

TABLE 14
SUMMARY OF TIER II CLEANUP GOALS
FOR THE NONRESIDENTIAL SCENARIO

Chemical Name	Compound is Bioaccumulatable* (yes/no)	Surface Soils (mg/Kg)	Subsurface Soils (mg/Kg)	Groundwater (mg/L)
naphthalene	no	10,000.00	10,000.00	4.0880
acenaphthylene	no	NA	NA	NA
acenaphthene	no	10,000.00	10,000.00	6.1320
fluorene	no	10,000.00	10,000.00	4.0880
phenanthrene	no	NA	NA	NA
anthracene	no	10,000.00	10,000.00	30.6600
fluoranthene	yes	10,000.00	10,000.00	0.8176
pyrene	no	10,000.00	10,000.00	3.0660
benzo(a)anthracene*	yes	79.45	103.88	0.0100
chrysene*	yes	7,945.21	10,000.00	0.3918
benzo(b)fluoranthene*	yes	79.45	354.98	0.0100
benzo(k)fluoranthene*	yes	794.52	3,759.12	0.0392
benzo(a)pyrene	yes	7.94	69.85	0.0100
indeno(1,2,3-cd)pyrene*	yes	79.45	629.17	0.0100
dibenzo(a,h)anthracene*	yes	7.95	69.86	0.0100
benzo(g,h,i)perylene	yes	NA	NA	NA
3,3'-dichlorobenzidine	no	128.89	12.86	0.0200
n-nitroso-di-n-propylamine	no	8.29	0.66	0.0100
bis(2-chloroisopropyl)ether	no	93.12	1.32	0.0409
4-chloroaniline	no	8,160.00	1,117.69	0.4088
2-chloronaphthalene	no	10,000.00	10,000.00	8.1760
2,4-dinitrotoluene	no	4,080.00	39.07	0.2044
hexachlorobutadiene	yes	1.78	31.18	0.0367
hexachloroethane	yes	408.00	3.31	0.0204
isophorone	no	10,000.00	256.03	3.0105
benzyl alcohol	no	10,000.00	4,356.75	30.6600
bis(2-chloroethyl)ether	no	4.06	0.66	0.0100

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nitrobenzene	no	1,020.00	1.73	0.0511
1,2-dichlorobenzene	no	10,000.00	10,000.00	9.1980
1,3-dichlorobenzene	no	NA	NA	NA
1,4-dichlorobenzene	no	2,416.67	34.67	0.1192
1,2,4-trichlorobenzene	no	10,000.00	1,405.37	1.0220
hexachlorobenzene	no	6.87	101.56	0.0100
hexachlorocyclopentadiene	no	2.02	2.89	0.7154
n-nitrosodiphenylamine	no	10,000.00	567.80	0.5837
benzoic acid	no	10,000.00	10,000.00	408.8000
2-nitroaniline	no	42.90	3.30	0.0500
phenol	yes	10,000.00	658.78	12.2640
2-methylphenol	no	10,000.00	375.93	5.1100
3-methylphenol	no	NA	NA	NA
4-methylphenol	no	10,000.00	427.24	5.1100
2-chlorophenol	no	10,000.00	11.63	0.5110
2,4-dichlorophenol	no	6,120.00	15.12	0.3066
2,4,5-trichlorophenol	no	10,000.00	5,507.44	10.2200
2,4,6-trichlorophenol	no	1,922.89	30.65	0.2600
pentachlorophenol	no	483.33	24.95	0.0500
2,4-dinitrophenol	no	4,080.00	7.37	0.2044
bis(2-ethylhexyl)phthalate	yes	4,142.86	1,406.25	0.2043
butylbenzylphthalate	no	10,000.00	10,000.00	20.4400
di-n-butylphthalate	yes	10,000.00	6,188.56	2.0440
diethylphthalate	no	10,000.00	10,000.00	81.7600
di methyl phthalate	no	10,000.00	10,000.00	1,022.0000
di-n-octyl phthalate	no	10,000.00	10,000.00	2.0440
benzene	no	16.63	4.77	0.0986

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Chemical Name	Compound is Bioaccumulatable (yes/no)	Surface Soils (mg/Kg)	Subsurface Soils (mg/Kg)	Groundwater (mg/L)
toluene	no	1,000.00	1,000.00	20.4400
ethylbenzene	no	1,000.00	1,000.00	10.2200
xylenes	no	1,000.00	1,000.00	204.4000
vinyl chloride	no	0.02	0.13	0.0100
chloroethane	no	1,000.00	1,000.00	NA
1,1-dichloroethylene	no	0.15	0.08	0.0070
1,1-dichloroethane	no	973.47	1,000.00	10.2200
1,2-dichloroethylene (cis)	no	1,000.00	102.49	1.0220
1,2-dichloroethane	no	5.27	0.37	0.0314
trichloroethylene	no	24.97	25.73	0.2600
1,1,1-trichloroethane	no	1,000.00	1,000.00	9.1980
1,1,2-trichloroethane	no	22.74	1.05	0.0502
tetrachloroethylene	no	101.23	8.01	0.0561
1,1,1,2-tetrachloroethane	no	75.91	7.24	0.1100
1,1,2,2-tetrachloroethane	no	75.41	0.21	0.0143
chloroform	no	5.28	20.33	0.4689
acetone	no	1,000.00	136.29	10.2200
4-methyl-2-pentanone	no	1,000.00	407.48	5.1100
methyl ethyl ketone	no	1,000.00	146.24	5.1100
Aldrin	yes	0.27	0.06	0.0002
gamma-BHC (Lindane)	yes	44.62	0.34	0.0022
chlordane	yes	24.48	4.51	0.0020
DDD	yes	241.67	48.34	0.0119
DDE	yes	170.59	80.49	0.0084
DDT	yes	153.01	141.83	0.0084
dieldrin	yes	3.63	0.06	0.0002
endosulfan sulfate	no	102.00	12.00	0.0051

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Chemical Name	Compound is Bioaccumulatable * (yes/no)	Surface Soils (mg/Kg)	Subsurface Soils (mg/Kg)	Groundwater (mg/L)
endrin	yes	122.40	10.12	0.0061
heptachlor	yes	4.16	0.44	0.0006
heptachlor epoxide	no	6.37	0.45	0.0008
PCBs	yes	7.53	4.23	0.0007
lead	no	NA	NA	NA
cadmium	no	1,020.00	730.00	0.0511
silver	no	10,000.00	7,300.00	0.5110
mercury	yes	122.40	87.60	0.0061
chromium vi	no	10,000.00	7,300.00	0.5110
chromium iii	no	10,000.00	10,000.00	102.2000
barium	no	10,000.00	10,000.00	7.1540
arsenic	no	612.00	438.00	0.0500
antimony	no	816.00	584.00	0.0600
beryllium	no	13.49	118.60	0.0050
cyanide	no	1,000.00	10,000.00	2.0440
nickel	no	10,000.00	10,000.00	2.0440
selenium	no	10,000.00	7,300.00	0.5110
vanadium	no	10,000.00	10,000.00	0.7154
zinc	no	10,000.00	10,000.00	30.6600

NOTES: a - Compounds that are assumed to be bioaccumulative have an acceptable hazard index of 0.2 versus 1, as determined based on Indiana Register, 16:7, April 1, 1993.

b - Practical quantitation limits based EPA SW-846, 1986 for GC/MS. PQLs will change according to the specific analytical method used.

* - Assumes TEF approach.

NA - Data not available or not applicable.

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Chemical Name	Compound is Bioaccumulatable (yes/no)	Surface Soils (mg/Kg)	Subsurface Soils (mg/Kg)	Groundwater (mg/L)
naphthalene	no	10,000.00	1,761.785	1.21600
acenaphthylene	no	NA	NA	NA
acenaphthene	no	10,000.00	10,000.000	1.82400
fluorene	no	10,000.00	8,838.641	1.21600
phenanthrene	no	NA	NA	NA
anthracene	no	10,000.00	10,000.000	9.12000
fluoranthene	yes	2,160.00	2,305.040	0.24320
pyrene	no	8,100.00	10,000.000	0.91200
benzo(a)anthracene*	yes	0.88	103.881	0.00010
chrysene*	yes	87.67	379.273	0.00020
benzo(b)fluoranthene*	yes	0.88	354.977	0.00020
benzo(k)fluoranthene*	yes	8.77	501.638	0.00020
benzo(a)pyrene	yes	0.66	69.849	0.00020
indeno(1,2,3-cd)pyrene*	yes	0.88	629.166	0.00040
dibenzo(a,h)anthracene*	yes	0.66	69.863	0.00030
benzo(g,h,i)perylene	yes	NA	NA	NA
3,3'-dichlorobenzidine	no	1.42	12.865	0.02000
n-nitroso-di-n-propylamine	no	0.66	0.660	0.01000
bis(2-chloroisopropyl)ether	no	9.14	0.660	0.01000
4-chloroaniline	no	1,080.00	186.921	0.12160
2-chloronaphthalene	no	10,000.00	10,000.000	2.43200
2,4-dinitrotoluene	no	540.00	6.535	0.06080
hexachlorobutadiene	yes	8.21	6.777	0.01000
hexachloroethane	yes	45.07	1.153	0.01000
isophorone	no	673.68	1.433	0.08947
benzyl alcohol	no	10,000.00	728.618	9.12000
bis(2-chloroethyl)ether	no	0.66	0.660	0.01000

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Chemical Name	Compound is Bioaccumulatable (yes/no)	Surface Soils (mg/Kg)	Subsurface Soils (mg/Kg)	Groundwater (mg/L)
nitrobenzene	no	135.00	0.660	0.01520
1,2-dichlorobenzene	no	10,000.00	2,524.230	0.60000
1,3-dichlorobenzene	no	NA	NA	0.60000
1,4-dichlorobenzene	no	26.67	0.897	0.07500
1,2,4-trichlorobenzene	no	2,700.00	235.033	0.07000
hexachlorobenzene	no	0.66	101.564	0.00100
hexachlorocyclopentadiene	no	1,890.00	2.891	0.05000
n-nitrosodiphenylamine	no	130.61	3.177	0.01735
benzoic acid	no	10,000.00	10,000.000	121.60000
2-nitroaniline	no	16.20	3.300	0.05000
phenol	yes	10,000.00	110.173	3.64800
2-methylphenol	no	10,000.00	62.871	1.52000
3-methylphenol	no	NA	NA	NA
4-methylphenol	no	10,000.00	71.452	1.52000
2-chlorophenol	no	1,350.00	1.945	0.15200
2,4-dichlorophenol	no	810.00	2.528	0.09120
2,4,5-trichlorophenol	no	10,000.00	921.059	3.04000
2,4,6-trichlorophenol	no	58.18	0.660	0.01000
pentachlorophenol	no	5.33	24.947	0.00100
2,4-dinitrophenol	no	540.00	3.300	0.06080
bis(2-ethylhexyl)phthalate	yes	45.71	16.427	0.00600
butylbenzylphthalate	no	10,000.00	10,000.000	0.10000
di-n-butylphthalate	yes	5,400.00	1,034.967	0.60800
diethylphthalate	no	10,000.00	10,000.000	24.32000
di methyl phthalate	no	10,000.00	10,000.000	304.00000
di-n-octyl phthalate	no	5,400.00	2,318.850	0.60800
benzene	no	22.07	0.059	0.00500

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toluene	no	1,000.00	278.926	1.00000
ethylbenzene	no	1,000.00	834.372	0.70000
xylenes	no	1,000.00	1,000.000	10.00000
vinyl chloride	no	0.34	0.129	0.00200
chloroethane	no	NA	1,000.000	23.16075
1,1-dichloroethylene	no	1.07	0.084	0.00700
1,1-dichloroethane	no	1,000.00	40.074	0.64000
1,2-dichloroethylene (cis)	no	1,000.00	17.140	0.07000
1,2-dichloroethane	no	7.03	0.025	0.00500
trichloroethylene	no	58.18	0.076	0.00500
1,1,1-trichloroethane	no	1,000.00	229.642	0.20000
1,1,2-trichloroethane	no	11.23	0.035	0.00500
tetrachloroethylene	no	12.55	0.227	0.00500
1,1,1,2-tetrachloroethane	no	24.62	0.076	0.00500
1,1,2,2-tetrachloroethane	no	3.20	0.044	0.00500
chloroform	no	104.92	2.082	0.10000
acetone	no	1,000.00	22.793	3.04000
4-methyl-2-pentanone	no	1,000.00	68.147	1.52000
methyl ethyl ketone	no	1,000.00	11.620	0.91772
Aldrin	yes	0.04	0.007	0.00004
gamma-BHC (Lindane)	yes	0.49	0.010	0.00020
chlordane	yes	0.49	4.512	0.00200
DDD	yes	2.67	0.270	0.00035
DDE	yes	1.88	0.450	0.00025
DDT	yes	1.88	0.794	0.00025
dieldrin	yes	0.04	0.003	0.00002
endosulfan sulfate	no	13.50	2.007	0.00152

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endrin	yes	16.20	1.939	0.00200
heptachlor	yes	0.14	0.221	0.00040
heptachlor epoxide	no	0.07	0.450	0.00020
PCBs	yes	0.08	4.226	0.00050
lead	no	NA	NA	NA
cadmium	no	135.00	730.000	0.00500
silver	no	1,350.00	7,300.000	0.15200
mercury	yes	16.20	87.600	0.00200
chromium vi	no	1,350.00	7,300.000	0.10000
chromium iii	no	10,000.00	10,000.000	0.10000
barium	no	10,000.00	10,000.000	2.00000
arsenic	no	81.00	438.000	0.05000
antimony	no	108.00	584.000	0.00600
beryllium	no	0.50	118.605	0.00400
cyanide	no	1,000.00	10,000.000	0.20000
nickel	no	5,400.00	10,000.000	0.10000
selenium	no	1,350.00	7,300.000	0.05000
vanadium	no	1,890.00	10,000.000	0.21280
zinc	no	10,000.00	10,000.000	9.12000

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