Table 3-1. Detection Limits

Constituent	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	Units	ME	LU	CS
Conventional										
Cyanide	0.05	0.05	0.01	0.01	0.01	0.01	mg/l	G		
Total Petro. Hydrocarbons	1	1	1	1	1	1	mg/l	G		
Oil and Grease	1	1	1	1	1	1	mg/l	G		G
Total Phenols	0.1	0.1	0.1	0.1	0.1	0.1	mg/l	G		
Indicator Bacteria										
Total Coliform	20	20	20	20	20	20	MPN/100ml	G		G
Fecal Coliform	20	20	20	20	20	20	MPN/100ml	G		G
Fecal Streptococcus	20	20	20	20	20	20	MPN/100ml	G		G
Fecal Enterococcus	20	20	20	20	20	20	MPN/100ml	G		G
General										
Ammonia	0.1	0.1	0.1	0.1	0.1	0.1	mg/l	C	C	
Calcium	2	2	1	1	1	1	mg/l	C	C	
Magnesium	2	2	1	1	1	1	mg/l	C	C	
Potassium	1	1	1	1	1	1	mg/l	C	C	
Sodium	5	5	1	1	1	1	mg/l	C	C	
Bicarbonate	2	2	2	2	2	2	mg/l	C	C	
Carbonate	2	2	2	2	2	2	mg/l	C	C	
Chloride	2	2	2	2	2	2	mg/l	C	C	
Fluoride	0.1	0.1	0.1	0.1	0.1	0.1	mg/l	C	C	
Nitrate	0.1	0.1	0.1	0.1	0.1	0.1	mg/l	C	C	
Sulfate	0.1	0.1	0.1	0.1	0.1	0.1	mg/l	C	C	
Alkalinity	4	4	4	4	4	4	mg/l	C	C	
Hardness	5	5	2	2	2	2	mg/l	C	C	
Dissolved Phosphorus	0.05	0.05	0.05	0.05	0.05	0.05	mg/l	C	C	
Total Phosphorus	0.05	0.05	0.05	0.05	0.05	0.05	mg/l	C	C	
COD	50	50	5	10	10	10	mg/l	C	C	G
pH	14	14	14	14	14	14		C	C	G
NH3-N	0.1	0.1	0.1	0.1	0.1	0.1	mg/l	C	C	
Nitrate-N	0.03	0.03	0.5	0.5	0.5	0.5	mg/l	C	C	
Nitrite-N	0.03	0.03	0.03	0.03	0.03	0.03	mg/l	C	C	
Kjeldahl-N	0.03	0.03	0.1	0.1	0.1	0.1	mg/l	C	C	
Specific Conductance	1	1	1	1	1	1	umhos/cm	C	C	G
Total Dissolved Solids	5	5	2	2	2	2	mg/l	C	C	G
Turbidity	0.1	0.1	0.1	0.1	0.1	0.1	NTU	C	C	
Suspended Solids	1	1	2	2	2	2	mg/l	C	C	G
Volatile Suspended Solids	1	1	1	1	1	1	mg/l	C	C	
MBAS			20	0.05	0.05	0.05	mg/l	C	C	G
Total Organic Carbon	1	1	1	1	1	1	mg/l	C	C	G
BOD	1	1	1	1	1	1	mg/l	C	C	
Metals										
Dissolved Aluminum			100	100	100	100	µg/l	C	C	C

Table 3-1. Detection Limits

Constituent	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	Units	ME	LU	CS
Total Aluminum			100	100	100	100	µg/l	C	C	C
Dissolved Antimony	10	10	10	5	5	5	µg/l	C	C	
Total Antimony	10	10	10	5	5	5	µg/l	C	C	
Dissolved Arsenic	10	10	10	5	5	5	µg/l	C	C	
Total Arsenic	10	10	10	5	5	5	µg/l	C	C	
Dissolved Barium	100	100	100	10	10	10	µg/l	C	C	
Total Barium	100	100	100	10	10	10	µg/l	C	C	
Dissolved Beryllium	5	5	5	1	1	1	µg/l	C	C	
Total Beryllium	5	5	5	1	1	1	µg/l	C	C	
Dissolved Boron	250	250	250	100	100	100	µg/l	C	C	
Total Boron	250	250	250	100	100	100	µg/l	C	C	
Dissolved Cadmium	10	10	10	1	1	1	µg/l	C	C	C
Total Cadmium	10	10	10	1	1	1	µg/l	C	C	C
Dissolved Chromium	10	10	10	5	5	5	µg/l	C	C	C
Total Chromium	10	10	10	5	5	5	µg/l	C	C	C
Dissolved Chromium +6	10	10	10	10	10	10	µg/l	C	C	
Total Chromium +6	10	10	10	10	10	10	µg/l	C	C	
Dissolved Copper	10	10	10	5	5	5	µg/l	C	C	C
Total Copper	10	10	10	5	5	5	µg/l	C	C	C
Dissolved Iron	100	100	100	100	100	100	µg/l	C	C	C
Total Iron	100	100	100	100	100	100	µg/l	C	C	C
Dissolved Lead	10	10	10	5	5	5	µg/l	C	C	C
Total Lead	10	10	10	5	5	5	µg/l	C	C	C
Dissolved Manganese	30	30	30	30	100	100	µg/l	C	C	
Total Manganese	30	30	30	30	100	100	µg/l	C	C	
Dissolved Mercury	1	1	1	1	1	1	µg/l	C	C	
Total Mercury	1	1	1	1	1	1	µg/l	C	C	
Dissolved Nickel	10	10	10	5	5	5	µg/l	C	C	C
Nickel	10	10	10	5	5	5	µg/l	C	C	C
Dissloved Selenium	5	5	5	5	5	5	µg/l	C	C	
Total Selenium	5	5	5	5	5	5	µg/l	C	C	
Dissolved Silver	10	10	10	1	1	1	µg/l	C	C	
Total Silver	10	10	10	1	1	1	µg/l	C	C	
Dissolved Thallium	10	10	10	5	5	5	µg/l	C	C	
Total Thallium	10	10	10	5	5	5	µg/l	C	C	
Dissolved Zinc	50	50	50	50	50	50	µg/l	C	C	C
Total Zinc	50	50	50	50	50	50	µg/l	C	C	C
Semi-Volatile Organics										
Acenaphthene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
Acenaphthylene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
Acetophenone	3	3	3	3	3	0.3	µg/l	C	C	G[1]
Aniline	3	3	3	3	3	3	µg/l	C	C	G

Table 3-1. Detection Limits

Constituent	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	Units	ME	LU	CS
Antracene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
4-Aminobiphenyl	3	3	3	3	3	3	µg/l	C	C	G
Benzidine	3	3	3	3	3	3	µg/l	C	C	G
Benzo(a)anthracene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Benzo(b)fluoranthene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Benzo(k)fluoranthene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Benzo(a)pyrene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Benzyl butyl phthalate	3	3	3	3	3	0.3	µg/l	C	C	G[1]
Bis(2-chloroethyl)ether	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Bis(2-chloroethoxy)methane	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Bis(2-ethylhexyl)phthalate	3	3	3	3	3	1	µg/l	C	C	G[1]
Bis(2-chlorisopropyl)ether	1	1	1	1	1	1	µg/l	C	C	G
4-Bromophenyl phenyl ether	1	1	1	1	1	1	µg/l	C	C	G
4-Chloroaniline	1	1	1	1	1	1	µg/l	C	C	G
1-chloronaphthalene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
2-Chloronaphthalene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
4-Chlorophenyl phenyl ether	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Chrysene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
p-Dimethylaminozobenzene	3	3	3	3	3	3	µg/l	C	C	G
7,12-Dimethylbenz(a)-anthracene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
alpha,-alpha-Dimethylphenethylamine	3	3	3	3	3	3	µg/l	C	C	G
Dibenz(a,j)acridine	3	3	3	3	3	0.3	µg/l	C	C	G[1]
Dibenz(a,h)anthracene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
1,3-Dichlorobenzene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
1,2-Dichlorobenzene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
1,4-Dichlorobenzene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
3,3'-Dichlorobenzidine	3	3	3	3	3	3	µg/l	C	C	G
Diethyl phthalate	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	G
Dimethyl phthalate	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	G
Di-n-butylphthalate	3	3	3	3	3	1	µg/l	C	C	G[1]
2,4-Dinitrotoluene	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	G
2,6-Dinitrotoluene	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	G
Diphenylamine	3	3	3	3	3	1	µg/l	C	C	G[1]
1,2-Diphenylhydrazine	3	3	3	3	3	3	µg/l	C	C	G
Di-n-octylphthalate	3	3	3	3	3	1	µg/l	C	C	G[1]
Ethylmethanesulfonate	3	3	3	3	3	0.3	µg/l	C	C	G[1]
Endrin ketone	1	1	1	1	1	1	µg/l	C	C	G
Fluoranthene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Fluorene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Hexachlorobenzene	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	G
Hexachlorobutadiene	1	1	1	1	1	1	µg/l	C	C	G
Hexachlorocyclopentadiene	3	3	3	3	3	3	µg/l	C	C	G

Table 3-1. Detection Limits

Constituent	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	Units	ME	LU	CS
Hexachloroethane	1	1	1	1	1	1	µg/l	C	C	G
Indeno (1,2,3-cd) pyrene	1	1	1	1	1	0.1	µg/l	C	C	G[1]
Isophorone	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
3-Methylcholanthrene	3	3	3	3	3	0.3	µg/l	C	C	G[1]
Methyl methanesulfonate	3	3	3	3	3	0.3	µg/l	C	C	G[1]
Naphthalene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
1-Naphthylamine	3	3	3	3	3	3	µg/l	C	C	G
2-Naphthylamine	3	3	3	3	3	3	µg/l	C	C	G
2-Nitroaniline	3	3	3	3	3	3	µg/l	C	C	G
3-Nitroaniline	3	3	3	3	3	3	µg/l	C	C	G
4-Nitroaniline	3	3	3	3	3	3	µg/l	C	C	G
Nitrobenzene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
N-Nitroso-di-n-butylamine	3	3	3	3	3	0.3	µg/l	C	C	G[1]
N-Nitrosodimethylamine	3	3	3	3	3	0.3	µg/l	C	C	G[1]
N-Nitrosodiphenylamine	3	3	3	3	3	0.3	µg/l	C	C	G[1]
N-Nitroso-di-n-propylamine	1	1	1	1	1	0.3	µg/l	C	C	G[1]
N-Nitrosopiperidine	3	3	3	3	3	1	µg/l	C	C	G[1]
Pentachlorobenzene	3	3	3	3	3	1	µg/l	C	C	G[1]
Phenacitin	3	3	3	3	3	3	µg/l	C	C	G
Phenanthrene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
2-Picoline	3	3	3	3	3	3	µg/l	C	C	G
Pronamide	5	5	5	5	5	5	µg/l	C	C	G
Pyrene	0.5	0.5	0.5	0.5	0.5	0.05	µg/l	C	C	G[1]
1,2,4,5-Tetrachlorobenzene	3	3	3	3	3	1	µg/l	C	C	G[1]
1,2,4-Trichlorobenzene	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	G
Benzoic acid	5	5	5	5	5	5	µg/l	C	C	G
Benzyl alchohol	5	5	5	5	5	5	µg/l	C	C	G
4-Chloro-3-methylphenol	3	3	3	3	3	3	µg/l	C	C	G
2-Chlorophenol	2	2	2	2	2	2	µg/l	C	C	G
2,4-Dichlorophenol	2	2	2	2	2	2	µg/l	C	C	G
2,6-Dichlorophenol	2	2	2	2	2	2	µg/l	C	C	G
2,4-Dimethylphenol	2	2	2	2	2	2	µg/l	C	C	G
2,4-Dinitrophenol	3	3	3	3	3	3	µg/l	C	C	G
2-Methyl-4,6-dinitrophenol	3	3	3	3	3	3	µg/l	C	C	G
2-Methylphenol	3	3	3	3	3	3	µg/l	C	C	G
4-Methylphenol	3	3	3	3	3	3	µg/l	C	C	G
2-Nitrophenol	3	3	3	3	3	3	µg/l	C	C	G
4-Nitrophenol	3	3	3	3	3	3	µg/l	C	C	G
Pentachlorophenol	2	2	2	2	2	2	µg/l	C	C	G
Phenol	1	1	1	1	1	1	µg/l	C	C	G
2,3,4,6-Tetrachlorophenol	1	1	1	1	1	1	µg/l	C	C	G
2,4,5-Trichlorophenol	1	1	1	1	1	1	µg/l	C	C	G

Table 3-1. Detection Limits

Constituent	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	Units	ME	LU	CS
2,4,6-Trichlorophenol	1	1	1	1	1	1	µg/l	C	C	G
Pesticides										
Aldrin	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
Alpha-BHC	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
Beta-BHC	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
Delta-BHC	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
Gamma-BHC [Lindane]	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
Chlordane	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
p,p' DDD	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
p,p' DDE	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
p,p' DDT	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
Dieldrin	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
Endosulfan I [alpha]	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
Endosulfan II [beta]	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
Endosulfan Sulfate	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
Endrin	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
Endrin aldehyde	0.1	0.1	0.1	0.1	0.1	0.1	µg/l	C	C	
Heptachlor	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
Heptachlor epoxide	0.05	0.05	0.05	0.05	0.05	0.05	µg/l	C	C	
Methoxychlor	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
Toxaphene	1	1	1	1	1	1	µg/l	C	C	
PCB-1016	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
PCB-1221	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
PCB-1232	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
PCB-1242	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
PCB-1248	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
PCB-1254	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
PCB-1260	0.5	0.5	0.5	0.5	0.5	0.5	µg/l	C	C	
Diazinon			0.01	0.01	0.01	0.01	µg/l	C	C	
Chlorpyrifos			0.05	0.05	0.05	0.05	µg/l	C	C	
Diuron			1	1	1	1	µg/l	C	C	
Malathion			1	1	1	1	µg/l	C	C	
Prometryn	2	2	2	2	2	2	µg/l	C	C	
Simazine	2	2	2	2	2	2	µg/l	C	C	
Atrazine	2	2	2	2	2	2	µg/l	C	C	
Cyanazine	2	2	2	2	2	2	µg/l	C	C	
Molinate			2	2	2	2	µg/l	C	C	
Thiobencarb			1	1	1	1	µg/l	C	C	
Miscellaneous										
Dissolved Oxygen					1	1	mg/l	C	C	
Carbofuran			5	5	5	5	µg/l	C	C	
2,4-D			10	10	10	10	µg/l	C	C	

Table 3-1. Detection Limits

Constituent	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	Units	ME	LU	CS
2,4,5-TP			1	1	1	1	µg/l	C	C	
Bentazon			2	2	2	2	µg/l	C	C	
Glyphosate			50	50	25	25	µg/l	C	C	
TPH as Gas					0.5	0.5	mg/l	C	C	G
TPH as Diesel					0.5	0.5	mg/l	C	C	G

ME = Constituents marked analyzed for mass emission stations
LU = Constituents marked analyzed for land use stations
CS = Constituents marked analyzed for critical source stations

C = Composite sample taken
G = Grab sample taken

1 = Critical Source semi-volatile detection limits were not lowered in 1999-2000. The 1998-99 values apply.