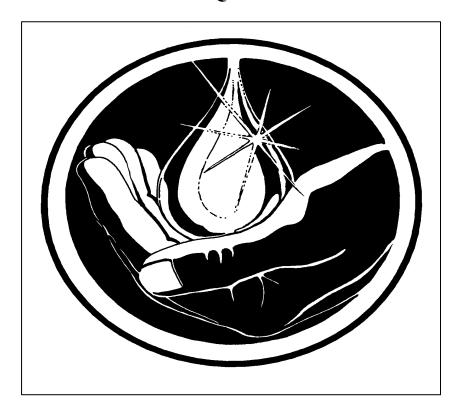
CIRCULAR DEQ-7

MONTANA NUMERIC WATER QUALITY STANDARDS



Montana Department of Environmental Quality
Planning, Prevention, and Assistance Division - Water Quality Standards Section
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CIRCULAR DEQ-7

Introduction

This document contains numeric water quality standards for Montana's surface and ground waters. The standards were developed in compliance with Section 75-5-301, MCA of the Montana Water Quality Act and Section 303(c) of the Federal Clean Water Act (CWA). Together, those provisions of state and federal law require the adoption of standards that will protect the designated beneficial uses of state waters, such as the support of aquatic life, public water supplies, recreation, or agriculture. The numeric water quality standards in this Circular have been established for parameters (i.e., "pollutants") that are categorized as toxic, carcinogenic, bioconcentrating, radioactive, nutrient, or harmful. In addition, the Circular contains ground water standards for pesticides developed in compliance with the Montana Agricultural Chemical Ground Water Protection Act (80-15-201, MCA).

Montana's numeric water quality standards were developed using guidance from the U.S. Environmental Protection Agency (EPA). EPA's guidance for water quality standards includes criteria for priority pollutants (PP) and non-priority pollutants (NPP) developed under Section 304 of the CWA, health advisories (HA), National Recommended Water Quality Criteria (NRWQC), and drinking water criteria referred to as Maximum Contaminant Levels (MCL). Publications containing EPA guidance include: 1986 Quality Criteria for Water, EPA 440/5/86-001 (the "Gold Book") and numerous updates; Toxics Criteria for those States not Complying with Clean Water Act 303(c)(2)(B); (The National Toxics Rule [NTR]) which was published in the Code of Federal Regulations, 40 CFR 131.36 (1992); Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; (62 F.R. 42159 [1997]); National Recommended Water Quality Criteria :2002 (EPA 822-R-02-047); and 2004 Edition of the Drinking Water Standards and Health Advisories (EPA 822-R-04-005). In general, the most recent EPA guidance was used to develop the standards in this Circular.

CIRCULAR DEQ-7 is regularly updated as additional information or guidance from EPA becomes available. Accordingly, readers should ensure that they are using the edition incorporated into the Board's current rules regarding water quality standards.

CIRCULAR DEQ-7 is a complex document. In addition to providing the numeric water quality standards for each parameter, the Circular also contains the primary synonyms of each parameter, the Chemical Abstracts Service Registry Number (CASRN) number for each chemical, the categorization of each parameter according to the type of pollutant, the bioconcentration factor if known, trigger values used to determine "significance" under Montana's nondegradation policy, and required reporting values. The Department will provide electronic copies of this document upon request or the document may be retrieved from the Department WEB site at, http://www.deq.mt.gov/wqinfo/Circulars/DEQ-7.PDF. Use of an electronic copy will enable the reader to search for synonyms or CASRN numbers. Such searches will make this document easier to use. Parameters are listed in alphabetical order. In order to facilitate listing by alphabetical order, parameters that are normally written with the numbers first are listed with the numbers last. For example, 2,4-Dinitrophenol is listed as Dinitrophenol, 2,4-.

There are many explanatory notes following the table portion of CIRCULAR DEQ-7. Footnotes referencing the explanatory notes are found in both the table headings and in individual line items. The notes following the table explain various aspects of the standards. For example, the standards for some metals, ammonia, dissolved oxygen, and phenol, cover a range of values that are computed by using a complex formula, or depend upon special circumstances.

Rules Containing Montana's Water Quality Standards

The Administrative Rules of Montana (ARM), 17.30.620 through 17.30.670, contain numeric surface water quality standards that vary with each stream classification. Examples of numeric standards that change under each stream classification include Eschierichia coli bacteria, color, turbidity, pH, and temperature. Montana's surface water rules also contain narrative standards. Narrative standards are also contained in Montana's rules for ground water (ARM 17.30.1001 through 17.30.1045). The narrative standards cover a number of parameters, such as alkalinity, chloride, hardness, sediment, sulfate, total dissolved solids and nutrients (for surface water), for which sufficient information does not exist to develop specific numeric standards.

Statutory Basis and Assumptions Used to Develop Water Quality Standards

Carcinogens: The Montana Water Quality Act requires that human health standards for carcinogens be the more restrictive of either of the following: (1) the risk-based level of one in one hundred thousand [1x10-5] for all carcinogens except arsenic, which is based upon one in one thousand [1x10-3]; or, (2) the MCL. For surface water the risk-based levels given in EPA's NRWQC criteria were used or, if not available, health advisory (HA) information was used. In cases where a risk-based level was not available, the most recent RfD or cancer potency factor (q1*) in IRIS was used to compute the standard. In cases where no risk-based levels were available for known carcinogens, the standards in this Circular are based on toxic effects. Ground water standards are based on EPA Drinking Water Health Advisories, NRWQC or IRIS information.

<u>Bio-concentrating:</u> The human health standards for carcinogens and other parameters that exhibit bio-concentration properties were developed using the assumption that there are two routes of exposure: through consumption of water and fish. EPA's water quality criteria are derived using an average fish consumption rate of 17.5 grams/day. Montana has not conducted its own fish consumption survey. The standards in this Circular use EPA's recommended average daily fish consumption value.

Pesticides: The Montana Agricultural Chemical Ground Water Protection Act requires that MCLs be adopted as ground water standards for pesticides if MCLs are available. If no MCLs or other federal criteria are available, standards must be developed using available data on health effects (reference dose, [RfD]) and standard assumptions. The standard assumptions used assume that 2 liters of water are consumed per day and adults weighing seventy kilograms are exposed for 70 years (life long exposure) to a single source of water. When information was available, a relative source contribution (RSC) factor was also applied. The RSC is the percentage of a parameter's intake through drinking water versus other dietary sources. A RSC of 0.2 was used in most cases to develop ground water standards for pesticides. In some cases, no data was available to develop a water quality standard for a pesticide in surface water. In these cases, the ground water standard (developed for a pesticide according to the risk-base analysis provided above) was also adopted as a surface water standard. The Integrated Risk Information System (IRIS) or other federal data sources were used when the EPA's most recent drinking water regulations and health advisories did not include data for a pesticide.

<u>Toxins:</u> The surface water quality standards for human health toxins are the more restrictive of the MCL or the NRWQC criteria. The ground water standards for human health toxins are based on the drinking water MCL or if a MCL is not available the NRWQC criteria.

Aquatic life: The standards for aquatic life are based on the most recent National Recommended Water Quality Criteria (NRWQC) published by EPA.

CIRCULAR DEQ-7, MONTANA NUMERIC WATER QUALITY STANDARDS ₍₉₎											
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	hat a Standard has not been							1			
Pollutant	CASRN, NIOSH and SAX			e Standards (16)	Bioconcentration	Human Health St		Trigger Value	Required		
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting		
Acenaphthene	83329 or 83-32-9	Toxic			242	670	670	N/A	10		
§§	NIOSH: AB 1255500										
§ 3Acenaphthalene § Naphthyleneethylene § 1,8-Ethyleneaphthalene § 1,8-Ethylene	SAX: AAE750					DD.	DD.				
Naphthalene § 1,2-Dihydroacenphthylene § Acenphthylene, 1,2-Dihydro-	(2477, 50.0	G				PP	PP	N/A			
Acifluorfen 88 Blazer	62476-59-9	Carcinogen				10	10	N/A			
						HA	HA				
§ Tackle § Scepter § as sodium salt Acrolein	107028 or 107-02-8	Carcinogen			215	190	190	0.7	20		
Acroiein §§ Aqualine	NIOSH: AS 1050000	Carcinogen			215	190	190	0.7	20		
§ Biocide § Crolean § Aqualin § Propenal § SHA 00701	SAX: ADR000										
§ 2-propenal § Acraldehyde § Acrylaldehyde § Acrylic Aldehyde § Ethylene Aldehyde	SAA: ADRUUU					22	77				
	700(1 70.0(.1	Construction	1			PP	PP 0.08				
Acrylamide §§ 2-Propenamide	79061 or 79-06-1 NIOSH: AS 3325000	Carcinogen				0.08	0.08				
• •	SAX: ADS250										
§ Propenamide§ Acrylic Amide § Ethylenecarboxamide § RCRA Waste Number U007		~ .				HA	HA				
Acrylonitrile	107131 or 107-13-1	Carcinogen			30	0.51	0.6	N/A	20		
§§ Fumigrain	also listed as 75-05-8										
§ Ventox § ENT 54 § TL 314 § Carbacryl § Cyanoethylene	NIOSH: AT 5250000										
§ Vinyl cyanide § Propenenitrile § 2-Propenenitrile § Acrylonitrile monomer	SAX: ADX500					77	** .				
§ RCRA Waste Number U009	75-05-8	G .				PP	HA	N7/4	0.4		
Alachlor	15972608 or	Carcinogen				2	2	N/A	0.4		
§§ Lasso	15972-60-8 NIOSH: AE 1225000										
§ Lazo § Alator § Alanex § Alochlor § Pillarzo § Metachlor § Chimiclor § SHA 090501 § Methachlor § 2-Chloro-N-(2,6-Diethyl)Phenyl-N-	SAX: CFX000										
Methoxymethylacetamide § 2-Chloro-2',6'-Diethyl-N-(Methoxymethyl)Acetanilide	SAA: CFA000					MCL	MCL				
Aldicarb	116063 or 116-06-3	Toxic	 			2	MICL 2	1	1		
§§ Temik	NIOSH: UE 2275000	TOXIC				3	3	1	1		
§ Temic § Ambush § OMS 771 § Temik G 10 § Aldecarb § Carbamyl	SAX: CBM500										
§ SHA 098301 § Carbanolate § Sulfone Aldoxycarb § Union Carbide 21149	BANK CHINESOU										
§ RCRA Waste Number P070 § Propanal, 2-Methyl-2-(Methylthio)-, O-											
[(Methylamino)Carbonyl]Oxime						MCL	MCL				
Aldicarb Sulfone	1646884 or 1646-88-4	Toxic				3	3	2	1		
§§ Aldoxycarb	NIOSH: UE 2080000										
§ Standak § UC 21865 § Sulfocarb § SHA 110801 § Propionaldehyde, 2-Methyl-2-	SAX: AFK000		1								
(Methylsulfonyl)-, O-(Methylcarbomoyl)Oxime § 2-Methyl-2-(Methylsulfonyl)Propanal O-											
[(Methylamino)Carbonyl]Oxime						MCL	MCL				
Aldicarb Sulfoxide	1646873 or 1646-87-3	Toxic				4	4	2	1		
§§	NIOSH:										
	SAX:					MCL	MCL				

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					(2)				
Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates the Pollutant	at a Standard has not been CASRN. NIOSH and SAX			y unavailable. A '(e Standards (16)	Bioconcentration	Human Health St		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Required
		<u> </u>		Chronic (4)	. , , , ,				
Aldrin	309002 or 309-00-2 NIOSH: IO 2100000	Carcinogen	1.5		4,670	0.00049	0.02	N/A	0.2
§§									
§ HHDN § Altox § Drinox § Aldrex § Aldrite § Seedrin § Octalene	SAX: AFK250								
§ SHA 045101 § RCRA Waste Number P004 § Hexachlorohexahydro-endo-exo-									
Dimethanonaphthalene § 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8, 8a-Hexahydro-1,4,5,8-									
Dimethanonaphthalene § 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-									
Hexahydro-endo,exo- § 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-Hexa-Hydro-1,4:5,8-Endo,Exo-									
Dimethanonaphthalene § 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-Hexahydro-1,4-endo-exo-5,8-			DD			DD	TT 4		
Dimethanonaphthalene	Nr. 14' - 1 -	G	PP			PP	HA	N/A	
Alpha Emitters (11)	Multiple	Carcinogen /				1.5 pico-curies/liter	1.5 pico-	N/A	
§§		Radioactive				***	curies/liter		
§ Gross Alpha § Adjusted Gross Alpha	5402540 5402 54 0	G .			11100	HA	HA	37/4	0.4
alpha-Chlordane	5103719 or 5103-71-9	Carcinogen			14,100	0.0080	1	N/A	0.4
§§ -Chlordane	NIOSH: PB 9705000					P.P.	** .		
§ cis-Chlordan § cis-Chlordane § c (cis)-Chlordane § Chlordane, cis-Isomer	SAX: CDR675	G .			120	PP	HA		
alpha-Hexachlorocyclohexane	319846 or 319-84-6	Carcinogen			130	0.026	0.026	N/A	0.1
§§	NIOSH: GV 3500000								
§ Benzene Hexachloride-§-isomer § a-BHC § alpha-BHC § HCH-alpha	SAX: BBQ000								
§ alpha-HCH § alpha-Lindane § a Hexachlorocyclohexane									
§ alpha-Benzenehexachloride § Hexachlorocyclohexane-alpha § alpha-									
Hexachlorocyclohexane § Benzene Hexachloride-alpha-isomer § alpha-1,2,3,4,5,6-									
Hexachlorocyclohexane									
§ Cyclohexane, alpha-1,2,3,4,5,6-Hexachloro- § 1-alpha,2-alpha,3-beta,4-alpha,5-beta,6-beta									
Hexachlorocyclohexane § Cyclohexane, alpha-1,2,3,4,5,6-Hexachloro-, (1-alpha, 2-alpha, 3-beta, 4	•					DD.	DD.		
alpha, 5-beta, 6-beta)-	5420005 5420 00 5	m •	750	87		PP	PP	30	30
Aluminum, dissolved, pH 6.5 to 9.0 only (9)	7429905 or 7429-90-5	Toxic	750	87				30	30
§§ Al	NIOSH: BD 0330000		NDD	NIDD					
A	SAX: AGX000	m	NPP	NPP		CO	60		
Ametryn	834-12-8	Toxic				60	60		
§§ Ametrex Ammonia [total ammonia nitrogen (NH3-N plus NH4-N)] as mg/l N	7664417 7664 41 7	Tania	(7)(9)	(7)(9)		HA	HA	10	50
	7664417 or 7664-41-7	Toxic	(7)(8)	(7)(8)				10	50
§§	NIOSH: BO 0875000		NPP	NPP					
§ Ammonia Anhydrous § Anhydrous Ammonia § Spirit of Hartshorn	SAX: AMY500	m • -	INPP	NPP		2.000	2.000	1	
Ammonium Sulfamate	7773-06-0	Toxic				2,000	2,000		
§§	120127 120 12 7	m • -			30	HA 9.200	HA	0.04	0.2
Anthracene (PAH)	120127 or 120-12-7	Toxic			30	8,300	2,100	0.04	0.2
§§ Paranaphthalene	NIOSH: CA 9350000					DD	TT A		
§ Green Oil § Anthracin § Tetra Olive N2G	SAX: APG500					PP	HA		

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	WATER Q	UALITY STA	NDARDS ₍₉₎				
Except where indicated, values are listed as micro-grams-per-liter (μg/L). A '' indicates th	at a Standard has not been	adopted or informa	ation is currently	v unavailable. A ')' indicates that a detail	ed note of explanation	ı is provided.		
Pollutant	CASRN, NIOSH and SAX			e Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Antimony	7440360 or 7440-36-0	Toxic			1	5.6	6	0.4	3
§§ Sb	NIOSH: CC 4025000								
§ Antimony Black § Antimony Regulus § C.I. 77050 § Stibium	SAX: AQB750					PP	MCL		
Arsenic	7440382 or 7440-38-2	Carcinogen	340	150	44	see footnote 29	see footnote 29	N/A	3
§§ As	NIOSH: CG 0525000								
§ Arsenicals § Arsenic-75 § Arsenic Black § Colloidal Arsenic	SAX: ARA750								
§ Grey Arsenic § Metallic Arsenic			PP	PP					
Asbestos, fibers longer than 10 microns in length	Multiple	Carcinogen				7,000,000	7,000,000	N/A	
§§						fibers/liter	fibers/liter		
§ Amianthus § Amosite (Obs.) § Amphibole § Asbestos Fiber									
§ Fibrous Grunerite § NCI CO8991 § Serpentine, includes Chrysotile, Actinolite, Aurosite,									
Anthophyllite, Crocidolite, and Tremolite						MCL	MCL		
Atrazine	1912249 or 1912-24-9	Carcinogen				3	3	0.1	0.6
§§	NIOSH: XY 5600000								
§ Aatrex § Aktikon § Atrasine § Atred § Candex § Crisatrina § Crisazine	SAX: PMC325								
§ Cyazin § Fenamin § Fenamine § Zeaphos § Fenatrol § Gesaprim									
§ Hungazin § Inakor § Primatol § Malermais § Radazin § Radizine § Shell Atrazine									
herbicide § Strazine § Zeazine § SHA 080803 § 1-Chloro-3-Ethylamino-5-Isopropylamino-									
2,4,6-Triazine § s-Triazine, 2-Chloro-4-Ethylamino-6-Isopropylamino- § 2-Chloro-4-									
Ethylamino-6-Isopropylamino-s-Triazine § 6-Chloro-N-Ethyl-N'-(1-Methylethyl)-1,3,5-Triazine-									
2, 4-Diamine	T440202 T440 20 2	m .				MCL	MCL	-	_
Barium	7440393 or 7440-39-3	Toxic				2,000	2,000	2	5
§§ Ba	NIOSH: CA 8370000		NDD	NDD		MOT	MOT		
D M. d l	SAX: BAH250	m *-	NPP	NPP		MCL	MCL		
Bentazon Methyl	50723-80-3 25057-89-0	Toxic				200	200		
§§	25057-89-0					TTA	TTA		
§ Basagran Benzene	71432 or 71-43-2	Carcinogen			5,2	HA 5	HA 5	N/A	0.5
SS	NIOSH: CY 1400000	Carcinogen			5.2	3	5	IN/A	0.5
§ Phene § Benzol § Benzolene § Pvrobenzol § Carbon Oil § SHA 109301	SAX: BBL250								
§ Coal Naphtha § Motor Benzol § Phenyl hydride § Cyclohexatriene C	SAA: DDL230								
§ Caswell Number 077 § RCRA Waste Number U019									
§ EPA Pesticide Chemical Code 008801 § NCI C55276						MCL	MCL		
Benzidine	92875 or 92-87-5	Carcinogen			87.5	0.00086	0.00086	N/A	20
\$\$	NIOSH: DC 9625000	Curcinogen			J	0.0000	0.0000		[
§ p,p'-Bianiline § 4,4'-Bianiline § 4,4'-Biphenyldiamine § p,p'-Diaminobiphenyl	SAX: BBX000								
§ 4,4'-Diaminodiphenyl § RCRA Waste Number U021 § 4,4'-Biphenylenediamine § 4,4'-									
Diphenylenediamine § Biphenyl, 4,4'-Diamino- § 4,4'-Diamino-1,1'-Biphenyl § (1,1'-Biphenyl)	.								
4,4'-Diamine § NCI C03361						PP	PP		

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at a Standard has not been	adopted or informa	tion is currently	y unavailable. A '()' indicates that a detail	led note of explanation	n is provided.					
· · · · · · · · · · · · · · · · · · ·		Aquatic Lif	e Standards (16)	Bioconcentration	Human Health S	tandards (17) (3)	Trigger Value	Required			
Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting			
191242 or 191-24-2	Toxic			30			0.076	10			
NIOSH: DI 6200500											
SAX: BCR000											
50328 or 50-32-8	Carcinogen			30	0.038	0.05	N/A	0.10			
SAX: BCS750											
					<u> </u>						
	Carcinogen			30	0.038	0.5 (30)	N/A	0.10			
SAX: BAW250											
	~ .										
	Carcinogen			30	0.038	5 (30)	N/A	0.10			
SAX: BCJ750											
	~ .										
	Carcinogen			30	0.038	0.5 (30)	N/A	0.10			
SAX: BBC250											
9											
					nn.	** *					
7440417 7440 41 7	Canainasan			10	PP 4	HA 4	NI/A	1			
	Carcinogen			19	4	4	N/A	1			
					MCI	MCI					
	Carainagan/						NI/A				
Munipie	0				0.7 IIII CIII / YI	0.4 IIII eIII / yi	IV/A				
	Nauluactive				на	на					
91587 or 91-58-7	Toxic			202			0.94	10			
	LOME				1,000	1,000	0.27				
SAX: CJA000		1		1	1		1	1			
	at a Standard has not been CASRN, NIOSH and SAX Numbers 191242 or 191-24-2 NIOSH: DI 6200500 SAX: BCR000 50328 or 50-32-8 NIOSH: DJ 3675000 SAX: BCS750 205992 or 205-99-2 NIOSH: CU 1400000 SAX: BAW250 207089 or 207-08-9 NIOSH: DF 6350000 SAX: BCJ750 56553 or 56-55-3 NIOSH: CV 9275000 SAX: BBC250 e 7440417 or 7440-41-7 NIOSH: DS 1750000 SAX: BFO750 Multiple 91587 or 91-58-7 NIOSH: QJ 2275000	Carcinogen Carcinogen	CASRN, NIOSH and SAX Numbers Aquatic Lift Acute (3)	At a Standard has not been adopted or information is currently unavailable. A '(CASRN, NIOSH and SAX Numbers	CASRN, NIOSH and SAX Numbers Category (1) (2) Aquatic Life Standards (16) Acute (3) Chronic (4) Acute (17) Chronic (180) Chronic (180)	Activation Act	Active A	Activity Activity			

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	WATER Q	UALITY STA	NDARDS ₍₉₎				
Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates the	at a Standard has not been	adopted or informa	tion is currently	v unavailable. A '()' indicates that a detail	ed note of explanation	ı is provided.		
Pollutant	CASRN, NIOSH and SAX	_		e Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
beta-Hexachlorocyclohexane	319857 or 319-85-7	Carcinogen			130	0.091	0.091	N/A	0.1
§§	NIOSH: GV 4375000								
§ B-BHC § beta-BHC § HCH-beta § beta-HCH § B-Lindane § beta-Lindane	SAX: BBR000								
§ beta-Hexachlorobenzene § ß Hexachlorocyclohexane § Hexachlorocyclohexane-beta §									
Hexachlorocyclohexane, beta- § trans-alpha-Benzenehexachloride									
§ Cyclohexane, 1,2,3,4,5,6-Hexachloro-, beta- § 1-alpha,2-beta,3-alpha,4-beta,5-alpha,6-beta-									
Hexachlorocyclohexane § Cyclohexane, 1,2,3,4,5,6-Hexachloro-, (1-alpha, 2-beta, 3-alpha, 4-									
beta, 5-alpha, 6-beta)- § Benzenehexachloride, trans-alpha- § beta-1,2,3,4,5,6-									
Hexachlorocyclohexane						PP	PP		
Bis(2-Chloroisopropyl) Ether	108601 or 108-60-1	Toxic			2.47	1,400	1,400	0.8	10
§§	NIOSH: KN 1750000						,		
§ DCIP § NCI C50044 § RCRA Waste Number U027	SAX: BII250								
§ Dichlorodiisopropyl Ether § 2,2'-Oxybis(1-Chloropropane) § Bis (2-Chloroisopropyl) ether §	39638-32-9								
Propane, 2,2'-Oxybis(2-Chloro- § Propane, 2,2'-Oxybis[1-Chloro- § 2',2'-Dichlorodiisopropyl									
Ether § Dichlorodiisopropyl Ether (DOT) § Bis(2-Chloro-1-Methylethyl) Ether									
						PP	PP		
Bis(2-Chloroethoxy)Methane	111911 or 111-91-1	Toxic			0.64			0.5	
§§	NIOSH: PA 3675000								
§ Bis(ß-Chloroethyl)Formal	SAX: BID750								
Bis(Chloroethyl)Ether	111444 or 111-44-4	Carcinogen			6.9	0.30	0.30	N/A	10
§§	NIOSH: KN 0875000								
§ BCEE § DCEE § Clorex § Chlorex § Chloroethyl Ether	SAX: BIC750								
§ Dichloroethyl Ether § Dichloroethyl Oxide § RCRA Waste Number U025									
§ Bis(Chloroethyl) Ether § Di(2-Chloroethyl) Ether § Bis (Chloroethyl) Ether § Bis(2-									
Chloroethyl) Ether § Bis(B-Chloroethyl) Ether § B,B'-Dichloroethyl Ether									
§ 2,2'-Dichloroethyl Ether § Bis (2-Chloroethyl) Ether § 1,1'-Oxybis(2-Chloro)Ethane §									
Ethane, 1,1'-Oxybis[2-Chloro- § beta,beta'-Dichloroethyl Ether § 1-Chloro-2-(beta-									
Chloroethoxy)Ethane						PP	PP		
Bis(Chloromethyl)Ether	542881 or 542-88-1	Carcinogen			63	0.0010	0.0010	N/A	10
§§	NIOSH: 1575000								
§ BCME § bis-CME § Chloromethyl Ether § Oxybis(Chloromethane)	SAX: BIK000								
§ RCRA Waste Number P016 § Bis (Chloromethyl) Ether § sym-Dichlorodimethyl Ether §									
1,1'-Dichlorodimethyl Ether § Dimethyl-1,1'-Dichloroether § Chloro(Chloromethoxy)									
Methane						NPP	NPP		
Bromacil	314-40-9	Carcinogen				90	90	N/A	0.5
§§ Hyvar									
§					1	HA	HA		
Bromodichloromethane (HM)	75274 or 75-27-4	Carcinogen			3.75	5.5	10	N/A	0.5
§§ Dichlorobromomethane	NIOSH: PA 5310000								
§ BDCM § NCI C55243 § Methane, bromodichloro-	SAX: BND500								
§ Dichloromonobromomethane § Monobromodichloromethane						PP	HA	1	

Execute New Indicated, values are liked a universe grown per life (**pgf.).** A **-* indicated that as Shandard has not been adopted or informations is surrouthry unavailable.** A **-* indicated that as Shandard has not been adopted or informations is surrouthry unavailable.** A **-* indicated that as Shandard has not been adopted or informations is surrouthry unavailable.** A **-* indicated that as Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted or information in the Shandard has not been adopted in the Shandard has not been ad	CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	WATER Q	UALITY STA	NDARDS ₍₉₎				
Careling Compounder Condition Casses No. No. 19 Careling Casses	Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates the	at a Standard has not been	adonted or informs	ntion is currently	v unavailable. A '()' indicates that a detail	ed note of explanation	ı is provided.		
Semonform (11)									Trigger Value	Required
Homother (H14) St. Tribrommethane St. Tribrom	Element / Chemical Compound or Condition	'								
St. Tribromonethane NOSH: PF 5000000 NX; RN 1000 NX; RN 10	Bromoform (HM)	75252 or 75-25-2				3.75	43	80	N/A	0.5
S.N.C. EST-100 S.N.C. ENT-000 S.N.		NIOSH: PB 5600000								
Number 1225	§ NCI C55130 § Methane, Tribromo- § Methenyl Tribromide § RCRA Waste	SAX: BNL000								
\$8 Methy Bromite \$100 Culture \$ Dorsfurne \$ Methogas \$ SIA 053201 \$ Brome-O-Sal \$ Brome-O-Gas \$ Brome-O							PP	HA		
SENDED & Celtime & Downtame & Methogue & SILA 05201 & Brome-O-Gue & Contingen & Cont	Bromomethane (HM)	74839 or 74-83-9	Toxic			3.75	47	10	0.11	0.5
\$ Bromo-GGas § Holm 1001 is Terr-O-Cide § Bromo-Gas § Bromo-Gas § Bromo Methane \$ Methylbromids § Methyl Bromids § Methyl Bro	§§ Methyl Bromide	NIOSH: PA 4900000								
Strome Methanie Methylpromide Methane, Bromo- Monophylpromide Methane, Bromo- Monophylpromide Methane, Bromo- Monophylpromide	§ EDCO § Celfume § Dowfume § Methogas § SHA 053201 § Brom-O-Sol	SAX: BNM500								
Second protection 169-94-9 Carcinogen 169-94-94-9 Carcinogen 169-94-94-9 Carcinogen 169-94-94-9 Carcinogen 169-94-94-9 Carcinogen 169-94-94-94-9 Carcinogen 169-94-94-94-9 Carcinogen 169-94-9	§ Brom-O-Gas § Terr-O-Gas § Halon 1001 § Terr-O-Cide § Bromo-O-Gas									
Bromovynil 1699-84-9 Carcinogen 3.4 3.4 1.50 1.500 1.5	§ Bromo Methane § Methylbromide § Methyl Bromide § Methane, Bromo-									
Segro Section Segro Section Segro Section Segro Section Segro Section Section Segro Section Segro Section Segro Section Segro Section Segro Section Segro	§ Monobromomethane § RCRA Waste Number U029						PP	HA		
Solid Barly Barl	Bromoxynil	1689-84-9	Carcinogen				3.4			
SEPP \$ \$\text{Stol 160 } \text{ Unimol BB } \text{ Palatinol BB } \text{ Santicizer } 160 \ \text{ Suty Pathalate } \text{ Palatinol BB } \text{ Santicizer } 160 \ \text{ Suty Pathalate } \text{ Palatinol BB } \text{ Santicizer } 160 \ \text{ Suty Pathalate } \text{ Palatinol BB } \text{ Santicizer } 160 \ \text{ Suty Pathalate } \text{ Palatinol BB } Pal										
S BPB Sicol 160 \$ Unimol BB \$ Palatino BB \$ Santitizer 160 Sulytheraphthalate \$ Benzyl Butyl Phthalate \$ Benzyl Butyl Ester \$ Butyl Phthalate \$ Benzyl Butyl Ester \$ Butyl Phthalate \$ Benzyl Butyl Ester \$ Butyl Buty						414	1,500	1,500	N/A	10
Sutylbenzyl phthalate Surylbenzyl Phthalate Sury			BCF >300							
Pathalate & Benzyl n-Butyl Pfthalate & Phthalic Acid, Benzyl Butyl Ester & Butyl Phenylmethyl 1,2-Benzeneticarboxylate \$ 1,2-Benzeneticarboxylate \$ 1,2-Benzeneticarboxylate & 2,2-Dimethyl-2,3-Dihydro-2,2-Dimethyl-7-Benzofuranyl N-Methylcarbamate & Carbonn Tetrachloride & Rote of Factorine & Haloul 104 & Tetrachoromethane & Carbonn Tetrachromethane & Carbonn Tetr		SAX: BEC500								
Phenylmethyl 1,2-Benzenedicarboxylate § 1,2-Benzenedicarboxylate § 1,2-Benzenedicarboxylate § 1,2-Benzenedicarboxylate § 1,2-Benzenedicarboxylate § 1,2-Benzenedicarboxylate § 2008-41-5										
Butylate 2008-41-5 Carcinogen 400 400 N/A \$8 Sutan \$8 7440439 or 7440-43-9 Toxic .										
\$\start{\stint{\stint{\start{\start{\start{\start{\stint{\stint{\stint{\stint{\stint{\s	Phenylmethyl 1,2-Benzenedicarboxylate § 1,2-Benzenedicarboxylic Acid, Butyl Phenylmethyl									
Second S	· ·	2008-41-5	Carcinogen				400	400	N/A	
Cadmium										
NIOSH: EU 9800000 SAX: CAD000 SAX: CAD0000 SAX: CAD00000 SAX: CAD000000 SAX: CAD00000 SAX: CAD000000 SAX: CAD00000 SAX: CAD00000 SAX: CAD00000 SAX: CAD00000 SAX: CAD000000 SAX: CAD	o						HA	HA		
\$ C.I. 77180 § Colloidal Cadmium SAX: CAD000 (12) (13) (14) (14) (15) (14) (15) (15) (16) (Toxic			64	5	5	0.1	0.08
Carbary Saving Seving	00 - "			8	8					
Carbaryl Sevin S	§ C.I. 77180 § Colloidal Cadmium	SAX: CAD000								
\$\\$\ \\$\ \\ \\$\ \\ \\ \\ \\ \\ \\ \\ \\ \		CO 07 0	m .	PP	PP					
\$		63-25-2	Toxic				700	700	2	
Carbofuran	88 Sevin						TT A	TT 4		
\$\frac{\circ}{\circ}\$ \ Yaltox \\$ Euradan \\$ Furadan \\$ Curaterr \\$ Furacarb \\$ SHA 090601 \ SAX: FPE000 \ SAX: GPY000 \ SAX: GPY000 \ SAX: GPY000 \ SAX: CBY000 \ SAX: CB	§ Conheferon	1563662 on 1563 66 2	Torio						1	1
§ Yaltox § Euradan § Furadan § Curaterr § Furacarb § SHA 090601 § Niagra 10242 § 2,2-Dimethyl-7-Coumaranyl N-Methylcarbamate § 2,2-Dimethyl-2,3-Dihydro-7-Benzofuranyl N-Methylcarbamate § Carbamic Acid, Methyl-, 2,3-Dihydro-2,2-Dimethyl-7-Benzofuranyl Ester Carbon Tetrachloride § Freon 10 § R 10 § Univerm § Tetrasol § Fasciolin § Flukoids § Necatorina § Necatorine § Halon 104 § Tetraform § Carbon Tet § Benzinoform § Carbon Chloride § Perchloromethane § Tetrachloromethane			TOXIC				40	40	1	ı
§ Niagra 10242 § 2,2-Dimethyl-7-Coumaranyl N-Methylcarbamate § 2,2-Dimethyl-2,3-Dihydro-7-Benzofuranyl N-Methylcarbamate § Carbamic Acid, Methyl-, 2,3-Dihydro-2,2-Dimethyl-7-Benzofuranyl Ester Carbon Tetrachloride § Freon 10 § R 10 § Univerm § Tetrasol § Fasciolin § Flukoids § Necatorina § Necatorine § Halon 104 § Tetraform § Carbon Tet § Benzinoform § Carbon Chloride § Perchloromethane § Tetrachloromethane										
7-Benzofuranyl N-Methylcarbamate § Carbamic Acid, Methyl-, 2,3-Dihydro-2,2-Dimethyl-7- Benzofuranyl Ester Carbon Tetrachloride § Freon 10 § R 10 § Univerm § Tetrasol § Fasciolin § Flukoids § Necatorina § Necatorine § Halon 104 § Tetraform § Carbon Tet § Benzinoform § Carbon Chloride § Perchloromethane										
Benzofuranyl Ester Carbon Tetrachloride \$ Freon 10 \$ NIOSH: FG 4900000 \$ R 10 \$ Univerm \$ Tetrasol \$ Fasciolin \$ Flukoids \$ Necatorina \$ Necatorine \$ Halon 104 \$ Tetraform \$ Carbon Tet \$ Benzinoform \$ Carbon Chloride \$ Perchloromethane		7								
Carbon Tetrachloride \$ Freon 10 \$ R 10 \$ Univerm \$ Tetrasol \$ Fasciolin \$ Flukoids \$ Necatorina \$ Necatorine \$ Halon 104 \$ Tetraform \$ Carbon Tet \$ Benzinoform \$ Carbon Chloride \$ Perchloromethane							MCI.	MCI.		
§§ Freon 10 § R 10 § Univerm § Tetrasol § Fasciolin § Flukoids § Necatorina § NECatorine § Halon 104 § Tetraform § Carbon Tet § Benzinoform § Carbon Chloride § Perchloromethane		56235 or 56-23-5	Carcinogen			18.75		3	N/A	0.5
§ R 10 § Univerm § Tetrasol § Fasciolin § Flukoids § Necatorina § Necatorine § Halon 104 § Tetraform § Carbon Tet § Benzinoform § Carbon Chloride § Perchloromethane										
§ Necatorine § Halon 104 § Tetraform § Carbon Tet § Benzinoform § Carbon Chloride § Perchloromethane										
§ Carbon Chloride § Perchloromethane § Tetrachloromethane										
							PP	НА		

CIRCUL	AR DEQ-7, MONT	ANA NUMERIO	C WATER Q	UALITY STA	NDARDS ₍₉₎				
	at a Standard has not bee				(-)	ed note of explanation	ı is provided.		
Pollutant	CASRN, NIOSH and SA	X	Aquatic Li	fe Standards (16)	Bioconcentration	Human Health S	tandards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Carboxin	5234-68-4	Toxic				700	700	1	
§§ Vitavax									
§						HA	HA		
Chloramben	133-90-4	Toxic				100	100		
§§ Vegiben									
§						HA	HA		
Chlordane	57749 or 57-74-9	Carcinogen	2.4	0.0043	14,100	0.0080	1	N/A	0.4
§§ Termex	NIOSH: PB 9800000								
§ Belt § Niran § Dowchlor § Chlortox § Chlordan § Clordano	SAX: CDR750								
§ Chlor Kil § Toxichlor § Octa-Klor § Ortho-Klor § SHA 058201									
§ Gold Crest C-100 § Chlordane, Technical § RCRA Waste Number U036 § Octachloro-4, 7-									
Methanohydroindane § Octachlorodihydrodicyclopentadiene § 1,2,4,5,6,7,8,8-Octachloro-									
3a,4,7,7a-Hexahydro § Octachloro-4,7-Methanotetrahydroindane-4,7-Methylene Indane § 4,7-									
Methanoindan, 1,2,4,5,6,7,8,8-Octachloro-3a,4,7,7a-tetrahydro- § 1,2,4,5,6,7,8,8-Octachloro-									
2,3,3a,4,7,7a-Hexahydro-4,7-Methano-Indene § 4,7-Methano-1H-Indene 1,2,4,5,6,7,8,8-									
Octachloro-2,3,3a,4,7,7a-Hexahydro-			DD.	DD.		DD	** *		
Chlorimuron Ethyl	90982-32-4	Toxic	PP	PP		PP 700	HA 700	0.1	
\$ Classic	90982-32-4	TOXIC				700	700	0.1	
§§ Classic						НА	на		
S Chlorine, total residual	7782505 or 7782-50-5	Toxic	19	11		4.000	4,000		
§§ Cl	NIOSH: FO 2100000	TOXIC	15	11		4,000	4,000		
§ Bertholite § Chlorine, molecular § Molecular Chlorine	SAX: CDV750		NPP	NPP		MCL	MCL		
Chlorobenzene	108907 or 108-90-7	Toxic			10.3	100	100	0.5	0.5
§§ Monochlorobenzene	NIOSH: CZ 0175000	20.20			2010	100	100	0.2	0.0
§ MCB § Chlorobenzol § Chlorbenzene § Phenyl Chloride § Benzene Chloride	SAX: BBM750								
§ Benzene, Chloro- § Monochlorbenzene § RCRA Waste Number U037									
§ NCI C54886						MCL	MCL		
Chloroethane	75003 or 75-00-3	Toxic						0.52	
§§ Ethyl Chloride	NIOSH: KH 7525000								
§ Aethylis § Aethylis Chloridum § Anodynon § Chelen § Chlorethyl § Chloridum §	SAX: EHH000								
Chloryl § Chloryl Anesthetic § Ether Chloratus § Ether Hydrochloric § Ether Muriatic §									
Hydrochloric Ether § Kelene § Monochlorethane § Muriatic Ether § Narcotile § NCI									
C06224									
Chloroform (HM)	67663 or 67-66-3	Carcinogen			3.75	57	70	N/A	0.5
§§ Trichloromethane	NIOSH: FS 9100000								
§ TCM § Freon 20 § Trichloroform § R-20 Refrigerant § Methenyl Chloride	SAX: CHJ500								
§ Formyl Trichloride § Methyl Trichloride § Methane Trichloride									
§ Methane, Trichloro- § Methenyl Trichloride § RCRA Waste Number U044									
§ NCI CO2686	<u> </u>				1	PP	HA		
Chlorophenol, 2-	95578 or 95-57-8	Toxic			134	81	81	0.3	10
§§ Phenol, 2-Chloro	NIOSH: SK 2625000								
§ o-Chlorophenol § 2-Chlorophenol § Phenol, o-Chloro- § RCRA Waste	SAX: CJK250					22	DD		
Number U048						PP	PP		

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	C WATER O	UALITY STAI	NDARDS ₍₀₎				
	at a Standard has not been				(2)	ad note of evalenation	is provided		
Pollutant	CASRN, NIOSH and SAX			e Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Chlorophenyl Phenyl Ether, 4-	7005723 or 7005-72-3	Toxic with			1,200				
§§	NIOSH:	BCF >300							
§ 4- Chlorophenyl Phenyl Ether	SAX:								
Chlorsulfuron	64902-72-3	Toxic				1750	1750		
§§ Glean §§ Telar						HA	HA		
Chlorothalonil	1897-45-6	Carcinogen				15	15	N/A	
§§ Bravo									
§						HA	HA		
Chlorpyrifos	2921882 or 2921-88-2	Toxic	0.083	0.041		20	20	0.25	1
§§ Dursban	NIOSH: TF 6300000								
§ Ethion § Brodan § Eradex § Lorsban § Pyrinex § NA 2783	SAX: DYE000								
§ Piridane § DowCo 179 § SHA 059101 § Ethion, dry § Chlorothalonil § Chlorpyrifos-Ethyl									
§ O,O-Diethyl O-3,5,6-Trichloro-2-Pyridyl Phosphorothioate § Phosphorothioic Acid, O,O-									
Diethyl O-(3,5,6-Trichloro-2-Pyridyl) Ester			NPP	NPP		HA	HA		
Chromium, all forms	7440473 or 7440-47-3	Toxic				100	100	1	1
§§ Cr	NIOSH: GB 4200000								
§ Chrome	SAX: CMI750					MCL	MCL		
Chromium, hexavalent	18540299 or	Toxic	16	11	16				5
§§ Chromium (VI)	18540-29-9								
§	NIOSH:								
	SAX:		PP	PP					
Chromium, trivalent	16065831 or	Toxic	579@25mg/l	27.7 @ 25 mg/l	16			1	
§§ Chromium (III)	16065-83-1								
§	NIOSH:		hardness(12)	hardness (12)					
	SAX:		PP	PP					
Chrysene (PAH)	218019 or 218-01-9	Carcinogen			30	0.038	50 (30)	N/A	0.10
§§	NIOSH: GC0700000								
§ Benz(a)Phenanthrene § Benzo(a)Phenanthrene § 1,2-Benzphenanthrene	SAX: CML810								
§ 1,2-Benzophenanthrene § RCRA Waste Number U050 § 1,2,5,6-Dibenzonaphthalene						PP	HA		
cis-1,2-Dichloroethylene	156592 or 156-59-2	Toxic				70	70	0.002	0.5
§§	NIOSH: KV 9420000								
§ 1,2-Dichloroethylene § cis-Dichloroethylene § cis-1,2-Dichloroethene	SAX: DFI200								
§ 1,2,cis-Dichloroethylene § ethylene, 1,2-Dichloro-, (z)-						MCL	MCL		
cis-1,3-Dichloropropene	10061015 or	Carcinogen			1.91	3.4	4	N/A	0.5
§§ Telone II	10061-01-5								
§ 1,3-Dichloropropene § 1,3-Dichloropropylene § (Z)-1,3-Dichloropropene	NIOSH: UC 8325000								
§ cis-1,3-Dichloropropylene § 1-Propene, 1,3-Dichloro-, (Z)-	SAX: DGH200					PP	HA		
Clopyralid	1702-17-6	Toxic				3,500	3,500	1	
§§ Stinger									
§		1				I	I		

CIRCULA	AR DEQ-7, MONTA	ANA NUMERIO	C WATER O	UALITY STAI	NDARDS ₍₀₎				
	t a Standard has not been				(3)	ed note of explanatio	n is provided		
Pollutant	CASRN. NIOSH and SAX			e Standards (16)	Bioconcentration		Standards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Color	N/A	Harmful				(18)	(18)		5 UNITS
§§									
Copper	7440508 or 7440-50-8	Toxic	3.79@25mg/l	2.85@25 mg/l	36	1,300	1,300	0.5	1
§§ Cu	NIOSH: GL 5325000		hardness(12)	hardness (12)					
§ Allbri Natural Copper § ANAC 110 § Arwood Copper § Bronze Powder	SAX: CNI000								
§ CDA 101 § CDA 102 § CDA 110 § CDA 122 § C.I. 77400 § C.I. Pigment Metal 2 §									
Copper Bronze § 1721 Gold § Gold Bronze § Kafar Copper									
§ M1 (Copper) § M2 (Copper) § OFHC Cu § Raney Copper			PP	PP		PP	PP		
Cyanazine	21725-46-2	Toxic				1.0	1.0	N/A	
§§ Bladex									
§						HA	HA		
Cyanide, total	57125 or 57-12-5	Toxic	22	5.2	1	140	200		5
§§	NIOSH: GS 7175000								
§ Cyanide § Isocyanide § RCRA Waste Number P030 § Cyanides, includes soluble salts and	SAX: COI500								
complexes			PP	PP		PP	MCL		
Dacthal	1861-32-1	Toxic				70	70	0.025	
§§ DCPA									
§						HA	HA		
Dalapon	75990 or 75-99-0	Toxic				200	200	1.3	3
§§ Revenge	NIOSH: UF 0690000								
§ Dalpon § Unipon § Dowpon § Radapon § Basinex § Ded-Weed	SAX: DGI400								
§ Dalacide § Gramevin § Crisapon § Dalpon Sodium § 2,2-Dichloropropionic Acid § SHA									
28902, for sodium salt § SHA 28901, for dalapon only Propionic Acid, 2,2-Dichloro- § Sodium									
2,2-Dichloropropionate § a-Dichloropropionic Acid § a,a-Dichloropropionic Acid § alpha-alpha									
Dichloropropionic Acid						MCL	MCL		
Dalapon, sodium salt	127208 or 127-20-8	Toxic				200	200	1.3	3
§§ Dalpon	NIOSH: UF 1225000								
§ Unipon § Dowpon § Radapon § Revenge § Basinex § Ded-Weed	SAX: DGI600								
§ Dalacide § Gramevin § Crisapon § Dalpon Sodium § Sodium Dalapon									
§ 2,2-Dichloropropionic Acid § SHA 28902, for sodium salt § SHA 28901, for dalapon only §									
Propionic Acid, 2,2-Dichloro- § Sodium 2,2-Dichloropropionate									
§ alpha-alpha-Dichloropropionic Acid						MCL	MCL		
delta-Hexachlorocyclohexane	319868 or 319-86-8	Carcinogen			130			N/A	0.1
§§	NIOSH: GV 4550000								
§ -BHC § delta-BHC § HCH-delta § delta-HCH § -BHC § -Lindane	SAX: BFW500								
§ delta-Lindane § Hexachlorocyclohexane § delta-Benzenehexachloride									
§ Hexachlorocyclohexane-delta § Hexachlorocyclohexane, delta- § Cyclohexane, delta-									
$1,2,3,4,5,6\text{-}Hexachloro-\ \ \ \ \ delta-1,2,3,4,5,6\text{-}Hexachlorocyclohexane} \ \ \ \ 1\text{-}alpha,2\text{-}alpha,3\text{-}alpha,4\text{-}alph$									
beta,5-alpha,6-beta-Hexachlorocyclohexane § Cyclohexane, delta-1,2,3,4,5,6-Hexachloro-, (1-									
alpha, 2-alpha, 3-alpha, 4-beta, 5-alpha, 6-beta)-						PP	PP		

CIDCIII	AR DEQ-7, MONTA	NA NIIMEDIC	VWATED	JIAI ITV CTAI	ND A DDC				
	at a Standard has not been					led note of explanation	n is provided		
Pollutant	CASRN. NIOSH and SAX			<u>y unavanabie. A (</u> fe Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Demeton	8065483 or 8065-48-3	Toxic		0.1		1.4	1.4	0.25	
§§ Systox	NIOSH: TF 3150000								
§ Bay 10756 § Bayer 8169 § Demox § Diethoxy Thiophosphoric Acid Ester of 2-	SAX: DAO600								
Ethylmercaptoethanol § O.O-Diethyl 2-Ethylmercaptoethyl Thiophosphate § O.O-Diethyl									
O(and S)-2-(Ethyl-Thio)Ethyl Phosphorothioate Mixture § E 1059 § ENT 17,295 §									
Mercaptophos § Systemox § Systox § ULV § Demeton-O + Demeton-S				NPP		HA	HA		
Di(2-Ethylhexyl)Phthalate (PAE)	117817 or 117-81-7	Carcinogen			130	6	6		6
§§ Bis(2-Ethylhexyl)Phthalate	NIOSH: TI 0350000								
§ BEHP § DEHP § Octoil § Fleximel § Flexol DOP § Kodaflex DOP	SAX: BJS000								
§ Ethylhexyl Phthalate § Diethylhexyl Phthalate § 2-Ethylhexyl Phthalate									
§ Di(Ethylhexyl)phthalate § Di(2-Ethylhexyl)phthalate									
§ Bis (2-Ethylhexyl) Phthalate § Bis(2-Ethylhexyl)-1,2-Benzene-Dicarboxylate § 1,2-									
Benzenedicarboxylic Acid, Bis(2-Ethylhexyl)Ester						MCL	MCL		
Di(2-Ethylhexyl)Adipate	103231 or 103-23-1	Carcinogen				300	300	N/A	6
§§ Hexanedioic Acid	NIOSH: AU 9700000	8							
§ DEHA § BEHA § Bisoflex DOA § Effemoll DOA § Ergoplast AdDO § Flexol A 26 § PX-	SAX: AEO000								
238 § Reomol DOA § Vestinol OA § Wickenol 158 § Kodaflex DOA § Monoplex DOA §									
NCI C54386 § Octyl Adipate § Dioctyl Adipate § Di-2-Ethylhexyl Adipate § Di (2-Ethylhexyl)									
Adipate § Bis(2-Ethylhexyl) Adipate § Adipic Acid, Bis(2-Ethylhexyl) Ester § Hexanedioic									
Acid, Bis(2-Ethylhexyl) Ester						HA	HA		
Diazinon	333-41-5	Toxic				0.6	0.6	0.25	
§§						HA	HA		
Dibenz[a,h]Anthracene (PAH)	53703 or 53-70-3	Carcinogen			30	0.038	0.05 (30)	N/A	0.10
§§	NIOSH: HN 2625000	o o					` '		
§ DBA § DB(a,h)A § Dibenz(a,h)Anthracene § RCRA Waste Number U063	SAX: DCT400								
§ Dibenzo(a,h)anthracene § 1,2:5,6-Benzanthracene § Dibenzo (a,h) Anthracene § 1,2,5,6-									
Dibenzanthracene § 1,2:5,6-Dibenz(a)Anthracene						PP	HA		
Dibromochloromethane (THM)	124481 or 124-48-1	Carcinogen			3.75	4.0	4.0	N/A	0.5
§§ Monochlorodibromomethane	NIOSH: PA 6360000								
§ CDBM § NCI C55254 § Chlorodibromomethane § Methane, Dibromochloro-	SAX: CFK500					PP	PP		
Dibromoethane, 1,2-	106934 or 106-93-4	Carcinogen				0.004	0.004	N/A	0.5
§§ Ethylene Dibromide	NIOSH: KH 9275000								
§ DBE § EDB § Nephis § Kopfume § Celmide § E-D-Bee § Soilfume	SAX: EIY500								
§ Bromofume § Dowfume 40 § SHA 042002 § Pestmaster § Soilbrom-40									
§ Dibromoethane § Ethylene Bromide § Glycol Dibromide									
§ 1,2-Dibromoethane § 1,2-Ethylene Dibromide § RCRA Waste Number U067						HA	HA		

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	C WATER Q	UALITY STA	NDARDS ₍₉₎				
Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates the	at a Standard has not been	adonted or informs	ation is currently	v unavailable. A 'C)' indicates that a detail	ed note of explanation	n is provided.		
Pollutant	CASRN, NIOSH and SAX			e Standards (16)	Bioconcentration		tandards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Dibutyl Phthalate	84742 or 84-74-2	Toxic			89	2.000	2.000	0.25	10
§§	NIOSH: TI 0875000					_,			
§ DPB § Celluflex DPB § Elaol § Hexaplas M/B § Palatinol C§ Polycizer DBP § PX 104 §									
Staflex DBP § Witcizer § SHA 028001 § Butylphthalate § N-Butylphthalate § Di-n-									
Butylphthalate § Di-n-Butylphthalate § Dibutyl-o-Phthalate § Di-n-Butyl Phthalate § RCRA									
Waste Number U069 § Phthalic Acid Dibutyl Ester § Dibutyl 1,2-Benzene Dicarboxylate § 1,2-									
Benzenedicarboxylic Acid Dibutyl Ester § 1,2-Benzenedicarboxylic Acid, Dibutyl Ester §									
Benzene-o-Dicarboxylic Acid Di-n-Butyl Ester									
						PP	PP		
Dicamba	1918-00-9	Toxic				200	200	0.28	
§§ Banvel									
§						HA	HA		
Dichlorobenzene, 1,2-	95501 or 95-50-1	Toxic			55.6	420	600	0.02	10
§§ DCB	NIOSH: CZ 4500000								
§ ODB § ODCB § Dizene § Cloroben § Chloroben	SAX: DEP600								
§ Termitkil § Dilatin DB § Dowtherm E § Dilantin DB § o-Dichlorobenzene									
§ Orthodichlorobenzene § ortho-Dichlorobenzene § Special Termite Fluid									
§ Benzene, 1,2-Dichloro- § RCRA Waste Number U070						PP	MCL		
Dichlorobenzene, 1,3-	541731 or 541-73-1	Toxic			55.6	320	600	0.006	10
§§ Benzene, 1,3-Dichloro	NIOSH: CZ 4499000								
§ M-Dichlorobenzene § m-Dichlorobenzene	SAX: DEP699								
§ 1,3-Dichlorobenzene-	10010 10010					PP	HA	27/4	40
Dichlorobenzene, 1,4-	106467 or 106-46-7	Carcinogen			55.6	75	75	N/A	10
§§ Benzene, 1,4-Dichloro-	NIOSH: CZ 4550000								
§ 1,4- Dichlorobenzene § PDB § PDCB § NCI C54955 § Evola § Paradi	SAX: DEP800								
§ Paradow§ Persia-Perazol § Paracide § Parazene § Paramoth § Santochlor § Paranuggets § di-Chloricide § Para Chrystals § p-Dichlorobenzene									
§ Caswell Number 632 § Paradichlorobenzene § para-Dichlorobenzene									
§ RCRA Waste Number U070 § RCRA Waste Number U071 § RCRA Waste Number U072 §									
p-Chlorophenyl Chloride § EPA Pesticide Chemical Code 061501						MCL	MCL		
Dichlorobenzidine, 3,3'-	91941 or 91-94-1	Carcinogen			312	0.21	0.21	N/A	20
§§ DCB	NIOSH: DD 0524000	Caremogen			312	0.21	0.21	14/1	20
§ C.I. 23060 § Curithane C126 § Dichlorobenzidine § 0,0'-Dichlorobenzidine §	SAX: DEO400								
Dichlorobenzidine Base § Benzidine, 3,3'-Dichloro-	Simi DEQ 100								
§ RCRA Waste Number U073 § 3,3'-Dichloro-4,4'-Diaminodiphenyl § 3,3'-Dichloro-(1,1'-									
Biphenyl)-4,4'-Diamine § 1,1'-Biphenyl-4,4'-Diamine, 3,3'-Dichloro-						PP	PP		
Dichlorodifluoromethane (HM)	75718 or 75-71-8	Toxic			3.75	1,000	1,000	0.05	0.5
§§ Freon 12	NIOSH: PA 8200000						'		
§ F 12 § R 12 § FC 12 § Halon § CFC-12 § Arcton 6 § Electro-CF 12	SAX: DFA600								
§ Eskimon 12 § Frigen 12 § Gentron 12 § Isceon 122 § Kaiser Chemicals 12									
§ Ledon 12 § Ucon 12 § Propellant 12 § Refrigerant 12									
§ Fluorcarbon-12 § RCRA Waste Number U075 § Difluorodichloromethane									
§ Methane, dichlorodifluoro-						HA	HA		

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	C WATER Q	UALITY STA	NDARDS ₍₉₎				
	at a Standard has not been				(2)	ed note of explanation	n is provided.		
Pollutant	CASRN, NIOSH and SAX			e Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Dichloroethane, 1.2-	107062 or 107-06-2	Carcinogen			1.2	3.8	4	N/A	0.5
§§ Ethylene Chloride	NIOSH: KI 0525000							- "	
§ EDC § Brocide § 1,2-DCE § NCI C00511 § Dutch Oil § Dutch Liquid	SAX: DFF900								
§ Dichloremulsion § Di-Chlor-Mulsion § 1,2-Bichlorethane									
§ 1,2-Dichlorethane § Ethane Dichloride § 1,2-Bichloroethane § Ethylene Dichloride § 1,2-									
Dichloroethane § Ethane, 1,2-Dichloro- § RCRA Waste Number U077§ 1,2-Ethylene									
Dichloride § alpha, beta-Dichloroethane						PP	НА		
Dichloroethene, 1.1-	75354 or 75-35-4	Carcinogen			5.6	0.57	0.6	N/A	0.5
§§ Vinylidene Chloride	NIOSH: KV 9275000	our emogen						1,112	
§ VDC § 1,1-DCE § Sconatex § NCI C54262 § 1,1-Dichloroethene	SAX: DFI000								
§ Vinylidene Chloride § 1,1-Dichloroethylene § Vinylidene Dichloride	5111. 511 000								
§ Ethene, 1,1-Dichloro- § Vinylidene Chloride II § RCRA Waste Number U078 §									
Dichloroethylene, 1,1- § Ethylene, 1,1-Dichloro-						PP	на		
Dichloromethane (HM)	75092 or 75-09-2	Carcinogen			0.9	5	5	N/A	0.5
§§ Methylene Chloride	NIOSH: PA 8050000	Carcinogen			0.7	3	3	IVA	0.3
§ R 30 § DCM § Freon 30 § Aerothene MM § NCI C50102 § Solmethine	SAX: MDR000								
§ Methylene Chloride § Methane Dichloride § Methane, Dichloro- § 1,1-Dichloromethane §	SAA. WIDKOO								
Methylene Bichloride § Methylene Dichloride						MCL	MCL		
Dichlorophenol, 2,4-	120832 or 120-83-2	Toxic			40.7	77	77	10	10
§§ Phenol, 2,4-Dichloro	NIOSH: SK 8575000	TOXIC			40.7		''	10	10
§ DCP § 2,4-DCH010 § DCP § 2,4-DCP § NCI C55345 § 2,4-Dichlorophenol	SAX: DFX800								
§ RCRA Waste Number U081	SAA. DI A000					PP	PP		
Dichlorophenoxyacetic Acid, 2,4-	94757 or 94-75-7	Toxic		 		70	70	0.02	1
§§ Dichlorophenoxyacetic Acid	NIOSH: AG 6825000	TOXIC				70	70	0.02	1
§ 2.4-D § Salvo § Phenox § Farmco § Amidox § Miracle § Agrotect	SAX: DFY600								
§ 2,4-D § Salvo § Filehox § Farmeto § Amindox § Miracle § Agrotect § Weedtrol § Herbidal § Ded-Weed § Lawn-Keep § Fernimine § Crop Rider	SAA. DF 1000								
§ Aqua-Kleen § 2,4-Dichlorophenoxy Acetic Acid									
§ Dichlorophenoxyacetic Acid, 2,4- § Acetic Acid, (2,4-Dichlorophenoxy)-									
§ 2,4-Dichlorophenoxyacetic Acid, salts and esters						MCL	MCL	N/A	
Dichloropropane, 1,2-	78875 or 78-87-5	Carcinogen			4.11	5.0	F S		0.5
§§ Propylene Chloride	NIOSH: TX 9625000	Carcinogen			4.11	5.0	3		0.5
§ 1,2-Dichloropropane § NCI C55141 § Propylene Dichloride § Caswell Number 324 §	SAX: DGF600								
Propane, 1,2-Dichloro- § a,\(\beta\)-Propylene Dichloride § alpha,beta-Dichloropropane § RCRA	SAA: DGF000								
Waste Number U083 § EPA Pesticide Chemical Code 029002									
waste Number 0085 § EPA Pesticide Chemical Code 029002						PP	MCL		
Dichloropropene, 1,3-	542756 or 542-75-6	Carcinogen			1.91	3.4	MCL 4	N/A	0.5
§§ Telone II	NIOSH: UC 8310000	Carcinogen			1.71	J.7	"	11/21	0.5
§ Telone § NCI C03985 § Vidden D § Dichloropropene § a-Chloroallyl Chloride § g-	SAX: CEF750								
Chloroallyl Chloride § 1,3-Dichloropropene § 1,3-Dichloropropylene § 1,3-Dichloro-2-	DAA. CEF/30								
Propene § Propene, 1,3-Dichloro- § Telone II Soil Fumigant § 3-Chloropropenyl Chloride §									
alpha,gamma-Dichloropropylene						PP	TTA		
атриа, данина-вистог оргоругене						rr	HA		

CIRCUL	AR DEQ-7, MONT	ANA NUMERIO	C WATER Q	UALITY STA	NDARDS ₍₉₎				
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Pollutant	CASRN, NIOSH and SA	X	Aquatic Li	fe Standards (16)	Bioconcentration	Human Health S	tandards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Dieldrin	60571 or 60-57-1	Carcinogen	0.24	0.056	4,670	0.00052	0.02	N/A	0.02
§§	NIOSH: IO 1750000								
§ Alvit § Quintox § Octalox § Illoxol § Dieldrex § NCI C00124 § Dieldrite	SAX: DHB400								
§ SHA 045001 § RCRA Waste Number P037 § 1,4:5,8-Dimethanonaphthalene									
§ Hexachloroepoxyoctahydro-endo,exo-Dimethanonaphthalene § 3,4,5,6,9,9-Hexachloro-									
1a,2,2a,3,6,6a,7,7a-Octahydro-2,7:3,6-Dimethanonaphth(2,3-b)Oxirene § 2,7:3,6-									
Dimethanonaphth(2,3-b)Oxirene, 3,4,5,6,9,9-Hexachloro-1a,2,2a,3,6,6a,7,7a-Octahydro- §									
1,2,3,4,10,10-Hexachloro-6,7-Epoxy-1,4,4a,5,6,7,8,8a-Octahydro-Endo, Exo-1,4:5,8-									
Dimethanonaphthalene			PP	PP		PP	HA		
Diethyl Phthalate	84662 or 84-66-2	Toxic			73	17,000	17,000	0.25	10
§§	NIOSH: TI 1050000								
§ Anozol § Neantine § Solvanol § NCI C60048 § Placidole E	SAX: DJX000								
§ Ethyl Phthalate § Diethylphthalate § Diethyl-o-Phthalate									
§ RCRA WAste Number U088 § 1,2-Benzenedicarboxylic Acid, Diethyl Ester						PP	PP		
Dimethoate	60-51-5	Toxic				7	7		
§§						HA	HA		
Dimethrin	70-38-2	Toxic				2,000	2,000		
§§		10.110				HA	HA		
Dimethyl Phthalate	131113 or 131-11-3	Toxic			36	270,000	270,000	0.04	10
\$§	NIOSH: TI 1575000	10.110				2.0,000			
§ DMP § NTM § ENT 262 § Mipax § Avolin § Fermine § Solvanom § Solvarone §	SAX: DTR200								
Palatinol M § Methyl Phthalate § Dimethylphthalate § Phthalic Acid, Dimethyl Ester §	DIII. 2 111200								
Dimethyl Benzene-o-Dicarboxylate § Dimethyl 1,2-Benzenedicarboxylate § 1,2-									
Benzenedicarboxylic Acid, Dimethyl Ester						PP	PP		
Dimethylphenol, 2,4-	105679 or 105-67-9	Toxic			93.8	380	380	10	10
§§ Phenol, 2,4-Dimethyl-	NIOSH: ZE 5600000	10.110			70.0				
§ m-Xylenol § 2,4-Xylenol § 4,6-Dimethylphenol § Caswell Number 907A	SAX: XKJ500								
§ 2,4-Dimethyl Phenol § RCRA Waste Number U101									
§ 1-Hydroxy-2,4-Dimethylbenzene § 4-Hydroxy-1,3-Dimethylbenzene § EPA Pesticide									
Chemical Code 086804						PP	PP		
Dinitro-o-Cresol, 4.6-	534521 or 534-52-1	Toxic	1		5.5	13	13		50
§§ Dinitrocresol	NIOSH: GO 9625000								
§ Detal § Sinox § DNOC § Arborol § Capsine § Dinitrol § Trifocide	SAX: DUT400								
§ Antinonin § Winterwash § Dinitro-o-Cresol § Caswell Number 390 § 2,4-Dinitro-o-Cresol									
§ 4,6-Dinitro-o-Cresol § o-Cresol, 4,6-dinitro-									
§ RCRA Waste Number P047 § 2-Methyl-4,6-Dinitrophenol									
§ 4,6-Dinitro-2-Methylphenol § 2,4-Dinitro-6-Methylphenol § 3,5-Dinitro-2-Hydroxytoluene §									
Phenol, 2-Methyl-4,6-Dinitro-						PP	PP		
Dinitrophenol, 2,4-	51285 or 51-28-5	Toxic			1.5	69	69	13	50
§§ Phenol, 2,4-Dinitro	NIOSH: SL 2800000								
§ Nitro § Kleenup § Aldifen § 2,4-Dinitrophenol § 2,4-DNP § Chemox PE § Maroxol-50 §	SAX: DUZ000								
Solfo Black B § alpha-Dinitrophenol § Dinitrophenol, 2,4- § Tertrosulphur Black PB § RCRA									
Waste Number P048 § 1-Hydroxy-2,4-Dinitrobenzene									
						PP	PP		
	I .	1	1	1	1	<u> </u>	1	1	1

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	WATER O	UALITY STA	NDARDS ₍₀₎				
	at a Standard has not beer				(2)	ed note of evulganation	is provided		
Pollutant	CASRN. NIOSH and SAX			e Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Dinitrotoluene, 2,4-	121142 or 121-14-2	Carcinogen			3.8	0.5	0.5	N/A	10
§§ Toluene, 2,4-Dinitro	NIOSH: XT 1575000								
§ 2,4-DNT § NCI C01865 § 2,4-Dinitrotoluol -	SAX: DVH000								
§ RCRA Waste Number U105 § Benzene, 1-Methyl-2,4-Dinitro-						HA	HA		
Dinitotoluene, 2,6-	606202 or 606-20-2	Carcinogen				0.5	0.5	0.01	
§§ Toluene-dinitro	NIOSH: XT 1925000								
§ 2,4-DNT § Methyl-1,3-Dinitrobenzene § RCRA Waste Number U106	SAX: DVH400					HA	HA		
Dinoseb	88857 or 88-85-7	Toxic				7	7	0.19	1.5
§§	NIOSH: SJ 9800000								
§ DNBP § DBNF § Aretit § Basanite § Caldon § Sparic § Kiloseb	SAX: BRE500								
§ Spurge § Premerge § Dinitro § Hel-Fire § SHA 037505 § Dow General									
§ Sinox General § RCRA Waste Number P020 § Dow General Weed Killer									
§ Vertac General Weed Killer § 2-sec-Butyl-4,6-Dinitrophenol § Dinitro-Ortho-Sec-Butyl									
Phenol § 2-(1-Methylpropyl)-4,6-Dinitrophenol									
§ 4,6-Dinitro-2-(1-Methyl-n-Propyl)Phenol§ Phenol, 2-(1-Methylpropyl)-4,6-Dinitro-						MCL	MCL		
DioxinChlorinated Dibenzo-p-dioxins and Chlorinated Dibenzofurans	Various	Carcinogen			5,000	0.00000005 (10)	0.000002 (10)	N/A	footnote 10
Dioxins and congeners expressed as equivalent concentration of 2,3,7,8,									
Tetrochlorodibenzo-p-dioxin (TCDD) based on the method described in									
Table 5, page 787, of van den Berg, M: Bosveld, ATC: et al. (1998) Toxicity equivalency factors									
(TEFs) for PCBs, PCDDs, PCDFs for humans and wildlife. Environ Health Perspect 106(12):775-									
792.						PP	HA		
Diphenamid	957-51-7	Carcinogen				200	200	N/A	
§§						HA	HA		
Diphenylhydrazine, 1,2-	122667 or 122-66-7	Carcinogen			24.9	0.36	0.36	N/A	10
§§ Hydrazine, 1,2-Diphenyl-	NIOSH: MW 2625000								
§ Hydrazobenzene § NCI C01854 § N,N'-Bianiline § Benzene, Hydrazodi-	SAX: HHG000								
§ RCRA Waste Number U109 § (sym)-Diphenylhydrazine § 1,2-Diphenylhydrazine						PP	PP		
Diquat	85007 or 85-00-7	Toxic				20	20	0.44	10
§§	NIOSH: JM 5690000								
§ Actor § Feglox § Deiquat § Reglone § Aquacide § Dextrone § Paraquat	SAX: DWX800								
§ Preeglove § SHA 032201 § Weedtrine-D § Diquat Dibromide § Ethylene Dipyridylium									
Dibromide § 1,1-Ethylene 2,2-Dipyridylium Dibromide § 5,6-Dihydro-									
Dipyrido(1,2a,1c)Pyrazinium Dibromide § 9,10-Dihydro-8a,10a-Diazoniaphenanthrene(1,1'-									
Ethylene-2,'-Bipyridylium)Dibromide						MCL	MCL		
Disulfoton	298-04-4	Toxic				0.3	0.3	0.07	
§§									
§ Disyston			ļ			HA	HA	1.	
Diuron	330-54-1	Toxic				10	10	1	
§§							<u>_</u> .		
§ Karmex		<u> </u>	<u> </u>	<u> </u>		HA	HA	<u> </u>	<u> </u>

CIRCULA	AR DEQ-7, MONTA	NA NUMERIO	WATER Q	UALITY STAN	NDARDS ₍₉₎				
Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates that	t a Standard has not been	adopted or informa	ation is currently	y unavailable. A '()' indicates that a detail	ed note of explanation	is provided.		
Pollutant	CASRN, NIOSH and SAX		Aquatic Life	e Standards (16)	Bioconcentration	Human Health St	andards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Endosulfan	115297 or 115-29-7	Toxic	0.11	0.056	270	110	110	0.014	see Cis and
§§	NIOSH: RB 9275000								trans isomers
§ NCI C00566 § Malixv § Ensure § Beosit § Endocel § Thiodan § Cyclodan	SAX: BCJ250								
§ Crisulfan § Benzoepin § Thiosulfan § SHA 079401 § Chlorthiepin § RCRA Waste									
Number P050 § Endosulfan (mixed isomers) § Hexachlorohexahydromethano 2,4,3-									
Benzodioxathiepin-3-Oxide § 1,4,5,6,7,7-Hexachloro-5-Norbornene-2,3-Dimethanol Cyclic									
Sulfite § 5-Norbornene-2, 3-Dimethanol, 1,4,5,6,7,7-Hexachloro Cyclic Sulfite § 6,7,8,9,10,10-									
Hexachloro-1,5,5a,6,9,9a-Hexahydro-6,9-Methano-2,4,3-Benzodioxathiepin-3-Oxide § 6,9-									
Methano-2,4,3-Benzodioxathiepin, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-Hexahydro-, 3-Oxide									
			PP	PP		PP	PP		
Endosulfan, I	959988 or 959-98-8	Toxic	0.22	0.056	270	62	62		0.015
§§	NIOSH:								
§ Thiodan I § Endosulfan-I § Alpha-Endosulfan § alpha-Endosulfan	SAX:		PP	PP		PP	PP		
Endosulfan, II	33213659 or 33213-	Toxic	0.22	0.056	270	62	62	0.004	0.024
§§	65-9								
§ Thiodan II § Endosulfan-II § Beta-Endosulfan § beta-Endosulfan	NIOSH:								
	SAX:		PP	PP		PP	PP		
Endosulfan Sulfate	1031078 or 1031-07-8	Toxic	0.22	0.056	270	62	62	0.05	0.05
§§	NIOSH:								
§ 6,9-Methano-2,3,4-Benzodioxathiepin, 6,7	SAX:		PP	PP		PP	PP		
Endothall	145733 or 145-73-3	Toxic				100	100	1	8
§§	NIOSH: RN 7875000								
§ Hydout § Hydrothal-47 § Aquathol § SHA 038901 § Accelerate § Tri-Endothal §	SAX: EAR000								
Endothal Hydout § RCRA Waste Number P088 § 3,6-Endooxohexahydrophthalic Acid §									
Phthalic Acid, Hexahydro-3,6-endo-Oxy- § 7-Oxabicyclo(2,2,1)Heptane-2,3-Dicarboxylic Acid §									
1,2-Cyclohexanedicarboxylic Acid, 3,6-endo-Epoxy-									
						MCL	MCL		
Endrin	72208 or 72-20-8	Toxic with	0.086	0.0036	3,970	0.059	2	N/A	0.3
§§	NIOSH: IO 1575000	BCF >300							
§ NCI C00157 § Endrex § Mendrin § Nendrin § Hexadrin § SHA 041601	SAX: EAT500								
§ Compound 269 § RCRA Waste Number P051 § 1,2,3,4,10,10-Hexachloro-6,7-Epoxy-									
1,4,4(a)5,6,7,8,8a-Octahydro-endo § 3,4,5,6,9,9-Hexachloro-1a,2,2a,3,6,6a,7,7a-Octahydro-2,									
7:3,6-Dimethanonaphth[2,3-b]oxirene § 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-Hexachloro									
6,7-Epoxy-1,4,4a,5,6,7,8,8a-Octahydro-Endo,Endo-									
			PP	PP		PP	MCL		1
Endrin Aldehyde	7421934 or 7421-93-4	Toxic with			3,970	0.29	0.29	N/A	0.025
§§	NIOSH:	BCF >300							
	SAX:					PP	PP	27/4	
Epichlorohydrin	106898 or 106-89-8	Carcinogen				30	30	N/A	
§§	NIOSH: TX 4900000								
§ ECH § Epoxy Propane § -Epichlorohydrin § Chloromethyloxirane § RCRA Waste	SAX: CGN750								
Number U041 § y-Chloropropyleneoxide § 2-Chloropropylene Oxide									
§ Glycerol Epichlorhydrin § 2,3-Epoxypropyl Chloride § 1-Chlor-2,3-Epoxypropane§ 3-Chlor	•					***	***		
1,2-Epoxypropane	N//A	TT 6.1				HA	HA	400	4.00
Escherichia coli (Bacteria)	N/A	Harmful				(13)	Less than 1 (6)	1 per 100ml	1 per 100ml

CIRCUI	LAR DEQ-7, MONTA	ANA NUMERIO	C WATER Q	UALITY STA	NDARDS ₍₉₎				
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Pollutant	CASRN, NIOSH and SA			ife Standards (16)	Bioconcentration		Standards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Ethylbenzene	100414 or 100-41-4	Toxic			37.5	530	700	0.002	0.5
§§	NIOSH: DA 0700000								
§ EB § NCI C56393 § Ethylbenzol § Phenylethane § Ethyl Benzene	SAX: EGP500								
§ Benzene, Ethyl						PP	MCL		
Fenamiphos	22224-92-6	Toxic				2	2	N/A	
§§									
§ Nemacur						HA	HA		
Fluometuron	2164-17-2	Carcinogen				90	90	N/A	
§§									
§ Flo-Met						НА	HA		
Fluoranthene	206440 or 206-44-0	Toxic with			1,150	130	130	N/A	10
§§	NIOSH: LL 4025000	BCF >300							
§ Idryl § Benzo(jk)Fluorene § Benzo(j,k)Fluorene § 1,2-Benzacenaphthene § RCRA Waste									
Number U120 § 1,2-(1,8-Naphthylene)Benzene § Benzene, 1,2-(1,8-Naphthalenediyl)-									
(1)0 1 (1)0 1 (1)0 1 (1)1 (1)0 (1)1 (1)0 (1)1 (1)0 (1)1 (1)0 (1)0						PP	PP		
Fluorene (PAH)	86737 or 86-73-7	Toxic			30	1,100	1,100	0.25	0.25
§§	NIOSH:	10.110				1,200	1,200	0.20	0.20
§ 9H-Fluorene § Diphenylenemethane § o-Biphenylenemethane	SAX:								
§ 2,2'-Methylenebiphenyl	51111					PP	PP		
Fluoride	16984488 or	Toxic	1			4,000	4,000	5	100
§§ Flourine	16984-48-8	Tome				1,000	1,000		100
§ Fluoride § Fluoride(1-) § Perfluoride § Fluoride Ion § Fluorine, Ion	NIOSH: LM 6290000								
§ Soluable§ Fluoride § RCRA Waste Number P056 § Hydrofluoric Acid,	SAX: FEX875								
Ion(1-)	5.11.1.12.10.2					MCL	MCL		
Fonofos	944-22-9	Toxic	1			10	10		
§§	311223	Tome				10	10		
§ Dyfonate						НА	на		
Gamma Emitters (11)	Multiple	Carcinogen /	 -			0.4 mrem /yr	0.4 mrem /yr	N/A	
88	Within	Radioactive				MCL	MCL	1 1/11	
gamma-Chlordane	5103742 or 5103-74-2	Carcinogen	 -		14,100	0.0080	1	N/A	0.4
§§	NIOSH:	Carcinogen		ļ	14,100	0.0000	1	IV/A	0.4
§ Chlordane, beta-Isomer	SAX:					PP	на		
gamma-hexachlorocyclohexane	58899 or 58-89-9	Carcinogen	0.95		130	0.2	0.2	N/A	0.1
§§ Lindane	NIOSH: GV 4900000	Caremogen	0.75		130	0.2	0.2	IV/A	0.1
§ BHC § -BHC § Gamene § Lintox § Lentox § Hexcide § Aparsin	SAX: BBQ500								
§ Agrocide § Afcide § BHC-gamma § gamma-BHC § HCH-gamma § gamma-HCH §	SAIX. BBQS00								
Hexachlorocyclohexane § gamma-Hexachlorobenzene § gamma-Benzenehexachloride §									
gamma-Benzene Hexachloride § Hexachlorocyclohexane-gamma § Hexachlorocyclohexane									
(gamma) § Benzene Hexachloride-gamma-isomer § gamma-1,2,3,4,5,6-Hexachlorocyclohexane	ρ								
§ Cyclohexane, 1,2,3,4,5,6-Hexachloro-, gamma-isomer § 1,2,3,4,5,6-Hexachlorocyclohexane,									
gamma-isomer § 1-alpha,2-alpha,3-beta,4-alpha, 5-alpha,6-beta-Hexachlorocyclohexane §									
Cyclohexane, 1,2,3,4,5,6-Hexachloro-, (1-alpha, 2-alpha, 3-beta, 4-alpha, 5-alpha, 6-beta)									
ريان المريخ عند المريخ									
			i contract of the contract of	i e	1	i	1	i	1
		-	PP			НА	НА		
Gases, dissolved, total-pressure (20) §§	Multiple	Toxic	PP 110% of saturation			HA 	HA 		

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	at a Standard has not been				(*)	led note of explanation	n is provided.		
Pollutant	CASRN, NIOSH and SAX	4	Aquatic Lif	re Standards (16)	Bioconcentration	Human Health S	tandards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Glyphosate	1071836 or 1071-83-6	Toxic				700	700	6	50
§§	NIOSH: MC 1075000								
§ Jury § Honcho § Rattler § Weedoff § Roundup § Glifonox	SAX: PHA500								
§ n-(Phosphonomethyl)-Glycine § Glycine, n-(Phosphonomrthyl)-									
§ Glyphosate plus inert ingrediants § MON 0573						MCL	MCL		
Glyphosate Isopropylamine Salt	38641940 or	Toxic				700	700	6	50
§§	38641-94-0								
§ SHA 103601	NIOSH:								
	SAX:					HA	HA		
Guthion	86500 or 86-50-0	Toxic		0.01					
§§	NIOSH: TE 1925000								
§ DBD § NCI C00066 § Carfene § Gothnion § Azinphos § Crysthyon	SAX: ASH500								
§ Gusathion § Bay 17147 § Methylazinphos § Methyl Guthion									
§ Methyl-Guthion § Azinphos-Methyl § Azinphos Methyl § Caswell Number 374 § EPA									
Pesticide Chemical Code 058001 § 0,0-Dimethylphosphorodithioate S-Ester § 3-									
Mercaptomethyl)-1,2,3-Benzotriazin-4(3H)-One § Benzotriazinedithiophosphoric Acid									
Dimethoxy Ester § 3-Dimethoxyphosphinothiomethyl-1,2,3-Benzotriazin-4(3H)-One									
§ Phosphorodithioic Acid, O,O-Dimethyl Ester, S-Ester with 3-(Mercaptomethyl)-1,2,3-									
Benzotriazin-4(3H)-One				NPP					
Heptachlor	76448 or 76-44-8	Carcinogen	0.52	0.0038	11,200	0.00079	0.08	N/A	0.2
§§	NIOSH: PC 0700000								
§ NCI C00180 § Drinox § Heptamul § Agroceris § Heptagran § SHA 04481	SAX: HAR000								
§ Rhodiachlor § Velsicol-104 § RCRA Waste Number P059 § 3,4,5,6,7,8,8a-									
heptachlorodicyclopentadiene § Dicyclopentadiene, 3,4,5,6,7,8,8a-Heptachloro-									
§ 1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-Tetrahydro-4,7-Methanol-1H-Indene § 4,7-Methano-1H-									
Indene, 1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-Tetrahydro-									
§ 1(3a),4,5,6,7,8,8-Heptachloro-3a(1),4,7,7a-Tetrahydro-4,7-Methanoindene			PP	PP		PP	HA		
Heptachlor Epoxide	1024573 or 1024-57-3	Carcinogen	0.26	0.0038	11,200	0.00039	0.04	N/A	0.1
§§	NIOSH: PB 9450000								
§ HCE § Velsicol 53-CS-17 § Epoxyheptachlor § 1,4,5,6,7,8,8-Heptachloro-2,3-Epoxy-	SAX: EBW500								
2,3,3a,4,7,7a-Hexahydro-4,7-Methanoindene § 2,5-Methano-2H-Indeno[1,2b]Oxirene,									
2,3,4,5,6,7,7-Heptachloro-1a,1b,5,5a,6,6a-Hexahydro- (alpha, beta, and gamma isomers)									
w ,, ,	440844 440 84 1		PP	PP	0.000	PP	HA	ļ	
Hexachlorobenzene	118741 or 118-74-1	Carcinogen			8,690	0.0028	0.2	N/A	0.2
§§	NIOSH: DA 2975000								
§ HCB § Amatin § Smut-Go § Sanocide § Anticarie § Bunt-Cure § Bunt-No-More §	SAX: HCC500								
Perchlorobenzene § Phenyl Perchloryl § No Bunt Liquid						DD	TT 4		
§ Julin's Carbon Chloride § Co-op Hexa § Hexa C.B. § Benzene, Hexachloro-	87683 or 87-68-3	Canainas	+		2.79	PP 4.4	HA	N/A	10
Hexachlorobutadiene	87683 or 87-68-3 NIOSH: EJ 0700000	Carcinogen			2.78	4.4	3	IN/A	10
88									
§ HCBD § Dolan-Pur § Perchlorobutadiene § RCRA Waste Number U128 § 1,3-Hexachlorobutadiene § 1,3-Butadiene, Hexachloro- § 1,1,2,3,4,4-Hexachloro-1,3-	SAX: PCF000								
Butadiene § 1,3-Butadiene, Hexachloro- Butadiene § 1,3-Butadiene, 1,1,2,3,4,4-Hexachloro-						PP	на		
Dutauiene § 1,5-Dutauiene, 1,1,2,5,4,4-Hexaciilofo-						rr	ПА		L

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Pollutant	CASRN, NIOSH and SA			e Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Hexachlorocyclohexane	608731 or 608-73-1	Carcinogen			130	0.039	0.039	N/A	0.1
§§	NIOSH: GV 3150000								
§ BHC § DBH § HCH § HCCH § HEXA § Hexylan § Hexachlor	SAX: BBP750								
§ Gammexane § Hexachloran § Compound 666 § Benzenehexachloride									
§ Benzene Hexachloride						PP	PP		
Hexachlorocyclopentadiene	77474 or 77-47-4	Toxic			4.34	40	50	1	5
§§	NIOSH: GY 1225000								
§ HEX § HCP § PCL § C-56 § HCCPD § NCI C55607 § Hexachloropentadiene § RCRA	SAX: HCE500								
Waste Number U130 § Perchlorocyclopentadiene § 1,3-Cyclopentadiene, 1,2,3,4,5,5-Hexachloro) -								
						PP	MCL		
Hexachloroethane	67721 or 67-72-1	Carcinogen			86.9	14	30	N/A	10
§§	NIOSH: KI 4025000								
§ Avlotane § Distokal § Distopan § Distopin § Egitol § Falkitol § Fasciolin	SAX: HCI000								
§ NCI C04604 § Phenohep § Mottenhexe § Perchloroethane									
§ Hexachloroethylene § Ethane, Hexachloro- § Carbon Hexachloride									
§ Ethane Hexachloride § Ethylene Hexachloride § RCRA Waste Number U131 § 1,1,1,2,2,2-									
Hexachloroethane						PP	HA		
Hexazinone	51235-04-2	Toxic				400	400	1	
§§						HA	HA		
Hydrogen Sulfide	7783064 or 7783-06-4	Toxic		2				NA	
§§	NIOSH: MX 1225000								
§ Stink Damp § Sulfur Hydride § Hydrogen Sulphide § Dihydrogen Sulfide	SAX: HIC500								
§ Hydrosulfuric Acid § Sulfurated Hydrogen § RCRA Waste Number U135									
§ Dihydrogen Monosulfide § Hydrogen Sulfuric Acid				NPP					
Imazamethabenz-methyl	81405-85-8	Toxic				400	400	N/A	
§§ Assert									
§	0.400.4.4.4					I	I		
Imazapyr	81334-34-1	Toxic				21,000	21,000	N/A	
§§ Arsenal									
§	102207 102.20 7	g .			20	I	I	27/4	0.40
Indeno(l,2,3-cd)pyrene (PAH)	193395 or 193-39-5	Carcinogen			30	0.038	0.5 (30)	N/A	0.10
§§	NIOSH: NK 9300000								
§ o-Phenylenepyrene § 2,3-Phenylenepyrene § 2,3-o-Phenylenepyrene	SAX: IBZ000								
§ RCRA Waste Number U137 § Indeno (l,2,3-cd) Pyrene § 1,10-(o-Phenylene)Pyrene § 1,10-						nn.	***		
(1,2-Phenylene)Pyrene	#42000	TT 6.1		1.000		PP	HA (22)	DT/A	70
Iron	7439896 or 7439-89-6	Harmful		1,000		(23)	(23)	N/A	50
§§ Fe	NIOSH: NO 4565500	(aquatic life)		NDD					
§ Ancor EN 80/150 § Carbonyl Iron § Armco Iron	SAX: IGK800	Consinorer	-	NPP	4.38	350	400	N/A	10
Isophorone	78591 or 78-59-1 NIOSH:GW 7700000	Carcinogen			4.38	330	400	IN/A	10
88 8 Jeafaran & NCI C55619 & Jacobstonharana & aluba Jeanharana & 1.1.2 Trimethyl 2	SAX: IHO000								
§ Isoforon § NCI C55618 § Isoacetophorone § alpha-Isophorone § 1,1,3-Trimethyl-3-	SAA: IHUUUU								
Cyclohexene-5-One § 3,5,5-Trimethyl-2-Cyclohexene-1-One						PP	TTA		
§ 3,5,5-Trimethyl-2-Cyclohexone	1					rr	HA		

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Pollutant	CASRN, NIOSH and SAX		Aquatic Lif	e Standards (16)	Bioconcentration	Human Health St	andards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Lead	7439921 or 7439-92-1	Toxic	13.98 @ 25	0.545 @ 25	49	15	15	0.1	0.5
§§ Pb	NIOSH: OF 7525000		mg/l hardness	mg/l hardness					
§ C.I. 77575 § C.I. Pigment Metal 4 § Glover § Lead Flake § Lead 22	SAX: LCF000		(12)	(12)					
§ Omaha § Omaha & Grant § SI § SO			PP	PP		PP	PP		
m-Xylene	108383 or 108-38-3	Toxic			1.17	10,000	10,000	0.5	1.5
§§	NIOSH: ZE 2275000								
§ m-Xylol § 1,3-Xylene § meta-Xylene § m-Dimethylbenzene	SAX: XHA000								
§ m-Methyltoluene § 1,3-Dimethylbenzene § 1,3-Dimethyl Benzene						MCL	MCL		
Malathion	121755 or 121-75-5	Toxic		0.1		100	100		
§§	NIOSH: WM 8400000								
§ Formal § Sumitox § Emmatos § Celthion § Forthion § Malacide § Kop-Thion §	SAX: CBP000								
Calmathion § Carbethoxy § NCI C00215 § Carbethoxy Malathion § SHA 057701 §									
Phosphothion § S-1,2-Bis(Ethoxycarbonyl)Ethyl-O,O-Dimethyl Thiophosphate § O, O-									
Dimethyl-S-(1,2-Dicarbethoxyethyl) Dithiophosphate § O,O-Dimethyl S-1,2-									
Di(Ethoxycarbamyl)Ethyl Phosphorodithioate § Succinic Acid, mercapto-, diethyl ester, S-Ester									
with O,O-Dimethyl Phosphorodithioate				NPP		НА	НА		
Manganese	7439965 or 7439-96-5	Harmful				(24)	(24)	N/A	5
§§ Mn	NIOSH: OO 9275000						(= -)	- "	
§ Colloidal Manganese § Magnacat § Tronamang	SAX: MAP750								
MCPA	94-74-6	Toxic				4	4	N/A	
§§ 4-chloro-2 methylphenoxy acetic acid						HA	HA	1,112	
MCPP	7085-19-0	Toxic				7	7		
§§ Mecoprop									
§ (+)-2-(4-chloro-2-methylphenoxy)-propanoic acid						T	Ţ		
Mercury	7439976 or 7439-97-6	Toxic with	1.7	0.91	5,500	0.05	2	N/A	0.01
§§ Hg	NIOSH: OV 4550000	BCF >300			-,			- "	****
§ Colloidal Mercury § Mercury, Metallic § NCI C60399 § Quick Silver	SAX: MCW250								
§ RCRA Waste Number U151	51111 1120 1120		PP	PP		PP	MCL		
Metalaxvl	57837-19-1	Toxic				420	420	3.5	
§ Ridomil		10.110				-20			
8						T	Ţ		
Methamidophos	10265-92-6	Toxic				0.35	0.35		
§§ Monitor									
§						I	I		
Methomyl	16752-77-5	Toxic				200	200	1	
§§ Lannate		1							
§						НА	НА		
Methoxychlor	72435 or 72-43-5	Toxic		0.03		40	40		1
\$§	NIOSH: KJ 3675000					-			
§ DMDT § Metox § Moxie § Methoxcide § NCI C00497 § Methoxy-DDT	SAX: DOB400								
§ Dimethoxy-DDT § RCRA Waste Number U247 § 1,1,1-Trichloro-2,2-Bis(p-									
Methoxyphenyl)Ethane § Benzene, 1,1'-(2,2,2-Trichloroethylidene)Bis[4-Methoxy- § 1,1'-									
Trichloroethylidene)Bis[4-Methoxybenzene] § Ethane, 1,1,1-Trichloro-2,2-Bis(p-									
Methoxyphenyl)-				NPP		MCL	MCL		
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Pollutant	CASRN, NIOSH and SA)	4	Aquatic Li	fe Standards (16)	Bioconcentration	Human Health S	tandards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Metsulfuron Methyl	74223-64-6	Toxic				1,750	1,750	0.1	
§§ Ally									
§						I	I		
Methyl Chloride	74873 or 74-87-3	Toxic			3.75	30	30	0.08	
§§ Chloromethane	NIOSH: PA 6300000								
§ Arctic § Monochloromethane § RCRA Waste Number U045	SAX: CHX500					HA	HA		
Metolachlor	51218-45-2	Carcinogen				100	100	N/A	
§§ Dual									
§						HA	HA		
Metribuzin	21087-64-9	Toxic				200	200	10	
§§ Sencor									
§						HA	HA		
Mirex	2385855 or 2385-85-5	Carcinogen		0.001		14	14	0.01	0.1
§§	NIOSH: PC 8225000								
§ NCI C06428 § Dechlorane § Bichlorendo § Ferriamicide	SAX: MQW500								
§ Perchloropentacyclodecane § Dodecachloropentacyclodecane									
§ Hexachlorocyclopentadiene Dimer § Cyclopentadiene, Hexachloro-, Dimer §									
Perchloropentacyclo(5.2.1.0[sup 2,6].0[sup 3,9].0[sup 5,8])Decane § Dodecachlorooctahydro-									
1,3,4-Metheno-2H-Cyclobuta (c,d)Pentalene § 1,1a,2,2,3,3a,4,5,5,5a,5b,6-Dodecachlorooctahydr	0-								
1,3,4-Metheno-1H-Cyclobuta(cd) Pentalene § 1,3,4-Metheno-1H-Cyclobuta[cd]Pentalene,									
1,1a,2,2,3,3a,4,5,5,5a,5b,6,-Dodecachlorooctahydro-									
				NPP		I	I		
MTBE	1634-04-4	Harmful				30 (21)	30 (21)		
§§ Methyl Tertiary-Butyl Ether									
N-Nitrosodimethylamine	62759 or 62-75-9	Carcinogen			0.026	0.0069	0.0069	N/A	10
§§ Dimethylnitrosamine A707	NIOSH: IQ 0525000								
§ DMN § NDMA § DMNA § Nitrosodimethylamine § Dimethylnitrosoamine	SAX: DSY400								
§ N-Nitrosodimethylamine § RCRA Waste Number P082 § N,N-Dimethylnitrosamine §									
Methylamine, N-Nitrosodi- § Dimethylamine, N-Nitroso- § N-Methyl-N-Nitrosomethanamine	§								
Methamine, N-Methyl-N-Nitroso- Methanamine, N-Methyl-N-Nitroso-									
						PP	PP		
N-Nitrosodiphenylamine	86306 or 86-30-6	Carcinogen			136	33	33	N/A	10
§§	NIOSH: JJ 9800000								
§ NDPA § NDPhA § Vultrol § Curetard A § NCI C02880 § Redax § TJP	SAX: DWI000								
§ Retarder J § Vulcalent A § Vulcatard § Vultrol § Nitrosodiphenylamine									
§ Diphenylnitrosamine § N,N-Diphenylnitrosamine § N-Nitroso-N-Phenylaniline §									
Diphenylamine, N-Nitroso- § Benzenamine, N-Nitroso-N-Phenyl-						PP	PP		
n-Dioctyl Phthalate	117840 or 117-84-0	Carcinogen						N/A	10
§§	NIOSH: TI 1925000								
§ DNOP § PX-138 § Vinicizer 85 § Dinopol NOP § n-Octyl Phthalate § Octyl Phthalate §	SAX: DVL600								
Dioctyl Phthalate § Di-n-Octyl Phthalate § Di-sec-Octyl Phthalate § RCRA Waste Number									
U107 § 1,2-Benzenedicarboxylic Acid, Dioctyl Ester									

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Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
N-Nitrosodi-N-Propylamine	621647 or 621-64-7	Carcinogen			1.13	0.05	0.05	N/A	10
§§	NIOSH: JL 9700000								
§ DPN § DPNA § NDPA § Dipropylnitrosamine § N-Nitrosodipropylamine	SAX: DWU600								
§ Di-n-Propylnitrosamine § RCRA WAste Number U111 § Dipropylamine, N-Nitroso- § N-									
Nitrosodi-n-propylamine § N-Nitroso-di-n-propylamine § 1-Propanamine, N-Nitroso-n-Propyl-									
						PP	PP		
N-Nitrosopyrrolidene	930552 or 930-55-2	Carcinogen			0.055	0.16	0.16	N/A	10
§§	NIOSH: UY 1575000								
§ NPYR § NO-pyr § N-N-pyr § 1-Nitrosopyrrolidene § Pyrrolidine, 1-Nitroso-	SAX: NLP500								
§ RCRA Waste Number U180 § Tetrahydro-N-Nitrosopyrrole § Pyrrole, Tetrahydro-N-									
Nitroso-						PP	PP		
Naphthalene	91203 or 91-20-3	Carcinogen			10.5	100	100	0.04	10
§§ Moth Balls	NIOSH: QJ 0525000								
§ Mighty 150 § NCI C52904 § Naphthene § White Tar§ Naphthalin § Tar Camphor §	SAX: NAJ500								
Caswell Number 587 § RCRA Waste Number U165 § EPA Pesticide Chemical Code 055801									
						HA	HA		
Nickel	7440020 or 7440-02-0	Toxic	_	16.1 @ 25 mg/l	47	100	100	0.5	10
§§ Ni	NIOSH: QR 5950000		hardness (12)	hardness (12)					
§ C.I. 77775 § Ni 270 § Nickel 270 § Ni 0901-S § Ni 4303T § NP 2 § Raney Alloy § Raney	SAX: NCW500								
Nickel			PP	PP		HA	HA		
Nicosulfuron	111991-09-4	Toxic				8,750	8,750	0.01	
§§ Accent									
8	1.4505550	m •	(0)	(0)		10.000	10.000	40	40
Nitrate (as Nitrogen[N])	14797558 or	Toxic	(8)	(8)		10,000	10,000	10,	10
§§ NO3	14797-55-8							surface water	
	NIOSH:							5000,	
	SAX:							ground water,	
						MCT	MOT	see ARM	
NY	G	Toxic	(8)	(0)		MCL 10.000	MCL 10,000	17.30.715 10.	10
Nitrate plus nitrite (as Nitrogen[N]) §§ NO ₃ + NO ₂	See nitrate and nitrite NIOSH:	1 OXIC	(8)	(8)		10,000	10,000	,	10
$88 \text{ NO}_3 + \text{NO}_2$								surface water	
	SAX:							5000,	
								ground water,	
							3.5 CY	see ARM	
NY 4 (NY DNI)	14505(50)	m - •-	(0)	(0)		MCL	MCL	17.30. 715	10
Nitrite (as Nitrogen[N])	14797650 or	Toxic	(8)	(8)		1,000	1,000	4	10
§§ NO ₂	14797-65-0								
	NIOSH:								
	SAX:				1	MCL	MCL		
Nitrobenzene	98953 or 98-95-3	Toxic			2.89	17	17	1.9	10
§§	NIOSH: DA 6475000								
§ NCI C60082 § Mirbane Oil § Nitrobenzol § Oil of Mirbane	SAX: NEX000								
§ Benzene, Nitro- § Essence of Myrbane § RCRA Waste Number U169						PP	PP		

Except where indicated, values are listed as micro-grams-per-liter (μg/L). A '' indicates the	nt a Standard has not been	adopted or informa	ation is currentl	v unavailable. A ')' indicates that a detail	led note of explanation	n is provided.		
Pollutant	CASRN, NIOSH and SAX			fe Standards (16)	Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
[itrogen, total inorganic (as Nitrogen[N])	See ammonia, nitrate,	Nutrient	(8)	(8)				10	10
§ the sum of ammonia, nitrite, and nitrate	and nitrite								
itrophenol, 4-	100027 or 100-02-7	Toxic			3.31	60	60	2.4	
§p-Nitropheno (DOT)l	NIOSH: SM 2275000								
4-Hydroxynitrobenzene § NCI C55992) § RCRA Waste Number U170	SAX: NIF000					HA	HA		
Nitrophenol	88755 or 88-75-5	Toxic			2.33			0.45	
§	NIOSH: SM 2100000								
2-Nitrophenol § 2-Hydroxynitrobenzene	SAX: NIE500								
-Xylene	95476 or 95-47-6	Toxic			1.17	10,000	10,000	0.5	1.5
}	NIOSH: ZE 2450000	20.000				20,000	20,000		1.0
o-Xylol § 1,2-Xylene § ortho-Xylene § o-Methyltoluene	SAX: XHJ000								
o-Dimethylbenzene § 1,2-Dimethylbenzene § 1,2-Dimethyl Benzene	57171. 71119000					MCL	MCL		
Dxamyl	23135220 or	Toxic	 	 	<u> </u>	200	200	1	1
8	23135-22-0	I UAIC	-	-		200	200	*	1
D-1410 § DPX 1410 § Insecticide-Nematicide 1410 § Vydate § Thioxamyl	NIOSH: RP 2300000								
Methyl 2-(Dimethylamino)-N- § Vydate L, Insecticide/Nematicide	SAX: DSP600								
({[Methylamino]Carbonyl}Oxy)-2-Oxoethanimidothioate § 2-Dimethylamino-1-									
Methylthio)Glyoxal O-Methylcarbamoylmonozime § S-Methyl 1-Dimethylcarbamoyl)-N									
Methylcarbamoyl}Oxy)Thioformimidate § Methyl N',N'-Dimethyl-N-({Methylcarbamoyl}Oxy)	1								
$. This oxami mid ate ~\S N', N'-Dimethyl-N-[(Methylcar bamoyl) oxy]-1-Methyl this oxami mid ic Acid Acid Acid Acid Acid Acid Acid$									
						MCL	MCL		
xydemeton Methyl	301-12-2	Toxic				3.5	3.5	1.4	
§ Metasystox R									
						I	I		
xygen, dissolved (20)	7782447 or 7782-44-7	Toxic	(15)	(15)					50
§ O2	NIOSH: RS 2060000								
Oxygen, Compressed § Oxygen, Refrigerated Liquid	SAX: OQW000								
,p'-Dichlorodiphenyldichloroethylene	72559 or 72-55-9	Carcinogen			53,600	0.0022	0.0022	N/A	0.01
§ DDE	NIOSH: KV 9450000								
DDE § p,p'-DDE § 4,4'-DDE § NCI C00555 § Dichlorodiphenyldichloroethylene §	SAX: BIM750								
ichlorodiphenyldichloroethylene, p,p'- § 2,2'-bis(4-Chlorophenyl)-1,1-Dichloroethylene § 1,1'-									
Dichloroethenylidene)bis(4-Chlorobenzene) § 2,2'-bis(p-Chlorophenyl)-1,1-Dichloroethylene §									
Senzene, 1,1'-(DichloroethenylideneBis[4-Chloro-									
•						PP	PP		
p'-Dichlorodiphenyltrichloroethane	50293 or 50-29-3	Carcinogen	1.1	0.001	53,600	0.0022	0.0022	N/A	0.06
S DDT	NIOSH: KJ 3325000	Carcinogen	1.1	0.001	25,000	0.0022	0.0022	14/13	0.00
DDT § 4,4'-DDT § Agritan § Anoflex § Arkotine § Azotox § Bosan Supra	SAX: DAD200								
Bovidermol & Chlorophenothan & Chlorophenothane & Chlorophenotoxum & Citox &	SAA. DADZUU								
lofenotane § Dedelo § § Chlorophenothane § Diphenyltrichloroethane §									
ichlorodiphenyltrichloroethane § 4,4'-Dichlorodiphenyltrichloroethane §									
ichlorodiphenyltrichloroethane, p,p'- § 1,1,1-Trichloro-2,2,-bis(p-Chlorophenyl) Ethane §									
1,1-Trichloro-2,2,-bis(p-Chlorophenyl)Ethane § 1,1,1-Trichloro-2,2,-Di(4-Chlorophenyl)-									
thane § 1,1-Bis-(p-Chlorophenyl)-2,2,2-Trichloroethane § 2,2-Bis-(p-Chlorophenyl)-1,1,1-									
richloroethane § Benzene, 1,1'-(2,2,2-Trichloroethylidene)Bis(4-Chloro-) § alpha,alpha-Bis(p-									
Chlorophenyl)-beta,beta,beta-Trichlorethane									
February 2006		Page 26 of 40	PP	PP		PP	PP	Fohruan	

CIRCUL	AR DEQ-7, MONTA	NA NIIMERIO	WATER O	HALITY STA	NDARDS ₍₀₎				
	at a Standard has not been				(>)	ad note of employeties	s is nuovidad		
Pollutant	CASRN, NIOSH and SAX			e Standards (16)	Bioconcentration	Human Health St		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
p,p'-Dichlorodiphenyldichloroethane	72548 or 72-54-8	Carcinogen	7.100.10 (0)		53,600	0.0031	0.0031	N/A	0.01
§§ DDD	NIOSH: KI 0700000	curemogen			55,000	0.0031	0.0031	1771	0.01
§ TDE § Dilene § NCI C00475 § Rothane § Rhothane § 4,4'-DDD	SAX: BIM500								
§ p,p'-DDD § p,p'-TDE § 4',4'-D-DDD § RCRA Waste Number U060 §	5.22. 522500								
Tetrachlorodiphenylethane § Dichlorodiphenyldichloroethane § Dichlorodiphenyl									
Dichloroethane § 2,2-bis (4-Chlorophenyl)-1,1-Dichloroethane § 1,1-Dichloro-2,2-bis(p-									
Chlorophenyl) Ethane § 1,1-bis(4-Chlorophenyl)-2,2-Dichloroethane § 2,2-bis(p-Chlorophenyl)									
1,1-Dichloroethane § Benzene, 1,1'(2,2-Dichloroethylidene)Bis[4-Chloro-									
						PP	PP		
p-Bromodiphenyl Ether	101553 or 101-55-3	Toxic with			1,640			N/A	10
§§ Benzene, 1-Bromo-4-Phenoxy-	NIOSH:	BCF >300	1						
§ p-Bromodiphenyl Ether § 4-Bromophenoxybenzene	SAX:								
§ 4-Bromodiphenyl Ether § 1-Bromo-4-Phenoxybenzene § p-Bromophenylphenyl Ether § 4-									
Bromophenyl Phenyl Ether									
p-Chloro-m-Cresol	59507 or 59-50-7	Harmful				3,000	3,000	N/A	20
§§	NIOSH: GO 7100000								
§ PCMC § Parol § Aptal § Baktol § Baktolan § Ottafact § Raschit	SAX: CFE250								
§ Rasen-Anicon § Parmetol § Candasetpic § Chlorocresol § Preventol CMK									
§ RCRA Waste Number U039 § Parachlorometra Cresol									
§ 4-Chloro-3-methylphenol § 2-Chloro-Hydroxytoluene § Phenol, 4-Chloro-3-methyl- §									
Chlorophenol, 4-, methyl, 3-						PP	PP		
p-Xylene	106423 or 106-42-3	Toxic			1.17	10,000	10,000	0.5	1.5
§§	NIOSH: ZE 2625000								
§ p-Xylol § Chromar § Scintillar § 1,4-Xylene § para-Xylene § p-Methyltoluene § p-	SAX: XHS000								
Dimethylbenzene § 1,4-Dimethylbenzene § 1,4-Dimethyl Benzene									
						MCL	MCL		
Paraquat Dichloride	1910-42-5	Toxic				30	30	0.8	
§§						HA	HA		
Parathion	56382 or 56-38-2	Carcinogen	0.065	0.013					1
§§	NIOSH: TF 4920000,								
§ DNTP § Niran § Phoskil § Paradust § Stathion § Strathion § Pestox Plus	dry								
§ Nitrostigmine § Parathion Ethyl § Parathion-ethyl § Ethyl Parathion	TF 4950000, liquid								
§ Diethylparathion § Caswell Number 637 § RCRA Waste Number P089	SAX: PAK250, dry		1						
§ EPA Pesticide Chemical Code 057501 § Diethyl 4-Nitrophenylphosphorothioate § Diethyl			1						
para-Nitrophenol Thiophosphate									
§ Diethyl-p-Nitrophenyl Monothiophosphate § O,O-Diethyl O-4-Nitrophenyl Thiophosphate §									
Phosphorothioic Acid, O,O-Diethyl O-(4-Nitrophenyl) Ester	(0000# (00 00 #	m	NPP	NPP	2.125			27/4	0.4
Pentachlorobenzene	608935 or 608-93-5	Toxic with			2,125	1.4	1.4	N/A	0.1
§§ Benzene, Pentachloro-	NIOSH: DA 6640000	BCF >300				777	77		
§ QCB- § RCRA Waste Number U183	SAX: PAV500					PP	PP		

CIRCUL	AR DEQ-7, MONTA	ANA NUMERIO	C WATER Q	UALITY STA	NDARDS ₍₉₎				
	at a Standard has not beer	n adopted or informa	ation is currentl	y unavailable. A '(()' indicates that a detail	led note of explanation	ı is provided.		
Pollutant	CASRN, NIOSH and SAX			fe Standards (16)	Bioconcentration	Human Health S		Trigger Value	
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Pentachlorophenol	87865 or 87-86-5	Carcinogen	5.3 @ pH of	4 @ pH of	11	1	1	N/A	0.05
§§ Penta	NIOSH: SM 6300000		6.5 (14)	6.5 (14)					
§ PCP § Durotox § Weedone § Chem-Tol § Lauxtol A § NCI C54933	SAX: PAX250								
§ NCI C55378 § NCI C56655 § Permite § Dowcide 7 § Permacide									
§ Penta-Kil§ Permagard § Penchlorol § Chlorophen § Pentachlorphenol									
§ Pentaclorofenolo § Thompson's Wood Fix § Phenol, Pentachloro-									
§ 2,3,4,5,6-Pentachlorophenol § 1-Hydroxy- 2,3,4,5,6-Pentachlorobenzene			PP	PP		MCL	MCL		
pH	N/A	Harmful	(13)	(13)		(18)	(18)	N/A	
§§									
Phenanthrene (PAH)	85018 or 85-01-8	Toxic			30			0.01	0.25
§§	NIOSH: SF 7175000								
§ Phenantrin	SAX: PCW250								
Phenol	108952 or 108-95-2	Harmful			1.4	300	300	100	10
§§	NIOSH: SJ 3325000								
§ Baker's P and S Liquid and Ointment § NCI C50124 § Benzenol	SAX: PDN750								
§ Monophenol § Oxybenzene § Phenic Acid § Carbolic Acid § Phenylic Acid §									
Hydroxybenzene § Hydroxybenzene § Phenyl Alcohol § Phenyl Hydrate § Phenylic Alcohol §									
Phenyl Hydroxide § Benzene, Hydroxy- § Monohydroxybenzene § RCRA Waste Number									
U188						PP	PP		
Phosphorus, inorganic (20)	14265442 or	Nutrient	(8)	(8)				1	1
§§	14265-44-2								
§ Ortho-phosphorus § phosphorus, Ortho- § reactive phosphorus	NIOSH:								
	SAX:								
Picloram	1918021 or 1918-02-1	Toxic				500	500	0.14	1
§§ Tordon	NIOSH: TJ 7525000								
§ ATCP § K-Pin § Borolin § Amdon Grazon § NCI C00237	SAX: AMU250								
§ Tordon 10K § Tordon 22K § Tordon 101 Mixture									
§ 3,5,6-Trichloro-4-Aminopicolinic Acid § 4-Amino-3,5,6-Trichloropicolinic Acid						MCL	MCL		
Polychlorinated Biphenyls, (sum of all homolog, all isomer, all congener or all	Multiple	Carcinogen		0.014	31,200	0.00064	0.5	N/A	1
Aroclor analyses)									
§§ PCB's									
§ Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1268, 2565, 4465 § Chlophen § Chlorextol	\$								
Chlorinated Biphenyl § Chlorinated Diphenyl § Chlorinated Diphenylene § Chloro Biphenyl									
§ Chloro-1,1-Biphenyl § Clophen § Dykanol § Fenclor § Inerteen § Kanechlor 300, 400,									
500 § Montar § Noflamol § PCB (DOT) § Phenochlor § Polychlorobiphenyl § Pyralene §									
Pyranol § Santotherm § Sovol § Therminol FR-1									
D 1 1 10 M 4 1	0.000 51 0	m ·		PP		PP	MCL	0.4	
Primisulfuron Methyl	86209-51-0	Toxic				42	42	0.1	
§§ Beacon						_	_		
§ Exceed	1(10.10.0	m t.	1			100	100	0.2	
Prometon	1610-18-0	Toxic				100	100	0.3	
§§ Pramitol						 TT A	TT 4		
§	22050 50 5	G	1			HA	HA 50	DT/A	
Pronamide	23950-58-5	Carcinogen				50	50	N/A	
§§ Kerb							***		
§ February 2006		Page 28 of 40	1			HA	HA	February	0000

CIRCULAR DEQ-7, MONTANA NUMERIC WATER QUALITY STANDARDS ₍₉₎									
Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates that a Standard has not been adopted or information is currently unavailable. A '()' indicates that a detailed note of explanation is provided.									
Pollutant	CASRN, NIOSH and SAX		Aquatic Life	e Standards (16)	Bioconcentration	Human Health St	andards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Propachlor	1918-16-7	Toxic				90	90	0.5	
§§ Ramrod									
§						HA	HA		
Propane, 1,2-Dibromo-3-Chloro-	96128 or 96-12-8	Carcinogen				0.2	0.2	N/A	0.05
§§ Dibromochloropropane	NIOSH: TX 8750000								
§ 1,2-Dibromo-3-Chloropopane § Fumagon § Fumazone § NCI C00500 § Nemabrom §	SAX: DDL800								
Nemafume § Nemagon § Nemagone § Nemagone Soil Fumigant § Nemanax § Nemapaz §									
Nemaset § Nematocide § Nematox § OS 1897 § OXY DBCP § SD 1897 § Caswell									
Number 287									
§ RCRA Waste Number U066§ 1-Chloro-2,3-Dibromopropane § DBCP § EPA Pesticide									
Chemical Code 011301						MCL	MCL		
Propazine	139-40-2	Carcinogen				10	10	N/A	
§§						HA	HA		
Propham	122-42-9	Toxic				100	100	0.13	
§§						HA	HA		
Propoxur	114-26-1	Carcinogen				3	3	N/A	
§§ Baygon									
§						HA	HA		
Pyrene (PAH)	129000 or 129-00-0	Toxic			30	830	830	0.25	0.25
§§	NIOSH: UR 2450000								
§ B-Pyrine § beta-Pyrene § Benzo(def)Phenanthrene § Benzo[def]Phenanthrene	SAX: PON250					PP	PP		
Radium 226	Radium 226	Carcinogen /				5 picocuries/liter	5 picocuries/liter	N/A	
§§	13982636 or	Radioactive				Note: The	Note: The		
	13982-63-6					sum of Radium	sum of Radium		
	NIOSH:					226 and 228.	226 and 228.		
	SAX:					MCL	MCL		
Radium 228	Radium 228	Carcinogen /				5 picocuries/liter	5 picocuries/liter	N/A	
§§	15262201 or	Radioactive				Note: The	Note: The		
	15262-20-1					sum of Radium	sum of Radium		
	NIOSH:					226 and 228.	226 and 228.		
	SAX:					MCL	MCL		
Radon 222	14859677 or	Carcinogen /				15 picocuries/	15 picocuries/	N/A	
§§	14859-67-7	Radioactive				liter	liter		
	NIOSH:								
	SAX:					HA	HA		
Selenium	7782492 or 7782-49-2	Toxic	20	5	4.8	50	50	0.6	1
§§ Se	NIOSH: VS 7700000								
§ C.I. 77805 § Colloidal Selenium § Elemental Selenium § Selenium Alloy	VS 8310000, colloidal								
§ Selenium Base § Selenium Dust § Selenium Elemental	SAX: SBO500								
§ Selinium Homopolymer§ Selenium Metal Powder, Non-Pyrophoric § Vandex	SAX: SBP000, colloidal		PP	PP		MCL	MCL		
Silver	7440224 or 7440-22-4	Toxic	0.374 @ 25		0.5	100	100	0.2	0.5
§§ Ag	NIOSH: VW 3500000		mg/l						
§ Argentum § C.I. 77820 § Shell Silver § Silver Atom	SAX: SDI500		hardness(12)						
			PP			HA	HA		

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	WATER Q	UALITY STA	NDARDS ₍₉₎				
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Pollutant	CASRN, NIOSH and SAX		Aquatic Life Standards (16)		Bioconcentration	Human Health S		Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Simazine	122349 or 122-34-9	Carcinogen				4	4	N/A	0.3
§§	NIOSH: XY 5250000								
§ CDT § Herbex § Framed § Bitemol § Radokor § A 2079 § Batazina	SAX: BJP000								
§ Cat (Herbicide) § CET § G 27692 § Geigy 27,692 § Gesaran § Gesatop 50									
§ Simazine 80W § Symazine § Taphazine § W 6658 § Zeapur § Princep									
§ Aquazine § Herbazin § Tafazine § 2,4-bis(Ethylamino)-6-Chloro-s-Triazine									
§ 1-Chloro, 3,5-Bisethylamino-2,4,6-Triazine § 2-Chloro-4,6-Bis(Ethylamino)-1,3,5-Triazine §									
6-Chloro-N,N'-Diethyl-1,3,5-Triazine-2,4-Diyldiamine						MCL	MCL		
Strontium	7447246	Toxic				4,000	4,000	100	
§§	NIOSH:								
	SAX:					HA	HA		
Styrene	100425 or 100-42-5	Carcinogen				100	100	N/A	0.5
§§	NIOSH: WL 3675000								
§ Styrol § Cinnamol § Cinnamene § Cinnamenol § NCI C02200 § Styrole	SAX: SMQ000								
§ Strolene § Styron § Stropor § Vinylbenzol § Phenethylene									
§ Phenylethene § Vinylbenzene § Ethenylbenzene § Phenylethylene									
§ Benzene, Vinyl- § Stryene, Monomer						HA	HA		
Sulfometuron Methyl	74222-97-2	Toxic				1,750	1,750	0.01	
§§ Oust									
§						I	I		
Tebuthiuron	34014-18-1	Toxic				500	500	2	
§§									
§ Spike						HA	HA		
Temperature	N/A	Harmful	(13)	(13)				N/A	
§§									
Terbacil	5902-51-1	Toxic				90	90	2.2	
§§ Sinbar									
§						HA	HA		
Terbufos	13071-79-9	Toxic				0.9	0.9	0.5	
§§ Counter									
§						HA	HA		
Tetrachlorobenzene, 1,2,4,5-	95943 or 95-94-3	Toxic with			1,125	0.97	0.97	N/A	0.1
§§ Benzene, 1,2,4,5-Tetrachloro-	NIOSH: DB 9450000	BCF >300							
§ RCRA Waste Number U207 § 1,2,4,5-Tetrachlorobenzene	SAX: TBN750		ļ			NPP	NPP		
Tetrachloroethane, 1,1,2,2-	79345 or 79-34-5	Carcinogen			5	1.7	2.0	N/A	0.5
§§ Tetrachloroethane	NIOSH: KI 8575000								
§ TCE § Cellon § Westron § Bonoform	SAX: ACK500								
§ sym-Tetrachloroethane § RCRA Waste Number U209									
§ Acetylene Tetrachloride § 1,1,2,2-Tetrachloroethane § Ethane, 1,1,2,2-Tetrachloro- § 1,1-									
Dichloro-2,2-Dichloroethane		ļ	1		<u> </u>	PP	HA		<u> </u>

CIRCUI	AR DEQ-7, MONTA	ANA NUMERIO	C WATER C	UALITY STA	NDARDS ₍₉₎				
Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates the	nat a Standard has not beer	adopted or informa	ation is current	ly unavailable. A '()' indicates that a detai	led note of explanation	ı is provided.		
Pollutant	CASRN, NIOSH and SAX	(Aquatic Li	fe Standards (16)	Bioconcentration	Human Health S	h Standards (17) (3) Trigger Valu		ue Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Tetrachloroethylene	127184 or 127-18-4	Carcinogen			30.6	5	5	N/A	0.5
§§ Perchlorethylene	NIOSH: KX 3850000								
§ NCI C04580 § PCE § Perk § PERC § ENMA § Dow-Per § Perchlor	SAX: TBQ250								
§ Perclene § Perklone § Didakene § Tetra Cap § Percosolve									
§ Perchloroethylene § Tetrachloroethene § Carbon Bichloride									
§ Carbon Dichloride § RCRA Waste Number U210 § Ethylene Tetrachloride									
§ Ethylene, Tetrachloro- § 1,1,2,2-Tetrachloroethylene						MCL	MCL		
Thallium	7440280 or 7440-28-0	Toxic			119	0.24	2	0.3	0.2
§§ TI	NIOSH: XG 3425000								
§ Ramor	SAX: TEI000					PP	MCL		
Thifensulfuron Methyl	79277-27-3	Toxic				910	910	1	
§§									
§ Pinnacle						I	I		
Toluene	108883 or 108-88-3	Toxic			10.7	1,000	1,000	0.01	0.5
§§	NIOSH: XS 5250000								
§ Antisal 1a § NCI C07272 § Toluol § Tolu-Sol § Methacide § Methylbenzol	SAX: TGK750								
§ Methylbenzene § Phenylmethane § Phenyl-Methane § Methyl-Benzene									
§ Benzene, Methyl § RCRA Waste Number U220						MCL	MCL		
Toxaphene	8001352 or 8001-35-2	Carcinogen	0.73	0.0002	13,100	0.0028	0.3	N/A	1
§§	NIOSH: XW 5250000								
§ Attac 4-2 § Alltox § Alltex § Attac 6 § Toxakil § Agricide § Chem-Phene	SAX: THH750								
§ Clor Chem T-590 § Compound 3956 § Crestoxo § Estonox § Geniphene									
§ Gy-Phene § Hercules 3956 § Melipax § Motox § PCC § Phenacide									
§ Phenatox § Toxadust § Camphechlor § Maggot Killer (F)									
§ Toxaphene mixture § Chlorinated-Camphene § Camphene, Octachloro-									
§ RCRA Waste Number P123			PP	PP		PP	HA		
Tralkoxydim (28)	87820-88-0	Carcinogen				20	20	N/A	
§§ Achieve						HA	HA		
trans-1,2-Dichloroethylene	156605 or 156-60-5	Toxic			1.58	100	100	0.05	0.5
§§	NIOSH: KV 9400000								
§ trans-Dichloroethylene § RCRA Waste Number U079 § trans-1,2-Dichloroethane § trans-	SAX: DFI600								
1,2-Dichloroethene § Dichloroethylene, trans-§ trans-Acetylene Dichloride § 1,2-trans-									
Dichloroethylene § Ethene, 1,2-Dichloro-, (E)- § 1,2-Dichloroethylene, trans-									
						MCL	MCL		
trans-1,3-Dichloropropene	10061026 or	Carcinogen			1.91	2	2	N/A	0.5
§§ Telone II	10061-02-6								
§ 1,3-Dichloropropene § 1,3-Dichloropropylene § (E)-1,3-Dichloropropene	NIOSH: UC 8320000								
§ trans-1,3-Dichloropropylene § 1-Propene, 1,3-Dichloro-, (E)-	SAX: DGH000					HA	HA		
trans-Nonachlor (Chlordane component)	39765805 or	Carcinogen			14,100	0.0080	1	N/A	0.4
§§	39765-80-5								
§ Chlordane, trans-Isomer	NIOSH:								
	SAX:					PP	HA		
Triasulfuron	82097-50-5	Toxic				70	70	1	
§§ Amber						I	I		
Tribenuron Methyl	101200-48-0	Carcinogen				8	8	0.1	
§§ Express February 2006		Page 31 of 40				I	I	Fobruar	

CIRCUL	AR DEQ-7, MONTA	NA NUMERIO	C WATER Q	UALITY STA	NDARDS ₍₉₎				
	at a Standard has not been				(2)	ed note of explanation	ı is provided		
Pollutant	CASRN. NIOSH and SAX			fe Standards (16)	Bioconcentration			Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)		Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Tributyltin (TBT)	56573-85-4	Toxic	0.46	0.072				N/A	
11 Dutytem (1D1)	30373-03-4	TOAIC	NPP	NPP				IVA	
Trichlorobenzene, 1,2,4-	120821 or 120-82-1	Toxic			114	35	70	0.02	0.5
§§ Benzene, 1,2,4-Trichloro-	NIOSH: DC 2100000	Tome			111		7.0	0.02	0.2
§ unsym-Trichlorobenzene § 1,2,4-Trichlorobenzene	SAX: TIK250					PP	MCL		
Trichloroethane, 1,1,2-	79005 or 79-00-5	Carcinogen			4.5	3	3	N/A	0.5
§§ Vinyl Trichloride	NIOSH: KJ 3150000							1,112	
§ 1,1,2-Trichloroethane § B-T § Ethane Trichloride § beta-Trichloroethane	SAX: TIN000								
§ 1,2,2-Trichloroethane § RCRA Waste Number U227									
§ NCI C04579 § Ethane, 1,1,2-Trichloro- § Caswell Number 875A [NLM]									
§ EPA Pesticide Chemical Code 081203 [NLM]						HA	HA		
Trichloroethane, 1.1.1-	71556 or 71-55-6	Toxic			5.6	200	200	0.5	0.5
§§ Methyl Chloroform	NIOSH: KJ 2975000								
§ -T § Strobane § Inhibisol § 1,1,1-TCE § Tri-Ethane § Solvent 111	SAX: TIM750								
§ Aerothene TT § Chloroethene § Chlorten § NCI C04626									
§ Methylchloroform § Chloroform, Methyl- § 1,1,1-Trichloroethene § alpha-Trichloroethane									
§ Methyltrichloromethane § RCRA WAste Number U226									
§ 1,1,1-Trichloroethane § Ethane, 1,1,1-Trichloro-						MCL	MCL		
Trichloroethylene	79016 or 79-01-6	Carcinogen			10.6	5	5	N/A	0.5
§§	NIOSH: KX 4550000								
§ TCE § Triad § Vitran § Algylen § Dow-Tri § Lanadin	SAX: TIO750								
§ Vestrol § Anamenth § Benzinol § Tri-Plus § Tri-Clene § Trichlorethene									
§ Trichloroethene § Trichloroethane § Trichlorethylene § Tetrachloroethene									
§ Ethene, Trichloro- § Ethylene Trichloride § Ethylene, Trichloro-									
§ Acetylene Trichloride § 1,1,2-Trichloroethylene § 1,2,2-Trichloroethylene									
§ 1-Chloro-2,2-Dichloroethylene § 1, 1-Dichloro-2-Chloroethylene						MCL	MCL		
Trichlorofluoromethane (HM)	75694 or 75-69-4	Toxic			3.75	10,000	10,000	0.07	0.5
§§ Freon 11	NIOSH: PB 6125000								
§ F 11 § FC 11 § Arcton 9 § Eskimon 11 § Halocarbon 11	SAX: TIP500								
§ Algofrene Type 1 § RCRA Waste Number U121 § Fluorocarbon Number 11									
§ NCI C04637 § Isotron 11 § Fluorotrichloromethane § Isceon 131									
§ Monofluorotrichloromethane § Ucon Refrigerant 11									
§ Trichloromonofluoromethane						PP	PP		
Trichlorophenol, 2,4,5-	95954 or 95-95-4	Harmful			110	7	7	10	10
§§ Dowcide B	NIOSH: SN 1400000								
§ 2,4,5-Trichlorophenol § Nurelle § Dowcide 2 § Collunosol § Preventol 1	SAX: TIV750								
§ RCRA Waste Number U230 § NCI C61187						I	I		
Trichlorophenol, 2,4,6-	88062 or 88-06-2	Carcinogen			150	14	30	N/A	10
§§ Phenachlor	NIOSH: SN 1575000								
§ 2,4,6-Trichlorophenol § Dowcide 2S § RCRA Waste Number U231	SAX: TIW000								
§ Omal § Phenol, 2,4,6-trichloro- § NCI C02904						PP	HA		

CIRCULAR DEQ-7, MONTANA NUMERIC WATER QUALITY STANDARDS ₍₉₎									
Except where indicated, values are listed as micro-grams-per-liter (µg/L). A '' indicates that a Standard has not been adopted or information is currently unavailable. A '()' indicates that a detailed note of explanation is provided.									
Pollutant	CASRN, NIOSH and SAX		Aquatic Lif	e Standards (16)	Bioconcentration	Human Health St	tandards (17) (3)	Trigger Value	Required
Element / Chemical Compound or Condition	Numbers	Category (1) (2)	Acute (3)	Chronic (4)	Factor (BCF) (5)	Surface Water	Ground Water	(22)	Reporting
Trichlorophenoxy Proprionic Acid, 2 (2,4,5-)	93721 or 93-72-1	Toxic				10	50	0.075	0.1
§§ Fenoprop	NIOSH: UF 8225000								
§ 2 (2,4,5-Trichlorophenoxy) Proprionic Acid § Kuran § Propon § Silvex	SAX: TIX500								
§ Aqua-Vex § Ded-Weed § Sta-Fast § 2,4,5-TP § Color-Set § Weed-B-Gon § Double									
Strength § RCRA Waste Number U233 § 2,4,5-Trichlorophenoxypropionic Acid § (2,4,5-									
Trichlorophenoxy)Propionic Acid § 2-(2,4,5-Trichlorophenoxy)-Proprionic Acid § (+/-)-2-(2,4,5-									
Trichlorophenoxy)propanoic Acid						NRWQC	MCL		
Trichlorophenoxyacetic Acid	93-76-5	Toxic				70	70	N/A	
§§ Brush-Rhap									
§ 2,4,5-T (Brush-Rhap)						HA	HA		
Triclopyr - amine salt	55335-06-3	Toxic				350	350	0.25	
§§ Garlon									
§						I	I		
Trifluralin	1582-09-8	Carcinogen				5	5	N/A	
§§ Treflan		<u> </u>							
§ Buckle						HA	HA		
Trihalomethanes, total	Multiple	Carcinogen				100	100	N/A	2
§§	•	O .							
§ TTHMs						MCL	MCL		
Turbidity (20)	N/A	Harmful	(13)	(13)				N/A	1 NTU
§§			, ,						
Uranium, natural	7440611 or 7440-61-1	Carcinogen /				30	30	0.03	
§§ U	NIOSH: YR 3490000	Radioactive							
§ Uranium Metal, Pyrophoric	SAX: UNS000					MCL	MCL		
Vinyl 2-Chloroethyl Ether	110758 or 110-75-8	Carcinogen			0.557			N/A	
§§ Vinyl B-Chloroethyl Ether-	NIOSH: KN 6300000								
§ (2-Chloroethoxy)Ethene § RCRA Waste Number U042	SAX: CHI250								
§ 2-Chloroethyl Vinyl Ether									
Vinyl Chloride	75014 or 75-01-4	Carcinogen			1.17	0.25	0.2	N/A	0.5
§§	NIOSH: KU 9625000	<u> </u>							
§ VC § VCM § Chlorethene § Chloroethene § Chlorethylene	SAX: VNP000								
§ Chloroethylene § Ethylene, Chloro- § Monochloroethylene § Ethylene Monochloride §									
RCRA Waste Number U043 § Vinyl Chloride Monomer									
§ Vinyl C Monomer § Trovidur						PP	HA		
Xylenes	1330207 or 1330-20-7	Toxic			1.17	10,000	10,000	0.5	1.5
§§	NIOSH: ZE 2100000								
§ Xylol § Violet 3 § Mixed Xylenes § Methyl Toluene § Dimethylbenzene § RCRA Waste	SAX: XGS000								
Number U239 § NCI C55232 § Total equals the sum of meta, ortho, and para.									
						MCL	MCL		
Zinc	7440666 or 7440-66-6	Toxic	37 @ 25mg/l	37 @ 25 mg/l	47	2,000	2,000	5	10
§§ Zn	NIOSH: ZG 8600000		hardness(12)	hardness (12)					
§ Blue Powder § C.I. 77945 § C.I. Pigment Black 16 § C.I. Pigment Metal 6	SAX: ZBJ000								
§ Emanay Zinc Dust § Granular Zinc § Jasad § Merrillite § Pasco § Zinc, Powder or Dust,									
non-Pyrophoric § Zinc, Powder or Dust, Pyrophoric			PP	PP		HA	HA		<u> </u>

- (1) Based on EPA's categories and include parameters determined to be to toxic (toxin), carcinogenic (carcinogen), or harmful. Harmful parameters include nutrients, biological agents, and those parameters which cause taste and/or odor effects or physical effects.
- (2) Carcinogens are chemicals classified by EPA as carcinogens for an oral route of exposure in the drinking water regulations and health advisories (EPA 822-B-96-002) and those listed as carcinogens in the EPA priority pollutants list. Carcinogens include those parameters in classifications A (Human Carcinogens), B1 or B2 (Probable Human Carcinogens), and C (Possible Human Carcinogen).
- (3) No surface water or ground water sample concentration shall exceed these values.
- (4) No surface water or ground water average concentration shall exceed these values based upon a four-day (96-hour) or longer period.
- (5) All bioconcentration factors (BCF's) were developed by the EPA as part of the Standards development as mandated by Section 304(a) of the federal Clean Water Act. National Recommended Water Quality Criteria: 2002 Human Health Criteria Calculation Matrix (EPA-822-R-02-012).
- (6) The 24 hour geometric mean value must not exceed these values.
- (7) Freshwater Aquatic Life Standards for total ammonia nitrogen (mg/l NH3-N plus NH4-N).

Because these formulas are non-linear in pH and temperature, the Standard is the average of separate evaluations of the formulas reflective of the fluctuations of flow, pH, and temperature within the averaging period; it is not appropriate to apply the formula to average pH, temperature and flow.

1. The one-hour average concentration of total ammonia nitrogen (in mg N/L) does not exceed the CMC (acute criterion) calculated using the following equations.

Where salmonid fish are present:

$$CMC = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$$
Or where salmonid fish are not present:
$$CMC = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$$

2. The thirty-day average concentration of total ammonia nitrogen (in mg N/L) does not exceed the CCC (chronic criterion) calculated using the following equations.

When fish early life stages¹ are present:

$$CCC = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) \times MIN (2.85, 1.45 \times 10^{0.028 \times (25 - T)})$$
When fish early life stages¹ are absent:
$$CCC = \left(\frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) \times 1.45 \times 10^{0.028 \times (25 - MAX (T,7))}$$

3. In addition, the highest four-day average within the 30-day period should not exceed 2.5 times the CCC.

¹ Includes all embryonic and larval stages and all juvenile forms of fish to 30-days following hatching.

Table 1. pH-Dependent Values of the CMC (Acute Criterion) Ammonia Standard.

CMC, total ammonia nitrogen (mg/l NH ₃ -N plus NH ₄ -N)						
pН	Salmonids	Salmonids				
	Present	Absent				
6.5	32.6	48.8				
6.6	31.3	46.8				
6.7	29.8	44.6				
6.8	28.1	42.0				
6.9	26.2	39.1				
7.0	24.1	36.1				
7.1	22.0	32.8				
7.2	19.7	29.5				
7.3	17.5	26.2				
7.4	15.4	23.0				
7.5	13.3	19.9				
7.6	11.4	17.0				
7.7	9.65	14.4				
7.8	8.11	12.1				
7.9	6.77	10.1				
8.0	5.62	8.40				
8.1	4.64	6.95				
8.2	3.83	5.72				
8.3	3.15	4.71				
8.4	2.59	3.88				
8.5	2.14	3.20				
8.6	1.77	2.65				
8.7	1.47	2.20				
8.8	1.23	1.84				
8.9	1.04	1.56				
9.0	0.885	1.32				

Table 2. Temperature and pH-Dependent Values of the CCC (Chronic Criterion) for Fish Early Life Stages Present and

for Fish Early Life Stages Absent. CCC for Fish Early Life Stages Present, total ammonia nitrogen (mg/l NH₃-N plus NH₄-N) CCC for Fish Early Life Stages Absent, total ammonia nitrogen (mg/l NH₃-N plus NH₄-N) Temperature, C Temperature, C pН 14 16 18 20 22 0-710 12 13 15* 0 24 26 28 30 8 9 11 14 16* 6.5 6.67 6.67 6.06 5.33 4.68 4.12 3.62 3.18 2.80 2.46 10.8 10.1 9.51 8.92 8.36 7.8 7.35 6.89 6.46 6.06 4.61 4.05 3.13 2.42 10.7 9.99 9.37 8.79 8.24 7.24 6.79 5.97 6.57 6.57 5.97 5.25 3.56 2.75 7.72 6.36 6.6 4.52 3.98 3.50 3.07 2.70 3.37 10.5 9.81 9.20 8.62 8.08 7.58 7.11 6.7 6.44 6.44 5.86 5.15 6.66 6.25 5.86 6.8 6.29 6.29 5.72 5.03 4.42 3.89 3.42 3.00 2.64 2.32 10.2 9.58 8.98 8.42 7.90 7.40 6.94 6.51 6.10 5.72 6.9 6.12 6.12 5.56 4.89 4.30 3.78 3.32 2.92 2.57 2.25 9.93 9.31 8.73 8.19 7.68 7.20 6.75 6.33 5.93 5.56 7.0 4.72 4.15 3.21 2.82 2.48 9.60 9.00 8.43 7.91 5.37 5.91 5.91 5.37 3.65 2.18 7.41 6.95 6.52 5.73 6.11 7.1 2.70 2.09 9.20 5.67 5.67 4.53 3.98 3.50 3.08 2.38 8.63 8.09 7.58 7.11 6.67 6.25 5.86 5.49 5.15 5.15 7.2 5.39 5.39 4.90 4.31 3.78 3.33 2.92 2.57 2.26 1.99 8.75 8.20 7.69 7.21 6.76 6.34 5.94 5.57 5.22 4.90 7.3 5.08 5.08 4.06 3.57 3.13 2.76 2.42 2.13 8.24 7.73 7.25 6.79 6.37 5.97 5.60 5.25 4.92 4.61 4.61 1.87 7.4 4.73 3.32 2.92 2.57 2.26 1.98 7.69 7.21 6.76 6.33 5.94 5.57 5.22 4.89 4.59 4.30 4.73 4.30 3.78 1.74 7.5 4.36 4.36 3.97 3.49 3.06 2.69 2.37 2.08 1.83 7.09 6.64 6.23 5.84 5.48 5.13 4.81 4.23 3.97 1.61 4.51 7.6 3.98 3.98 3.61 3.18 2.79 2.45 2.16 1.90 1.67 1.47 6.46 6.05 5.67 5.32 4.99 4.68 4.38 4.11 3.85 3.61 7.7 3.58 3.58 3.25 2.86 2.51 2.21 1.94 1.71 1.50 1.32 5.81 5.45 5.11 4.79 4.49 4.21 3.95 3.70 3.47 3.25 7.8 3.18 3.18 2.89 2.54 2.23 1.96 1.73 1.53 1.33 1.17 5.17 4.84 4.54 4.26 3.99 3.74 3.51 3.29 3.09 2.89 7.9 2.80 2.54 2.24 1.96 1.52 1.33 1.17 1.03 4.54 4.26 3.99 3.74 3.09 2.89 2.71 2.54 2.80 1.73 3.51 3.29 8.0 2.43 2.43 2.21 1.94 1.71 1.50 1.32 1.16 1.02 0.897 3.95 3.70 3.47 3.26 3.05 2.86 2.68 2.52 2.36 2.21 8.1 2.10 2.10 1.68 1.47 1.29 1.00 0.879 0.773 3.41 3.19 2.99 2.81 2.63 2.47 2.31 2.17 2.03 1.91 1.91 1.14 8.2 1.79 1.43 1.26 0.973 0.855 0.752 0.661 2.91 2.73 2.56 2.40 2.11 1.98 1.85 1.74 1.79 1.63 1.11 2.25 1.63 8.3 1.22 1.07 0.727 0.639 0.562 2.47 2.32 2.18 2.04 1.48 1.52 1.52 1.39 0.941 0.827 1.91 1.79 1.68 1.58 1.39 8.4 1.29 1.29 1.17 1.03 0.906 0.796 0.700 0.615 0.541 0.475 2.09 1.96 1.84 1.73 1.62 1.52 1.42 1.33 1.25 1.17 8.5 1.09 1.09 0.990 0.870 0.765 0.520 0.401 1.37 1.28 1.20 1.13 0.990 0.672 0.591 0.457 1.77 1.66 1.55 1.46 1.06 8.6 0.439 0.386 0.339 1.31 1.23 1.01 0.836 0.920 0.920 0.836 0.735 0.646 0.568 0.499 1.49 1.40 1.15 1.08 0.951 0.892 8.7 0.778 0.778 0.707 0.622 0.547 0.480 0.422 0.371 0.326 0.287 1.26 1.18 1.11 1.04 0.976 0.915 0.858 0.805 0.754 0.707 8.8 0.661 0.661 0.601 0.528 0.464 0.408 0.359 0.315 0.277 0.244 1.07 1.01 0.944 0.885 0.829 0.778 0.729 0.684 0.641 0.601 8.9 0.269 0.208 0.565 0.513 0.451 0.397 0.349 0.306 0.237 0.917 0.860 0.806 0.756 0.709 0.664 0.623 0.584 0.548 0.513 0.565 9.0 0.486 0.486 0.442 0.389 0.342 0.300 0.264 0.232 0.204 0.179 0.790 0.740 0.694 0.651 0.572 0.536 0.503 0.471 0.442 0.610

^{*}At 15 C and above, the criterion for fish ELS absent is the same as the criterion for fish ELS present

- (8) A plant nutrient, excessive amounts of which may cause violations of Administrative Rules of Montana (ARM) 17.30.637 (1)(e).
- (9) Approved methods of sample preservation, collection, and analysis for determining compliance with the standards set forth in DEQ-7 are found in the surface water quality standards (ARM17.30.601, et seq.) and the ground water rules (ARM 17.30.1001, et seq.).

Standards for metals (except aluminum) in surface water are based upon the analysis of samples following a "total recoverable" digestion procedure (Section 9.4, "Methods of Analysis of Water and Wastes", 1983, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, EPA-600/4-79-020, or equivalent). Standards for alpha emitters and gamma emitters in surface waters are based upon the analysis of unfiltered samples and appropriate EPA approved analysis methods.

Standards for metals in ground water are based upon the dissolved portion of the sample (after filtration through a 0.45 µm membrane filter, as specified in "Methods for Analysis of Water and Wastes" 1983, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, EPA-600/4-79-020, or equivalent). Standards for alpha emitters, beta emitters and gamma emitters in ground water are based upon the analysis of filtered samples and appropriate EPA approved analysis methods.

Standard for organic parameters in surface water and ground water are based on unfiltered samples.

- (10) Calculation of an equivalent concentration of 2,3,7,8-TCDD is to be based on congeners of CDDs/CDFs and the toxicity equivalency factors (TEF) in Table 5 page 787 of van den Berg, M: Bosveld, ATC: et al. (1998) Toxicity equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for humans and wildlife. Environ Health Perspect 106(12):775-792. The analysis method to be used is EPA Method 1613, Revision B, Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS), EPA Method 8290, or other method approved by the department on case by case basis. The Required Reporting Value(s) (RRV) for Dioxin and congeners are to be the lowest detection level for the analysis method approved by the Department.
- (11) Radionuclides consisting of alpha emitters, beta emitters and gamma emitters are classified as carcinogens. Alpha emitters means the total radioactivity due to alpha particle emission. Beta emitters means the total radioactivity due to beta particle emission. Gamma emitters means the total radioactivity due to gamma particle emission. The emitters covered under this Standard include but are not limited to:

Cesium, radioactive Iodine, radioactive Strontium -89 and -90, radioactive Tritium Gamma photon emitters

(12) Freshwater Aquatic Life Standards for these metals are expressed as a function of total hardness (mg/l, CaCO3). The values displayed in the chart correspond to a total hardness of 25 mg/l. The hardness relationships are:

	Acute = exp.{ma[ln(hardness)]+ba}		<pre>Chronic = exp.{mc[ln(hardness)]+bc}</pre>	
	ma	ba	mc	Bc
cadmium	1.0166	-3.924	0.7409	-4.719
Copper	0.9422	-1.700	0.8545	-1.702
chromium (III)	0.819	3.7256	0.819	0.6848
Lead	1.273	-1.46	1.273	-4.705
Nickel	0.846	2.255	0.846	0.0584
Silver	1.72	-6.52		
Zinc	0.8473	0.884	0.8473	0.884

Note: If the hardness is <25mg/L as CaCO3, the number 25 must be used in the calculation. If the hardness is greater than or equal to 400 mg/L as CaCO3, 400 mg/L must be used in the calculation.

- (13) This standard is based upon Water-Use Classifications. See Administrative Rules of Montana (ARM), title 17, Chapter 30 Water Quality, Sub-Chapter 6 Surface Water Quality Standards.
- (14) Freshwater Aquatic Life Standard for pentachlorophenol with pH. Values displayed in the chart correspond to a pH of 6.5 and are calculated as follows: $Acute = \exp[1.005(pH) 4.869]$ Chronic = $\exp[1.005(pH) 5.134]$
- (15) Freshwater Aquatic Life Standard for dissolved oxygen in milligrams per liter are as follows:

	Standards for Waters Classified A-1, B-1, B-2, C-1, and C-2		Standards for Waters B-3, C-3, and I	Classified
	Early Life Stages ^{1,2}	Other Life Stages	Early Life Stages ²	Other Life Stages
30 Day Mean	N/A ³	6.5	N/A ³	5.5
7 Day Mean	9.5 (6.5)	N/A	6.0	N/A
7 Day Mean Minimum	N / A ³	5.0	N/A ³	4.0
1 Day Minimum ⁴	8.0 (5.0)	4.0	5.0	3.0

¹ These are water column concentrations recommended to achieve the required inter-gravel dissolved oxygen concentrations shown in parentheses. For species that have early life stages exposed directly to the water column, the figures in parentheses apply.

² Includes all embryonic and larval stages and all juvenile forms of fish to 30-days following hatching.

³ N/A (Not Applicable).

⁴ All minima should be considered as instantaneous concentrations to be achieved at all times.

⁽¹⁶⁾ Aquatic Life Standards apply to surface waters only and are based upon the analysis of samples following a "total recoverable" digestion procedure (Section 9.4, "Methods for Analysis of Water and Wastes", 1983, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, EPA-600/4-79-020, or equivalent).

(17) Source of the criteria used to derive the standard:

PP = priority pollutant criteria

NPP = non-priority pollutant criteria

MCL = Maximum contaminate level from the drinking water regulations

SMCL =secondary maximum contaminate level

HA = health advisory all from EPA's "Drinking Water Standards and Health Advisories" (October 1996)

I = standard derived from data obtained from federal data sources available on the Internet.

NRWQC = National Recommended Water Quality Criteria

- (18) The Narrative Standards are located in the Administrative Rules of Montana (ARM) 17.30.601 et seq. and ARM 17.30.1001 et seq.
- (19) The Required Reporting Value (RRV) is the detection level that must be achieved in reporting surface water or ground water monitoring or compliance data to the department unless otherwise specified in a permit, approval or authorization issued by the department. The RRV is the Department's best determination of a level of analysis that can be achieved by the majority of commercial, university, or governmental laboratories using EPA approved methods or methods approved by the department.
- (20) Applicable to surface waters only.
- (21) Based on taste and odor thresholds given in EPA 822-f-97-008 December 1997.
- (22) Trigger Values are used to determine if a given increase in the concentration of toxic parameters is significant or non-significant as per the non-degradation rules ARM 17.30.701 et seq. The acronym "N/A" means "not applicable".
- (23) The concentration of iron must not reach values that interfere with the uses specified in the surface and ground water standards (17.30.601 et seq. and 17.30.1001 et seq.) The Secondary Maximum Contaminant Level of 300 micrograms per liter which is based on aesthetic properties such as taste, odor, and staining may be considered as guidance to determine the levels that will interfere with the specified uses.
- (24) The concentration of manganese must not reach values that interfere with the uses specified in the surface and ground water standards (17.30.601 et seq. and 17.30.1001 et seq.). The Secondary Maximum Contaminant Level of 50 micrograms per liter which is based on aesthetic properties such as taste, odor, and staining may be considered as guidance to determine the levels that will interfere with the specified uses.
- (25) CASRN is an acronym for the American Chemical Society's Chemical Abstracts Service Registry Number.
- (26) The NIOSH RTECS number is a unique number used for identification in the National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances.
- (27) SAX number in the format AAA123 is a unique number for identification of materials in the Dangerous Properties of Industrial Materials, authors N. Irving Sax and Richard J. Lewis, publisher Van Nostrand Reinhold.
- (28) The sum of the concentrations of tralkoxydim and its breakdown products shall not exceed the standards listed. For a list of known breakdown products, see EPA memorandum "EFED's Section 3 Review for Tralkoxydim (Chemical #121000; Case # 060780; DP Barcodes 0234682, 0234752, 0238697, 0235723 & 0239519)," and the associated "Environmental Fate Assessment for Tralkoxydim."

(29) The Human Health water quality standard for Arsenic is as follows:

For surface water through January 22 2006 18 ug/L, Health Advisory based
For ground water through January 22 2006 20 ug/L, Health Advisory based
For surface water from **January 23 2006 10** ug/L, Maximum Contaminant Level based
For ground water from **January 23 2006 10** ug/L, Maximum Contaminant Level based

(30) Ground water human health standard is based on the relative potency for selected PAH compounds listed in Table 8 of the EPA "Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons" July 1993, EPA/600/R-93/089.