

**HAZARDOUS WASTE MANAGEMENT  
POST-CLOSURE CARE PERMIT**

***ATTACHMENT 1***

***APPENDIX I***

***ANNUAL GROUNDWATER SAMPLING CONSTITUENT LIST***

***(APPENDIX IX 40 CFR PART 264)***

**APPENDIX IX METHOD/DETECTION LIMITS**

Analyte	METHOD	PQL(ug/l)	MDL (ug/l)
1,1,1,2-Tetrachloroethane	8260	1	0.08
1,1,1 -Trichloroethane	8260	1	0.13
1,1,2,2-Tetrachloroethane	8260	1	0.184
1,1,2-Trichloro-1,2,2-trifluoroethane	8260	1	0.12
1,1,2-Trichloroethane	8260	1	0.079
1,1 -Dichloroethane	8260	1	0.135
1,1 -Dichloroethene	8260	1	0.223
1,2,3-Trichloropropane	8260	1	0.073
1,2,4,5-Tetrachlorobenzene	8270	10	2
1,2,4-Trichlorobenzene	8260	1	0.13
1,2,4-Trichlorobenzene	8270	10	0.43
1,2-dibromo-3-chloropropane	8260	1	0.204
1,2-dibromoethane	8260	1	0.05
1,2-Dichlorobenzene	8260	1	0.082
1,2-Dichlorobenzene	8270	10	0.48
1,2-Dichloroethane	8260	1	0.147
1,2-Dichloropropane	8260	1	0.107
1,3-Dichlorobenzene	8260	1	0.047
1,3-Dichlorobenzene	8270	10	0.52
1,3-Dichloropropane	8260	1	0.091
1,3-Dinitrobenzene	8270	10	2
1,4-Dichlorobenzene	8260	1	0.061
1,4-Dichlorobenzene	8270	10	0.37
1,4-Dioxane	8260	200	45.48
1,4-Napthoquinone	8270	10	0.2
1 -Naphthylamine	8270	10	0.2
2,3,4,6-Tetrachlorophenol	8270	10	0.68
2,4,5-Trichlorophenol	8270	10	0.81
2,4,6-Trichlorophenol	8270	10	0.63
2,4-Dichlorophenol	8270	10	1.59
2,4-Dimethylphenol	8270	10	0.99

Analyte	METHOD	PQL (ug/l)	MDL (ug/l)
2,4-Dinitrophenol	8270	10	1.7
2,4-Dinitrotoluene	8270	10	0.5
2,6-Dichlorophenol	8270	10	0.2
2,6-Dinitrotoluene	8270	10	0.46
2-Acetylaminofluorene	8270	10	0.2
2-Butanone	8260	10	0.42
2-Chloronaphthalene	8270	10	0.49
2-Chlorophenol	8270	10	0.98
2-Hexanone	8260	10	0.39
2-Methylnaphthalene	8270	10	0.29
2-Naphthylamine	8270	10	0.2
2-Nitroaniline	8270	10	0.36
2-Nitrophenol	8270	10	1.27
2-Picoline	8270	10	0.1
2-Propanol	8260	50	1.71
3,3 '-Dichlorobenzidine	8270	10	0.48
3,3 '-Dimethylbenzidine	8270	10	0.2
3-Methylcholanthrene	8270	10	0.2
3-Nitroaniline	8270	10	0.3
4,6-Dinitro-2-methylphenol	8270	10	1.18
4-Aminobiphenyl	8270	10	0.2
4-Bromophenyl phenyl ether	8270	10	0.56
4-Chloro-3-methylphenol	8270	10	1.01
4-Chloroaniline	8270	10	0.66
4-Chlorophenyl phenyl ether	8270	10	0.32
4-Methyl-2-pentanone	8260	10	0.91
4-Nitroaniline	8270	10	0.73
4-Nitrophenol	8270	10	0.28
4-Nitroquinoline-1 -oxide	8270	50	5
5-Nitro-o-toluidine	8270	10	0.2
7,12-Dimethylbenz(a)anthracene	8270	10	0.2
a,a-Dimethylphenethylamine	8270	50	5
Acenaphthene	8270	10	0.35

Analyte	METHOD	PQL(ug/l)	MDL(ug/l)
Acenaphthylene	8270	10	0.48
Acetone	8260	10	0.12
Acetonitrile	8260	100	31.67
Acetophenone	8270	10	0.2
Acrolein	8260	10	1.1
Acrylonitrile	8260	10	0.47
Allyl chloride	8260	10	0.82
Aniline	8270	10	0.32
Anthracene	8270	10	0.52
Antimony	6020,6010	10	0.4
Aramite	8270	10	0.2
Arsenic	6020/6010	10	2
Barium	6020/6010	10	1
Benzene	8260	1	0.07
Benzo(a)anthracene	8270	10	0.45
Benzo(a)pyrene	8270	10	1.5
Benzo(b)fluoranthene	8270	10	1.2
Benzo(g,h,i)perylene	8270	10	0.42
Benzo(k)fluoranthene	8270	10	1.6
Benzyl alcohol	8270	10	0.52
Beryllium	6020/6010	1	0.2
Bis(2-chlorethoxy)methane	8270	1	0.46
Bis(2-chloroethyl)ether	8270	1	0.44
Bis(2-chloroisopropyl)ether	8270	10	0.19
Bis(2-ethylhexyl)phthalate	8270	10	0.54
Bromodichloromethane	8260	1	0.088
Bromoform	8260	1	0.106
Bromomethane	8260	1	0.542
Butyl benzyl phthalate	8270	10	0.46
Cadmium	6020/6010	1	0.2
Carbon disulfide	8260	10	0.37
Carbon tetrachloride	8260	1	0.16
Chlorobenzilate	8270	10	0.2

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Analyte	METHOD	PQL(ug/l)	MDL(ug/l)
Chloroform	8260	1	0.03
Chloroprene	8260	10	0.46
Chromium	6020/6010	5	1
Chrysene	8270	10	0.31
Cobalt	6020/6010	5	1
Copper	6020/6010	5	1
Cyanide	9010	20	45
Diallate	8270	10	0.2
Dibenzo(a,h)anthracene	8270	10	0.38
Dibenzofuran	8270	10	0.58
Dibromochloromethane	8260	1	0.057
Dibromomethane	8260	1	0.065
Dichlorodifluoromethane	8260	1	0.148
Diethyl ether	8260	12.5	1.11
Diethyl phthalate	8270	10	0.29
Dimethoate	8270	10	0.2
Dimethyl ether	8260	12.5	0
Dimethyl phthalate	8270	10	0.46
Di-n-butyl phthalate	8270	10	0.52
Di-n-octyl phthalate	8270	10	0.7
Diphenylamine	8270	10	0.4
Disulfoton	8270	10	0.2
Ethyl methacrylate	8260	10	0.81
Ethyl methacrylate	8270	10	0.2
Ethyl methanesulfonate	8270	10	0.2
Ethylbenzene	8260	1	0.079
Famphur	8270	10	0.2
Fluoranthene	8270	10	0.42
Fluorene	8270	10	0.38

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Analyte	METHOD	PQL (ug/l)	MDL (ug/l)
Hexachloroethane	8260	10	0.11
Hexachlorobenzene	8270	10	0.87
Hexachlorobutadiene	8260	1	0.067
Hexachlorocyclopentadiene	8270	10	0.57
Hexachloroethane	8260	10	0.11
Hexachlorophene	8270	100	10
Hexachloropropene	8270	10	2
Indeno(1,2,3-cd)pyrene	8270	10	0.15
Iodomethane	8260	10	0.58
Isobutyl alcohol	8260	200	0
Isodrin	8270	10	0.2
Isophorone	8270	10	0.43
Isosafrole	8270	10	0.2
Kepone	8270	10	0.2
Lead	6020/6010	10	0.2
m,p-Cresol	8270	20	2.47
m,p-Xylene	8260	2	0.083
Mercury	7470	2	0.2
Methacrylonitrile	8260	100	9.75
Methapyrilene	8270	10	0.2
Methyl methacrylate	8260	10	3.58
Methyl methanesulfonate	8270	10	0.2
Methyl parathion	8270	10	0.2
Methylene chloride	8260	1	0.182
Naphthalene	8260	1	0.126
Nickel	6020/6010	10	2
Nitrobenzene	8270	10	0.33
N-Nitrosodiethylamine	8270	10	0.2
N-Nitrosodimethylamine	8270	10	0.5
N-Nitroso-di-n-butylamine	8270	10	0.2
N-Nitrosodi-n-propylamine	8270	10	0.48
N-Nitrosodiphenylamine	8270	10	0.58
n-Nitrosomethylethylamine	8270	10	0.2

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Analyte	METHOD	PQL(ug/l)	MDL (ug/l)
N-Nitrosomorpholine	8270	10	0.4
N-Nitrosopiperidine	8270	10	0.2
N-Nitrosopyrrolidine	8270	10	0.2
o,o,o-Triethylphosphorothioate	8270	10	0.2
o,o-Diethyl-o-2-pyrazinyl phosphorothioate	8270	10	0.2
o-Cresol	8270	10	0.96
o-Toluidine	8270	10	0.2
o-Xylene	8260	1	0.125
Parathion	8270	10	0.2
p-Dimethylaminoazobenzene	8270	10	0.2
Pentachlorobenzene	8270	10	0.2
Pentachloroethane	8260	10	0.8
Pentachloronitrobenzene	8270	10	0.2
Pentachlorophenol	8270	10	2.92
Phenacetin	8270	10	0.2
Phenanthrene	8270	10	0.52
Phenol	8270	10	0.77
Phorate	8270	10	0.2
p-Phenylenediamine	8270	10	0.2
Pronamide	8270	10	0.2
Propionitrile	8260	100	10.22
Pyrene	8270	10	0.41
Pyridine	8270	10	0.29
Safrole	8270	10	0.2
Selenium	6020/6010	10	3
Silver	6020/6010	2	0.2
Styrene	8260	1	0.074
Sulfotep	8270	10	1
sym-Trinitrobenzene	8270	10	0.2
Tetrachloroethene	8260	1	0.06
Tetrahydrofuran	8260	25	<del>20.79</del>
Thallium	6020/6010	1	0.2
Toluene	8260	1	0.093

Analyte	METHOD	PQL (ug/l)	MDL (ug/l)
trans-1,2-Dichloroethene	8260	1	0.162
trans-1,3-Dichloropropene	8260	1	0.097
trans-1,4-Dichloro-2-butene	8260	10	0.97
Trichloroethene	8260	1	0.177
Trichlorofluoromethane	8260	1	0.176
Vanadium	6020/6010	10	1
Vinyl acetate	8260	10	3.29
Vinyl chloride	8260	1	0.153
Xylenes, Total	8260	3	0.208
Zinc	6020/6010	4930	37.3

Notes:  
 ug/l = micrograms per liter  
 PQL = Practical Quantitation Limit  
 MDL = Method Detection Limit

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