



**Attachment 2
LIST OF REVISIONS TO CRITERIA SINCE DECEMBER 2002**

EFFECTIVE DATE MAY 1, 2006

HAZARDOUS SUBSTANCE	CAS #	PATHWAY	PREVIOUS CRITERIA	REVISED CRITERIA	REASON FOR CHANGE
Bromate	15541454	Criteria other than Drinking Water (DW) and soil protective of DW.	None	See Op Memo 1, Attachment 1	New Hazardous Substance (R 299.5706a(10))

EFFECTIVE DATE APRIL 10, 2006

HAZARDOUS SUBSTANCE	CAS #	PATHWAY	PREVIOUS CRITERIA	REVISED CRITERIA	REASON FOR CHANGE
para-Chlorobenzenesulfonic acid (para-CBSA)	98668	All	None	See Op Memo 1, Attachment 1	New Hazardous Substance (R 299.5706a(10))

EFFECTIVE DATE OCTOBER 31, 2005

HAZARDOUS SUBSTANCE	CAS #	PATHWAY	PREVIOUS CRITERIA	REVISED CRITERIA	REASON FOR CHANGE
Arsenic	7440382	Res DWC	50 (A)	10 (A)	New State Drinking Water Standard (R 299.5706a(12))
		Ind/Com DWC	50 (A)	10 (A)	
		Res DWPC	23,000	4,600	
		Ind/Com DWPC	23,000	4,600	



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Bromate	15541454	Drinking water and soil protective of DW.	None	See Op Memo 1, Attachment 1	New Hazardous Substance (R 299.5706a(10))

REVISIONS MADE FROM DECEMBER 21, 2002, TO DECEMBER 10, 2004, VIA RRD OP MEMO 1

HAZARDOUS SUBSTANCE	CAS #	PATHWAY	PREVIOUS CRITERIA	REVISED CRITERIA	REASON FOR CHANGE
Acetaldehyde (I)	75070	GSI	500 (M)	130	TDL changed from 500 to 100 (R 299.5103(I))
Acetate	71501	All	None	See Op Memo 1, Attachment 1	New Hazardous Substance (R 299.5706a(10))
Acetic acid	64197	Res DWC	18,000 (M)	4,200	TDL changed from 18,000 to 1,000 (R 299.5103(I))
		Ind/Com DWC	18,000 (M)	12,000	
		GSI	18,000 (M)	1,000 (M)	TDL changed from 18,000 to 1,000 (R 299.5103(I) and R 299.5707)
		Res DWPC	9.05E+5 (M)	84,000	TDL changed from 9.0E+5 to 20,000 (R 299.5103(I))
		Ind/Com DWPC	9.0E+5 (M)	2.4E+5	
		GSI PC	9.0E+5 (M)	3.6E+5	
Acrylonitrile (I)	107131	Res DWPC	52	100 (M)	TDL changed from 10 to 100 (R 299.5103(I) and R 299.5707)
		GSI PC	98	100 (M, X)	



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Acrylonitrile (I) (cont.)	107131	Footnote (X) surface water HDV	0.87	2.0 (M)	TDL changed from 1.0 to 2.0 (R 299.5103(I) and R 299.5707)
		Footnote (X) GSI PC for HDV	17	100 (M)	
Aldicarb sulfone	1646884	Res DWPC	50 (M)	200 (M)	TDL changed from 50 to 200 (R 299.5103(I) and R 299.5707)
		Ind/Com DWPC	50 (M)	200 (M)	
Aldicarb sulfoxide	1646873	Res DWPC	80	200 (M)	TDL changed from 50 to 200 (R 299.5103(I) and R 299.5707)
		Ind/Com DWPC	80	200 (M)	
Aniline	62533	GSI	20 (M)	4	TDL changed from 20 to 4 (R 299.5103(I))
		Res DWPC	1,700 (M)	1,100	TDL changed from 1,700 to 330 (R 299.5103(I))
		GSI PC	1,700 (M)	330 (M)	TDL changed from 1,700 to 330 (R 299.5103(I) and R 299.5707)
Antimony	7440360	Res DWPC	500 (M)	4,300	TDL changed from 500 to 300 (R 299.5103(I))
Benzo(b)fluoranthene (Q)	205992	Res DWC	2.0 (M)	1.5 (S,AA)	TDL changed from 2.0 to 1.0 (R 299.5103(I) and R 299.5708)
		Ind/Com DWC	2.0 (M)	1.5 (S,AA)	
		GCC	2.0 (M,AA)	1.5 (S,AA)	
Benzo(k)fluoranthene (Q)	207089	Res DWC	5.0 (M)	1.0 (M)	TDL changed from 5.0 to 1.0 (R 299.5103(I) and R 299.5707)



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Benzo(k)fluoranthene (Q) (cont.)	207089	Ind/Com DWC	5.0 (M)	1.0 (M)	TDL changed from 5.0 to 1.0 (R 299.5103(I) and R 299.5707)
		GCC	5.0 (M,AA)	1.0 (M,AA)	TDL changed from 5.0 to 1.0 (R 299.5103(I) and R 299.5708)
Benzo(g,h,i)perylene	191242	Res DWC	5.0 (M)	1.0 (M)	TDL changed from 5.0 to 1.0 (R 299.5103(I) and R 299.5707)
		Ind/Com DWC	5.0 (M)	1.0 (M)	
		GCC	5.0 (M,AA)	1.0 (M,AA)	
Benzo(a)pyrene (Q)	50328	GCC	2.0 (M,AA)	1.0 (M,AA)	TDL changed from 2.0 to 1.0 (R 299.5103(I) and R 299.5707)
Benzyl chloride	100447	Res DWPC	200 (M)	150	TDL changed from 200 to 150 (R 299.5103(I))
bis(2-Chloroethyl)ether (I)	111444	Res DWPC	330 (M)	100	TDL changed from 330 to 100 (R 299.5103(I))
		Ind/Com DWPC	330 (M)	170	
		GSI PC	330 (M)	300	
Bromodichloromethane	75274	Res DWC	100 (A,W)	80 (A,W)	New State Drinking Water Standard (R 299.5706a(12))
		Ind/Com DWC	100 (A,W)	80 (A,W)	
		Res DWPC	2,000 (W)	1,600 (W)	
		Ind/Com DWPC	2,000 (W)	1,600 (W)	
Bromoform	75252	Res DWC	100 (A,W)	80 (A,W)	New State Drinking Water Standard (R 299.5706a(12))



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Bromoform (cont.)	75252	Ind/Com DWC	100 (A,W)	80 (A,W)	New State Drinking Water Standard (R 299.5706a(12))
		Res DWPC	2,000 (W)	1,600 (W)	
		Ind/Com DWPC	2,000 (W)	1,600 (W)	
Chloroform	67663	Res DWC	100 (A,W)	80 (A,W)	New State Drinking Water Standard (R 299.5706a(12))
		Ind/Com DWC	100 (A,W)	80 (A,W)	
		Res DWPC	2,000 (W)	1,600 (W)	
		Ind/Com DWPC	2,000 (W)	1,600 (W)	
4-Chloro-3-methylphenol	59507	GSI PC	330 (M)	280	TDL changed from 330 to 280 (R 299.5103(l))
Chlorpyrifos	2921882	GSI	NA	2.0 (M)	New R 57 value (R 299.5706a(11) and R 299.5707)
		GSI PC	NA	1,500	New GSI value (R 299.5706a(11))
Chrysene (Q)	218019	Res DWC	5.0 (M)	1.6 (S)	TDL changed from 5.0 to 1.0 (R 299.5103(l) and R 299.5708)
		Ind/Com DWC	5.0 (M)	1.6 (S)	
		GCC	5.0 (M)	1.6 (S, AA)	
Cyanazine	21725462	Res DWC	10 (M)	2.3	TDL changed from 10 to 2.0 (R 299.5103(l))
		Ind/Com DWC	10 (M)	9.4	



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Cyanazine (cont.)	21725462	Res DWPC	500 (M)	200	TDL changed from 500 to 200 (R 299.5103(l))
		Ind/Com DWPC	500 (M)	200	
		Footnote (X) surface water HDV	0.93	2.0 (M)	TDL changed from 10 to 2 (R 299.5103(l) and R 299.5707)
		Footnote (X) GSI PC HDV	500 (M)	200 (M)	TDL changed from 500 to 200 (R 299.5103(l) and R 299.5707)
Cyanide (P,R)	57125	GSI PC	200 (M)	100	TDL changed from 200 to 100 (R 299.5103(l))
Dibenzofuran	132649	GSI	5.0 (M)	4.0	TDL changed from 5 to 4 (R 299.5103(l))
Dibromochloromethane	124481	Res DWC	100 (A,W)	80 (A,W)	New State Drinking Water Standard (R 299.5706a(12))
		Ind/Com DWC	100 (A,W)	80 (A,W)	
		Res DWPC	2,000 (W)	1,600 (W)	
		Ind/Com DWPC	2,000 (W)	1,600 (W)	
Dibromochloropropane	96128	Res DWPC	4.0	10 (M)	TDL changed from 4 to 10 (R 299.5103(l) and R 299.5707)
		Ind/Com DWPC	4.0 (M)	10 (M)	
Dicamba	1918009	All	None	See Attachment 1	New Hazardous Substance (R 299.5706a(10))
Dinoseb	88857	GSI PC	20	200 (M)	TDL changed from 20 to 200 (R 299.5103(l) and R 299.5707)



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Epichlorohydrin (I)	106898	Res DWPC	40	100	TDL changed from 10 to 100 (R 299.5103(I))
		Ind/Com DWPC	40	100	DWC used to calculate DWPC changed due to TDL change (R 299.5103(I))
Ethylene dibromide	106934	Res DWC	1.0 (M)	0.05 (A)	TDL changed from 1.0 to 0.05 (R 299.5103(I))
		Ind/Com DWC	1.0 (M)	0.05 (A)	
		GSI	1.0 (M)	0.2 (X)	
		Footnote (X) surface water HDV	Not listed in (X) footnote	0.05 (M)	TDL changed from 1.0 to 0.05 which resulted in HDV being lower than GSI (R 299.5103(I))
		Res DWPC	250 (M)	20 (M)	TDL changed from 250 to 20 (R 299.5103(I) and R 299.5707)
		Ind/Com DWPC	250 (M)	20 (M)	
		GSI PC	250 (M)	20 (M)	
		Res DCC	250 (M)	92	TDL changed from 250 to 20 (R 299.5103(I) and R 299.5707)
Fluoranthene	206440	GSI	5.0 (M)	1.6	TDL changed from 5.0 to 1.0 (R 299.5103(I) and R 299.5707)
Formic acid (I,U)	64186	Res DWC	18,000 (M)	10,000	TDL changed from 18,000 to 1,000 (R 299.5103(I))
		Res DWPC	9.0E+5 (M)	2.0E+5	TDL changed from 9.0E+5 to 20,000 (R 299.5103(I))
		Ind/Com DWPC	9.0E+5 (M)	5.8E+5	
		Res VSIC	9.0E+5 (M)	2.1E+5	
		Res VSIC 5M	9.0E+5 (M)	1.4E+5	



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Formic acid (I,U) (cont.)	64186	Res VSIC 2M	9.0E+5 (M)	1.4E+5	TDL changed from 9.0E+5 to 20,000 (R 299.5103(I))
		Ind/Com Infinite VSIC	9.0E+5 (M)	2.6E+5	
		Ind/Com VSIC 5M	9.0E+5 (M)	1.6E+5	
		Ind/Com VSIC 2M	9.0E+5 (M)	1.6E+5	
Hexabromobenzene	87821	Res DWC	10 (M)	0.17 (S)	TDL changed from 10 to 0.02 (R 299.5103(I) and R 299.5708)
		Ind/Com DWC	10 (M)	0.17 (S)	
		GCC	10 (M)	0.17 (S)	
		Res DWPC	3.2E+5	5,400	DWC used to calculate DWPC changed as a result of TDL change (R 299.5103(I))
		Ind/Com DWPC	3.2E+5	5,400	
		GCC PC	3.2E+5	5,400	GCC used to calculate GCC PC changed as a result of TDL change (R 299.5103(I))
Hexachlorobenzene (C-66)	118741	GSI	ID	0.2 (M)	Updated R 57 value (R 299.5706a(11) and R 299.5707)
		GSI PC	ID	350	Updated R 57 value (R 299.5706a(11))
Hexachlorobutadiene (C-46)	87683	GSI	5.0 (M)	0.05	TDL changed from 5.0 to 0.05 (R 299.5103(I))
		GSI PC	330 (M)	91	TDL changed from 330 to 50 (R 299.5103(I))
Mercury (Total) (B,Z)	Varies	GSI PC	100 (M)	50 (M)	TDL changed from 100 to 50 (R 299.5103(I) and R 299.5707)



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Methane	74828	Res and Ind/Com SVIIC	None	8.4E+6 ug/m3 (GG)	To address acute physical hazards, specifically explosivity (R 299.5728(1)(d)), where criteria were not previously available (R 299.5706a(11))
Methanol	67561	GSI	1,000 (M)	480	TDL changed from 1,000 to 400 (R 299.5103(l))
2-Methyl-4,6-dinitrophenol	534521	Res DWPC	1,700 (M)	830 (M)	TDL changed from 1,700 to 830 (R 299.5103(l) and R 299.5707)
		Ind/Com DWPC	1,700 (M)	830 (M)	
Metribuzin	21087649	All	None	See Op Memo 1, Attachment 1	New Hazardous Substance (R 299.5706a(10))
Nitrobenzene (l)	98953	Res DWPC	200 (M)	330 (M)	TDL changed from 200 to 330 (R 299.5103(l) and R 299.5707)
		Ind DWPC	200 (M)	330 (M)	
		Footnote (X) GSIPC for HDV	200 (M)	330 (M)	
		Ind/Com DWPC	1,700 (M)	830 (M)	TDL changed from 1,700 to 830 (R 299.5103(l) and R 299.5707)
Pentachlorobenzene	608935	GSI	2.0 (M)	5.0 (M)	TDL changed from 2.0 to 5.0 (R 299.5103(l) and R 299.5707)
		GSI PC	NA	9,500	Updated R 57 value (R 299.5706a(11))
Phenanthrene	85018	GSI	5.0 (M)	2.4	TDL changed from 5.0 to 2.0 (R 299.5103(l))
Picloram	1918021	GSI	NA	46	Updated R 57 value (R 299.5706a(11))
		GSI PC	NA	920	



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Pyridine (I)	110861	Res DWC	7.3	20 (M)	Default to TDL (R 299.5103(I) and R 299.5707)
		Res DWPC	330 (M)	400	DWC used to calculate DWPC changed as a result of TDL change (R 299.5103(I))
Silver (B)	7440224	GSI PC	500 (M)	100 (M)	TDL changed from 500 to 100 (R 299.5103(I))
Silvex (2,4,5-TP)	93721	GSI	NA	30	Updated R 57 value (R 299.5706a(11))
		GSI PC	NA	2,200	
Sodium azide	26628228	All	None	See Op Memo 1, Attachment 1	New Hazardous Substance (R 99.5706a(10))
Tetranitromethane	509148	Res SVIIC	110	500 (M)	New TDL (R 299.5103(I) and R 299.5707)
		Res VSIC	51	500 (M)	
		Ind/Com VSIC	180	500 (M)	
Thallium (B)	7440280	Footnote (X) surface water HDV	1.2	2.0 (M)	Default to TDL (R 299.5103(I) and R 299.5707)
		Footnote (X) GSI PC for HDV	1,400	2,300	HDV used to calculate HDV PC was changed as a result of TDL change (R 299.5103(I) and R 299.5707)
2,4, 6-Trichlorophenol	88062	GSI	5.0 (M)	4.4	TDL changed from 5.0 to 4.0 (R 299.5103(I))
Triethylene glycol	112276	Res DWC	10,000 (M)	4,300	TDL changed from 10,000 to 4,000 (R 299.5103(I))
tris(2,3-Dibromopropyl)phosphate	126727	Res DWC	0.71	10 (M)	New TDL (R 299.5103(I) and R 299.5707)
		Ind/Com DWC	2.9	10 (M)	
		Res DWPC	66	930	DWC used to calculate DWPC changed as a result of TDL change (R 299.5103(I))
		Ind/Com DWPC	270	930	New TDL (R 299.5103(I) and R 299.5707)



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ACRONYMS

DWC: Drinking water criteria

DWPC: Drinking water protection criteria

GCC: Ground water contact criteria

GSI: Ground water surface water interface criteria

GSI PC: Ground water surface water interface criteria protection criteria

HDV: Human drinking water value protective for drinking water intake in surface water

Ind/Com: Industrial/Commercial

Res: Residential

R 57 value: R 323.1057, R 299.5716

SVIIC: Soil volatilization to indoor air inhalation criteria

TDL: Target detection limit

VSIC (5M or 2M): Volatile soil inhalation criteria (5M source thickness or 2M source thickness)