><div>1.0</div></div><div><div><u>Upper</u></div><div>1.3</div></div><div><div><u>Maximum Contaminant Level</u></div><div>2.0</div></div></div><div><div><div><div><u>Lower</u></div><div>0.7</div></div><div><div><u>Optimum</u></div><div>0.9</div></div><div><div><u>Upper</u></div><div>1.2</div></div><div><div><u>Maximum Contaminant Level</u></div><div>1.8</div></div></div><div><div><div><div><u>Lower</u></div><div>0.7</div></div><div><div><u>Optimum</u></div><div>0.8</div></div><div><div><u>Upper</u></div><div>1.0</div></div><div><div><u>Maximum Contaminant Level</u></div><div>1.6</div></div></div><div><div><div><div><u>Lower</u></div><div>0.6</div></div><div><div><u>Optimum</u></div><div>0.7</div></div><div><div><u>Upper</u></div><div>0.8</div></div><div><div><u>Maximum Contaminant Level</u></div><div>1.4</div></div></div></div></div></div></div></div></div></div></div></div></div>	ppm	MUN
Lead	0.05	ppm	MUN

Constituent	Water Quality Objective	units (WW)	Beneficial Use
Lindane (gamma hexachloro-cyclohexane)	0.004	ppm	MUN
Mercury	0.002	ppm	MUN
Methoxychlor	0.1	ppm	MUN
Nitrate (as N)	10	ppm	MUN
Oxygen (dissolved)	<p>The dissolved oxygen concentration shall not be reduced below the following minimum levels at any time:</p> <p><u>Waters designated:</u></p> <p>WARM5.0 mg/l</p> <p>COLD 8.0 mg/l</p> <p>WARM and COLD8.0 mg/l</p>	ppm	WARM/COLD
Radioactivity	<p>Maximum Contaminant Level, pc/L</p> <p><u>Constituent</u></p> <p>Combined Radium-226 and Radium-228 5</p> <p>Gross Alpha particle activity (including Radium-226 but excluding Radon and Uranium) 15</p> <p>Tritium 20,000</p> <p>Strontium-90 8</p> <p>Gross Beta particle activity 50</p> <p>Uranium 20</p>	pc/L	MUN
Salinity	<p>The flow-weighted average annual numeric criteria for salinity (total dissolved solids) were established at three locations on the lower Colorado River:</p> <p><u>Salinity in mg/l</u></p> <p>Below Hoover Dam, AZ-NV 723</p> <p>Below Parker Dam, AZ-CA 747</p> <p>Imperial Dam, AZ-CA 879</p>	ppm	

Constituent	Water Quality Objective	units (WW)	Beneficial Use																					
Selenium	<p>The following objectives apply to all surface waters that are tributaries to the Salton Sea:</p> <p>1. A four day average value of selenium shall not exceed .005 mg/L;</p> <p>2. A one hour average value of selenium shall not exceed .02 mg/L.</p>	ppm																						
Silver	0.05	ppm	MUN																					
TDS (Total Dissolved Solids)	<p>Any discharge, excepting discharges from agricultural sources, shall not cause concentration of total dissolved solids (TDS) in surface waters to exceed the following limits</p> <table><thead><tr><th></th><th colspan="2">TDS (mg/L)</th></tr><tr><th></th><th><u>Annual Ave.</u></th><th><u>Maximum</u></th></tr></thead><tbody><tr><td>New River</td><td>4000</td><td>4500</td></tr><tr><td>Alamo River</td><td>4000</td><td>4500</td></tr><tr><td>Imperial Valley Drains</td><td>4000</td><td>4500</td></tr><tr><td>Coachella Valley Drains</td><td>2000</td><td>2500</td></tr><tr><td>Palo Verde Valley Drains</td><td>2000</td><td>2500</td></tr></tbody></table>		TDS (mg/L)			<u>Annual Ave.</u>	<u>Maximum</u>	New River	4000	4500	Alamo River	4000	4500	Imperial Valley Drains	4000	4500	Coachella Valley Drains	2000	2500	Palo Verde Valley Drains	2000	2500	ppm	
	TDS (mg/L)																							
	<u>Annual Ave.</u>	<u>Maximum</u>																						
New River	4000	4500																						
Alamo River	4000	4500																						
Imperial Valley Drains	4000	4500																						
Coachella Valley Drains	2000	2500																						
Palo Verde Valley Drains	2000	2500																						
2,4,5-TP (Silvex)	0.01	ppm	MUN																					
Toxaphene	0.005	ppm	MUN																					

Table 2. California Toxics Rule criteria (USEPA, 2000).

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
Acenaphthene			1,200	2,700
Acenaphthylene				
Acrolein			320	780
Acrylonitrile			0.059	0.66
Aldrin	3		0.00013	0.00014
alpha-BHC			0.0039	0.013
alpha-Endosulfan	0.22	0.056	110	240
Anthracene			9,600	110,000
Antimony			14	4,300
Arsenic	340	150		
Asbestos			7,000,000	
Benzene			1.2	71
Benzidine			0.00012	0.00054
Benzo[a]Anthracene			0.0044	0.049
Benzo[a]Pyrene			0.0044	0.049
Benzo(ghi)Perylene				
Benzo[b]Fluorathene			0.0044	0.049

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
Benzo[k]Fluorathene			0.0044	0.049
Beryllium				
beta-BHC			0.014	0.046
beta-Endosulfan	0.22	0.056	110	240
Bis(2-Chloroethoxy)Methane				
Bis(2-Chloroethy)Ether			0.031	1.4
Bis(2-Chloroisopropyl)Ether			1,400	170,000
Bis(2-Ethylhexyl)Phthalate			1.8	5.9
Bromoform			4.3	360
4-Bromophenyl Phenyl Ether				
Butylbenzyl Phthalate			3,000	5,200
Cadmium	Hardness Dependant	Hardness Dependant		
Carbon Tetrachloride			0.25	4.4
Chlordane	2.4	0.0043	0.00057	0.00059
Chlordane (total)				

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
Chlorobenzene			680	21,000
Chlorodibromomethane			0.401	34
Chloroethane				
Chloroform				
2-Chloroethylvinyl Ether				
2-Chloronaphthalene			1,700	4,300
2-Chlorophenol			120	400
4-Chlorophenyl Phenyl Ether				
Chromium (total)	1724	565		
Chromium III	Hardness Dependant	Hardness Dependant		
Chromium (6+)	16	11		
Chrysene			0.0044	0.049

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
Copper	Hardness Dependant	Hardness Dependant	1300	
Cyanide	22	5.2	700	220,000
4,4'-DDD			0.00083	0.00084
DDD (sum)				
4,4'-DDE			0.00059	0.00059
DDE (sum)				
4,4'-DDT	1.1	0.001	0.00059	0.00059
DDT (sum)				
DDTs (total)	1.1	0.001	0.0059	0.0059
delta-BHC				
Dibenzo(a,h)Anthracene			0.0044	0.049
Dichlorobromomethane			0.56	46
1,2-Dichlorobenzene			2,700	17,000
1,3-Dichlorobenzene			400	2,600
1,4-Dichlorobenzene			400	2,600

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
3,3'-Dichlorobenzidene			0.04	0.077
1,1-Dichloroethane				
1,2-Dichloroethane			0.38	99
1,1-Dichloroethylene			0.057	3.2
2,4-Dichlorophenol			93	790
1,2-Dichloropropane			0.52	39
1,3-Dichloropropylene			10	1,700
Dieldrin	0.24	0.056	0.00014	0.00014
Diethyl Phthalate			23,000	120,000
Dimethyl Phthalate			313,000	2,900,000
2,4-Dimethylphenol			540	2,300
Di-n-Butyl-Phthalate			2,700	12,000
4,6-dinitro-2-methylphenol				
2,4-Dinitrophenol			70	14,000
2,4-Dinitrotoluene			0.11	9.1
2,6-Dinitrotoluene				
Di-n-Octyl Phthalate				
1,2-Diphenylhydrazine			0.040	0.54

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
Endosulfan Sulfate			110	240
Endosulfan (total)				
Endrin	0.086	0.036	0.76	0.81
Endrin Aldehyde			0.76	0.81
Ethylbenzene			3,100	29,000
Fluoranthene			300	370
Fluorene			1,300	14,000
gamma-BHC	0.95		0.019	0.063
Heptachlor	0.52	0.0038	0.00021	0.00021
Heptachlor epoxide	0.52	0.0038	0.00010	0.00011
Hexachlorobenzene			0.00075	0.00077
Hexachlorobutadiene			0.44	50
hexachloro-cyclohexane (total) HCH				
hexachlorocyclopentadiene			240	17,000
Hexachloroethane			1.9	8.9
Indeno(1,2,3-cd) Pyrene			0.0044	0.049
Isophorone			8.4	600

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
Lead	Hardness Dependant	Hardness Dependant		
Mercury	1.4	0.77	0.050	0.051
Methyl Bromide			48	4,000
2-Methyl-4,6-Dinitrophenol			13.4	765
3-Methyl-4-Chlorophenol				
Methyl Chloride				
Methylene Chloride (dichloromethane)			5	1,600
Naphthalene				
Nickel	Hardness Dependant	Hardness Dependant	610	4600
Nitrobenzene			17	1,900
2-Nitrophenol				

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
4-Nitrophenol				
N-Nitrosodimethylamine			0.00069	8.1
N-Nitrosodi-n-Propylamine			0.005	1.4
N-Nitrosodiphenylamine			5.0	16
PCBs (total)		0.014	0.00017	0.00017
Pentachlorophenol	19	15	0.28	8.2
Phenanthrene				
Phenol			21,000	4,600,000
Pyrene			960	11,000
Selenium		5		
Silver	Hardness Dependant			
1,1,2,2-Tetrachloroethane			0.17	11
2,3,7,8,-TCDD (Dioxin)			0.00000001.3	0.00000001.4
Tetrachloroethylene			0.8	8.85

Associated Beneficial Uses		WARM, COLD, FRESH, WILD, RARE, AQUA, MUN, COMM		
Constituent	Freshwater Acute (CMC)	Freshwater Chronic (CCC)	Human Health- FW (water & organisms)	Human Health- SW (organisms only)
	ppb (ug/l)			
Thallium			1.7	6.3
Toluene			6,800	200,000
Toxaphene	0.73	0.0002	0.00073	0.00075
1,2-Trans-Dichloroethylene			700	140,000
1,2,4-Trichlorobenzene				
1,1,1-Trichloroethane				
1,1,2-Trichloroethane			0.6	42
Trichloroethylene			2.7	81
2,4,6-Trichlorophenol			2.1	6.5
Vinyl Chloride			2	525
Zinc	Hardness Dependant	Hardness Dependant		

Table3. Primary and Secondary Drinking Water Maximum Contaminant Levels (MCLs) (CCR, Title 22).

Associated Beneficial Use	MUN			
	Constituent	MCLs Title 22 Table 64431-A Primary (inorganics) 64444A (organics)	MCLs Title 22 Table 64449-A (limits) and 64449-B (ranges) Secondary	
		ppm (mg/l)		
	Alachlor	0.002		
	Aluminum	1	0.2	
	Antimony	0.006		
	Arsenic	0.05		
	Asbestos	7 MFL		
	Atrazine	0.001		
	Barium	1		
	Bentazon	0.018		
	Benzene	0.001		
	Benzo[a]Pyrene	0.0002		
	Beryllium	0.004		
	Cadmium	0.005		
	Carbofuran	0.018		
	Carbon Tetrachloride	0.0005		
	Chlordane	0.0001		
	Chloride		Recommended 250 Units	Upper 500 Units Short term 600 Units
	Chromium (total)	0.05		
	Color		15	Units
	Copper		1	
	Corrosivity		Non-corrosive	
	Cyanide	0.15		
	2,4-D	0.07		
	Dalapon	0.2		
	Dibromochloropropane	0.0002		
	1,2-Dichlorobenzene	0.6		

Associated Beneficial Use	MUN			
	Constituent	MCLs Title 22 Table 64431-A Primary (inorganics) 64444A (organics)	MCLs Title 22 Table 64449-A (limits) and 64449-B (ranges) Secondary	
		ppm (mg/l)		
	1,4-Dichlorobenzene	0.005		
	1,1-Dichloroethane	0.005		
	1,2-Dichloroethane	0.0005		
	1,1-Dichloroethylene	0.006		
	cis-1,2-Dichloroethylene	0.006		
	trans-1,2-Dichloroethylene	0.01		
	Dichloromethane	0.005		
	1,2-Dichloropropane	0.005		
	1,3-Dichloropropylene	0.0005		
	Di(2-ethylhexyl)adipate	0.4		
	Di(2-ethylhexyl)phthalate	0.004		
	Dinoseb	0.007		
	Diquat	0.02		
	Endothall	0.1		
	Endrin	0.002		
	Ethylbenzene	0.3		
	Ethylene Dibromide	0.00005		
	Flouride	2		
	Glyphosate	0.7		
	Heptachlor	0.00001		
	Heptachlor epoxide	0.00001		
	Hexachlorobenzene	0.001		
	hexachlorocyclopentadiene	0.05		
	Iron		0.3	
	Lindane (gamma hexachloro- cyclohexane)	0.0002		
	Manganese		0.05	
	MBAS (foaming agent)		0.5	
	Mercury	0.002		

Associated Beneficial Use		MUN		
Constituent	MCLs Title 22 Table 64431-A Primary (inorganics) 64444A (organics)	MCLs Title 22 Table 64449-A (limits) and 64449-B (ranges) Secondary		
	ppm (mg/l)			
Methoxychlor	0.03 (0.04) ¹			
Methly-tert-butyl ether (MTBE)	0.013	0.005		
Molinate	0.02			
Monochlorobenzene	0.07			
Nickel	0.1			
Nitrate (NO ₃)	45			
Nitrate + Nitrite	10			
Nitrite	1			
Odor--Threshold		3	Units	
Oxamyl	0.05			
PCBs (total)	0.0005			
Pentachlorophenol	0.001			
Perchlorate	0.006			
Picloram	0.5			
Selenium	0.05			
Silver		0.1		
Simazine	0.004			
Specific Conductance (umhos)		Recommended 900 units	Upper 1600 Units	Short term 2200 Units
Styrene	0.1			
Sulfate		Recommended 250 units	Upper 500 Units	Short term 600 Units

¹ USEPA Drinking Water Criterion.

Associated Beneficial Use		MUN		
Constituent	MCLs Title 22 Table 64431-A Primary (inorganics) 64444A (organics)	MCLs Title 22 Table 64449-A (limits) and 64449-B (ranges) Secondary		
	ppm (mg/l)			
TDS (Total Dissolved Solids)		Recommended 500 units	Upper 1000 Units	Short term 1500 Units
1,1,2,2-Tetrachloroethane	0.001			
2,3,7,8,-TCDD (Dioxin)	0.00000003			
Tetrachloroethylene	0.005			
Thallium	0.002			
Thiobencarb	0.07	0.001		
2,4,5-TP (Silvex)	0.05			
Toluene	0.15			
Toxaphene	0.003			
1,2,4-Trichlorobenzene	0.005			
1,1,1-Trichloroethane	0.2			
1,1,2-Trichloroethane	0.005			
Trichloroethylene	0.005			
Trichlorofluoromethane	0.15			
1,1,2-Trichloro-1,2,2-Trifluroethane	1.2			
Turbidity		5	Units	
Vinyl Chloride	0.0005			
Xylenes	1.75			
Zinc		5		

Table 4. Miscellaneous Aquatic Life Use Criteria (Siepmann and Finlayson, 2000) (NAS, 1973) (USDOI, 1998).

Associated Beneficial Use		AQUA, WARM, COLD, FRESH WILD RARE				
Constituent	CDFG Hazardous Assessment Criteria (water)	units (WW)	NAS fish tissue guidelines	units (WW)	USFWS Biol. Effects	units (WW)
Aldrin			100	µg/kg		
Arsenic					0.25	ppm
Chlordane (total)			100	µg/kg		
Chlorpyrifos (4-day average)	0.014	µg/L				
Chlorpyrifos (1-hour day average)	0.02	µg/L				
Copper					15	ppm
DDTs (total)			1,000	µg/kg		
Diazinon (4-day average)	0.1	µg/L				
Diazinon (1-hour average)	0.16	µg/L				
Dieldrin			100	µg/kg		
Endosulfan (total)			100	µg/kg		
Endrin			100	µg/kg		
Heptachlor			100	µg/kg		
Heptachlor epoxide			100	µg/kg		
hexachloro-cyclohexane (total) HCH			100	µg/kg		
Lindane (gamma hexachloro- cyclohexane)			100	µg/kg		
PCBs (total)			500	µg/kg		
Toxaphene			100	µg/kg		

Table 5. Fish Consumption Criteria (OEHHA, 1999) (OEHHA, 2008).

Associated Beneficial Use		COMM	
Constituent	OEHHA fish tissue screening values and Fish Contaminant Goals	units (WW)	units converted (WW)
Arsenic	1	mg/kg	ppm
Cadmium	3	mg/kg	ppm
Chlordane (total)	5.6	µg/kg	ppb
Chlorpyrifos (4-day average)	10,000	µg/kg	ppb
DDTs (total)	21	µg/kg	ppb
Diazinon (4-day average)	300	µg/kg	ppb
Dieldrin	0.5	µg/kg	ppb
Dioxin	0.3	ng/kg	ppt
Disulfoton	100	µg/kg	ppb
Endosulfan (total)	20,000	µg/kg	ppb
Endrin	1,000	µg/kg	ppb
Ethion	2,000	µg/kg	ppb
Heptachlor epoxide	4	µg/kg	ppb
Hexachlorobenzene	20	µg/kg	ppb
Lindane (gamma hexachloro-cyclohexane)	30	µg/kg	ppb
Mercury	0.3	mg/kg	ppm
PCBs (total)	3.6	µg/kg	ppb
Selenium	7400	µg/kg	ppb
Toxaphene	6.1	µg/kg	ppb

Table 6. Consensus based Sediment Quality Guidelines (Macdonald et al, 2000).

Associated Beneficial Use	AQUA, WARM, COLD, FRESH WILD RARE		
	Probable Effects Concen.	units (DW)	units converted (DW)
Anthrazene	845	$\mu\text{g/kg}$	ppb
Arsenic	33	mg/kg	ppm
Benz[a]anthrazene	1050	$\mu\text{g/kg}$	ppb
Benzo[a]Pyrene	1450	$\mu\text{g/kg}$	ppb
Cadmium	4.98	mg/kg	ppm
Chlordane	17.6	$\mu\text{g/g}$	ppm
Chromium (total)	111	mg/kg	ppm
Chrysene	1290	$\mu\text{g/kg}$	ppb
Copper	149	mg/kg	ppm
DDD (sum)	28.0	$\mu\text{g/kg}$	ppb
DDE (sum)	31.3	$\mu\text{g/kg}$	ppb
DDT (sum)	62.9	$\mu\text{g/kg}$	ppb
DDTs (total)	572	$\mu\text{g/kg}$	ppb
Dieldrin	61.8	$\mu\text{g/g}$	ppm
Endrin	207	$\mu\text{g/kg}$	ppb
Fluoranthene	2230	$\mu\text{g/kg}$	ppb
Fluorene	536	$\mu\text{g/kg}$	ppb
Lead	128	mg/kg	ppm
Lindane (gamma hexachloro- cyclohexane)	4.99	$\mu\text{g/kg}$	ppb
Mercury	1.06	mg/kg	ppm
Naphthalene	561	$\mu\text{g/kg}$	ppb
Nickel	48.6	mg/kg	ppm
PAHs (total)	22,800	$\mu\text{g/kg}$	ppb
PCBs (total)	676	$\mu\text{g/kg}$	ppb
Phenanthrene	1170	$\mu\text{g/kg}$	ppb
Pyrene	1520	$\mu\text{g/kg}$	ppb
Zinc	459	mg/kg	ppm