APPENDIX B
DEFAULT TARGET LEVELS AND TIER 1 RISK-BASED TARGET LEVELS

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Note that the chemicals in MRBCA Process for Petroleum Storage Tanks are highlighted.

* Horizontal migration distance in the saturated zone is equal to zero.

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Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
VOCs and SVOCs				
Acenaphthene	1.74E+02	GWP	1.65E-01	DWG
Acenaphthylene	1.75E+02	GWP	1.70E-01	DWG
Acetone	4.20E+00	GWP	2.97E+00	DWG
Acetonitrile	2.06E-01	GWP	5.64E-02	DWG
Acrylamide	1.31E-03	GWP	1.49E-04	DWG
Acrylic acid	1.16E+01	GWP	7.77E+00	DWG
Acrylonitrile	6.92E-04	GWP	4.68E-04	DWG
Allyl alcohol	4.45E-01	GWP	7.78E-02	DWG
Allyl chloride	3.86E-02	GWP	4.40E-03	DWG
Aniline	2.90E-01	GWP	1.08E-01	DWG
Anthracene	3.06E+03	GWP	6.96E-01	DWG
Aroclor 1016	3.86E+00	SDC	1.96E-04	DWG
Aroclor 1221	9.75E-02	GWP	1.13E-04	DWG
Aroclor 1242	5.57E-02	GWP	5.93E-05	DWG
Aroclor 1248	1.08E+00	SDC	3.50E-05	DWG
Aroclor 1254	1.10E+00	SDC	3.06E-05	DWG
Aroclor 1260	1.11E+00	SDC	3.35E-05	DWG
Azobenzene	6.82E+00	GWP	8.61E-04	DWG
Benzene	5.61E-02	GWP	5.00E-03	DWG
Benzidine	2.11E-02	SDC	2.88E-06	DWG
Benzo(a)anthracene	6.12E+00	GWP	1.03E-04	DWG
Benzo(a)pyrene	6.20E-01	SDC	1.02E-05	GDC
Benzo(b)fluoranthene	6.19E+00	SDC	6.27E-05	DWG
Benzo(g,h,i)perylene	1.72E+03	SDC	2.64E-02	DWG
Benzo(k)fluoranthene	6.20E+01	SDC	6.46E-04	DWG
Benzoic acid	8.48E+01	GWP	6.00E+01	DWG
Benzyl alcohol	1.44E+01	GWP	4.63E+00	DWG
1,1-Biphenyl	3.07E+01	GWP	1.46E-01	DWG
Bis(2-chloroethyl)ether	4.49E-04	GWP	1.23E-04	DWG
Bis(2-chloroisopropyl)ether	3.18E-02	GWP	3.23E-03	DWG
Bis(chloromethyl)ether	1.00E-06	GWP	6.50E-07	DWG
Bis(2-ethylhexyl)phthalate	3.47E+02	SDC	6.00E-03	DWG
Bromochloromethane	3.05E-01	GWP	5.44E-02	DWG
Bromodichloromethane	4.72E-01	INH	8.00E-02	DWG
Bromoform	1.15E+00	GWP	8.00E-02	DWG
Bromomethane	1.85E-02	GWP	4.67E-03	DWG
4-Bromophenyl phenyl ether	2.72E-02	GWP	1.07E-05	DWG
n-Butylbenzene	4.16E+01	GWP	9.89E-02	DWG
sec-Butylbenzene	3.52E+01	GWP	1.06E-01	DWG
tert-Butylbenzene	3.41E+01	GWP	1.03E-01	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
Butyl benzyl phthalate	1.22E+04	SDC	1.55E+00	DWG
Carbazole	1.33E+01	GWP	2.64E-02	DWG
Carbon disulfide	6.26E+00	INH	5.27E-01	DWG
Carbon tetrachloride	7.96E-02	INH	5.00E-03	DWG
p-Chloroaniline	6.77E-01	GWP	6.06E-02	DWG
Chlorobenzene	1.94E+00	GWP	5.58E-02	DWG
Chloroethane	2.81E-01	GWP	4.85E-02	DWG
Chloroform	7.66E-02	INH	8.00E-02	DWG
Chloromethane	2.04E-01	INH	1.83E-02	DWG
2-Chloronaphthalene	5.58E+01	GWP	2.33E-01	DWG
2-Chlorophenol	9.63E-01	GWP	1.63E-02	DWG
4-Chlorophenyl phenyl ether	2.06E-02	GWP	1.06E-05	DWG
2-Chlorotoluene	3.88E+00	GWP	6.19E-02	DWG
4-Chlorotoluene	2.35E-02	GWP	3.10E-04	DWG
Chrysene	5.99E+02	SDC	1.03E-02	DWG
Dibenzo(a,h)anthracene	6.20E-01	SDC	4.21E-06	DWG
Dibenzofuran	6.56E+00	GWP	5.67E-03	DWG
Dibromochloromethane	8.70E-01	GWP	8.00E-02	DWG
1,2-Dibromo-3-chloropropane	1.10E-03	GWP	2.00E-04	DWG
Dibutyl phthalate	5.46E+03	GWP	1.08E+00	DWG
1,2-Dichlorobenzene	5.61E+01	GWP	6.00E-01	DWG
1,3-Dichlorobenzene	8.39E+00	GWP	8.93E-02	DWG
1,4-Dichlorobenzene	7.02E+00	GWP	7.50E-02	DWG
3,3-Dichlorobenzidine	1.30E-01	GWP	1.19E-03	DWG
Dichlorodifluoromethane	1.49E+00	INH	2.20E-01	DWG
1,1-Dichloroethane	1.80E-01	GWP	2.49E-02	DWG
1,1-Dichloroethylene	1.08E-01	GWP	7.00E-03	DWG
cis-1,2-Dichloroethylene	5.21E-01	GWP	7.00E-02	DWG
trans-1,2-Dichloroethylene	1.10E+00	GWP	1.00E-01	DWG
2,4-Dichlorophenol	9.03E-01	GWP	3.89E-02	DWG
1,2-Dichloropropane	4.20E-02	GWP	5.00E-03	DWG
1,3-Dichloropropene	5.06E-02	GWP	4.31E-03	DWG
Di(2-ethylhexyl)adipate	3.88E+03	SDC	4.00E-01	DWG
Diethyl phthalate	5.24E+02	GWP	1.19E+01	DWG
Diisopropyl ether (DIPE)	4.12E+00	GWP	3.51E-01	DWG
2,4-Dimethylphenol	9.37E+00	GWP	2.89E-01	DWG
2,6-Dimethylphenol	2.25E+00	GWP	9.39E-03	DWG
Dimethyl phthalate	1.12E+03	GWP	1.54E+02	DWG
1,3-Dinitrobenzene	2.62E-02	GWP	1.53E-03	DWG
2,4-Dinitrophenol	4.08E-02	GWP	3.08E-02	DWG

Notes:

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
2,4-Dinitrotoluene	3.25E-02	GWP	2.09E-03	DWG
2,6-Dinitrotoluene	1.12E-02	GWP	9.64E-04	DWG
4-Amino-2,6-dinitrotoluene	1.37E-01	GWP	2.47E-03	DWG
2-Amino-4,6-dinitrotoluene	2.05E-01	GWP	2.41E-03	DWG
Di-n-octylphthalate	7.58E+01	GWP	2.13E-01	DWG
1,4-Dioxane	2.35E-01	GWP	6.10E-02	DWG
Diphenylamine	2.80E+01	GWP	3.09E-01	DWG
1,2-Diphenylhydrazine	7.20E-02	GWP	7.22E-04	DWG
Ethanol	7.73E+02	GWP	5.15E+02	DWG
Ethylbenzene	3.99E+01	GWP	7.00E-01	DWG
Ethylene dibromide (EDB)	4.73E-04	GWP	5.00E-05	DWG
Ethylene dichloride (EDC)	2.06E-02	GWP	5.00E-03	DWG
Ethylene glycol	6.00E+01	GWP	3.13E+01	DWG
Ethylene thiourea	3.51E-03	GWP	1.25E-03	DWG
Ethyl-tert-butyl-ether (ETBE)	1.06E-01	GWP	1.44E-02	DWG
Fluoranthene	2.28E+03	SDC	1.64E-01	DWG
Fluorene	2.11E+02	GWP	1.03E-01	DWG
Formaldehyde	2.42E-02	GWP	1.47E-02	DWG
n-Hexane	1.92E+00	INH	1.27E-01	INH
Hexachlorobenzene	2.91E+00	SDC	2.23E-04	GDC
Hexachlorobutadiene	1.60E+01	GWP	2.00E-03	DWG
Hexachlorocyclopentadiene	2.43E+01	SDC	2.73E-02	INH
Hexachloroethane	2.84E+00	GWP	1.06E-02	DWG
Hexachlorophene	4.25E-01	GWP	5.70E-04	DWG
HMX	5.34E+00	GWP	7.82E-01	DWG
Indeno(1,2,3-cd)pyrene	3.77E+00	SDC	3.82E-05	DWG
Isophorone	5.69E+00	GWP	6.86E-01	DWG
Isopropylbenzene (Cumene)	1.05E+01	INH	3.30E-01	DWG
4-Isopropyltoluene	2.71E+02	GWP	7.86E-01	DWG
Maleic anhydride	7.79E+00	GWP	1.51E+00	DWG
Methanol	2.08E+01	GWP	7.81E+00	DWG
Methyl butyl ketone	1.90E-02	GWP	4.75E-03	DWG
Methyl ethyl ketone	7.30E+00	GWP	3.64E+00	DWG
2-Methyl-4,6-dinitrophenol	2.00E-03	GWP	1.51E-03	DWG
Methylene chloride	1.76E-02	GWP	5.00E-03	DWG
Methyl iodide	2.23E-01	GWP	8.59E-03	DWG
Methyl isobutyl ketone	1.95E+01	GWP	9.15E-01	DWG
2-Methylnaphthalene	7.55E+00	GWP	1.17E-02	DWG
2-Methylphenol	1.11E+01	GWP	7.43E-01	DWG
3-Methylphenol	4.81E+00	GWP	7.42E-01	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
4-Methylphenol	6.40E-01	GWP	7.43E-02	DWG
Methyl teriary butyl ether (MTBE)	3.98E-01	GWP	1.28E-01	DWG
Methyl-2,4,6-trinitrophenylnitramine	5.57E+00	GWP	1.54E-01	DWG
Naphthalene	3.25E-01	GWP	1.09E-03	DWG
2-Nitroaniline	2.39E-01	GWP	4.48E-02	DWG
3-Nitroaniline	3.29E-02	GWP	4.57E-03	DWG
4-Nitroaniline	9.46E-02	GWP	3.16E-02	DWG
Nitrobenzene	1.98E-02	GWP	1.81E-03	DWG
Nitroglycerin	1.61E-02	GWP	1.07E-03	DWG
2-Nitrophenol	1.34E-01	GWP	3.03E-02	DWG
4-Nitrophenol	5.39E-02	GWP	3.01E-02	DWG
n-Nitrosodimethylamine	4.09E-05	GWP	1.32E-05	DWG
n-Nitrosodi-n-propylamine	4.04E-04	GWP	9.41E-05	DWG
n-Nitrosodiphenylamine	2.20E+01	GWP	1.14E-01	DWG
n-Nitrosopyrrolidine	4.53E-04	GWP	3.19E-04	DWG
2-Nitrotoluene	1.35E-02	GWP	6.04E-04	DWG
3-Nitrotoluene	1.44E+00	GWP	6.49E-02	DWG
4-Nitrotoluene	1.82E-01	GWP	8.18E-03	DWG
Pentachlorobenzene	1.96E+01	GWP	3.28E-03	DWG
Pentachloronitrobenzene	5.19E+00	GWP	1.31E-03	DWG
Pentachlorophenol	8.94E-02	GWP	1.00E-03	DWG
Pentaerythritol tetranitrate	4.74E+03	GWP	5.06E+00	DWG
Phenanthrene	1.58E+02	GWP	7.50E-02	DWG
Phenol	2.56E+01	GWP	4.57E+00	DWG
m-Phenylenediamine	1.39E-01	GWP	9.37E-02	DWG
Polychlorinated biphenyls (PCBs)	2.20E+00	SDC	6.34E-05	GDC
n-Propylbenzene	1.30E+01	GWP	1.15E-01	DWG
Pyrene	1.50E+03	GWP	9.61E-02	DWG
RDX	6.50E-02	GWP	6.07E-03	DWG
Styrene	1.17E+01	GWP	1.00E-01	DWG
1,1,1,2-Tetrachloroethane	7.15E-02	GWP	5.27E-03	DWG
1,1,2,2-Tetrachloroethane	1.05E-02	GWP	6.89E-04	DWG
1,2,4,5-Tetrachlorobenzene	4.84E-01	GWP	2.02E-03	DWG
Tetrachloroethylene	1.41E-01	GWP	5.00E-03	DWG
Tetrahydrofuran	3.00E-02	GWP	2.03E-02	DWG
Tertiary-amyl-methyl-ether (TAME)	6.77E-01	GWP	8.28E-02	DWG
Tertiary-butyl-alcohol (TBA)	5.58E-01	GWP	2.86E-01	DWG
Toluene	2.98E+01	GWP	1.00E+00	DWG
1,2,4-Trichlorobenzene	1.87E+01	GWP	7.00E-02	DWG
1,3,5-Trichlorobenzene	1.72E+00	GWP	1.60E-02	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
1,1,1-Trichloroethane	4.24E+00	GWP	2.00E-01	DWG
1,1,2-Trichloroethane	4.48E-02	GWP	5.00E-03	DWG
Trichloroethylene	1.41E-01	GWP	5.00E-03	DWG
Trichlorofluoromethane	7.35E+00	INH	6.98E-01	DWG
2,4,5-Trichlorophenol	2.93E+02	GWP	1.22E+00	DWG
2,4,6-Trichlorophenol	6.36E-02	GWP	1.10E-03	DWG
1,2,3-Trichloropropane	6.23E-04	GWP	6.93E-05	DWG
1,1,2-Trichlorotrifluoroethane	6.41E+02	INH	3.30E+01	DWG
1,2,4-Trimethylbenzene	3.93E+00	GWP	7.06E-03	DWG
1,3,5-Trimethylbenzene	8.82E-01	GWP	7.05E-03	DWG
1,3,5-Trinitrobenzene	1.59E+00	GWP	4.64E-01	DWG
2,4,6-Trinitrotoluene (TNT)	3.60E-01	GWP	7.63E-03	DWG
Vinyl chloride (for residential scenario)	1.92E-02	GWP	2.00E-03	DWG
Vinyl chloride (for occupational scenatio)	1.69E-01	INH	7.53E-02	GDC
Xylenes (total)	2.47E+01	INH	1.00E+01	DWG
Pesticides				
Acetochlor	9.36E+00	GWP	3.01E-01	DWG
Acifluorfen	3.69E+00	GWP	2.03E-01	DWG
Acrolein	1.06E-04	GWP	2.38E-05	DWG
Alachlor	5.95E-02	GWP	2.00E-03	DWG
Aldicarb	1.11E-02	GWP	3.00E-03	DWG
Aldicarb sulfone	5.31E-03	GWP	3.00E-03	DWG
Aldrin	2.85E-01	SDC	3.74E-05	DWG
Ametryn	7.60E+00	GWP	1.28E-01	DWG
Atrazine	2.22E-01	GWP	3.00E-03	DWG
Baygon	1.57E+00	GWP	6.26E-02	DWG
Butylate	1.08E+01	GWP	5.38E-01	DWG
Captan	8.73E+00	GWP	2.83E-01	DWG
Carbaryl	2.50E+01	GWP	1.49E+00	DWG
Carbofuran	3.39E-01	GWP	4.00E-02	DWG
Carboxin	1.01E+01	INH	1.41E+00	DWG
Chloramben	6.55E+00	GWP	2.21E-01	DWG
Chlordane (technical)	5.40E+00	GWP	3.02E-04	DWG
Chlordane, gamma	1.60E+01	SDC	2.00E-03	DWG
Chlorothalonil	1.37E+02	GWP	1.59E-01	DWG
Chlorpyrifos	8.16E+00	GWP	2.93E-02	DWG
Coumaphos	2.01E+02	GWP	8.45E-02	DWG
Cyanazine	2.65E-03	INH	7.87E-04	DWG
Dacthal	6.11E+02	SDC	9.03E-02	DWG
Dalapon, sodium salt	3.33E-01	GWP	2.00E-01	DWG
DDD	2.02E+01	SDC	5.24E-04	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
DDE	1.43E+01	SDC	4.11E-04	DWG
DDT	1.43E+01	SDC	2.42E-04	DWG
DEF	2.16E+00	SDC	1.05E-04	DWG
Demeton	2.38E-01	GWP	5.74E-03	DWG
Diazinon	4.00E-01	GWP	1.13E-02	DWG
Dicamba	8.38E+00	GWP	4.54E-01	DWG
2,4-Dichlorophenoxy acetic acid (2,4-D)	9.38E+00	GWP	7.00E-02	DWG
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	7.54E+00	GWP	9.40E-02	DWG
Dichloroprop (2,4-DP)	1.78E-01	GWP	1.34E-01	DWG
Dieldrin	9.36E-02	GWP	2.94E-05	DWG
Dimethoate	1.67E-02	GWP	3.12E-03	DWG
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	1.38E-01	GWP	7.00E-03	DWG
Diquat	6.34E-01	GWP	2.00E-02	DWG
Disulfoton	7.48E-04	GWP	4.78E-04	DWG
Diuron	1.70E+00	GWP	2.93E-02	DWG
Endosulfan	2.71E+01	GWP	8.48E-02	DWG
Endothall	1.96E+00	GWP	1.00E-01	DWG
Endrin	3.66E+00	GWP	2.00E-03	DWG
Endrin aldehyde	1.82E+01	SDC	7.13E-04	DWG
Endrin ketone	1.83E+01	SDC	2.07E-03	DWG
Eptam	2.96E+00	GWP	7.98E-02	DWG
Ethoprop	2.53E-01	GWP	1.39E-03	DWG
Fenamiphos	1.98E-01	GWP	3.91E-03	DWG
Fenthion	1.66E-01	GWP	1.01E-03	DWG
Fluometuron	5.57E+00	GWP	2.03E-01	DWG
Fonofos	1.14E+01	GWP	2.13E-02	DWG
alpha-Hexachlorocyclohexane	1.27E-02	GWP	6.88E-05	DWG
beta-Hexachlorocyclohexane	4.50E-02	GWP	2.38E-04	DWG
delta-Hexachlorocyclohexane	1.72E-01	GWP	2.70E-04	DWG
gamma-Hexachlorocyclohexane	3.21E-02	GWP	2.00E-04	DWG
Glyphosate	3.79E+02	GWP	7.00E-01	DWG
Guthion	8.83E-01	GWP	2.28E-02	DWG
Heptachlor	8.23E-01	INH	1.29E-04	INH
Heptachlor epoxide	5.33E-01	SDC	1.52E-04	GDC
Hexazinone	3.44E+00	GWP	5.03E-01	DWG
Malathion	8.25E+01	GWP	3.07E-01	DWG
Maleic hydrazide	5.86E+01	GWP	7.82E+00	DWG
Maneb	6.51E+00	GWP	7.82E-02	DWG
Methomyl	1.38E+00	GWP	3.89E-01	DWG
Methoxychlor	3.04E+02	SDC	4.00E-02	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	9.12E-02	GWP	6.26E-03	DWG
MCPP	1.80E-02	GWP	1.36E-02	DWG
Metolachlor	2.33E+02	GWP	2.20E+00	DWG
Metribuzin	6.03E+00	GWP	3.90E-01	DWG
Mirex	3.10E-02	GWP	3.74E-05	DWG
Naled	6.58E-01	GWP	3.11E-02	DWG
o,o,o-Triethylphosphorothioate	2.00E-03	GWP	2.69E-05	DWG
Oxamyl	5.03E-01	GWP	2.00E-01	DWG
Paraquat	1.62E+02	GWP	7.04E-02	DWG
ethyl-Parathion	6.21E+01	GWP	7.44E-02	DWG
methyl-Parathion	2.80E+00	GWP	3.69E-03	DWG
Pendimethalin	2.44E+03	SDC	1.67E-01	DWG
Phenylmercuric acetate	1.41E-02	GWP	1.25E-03	DWG
Phorate	2.69E-01	GWP	2.69E-03	DWG
Picloram	1.80E+00	INH	7.19E-02	INH
Prometon	1.70E+01	GWP	2.14E-01	DWG
Pronamide	2.97E+01	GWP	9.56E-01	DWG
Propachlor	8.23E+00	GWP	2.03E-01	DWG
Propanil	9.50E+00	GWP	7.00E-02	DWG
Propazine	3.07E-01	GWP	1.26E-02	DWG
Propham	4.16E+00	GWP	2.86E-01	DWG
Silvex (2,4,5-TP)	4.83E-01	GWP	5.00E-02	DWG
Simazine	8.75E-02	GWP	4.00E-03	DWG
Strychnine	6.11E-02	GWP	4.65E-03	DWG
Tebuthiuron	6.44E+00	GWP	1.08E+00	DWG
Terbacil	1.51E+00	GWP	2.03E-01	DWG
Terbufos	2.67E-02	GWP	2.68E-04	DWG
Terbutryn	2.88E+00	GWP	1.18E-02	DWG
Toxaphene	4.41E+00	SDC	1.72E-03	GDC
Triallate	3.95E+01	GWP	1.18E-01	DWG
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1.26E+00	GWP	1.37E-01	DWG
Trifluralin	6.12E+01	GWP	2.98E-02	DWG
Warfarin	5.95E-01	GWP	4.31E-03	DWG
Metals				
Aluminum	7.55E+04	SDC	1.56E+01	DWG
Antimony	6.66E+00	GWP	6.00E-03	DWG
Arsenic	3.89E+00	SDC	1.00E-02	DWG
Barium	2.04E+03	GWP	2.00E+00	DWG
Beryllium	7.37E-01	SDC	4.00E-03	DWG
Cadmium	9.31E+00	GWP	5.00E-03	DWG
Chromium (III) total chromium	7.46E+04	SDC	1.00E-01	DWG

Notes:

DWG: Domestic water use of groundwater

GWP: Protection of domestic groundwater use pathway

SDC: Soil direct contact pathway

GDC: GW dermal contact pathway

INH: Indoor inhalation pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-1
Lowest Default Target Levels
All Soil Types and All Pathways

Chemicals of Concern	Soil [mg/kg]		Groundwater [mg/L]	
Chromium (VI)	1.59E-03	GWP	3.37E-06	DWG
Copper	6.17E+02	GWP	6.24E-01	DWG
Lead	3.74E+00	GWP	1.50E-02	DWG
Manganese	2.72E+03	GWP	2.19E+00	DWG
Mercury	2.19E+00	INH	5.07E-02	INH
Molybdenum	3.87E+01	GWP	7.80E-02	DWG
Nickel	5.05E+02	GWP	3.13E-01	DWG
Selenium	6.27E+00	GWP	5.00E-02	DWG
Silver	1.62E+01	GWP	7.81E-02	DWG
Strontium	4.77E+02	GWP	9.37E+00	DWG
Thallium chloride	2.20E+00	GWP	1.25E-03	DWG
Vanadium	5.30E+02	SDC	1.09E-01	DWG
Zinc	7.22E+03	GWP	4.69E+00	DWG
Inorganics				
Ammonia	2.21E-01	GWP	1.19E-01	DWG
Cyanide	7.71E+01	GWP	3.12E-01	DWG
Cyanide (as Sodium Cyanide)	2.65E-01	GWP	2.00E-01	DWG
Cyanogen bromide	1.84E+00	GWP	2.97E-01	DWG
Fluoride (as Sodium Fluoride)	5.29E+00	GWP	4.00E+00	DWG
Perchlorate	1.45E-02	GWP	1.09E-02	DWG
White phosphorus	1.46E-02	GWP	8.64E-05	DWG
Total Petroleum Hydrocarbons				
TPH-GRO				
Aliphatics - > C6-C8	2.53E+02	INH	9.94E+00	INH
Aliphatics - > C8-C10	5.24E+01	INH	3.40E-01	INH
Aromatics - >C8-C10	4.12E+01	GWP	1.72E-01	DWG
TPH-DRO				
Aliphatics - >C10-C12	2.60E+02	INH	2.27E-01	INH
Aliphatics - >C12-C16	1.18E+03	INH	5.23E-02	INH
Aliphatics - >C16-C21	1.22E+05	SDC	3.13E+01	DWG
Aromatics - >C10-C12	6.49E+01	GWP	1.72E-01	DWG
Aromatics - >C12-C16	1.29E+02	GWP	1.72E-01	DWG
Aromatics - >C16-C21	1.11E+03	GWP	4.69E-01	DWG
TPH-ORO				
Aliphatics - >C21-C35	1.22E+05	SDC	3.13E+01	DWG
Aromatics - >C21-C35	1.72E+03	SDC	4.69E-01	DWG

Notes:

DWG: Domestic water use of groundwater

GDC: GW dermal contact pathway

GWP: Protection of domestic groundwater use pathway

INH: Indoor inhalation pathway

SDC: Soil direct contact pathway

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AAA	C/NC	Dermal Contact	CH/AAA	C/NC	Ingestion	CH/AAA	C/NC	Inhalation	CH/AAA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AAA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AAA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AAA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AAA	C/NC	Dermal Contact	CH/AAA	C/NC	Domestic Water Use	M/CH/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
VOCs and SVOCs																															
Acenaphthene	1.25E-01	CH	NC	1.29E+04 *	CH	NC	4.69E+03 *	CH	NC	3.44E+04 *	CH	NC	3.13E+03 *	CH	NC	6.69E+04 *	CH	NC	1.00E+04 +	CH	NC	1.61E+03 #	CH	NC	1.35E+00	CH	NC	1.65E-01	CH	NC
Acenaphthylene	1.25E-01	CH	NC	NA	--	--	4.69E+03 *	CH	NC	3.86E+04 *	CH	NC	4.18E+03 *	CH	NC	8.41E+04 *	CH	NC	9.60E+03 +	CH	NC	2.06E+03 #	CH	NC	1.60E+00	CH	NC	1.70E-01	CH	NC
Acetone	1.88E+00	CH	NC	NA	--	--	7.04E+04 *	CH	NC	4.87E+05 *	CH	NC	6.15E+04 *	CH	NC	1.83E+03	CH	NC	5.09E+04	CH	NC	3.26E+04	CH	NC	6.66E+03	CH	NC	2.97E+00	CH	NC
Acetonitrile	3.58E-02	CH	NC	NA	--	--	1.33E+03	CH	NC	9.27E+03	CH	NC	1.16E+03	CH	NC	9.63E+01	CH	NC	9.25E+02	CH	NC	6.64E+02	CH	NC	1.26E+02	CH	NC	5.64E-02	CH	NC
Acrylamide	1.97E-05	AA	C	4.50E+00	AA	C	1.42E+00	AA	C	4.51E+01	AA	C	1.05E+00	AA	C	1.46E+02	AA	C	1.69E-02	AA	C	4.19E+02	AA	C	1.57E-01	AA	C	1.49E-04	AA	C
Acrylic acid	5.97E-04	CH	NC	1.40E+05 *	CH	NC	3.91E+04	CH	NC	1.54E+02	CH	NC	1.54E+02	CH	NC	2.13E+02	CH	NC	1.70E+01	CH	NC	3.60E+03	CH	NC	1.49E+03	CH	NC	7.77E+00	CH	NC
Acrylonitrile	3.77E-04	AA	C	NA	--	--	1.18E+01	AA	C	2.65E+02	CH	C	1.15E+01	AA	C	1.24E-01	AA	C	1.17E+01	AA	C	2.12E+00	AA	C	2.58E-01	AA	C	4.68E-04	AA	C
Allyl alcohol	1.04E-02	CH	NC	1.40E+03	CH	NC	3.91E+02	CH	NC	2.70E+03	CH	NC	2.74E+02	CH	NC	3.45E+02	CH	NC	3.06E+02	CH	NC	1.52E+03	CH	NC	1.99E+01	CH	NC	7.78E-02	CH	NC
Allyl chloride	5.97E-04	CH	NC	8.10E+01	CH	NC	2.27E+01	CH	NC	1.54E+02	CH	NC	1.59E+01	CH	NC	2.22E+02	CH	NC	1.96E+01	CH	NC	6.38E+02	CH	NC	1.92E-01	CH	NC	4.40E-03	CH	NC
Aniline	5.97E-04	CH	NC	1.96E+03	CH	NC	5.48E+02	CH	NC	1.55E+02	CH	NC	1.14E+02	CH	NC	5.20E+01	CH	NC	2.80E+01	CH	NC	4.88E+02	CH	NC	1.21E+01	CH	NC	1.08E-01	CH	NC
Anthracene	6.27E-01	CH	NC	6.45E+04 *	CH	NC	2.35E+04 *	CH	NC	1.86E+05 *	CH	NC	1.57E+04 *	CH	NC	3.90E+05 *	CH	NC	6.50E+04 +	CH	NC	2.29E+03 #	CH	NC	3.17E+00 #	CH	NC	6.96E-01 #	CH	NC
Aroclor 1016	1.46E-04	CH	NC	1.40E+01	CH	NC	5.48E+00	CH	NC	2.19E+02	CH	NC	3.86E+00	CH	NC	2.32E+03 *	CH	NC	2.56E+01 +	CH	NC	2.20E+00 #	CH	NC	3.24E-04	CH	NC	1.96E-04	CH	NC
Aroclor 1221	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.08E+01	CH	NC	1.02E+00	CH	NC	1.22E+00	CH	NC	4.93E+00	CH	NC	3.85E-02	CH	NC	2.39E-04	CH	NC	1.13E-04	AA	C
Aroclor 1242	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.08E+01	CH	NC	1.02E+00	CH	NC	1.36E+01 *	CH	NC	7.55E+00 +	CH	NC	3.69E-01 #	CH	NC	1.01E-04	CH	NC	5.93E-05	AA	C
Aroclor 1248	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	2.79E+01	CH	NC	1.08E+00	CH	NC	1.32E+02 *	CH	NC	9.00E+00 +	CH	NC	8.49E-02 #	CH	NC	5.50E-05	CH	NC	3.50E-05	AA	C
Aroclor 1254	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	4.54E+01	CH	NC	1.10E+00	CH	NC	3.49E+02 *	CH	NC	9.00E+00 +	CH	NC	1.16E-01 #	CH	NC	4.74E-05	CH	NC	3.06E-05	AA	C
Aroclor 1260	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.24E+02	CH	NC	1.11E+00	CH	NC	2.63E+03	CH	NC	1.21E+01 +	CH	NC	7.04E-02	CH	NC	5.24E-05	CH	NC	3.35E-05	AA	C
Azobenzene	8.27E-04	AA	C	NA	--	--	5.81E+01	AA	C	2.35E+03 *	AA	C	5.67E+01	AA	C	9.46E+03 *	AA	C	5.60E+01 +	AA	C	3.01E+01 #	AA	C	3.81E-03	AA	C	8.61E-04	AA	C
Benzene	4.98E-03	AA	C	NA	--	--	1.83E+02	AA	C	3.50E+03 *	CH	C	1.77E+02	AA	C	3.78E-01	AA	C	1.90E+02	AA	C	1.00E+00	AA	C	2.92E-01	AA	C	5.00E-03	M	M
Benzidine	3.83E-07	AA	C	8.80E-02	AA	C	2.78E-02	AA	C	4.31E+01	AA	C	2.11E-02	AA	C	7.55E+03	AA	C	1.15E-05	AA	C	7.33E+00	AA	C	3.17E-04	AA	C	2.88E-06	AA	C
Benzo(a)anthracene	2.30E-04	AA	C	2.13E+01	AA	C	8.75E+00	AA	C	8.17E+05 *	AA	C	6.20E+00	AA	C	2.60E+05 *	AA	C	1.49E+01 +	AA	C	1.10E+02 #	AA	C	1.74E-04	AA	C	1.03E-04	AA	C
Benzo(a)pyrene	2.30E-05	AA	C	2.13E+00	AA	C	8.75E-01	AA	C	8.17E+04 *	AA	C	6.20E-01	AA	C	2.25E+05 *	AA	C	1.70E+00 +	AA	C	3.73E+01 #	AA	C	1.02E-05	AA	C	2.00E-04	M	M
Benzo(b)fluoranthene	2.30E-04	AA	C	2.13E+01 *	AA	C	8.75E+00	AA	C	2.99E+03 *	AA	C	6.19E+00	AA	C	5.55E+04 *	AA	C	3.42E+01 +	AA	C	7.65E+00 #	AA	C	1.01E-04	AA	C	6.27E-05	AA	C
Benzo(g,h,i)perylene	6.27E-02	CH	NC	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	2.23E+08 *	CH	NC	1.72E+03 *	CH	NC	2.04E+09 *	CH	NC	1.25E+03 +	CH	NC	2.18E+05 #	CH	NC	3.79E-02 #	CH	NC	2.64E-02 #	CH	NC
Benzo(k)fluoranthene	2.30E-04	AA	C	2.13E+02 *	AA	C	8.75E+01 *	AA	C	8.17E+05 *	AA	C	6.20E+01 *	AA	C	6.83E+06 *	AA	C	3.14E+01 +	AA	C	9.37E+02 #	AA	C	1.04E-03 #	AA	C	6.46E-04	AA	C
Benzoic acid	8.36E+00	CH	NC	1.12E+06 *	CH	NC	3.13E+05 *	CH	NC	2.16E+06 *	CH	NC	2.20E+05 *	CH	NC	4.60E+05 *	CH	NC	5.09E+05 +	CH	NC	8.18E+06 #	CH	NC	1.98E+03	CH	NC	6.00E+01	CH	NC
Benzyl alcohol	6.27E-01	CH	NC	8.38E+04 *	CH	NC	2.35E+04 *	CH	NC	1.62E+05 *	CH	NC	1.65E+04 *	CH	NC	1.90E+05 *	CH	NC	2.45E+04 +	CH	NC	1.53E+06 #	CH	NC	4.59E+02	CH	NC	4.63E+00	CH	NC
1,1-Biphenyl	1.04E-01	CH	NC	NA	--	--	3.91E+03 *	CH	NC	2.70E+04 *	CH	NC	3.42E+03 *	CH	NC	4.39E+03 *	CH	NC	8.69E+03	CH	NC	5.35E+02 #	CH	NC	1.78E+00	CH	NC	1.46E-01	CH	NC
Bis(2-chloroethyl)ether	7.77E-05	AA	C	NA	--	--	5.81E+00	AA	C	5.46E+01	CH	C	5.49E+00	AA	C	7.50E-01	AA	C	3.78E+00	AA	C	5.20E+00	AA	C	5.28E-02	AA	C	1.23E-04	AA	C
Bis(2-chloroisopropyl)ether	2.56E-03	AA	C	NA	--	--	9.13E+01	AA	C	1.80E+03 *	CH	C	8.88E+01	AA	C	1.18E+01	AA	C	1.37E+02	AA	C	3.04E+01	AA	C	1.45E-01	AA	C	3.23E-03	AA	C
Bis(chloromethyl)ether	4.13E-07	AA	C	NA	--	--	2.90E-02	AA	C	2.91E-01	CH	C	2.75E-02	AA	C	1.15E-04	AA	C	1.57E-02	AA	C	1.91E-03	AA	C	6.65E-04	AA	C	6.50E-07	AA	C
Bis(2-ethylhexyl)phthalate	6.41E-03	AA	C	1.45E+03	AA	C	4.56E+02	AA	C	2.28E+07 *	AA	C	3.47E+02	AA	C	1.02E+10 *	AA	C	4.70E+02 +	AA	C	1.14E+05 #	AA	C	7.52E-02	AA	C	6.00E-03	M	M
Bromochloromethane	2.98E-02	CH	NC	NA	--	--	3.13E+03	CH	NC	7.72E+03 *	CH	NC	2.23E+03	CH	NC	6.37E+00	CH	NC	1.04E+03	CH	NC	3.01E+01	CH	NC	4.87E+01	CH	NC	5.44E-02	CH	NC
Bromodichloromethane	6.93E-04	AA	C	NA	--	--	1.03E+02	AA	C	4.87E+02	CH	C	9.24E+01	AA	C	4.72E-01	AA	C	7.82E+01	AA	C	1.25E+00	AA	C	3.21E-01	AA	C	8.00E-02	M	M
Bromoform	2.33E-02	AA	C	2.56E+03 *	AA	C	8.09E+02	AA	C	1.08E+04 *	CH	NC	6.02E+02	AA	C	1.39E+02	AA	C	5.26E+03	AA	C	2.44E+02	AA	C	2.96E+00	AA	C	8.00E-02	M	M
Bromomethane	2.98E-03	CH	NC	NA	--	--	1.10E+02	CH	NC	7.72E+02	CH	NC	9.59E+01	CH	NC	8.42E-02	CH	NC	1.37E+02	CH	NC	6.23E-01	CH	NC	1.62E+00	CH	NC	4.67E-03	CH	NC
4-Bromophenyl phenyl ether	7.77E-06	AA	C	1.35E+00	AA	C	4.26E-01	AA	C	9.73E+00	CH	C	3.14E-01	AA	C	1.17E+01	AA	C	5.50E-01	AA	C	1.17E-01	AA	C	2.11E-05	AA	C	1.07E-05	AA	C
n-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	1.18E+02	CH	NC	3.75E+03	CH	NC	8.76E+00	CH	NC	5.36E-01	CH	NC	9.89E-02	CH	NC
sec-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	6.52E+01	CH	NC	3.75E+03	CH	NC	6.23E+00	CH	NC	7.27E-01	CH	NC	1.06E-01	CH	NC
tert-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	1.00E+02	CH	NC	3.75E+03	CH	NC	9.43E+00	CH	NC	6.34E-01	CH	NC	1.03E-01	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
Butyl benzyl phthalate	4.18E-01	CH	NC	5.59E+04 *	CH	NC	1.56E+04 *	CH	NC	1.48E+09 *	CH	NC	1.22E+04 *	CH	NC	5.06E+08 *	CH	NC	7.57E+04 +	CH	NC	1.49E+06 #	CH	NC	4.19E+00 #	CH	NC	1.55E+00	CH	NC
Carbazole	4.49E-03	AA	C	1.01E+03 *	AA	C	3.19E+02 *	AA	C	9.34E+04 *	AA	C	2.42E+02 *	AA	C	2.78E+06 *	AA	C	8.55E+01 +	AA	C	1.38E+05 #	AA	C	1.83E-01	AA	C	2.64E-02	AA	C
Carbon disulfide	4.18E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.08E+05 *	CH	NC	7.29E+03 *	CH	NC	6.26E+00	CH	NC	1.35E+04	CH	NC	1.42E+01	CH	NC	2.08E+01	CH	NC	5.27E-01	CH	NC
Carbon tetrachloride	1.71E-03	AA	C	NA	--	--	4.91E+01	AA	C	1.20E+03 *	CH	C	4.81E+01	AA	C	7.96E-02	AA	C	7.37E+01	AA	C	7.67E-02	AA	C	4.69E-02	AA	C	5.00E-03	M	M
p-Chloroaniline	8.36E-03	CH	NC	1.12E+03	CH	NC	3.13E+02	CH	NC	4.37E+03 *	CH	NC	2.31E+02	CH	NC	1.62E+04 *	CH	NC	4.89E+02 +	CH	NC	3.65E+04 #	CH	NC	2.62E+00	CH	NC	6.06E-02	CH	NC
Chlorobenzene	3.55E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	9.19E+03 *	CH	NC	1.34E+03 *	CH	NC	1.51E+01	CH	NC	1.64E+03	CH	NC	1.25E+01	CH	NC	2.14E+00	CH	NC	5.58E-02	CH	NC
Chloroethane	3.09E-02	AA	C	NA	--	--	2.20E+03 *	AA	C	2.17E+04 *	CH	C	2.09E+03 *	AA	C	5.39E-01	AA	C	1.04E+03	AA	C	2.87E+00	AA	C	9.07E+00	AA	C	4.85E-02	AA	C
Chloroform	1.11E-03	AA	C	NA	--	--	2.06E+02	AA	C	7.83E+02	CH	C	1.80E+02	AA	C	7.66E-02	AA	C	3.60E+01	AA	C	2.80E-01	AA	C	5.78E-01	AA	C	8.00E-02	M	M
Chloromethane	1.42E-02	AA	C	NA	--	--	4.91E+02	AA	C	1.00E+04 *	CH	C	4.79E+02	AA	C	2.04E-01	AA	C	4.35E+02	AA	C	5.82E-01	AA	C	3.94E+00	AA	C	1.83E-02	AA	C
2-Chloronaphthalene	1.67E-01	CH	NC	NA	--	--	6.26E+03 *	CH	NC	4.32E+04 *	CH	NC	5.47E+03 *	CH	NC	1.67E+04 *	CH	NC	2.25E+04 +	CH	NC	1.77E+03 #	CH	NC	2.71E+00	CH	NC	2.33E-01	CH	NC
2-Chlorophenol	1.04E-02	CH	NC	NA	--	--	3.91E+02	CH	NC	2.70E+03	CH	NC	3.42E+02	CH	NC	1.05E+02	CH	NC	7.01E+02	CH	NC	4.52E+01	CH	NC	1.69E+00	CH	NC	1.63E-02	CH	NC
4-Chlorophenyl phenyl ether	7.77E-06	AA	C	1.35E+00	AA	C	4.26E-01	AA	C	5.46E+00	CH	C	3.14E-01	AA	C	3.23E+00	AA	C	5.34E-01	AA	C	4.25E-02	AA	C	2.07E-05	AA	C	1.06E-05	AA	C
2-Chlorotoluene	4.18E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	1.08E+04 *	CH	NC	1.37E+03 *	CH	NC	3.75E+01	CH	NC	2.00E+03 +	CH	NC	1.71E+01	CH	NC	1.38E+00	CH	NC	6.19E-02	CH	NC
4-Chlorotoluene	1.55E-04	CH	NC	NA	--	--	1.56E+03 *	CH	NC	4.02E+01	CH	NC	3.92E+01	CH	NC	1.77E-01	CH	NC	7.72E+00	CH	NC	6.66E-02	CH	NC	1.17E+00	CH	NC	3.10E-04	CH	NC
Chrysene	2.30E-03	AA	C	2.13E+03 *	AA	C	8.75E+02 *	AA	C	1.76E+04 *	AA	C	5.99E+02 *	AA	C	1.92E+05 *	AA	C	3.12E+02 +	AA	C	8.17E+01 #	AA	C	1.74E-02 #	AA	C	1.03E-02 #	AA	C
Dibenzo(a,h)anthracene	2.19E-05	AA	C	2.13E+00	AA	C	8.75E-01	AA	C	7.77E+04 *	AA	C	6.20E-01	AA	C	2.22E+07 *	AA	C	5.86E-01 +	AA	C	9.85E+02 #	AA	C	6.60E-06	AA	C	4.21E-06	AA	C
Dibenzofuran	4.18E-03	CH	NC	NA	--	--	1.56E+02	CH	NC	1.08E+03 *	CH	NC	1.37E+02	CH	NC	1.25E+03 *	CH	NC	2.34E+02 +	CH	NC	2.74E+01 #	CH	NC	5.47E-02	CH	NC	5.67E-03	CH	NC
Dibromochloromethane	9.49E-04	AA	C	2.41E+02	AA	C	7.60E+01	AA	C	6.67E+02	CH	C	5.52E+01	AA	C	2.22E+00	AA	C	1.63E+02	AA	C	5.20E+00	AA	C	2.55E-01	AA	C	8.00E-02	M	M
1,2-Dibromo-3-chloropropane	6.41E-05	AA	C	1.45E+01	AA	C	4.46E+00	CH	NC	1.09E+02	CH	NC	3.37E+00	CH	NC	3.75E+02 *	AA	C	1.01E+04 +	AA	C	1.71E+03 #	AA	C	9.82E-03	AA	C	2.00E-04	M	M
Dibutyl phthalate	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	7.42E+08 *	CH	NC	6.11E+03 *	CH	NC	1.46E+09 *	CH	NC	2.76E+02 +	CH	NC	7.27E+06 #	CH	NC	4.76E+00	CH	NC	1.08E+00	CH	NC
1,2-Dichlorobenzene	1.19E-01	CH	NC	NA	--	--	7.04E+03 *	CH	NC	3.08E+04 *	CH	NC	5.73E+03 *	CH	NC	2.81E+02	CH	NC	5.80E+03	CH	NC	8.30E+01	CH	NC	5.26E+00	CH	NC	6.00E-01	M	M
1,3-Dichlorobenzene	6.27E-02	CH	NC	NA	--	--	2.35E+03 *	CH	NC	1.62E+04 *	CH	NC	2.05E+03 *	CH	NC	1.48E+02	CH	NC	3.05E+03	CH	NC	4.36E+01	CH	NC	1.24E+00	CH	NC	8.93E-02	CH	NC
1,4-Dichlorobenzene	4.08E-03	AA	C	NA	--	--	1.18E+03 *	AA	C	2.87E+03 *	CH	C	9.66E+02 *	AA	C	7.53E+00	AA	C	1.99E+02	AA	C	2.26E+00	AA	C	4.49E-01	AA	C	7.50E-02	M	M
3,3-Dichlorobenzidine	7.48E-05	AA	C	4.50E+01 *	AA	C	1.42E+01 *	AA	C	2.65E+05 *	AA	C	1.08E+01	AA	C	1.29E+04 *	AA	C	4.81E-01 +	AA	C	2.97E+03 #	AA	C	8.78E-03	AA	C	1.19E-03	AA	C
Dichlorodifluoromethane	1.19E-01	CH	NC	NA	--	--	1.56E+04 *	CH	NC	3.08E+04 *	CH	NC	1.04E+04 *	CH	NC	1.49E+00	CH	NC	5.00E+03	CH	NC	1.61E+00	CH	NC	6.31E+01	CH	NC	2.20E-01	CH	NC
1,1-Dichloroethane	1.60E-02	AA	C	NA	--	--	1.12E+03	AA	C	7.57E+03 *	CH	NC	1.06E+03	AA	C	9.22E-01	AA	C	7.28E+02	AA	C	3.73E+00	AA	C	3.53E+00	AA	C	2.49E-02	AA	C
1,1-Dichloroethylene	1.19E-01	CH	NC	NA	--	--	3.91E+03 *	CH	NC	3.09E+04 *	CH	NC	3.47E+03 *	CH	NC	2.59E+00	CH	NC	4.46E+03	CH	NC	5.38E+00	CH	NC	1.34E+01	CH	NC	7.00E-03	M	M
cis-1,2-Dichloroethylene	2.09E-02	CH	NC	NA	--	--	7.82E+02	CH	NC	5.41E+03 *	CH	NC	6.83E+02	CH	NC	1.71E+00	CH	NC	9.54E+02	CH	NC	6.55E+00	CH	NC	4.22E+00	CH	NC	7.00E-02	M	M
trans-1,2-Dichloroethylene	4.18E-02	CH	NC	NA	--	--	1.56E+03	CH	NC	1.08E+04 *	CH	NC	1.37E+03	CH	NC	2.30E+00	CH	NC	1.99E+03	CH	NC	6.24E+00	CH	NC	6.14E+00	CH	NC	1.00E-01	M	M
2,4-Dichlorophenol	6.27E-03	CH	NC	8.38E+02	CH	NC	2.35E+02	CH	NC	1.95E+03	CH	NC	1.68E+02	CH	NC	4.29E+03 *	CH	NC	5.95E+02	CH	NC	4.65E+03 #	CH	NC	3.09E-01	CH	NC	3.89E-02	CH	NC
1,2-Dichloropropane	2.39E-03	CH	NC	NA	--	--	8.60E+01	CH	NC	6.18E+02	CH	NC	7.55E+01	CH	NC	3.03E-01	CH	NC	1.03E+02	CH	NC	1.02E+00	CH	NC	4.21E-01	CH	NC	5.00E-03	M	M
1,3-Dichloropropene	6.41E-03	AA	C	NA	--	--	6.39E+01	AA	C	3.09E+03 *	CH	NC	6.34E+01	AA	C	2.24E-01	AA	C	3.44E+02	AA	C	5.96E-01	AA	C	2.99E-01	AA	C	4.31E-03	AA	C
Di(2-ethylhexyl)adipate	7.48E-02	AA	C	1.69E+04 *	AA	C	5.32E+03 *	AA	C	5.26E+04 *	CH	C	3.88E+03 *	AA	C	1.65E+04 *	AA	C	7.05E+03 +	AA	C	9.31E+00 #	AA	C	6.69E-01 #	AA	C	4.00E-01 #	M	M
Diethyl phthalate	1.67E+00	CH	NC	2.23E+05 *	CH	NC	6.26E+04 *	CH	NC	5.93E+09 *	CH	NC	4.89E+04 *	CH	NC	1.82E+07 *	CH	NC	1.88E+05 +	CH	NC	1.04E+07 #	CH	NC	3.03E+02	CH	NC	1.19E+01	CH	NC
Diisopropyl ether (DIPE)	2.30E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	5.95E+04 *	CH	NC	6.91E+03 *	CH	NC	3.30E+01	CH	NC	1.13E+04	CH	NC	8.19E+01	CH	NC	3.48E+01	CH	NC	3.51E-01	CH	NC
2,4-Dimethylphenol	4.18E-02	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	1.49E+04 *	CH	NC	1.13E+03	CH	NC	3.75E+04 *	CH	NC	2.35E+03 +	CH	NC	2.91E+04 #	CH	NC	5.12E+00	CH	NC	2.89E-01	CH	NC
2,6-Dimethylphenol	1.25E-03	CH	NC	1.68E+02	CH	NC	4.69E+01	CH	NC	6.70E+02	CH	NC	3.48E+01	CH	NC	2.54E+03	CH	NC	7.17E+01	CH	NC	2.67E+02	CH	NC	NA	--	--	9.39E-03	CH	NC
Dimethyl phthalate	2.09E+01	CH	NC	2.79E+06 *	CH	NC	7.82E+05 *	CH	NC	1.37E+07 *	CH	NC	5.85E+05 *	CH	NC	6.40E+07 *	CH	NC	9.40E+05 +	CH	NC	2.21E+08 #	CH	NC	1.26E+04 #	CH	NC	1.54E+02	CH	NC
1,3-Dinitrobenzene	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	5.70E+01 *	CH	NC	5.52E+00	CH	NC	1.10E+02 *	CH	NC	2.46E+00 +	CH	NC	1.62E+02 #	CH	NC	9.96E-02	CH	NC	1.53E-03	CH	NC
2,4-Dinitrophenol	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02 *	CH	NC	1.08E+03 *	CH	NC	1.10E+02	CH	NC	1.24E+03 *	CH	NC	4.20E+02 +	CH	NC	2.35E+04 #	CH	NC	2.52E+00	CH	NC	3.08E-02	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL												SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
2,4-Dinitrotoluene	2.89E-04	AA	C	6.53E+01	AA	C	2.06E+01	AA	C	3.81E+02 *	AA	C	1.50E+01	AA	C	7.11E+02 *	AA	C	4.31E+00 +	AA	C	1.15E+03 #	AA	C	8.45E-02	AA	C	2.09E-03	AA	C
2,6-Dinitrotoluene	1.32E-04	AA	C	2.98E+01	AA	C	9.39E+00	AA	C	1.62E+02 *	CH	C	6.85E+00	AA	C	1.91E+02 *	AA	C	1.25E+01 +	AA	C	4.12E+02 #	AA	C	5.69E-02	AA	C	9.64E-04	AA	C
4-Amino-2,6-dinitrotoluene	5.97E-05	CH	NC	4.75E+01	CH	NC	1.33E+01	CH	NC	1.95E+02 *	CH	NC	9.86E+00	CH	NC	4.51E+03 *	CH	NC	3.52E-01 +	CH	NC	2.05E+03 #	CH	NC	4.58E-02	CH	NC	2.47E-03	CH	NC
2-Amino-4,6-dinitrotoluene	5.97E-05	CH	NC	4.75E+01	CH	NC	1.33E+01	CH	NC	2.46E+02 *	CH	NC	9.97E+00	CH	NC	7.15E+03 *	CH	NC	2.48E-01 +	CH	NC	2.12E+03 #	CH	NC	3.49E-02	CH	NC	2.41E-03	CH	NC
Di-n-octylphthalate	8.36E-02	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	3.39E+04 *	CH	NC	2.28E+03 *	CH	NC	9.75E+04 *	CH	NC	1.86E+04 +	CH	NC	6.89E+03 #	CH	NC	4.37E-01 #	CH	NC	2.13E-01 #	CH	NC
1,4-Dioxane	3.33E-03	AA	C	1.84E+03	AA	C	5.81E+02	AA	C	2.34E+03	CH	C	4.00E+02	AA	C	3.83E+01	AA	C	4.85E+01	AA	C	2.50E+02	AA	C	3.93E+01	AA	C	6.10E-02	AA	C
Diphenylamine	5.97E-03	CH	NC	6.98E+03 *	CH	NC	1.96E+03 *	CH	NC	2.69E+03 *	CH	NC	9.74E+02 *	CH	NC	8.60E+03 *	CH	NC	3.27E+02 +	CH	NC	2.39E+03 #	CH	NC	2.01E+00	CH	NC	3.09E-01	CH	NC
1,2-Diphenylhydrazine	1.16E-04	AA	C	2.53E+01	AA	C	7.98E+00	AA	C	1.29E+03	AA	C	6.04E+00	AA	C	2.02E+04 *	AA	C	7.14E-01 +	AA	C	5.10E+03 #	AA	C	7.70E-03	AA	C	7.22E-04	AA	C
Ethanol	1.13E+00	CH	NC	NA	--	--	2.58E+06 *	CH	NC	2.92E+05 *	CH	NC	2.62E+05 *	CH	NC	7.17E+03	CH	NC	3.28E+04	CH	NC	1.20E+05	CH	NC	2.48E+05	CH	NC	5.15E+02	CH	NC
Ethylbenzene	6.06E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	7.45E+03 *	CH	NC	1.93E+02	CH	NC	2.72E+04	CH	NC	1.03E+02	CH	NC	6.34E+00	CH	NC	7.00E-01	M	M
Ethylene dibromide (EDB)	4.27E-05	AA	C	NA	--	--	3.19E+00	AA	C	3.00E+01	CH	C	3.02E+00	AA	C	8.61E-02	AA	C	6.62E+00	AA	C	2.30E-01	AA	C	1.41E-02	AA	C	5.00E-05	M	M
Ethylene dichloride (EDC)	9.86E-04	AA	C	NA	--	--	7.02E+01	AA	C	6.93E+02	CH	C	6.65E+01	AA	C	1.32E-01	AA	C	3.19E+01	AA	C	8.62E-01	AA	C	3.53E-01	AA	C	5.00E-03	M	M
Ethylene glycol	2.38E-01	CH	NC	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	7.08E+04	CH	NC	4.48E+04	CH	NC	1.49E+05 *	CH	NC	4.74E+03 +	CH	NC	1.95E+06 #	CH	NC	6.62E+04	CH	NC	3.13E+01	CH	NC
Ethylene thiourea	1.67E-04	CH	NC	2.23E+01	CH	NC	6.26E+00	CH	NC	1.09E+02	CH	NC	4.68E+00	CH	NC	5.07E+02	CH	NC	5.65E-02	CH	NC	4.53E+03	CH	NC	1.51E+00	CH	NC	1.25E-03	CH	NC
Ethyl-tert-butyl-ether (ETBE)	1.80E-01	CH	NC	NA	--	--	7.82E+01	CH	NC	4.65E+04 *	CH	NC	7.81E+01	CH	NC	2.58E+01	CH	NC	8.69E+03	CH	NC	9.90E+01	CH	NC	5.00E-01	CH	NC	1.44E-02	CH	NC
Fluoranthene	8.36E-02	CH	NC	8.59E+03 *	CH	NC	3.13E+03 *	CH	NC	3.26E+05 *	CH	NC	2.28E+03 *	CH	NC	9.01E+06 *	CH	NC	9.27E+03 +	CH	NC	1.42E+04 #	CH	NC	3.00E-01 #	CH	NC	1.64E-01	CH	NC
Fluorene	8.36E-02	CH	NC	8.59E+03 *	CH	NC	3.13E+03 *	CH	NC	5.38E+04 *	CH	NC	2.20E+03 *	CH	NC	2.46E+05 *	CH	NC	7.73E+03 +	CH	NC	3.01E+03 #	CH	NC	6.27E-01	CH	NC	1.03E-01	CH	NC
Formaldehyde	1.79E-03	CH	NC	4.45E+02	AA	C	1.41E+02	AA	C	4.63E+02	CH	NC	1.03E+02	AA	C	1.46E+02	CH	NC	3.04E+01	CH	NC	2.23E+03	CH	NC	2.21E+00	AA	C	1.47E-02	AA	C
n-Hexane	4.18E-01	CH	NC	NA	--	--	8.60E+05 *	CH	NC	1.08E+05 *	CH	NC	9.61E+04 *	CH	NC	1.92E+00	CH	NC	7.02E+03	CH	NC	1.27E-01	CH	NC	4.99E+02 #	CH	NC	8.30E-01	CH	NC
Hexachlorobenzene	5.59E-05	AA	C	1.26E+01	AA	C	3.99E+00	AA	C	3.93E+01	CH	C	2.91E+00	AA	C	2.12E+01	AA	C	3.47E+00 +	AA	C	7.01E-02	AA	C	2.23E-04	AA	C	1.00E-03	M	M
Hexachlorobutadiene	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	1.62E+02	CH	NC	1.65E+01	CH	NC	3.62E+01	CH	NC	3.76E+01	CH	NC	1.38E-01	CH	NC	4.73E-03	CH	NC	2.00E-03	CH	NC
Hexachlorocyclopentadiene	1.19E-04	CH	NC	1.68E+03	CH	NC	4.69E+02	CH	NC	3.09E+01	CH	NC	2.85E+01	CH	NC	2.70E+01	CH	NC	2.49E+01	CH	NC	2.73E-02	CH	NC	1.28E-01	CH	NC	5.00E-02	M	M
Hexachloroethane	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	5.41E+02 *	CH	NC	5.49E+01	CH	NC	1.90E+02	CH	NC	2.81E+03	CH	NC	1.81E+01	CH	NC	4.48E-02	CH	NC	1.06E-02	CH	NC
Hexachlorophene	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	1.48E+06 *	CH	NC	1.11E-03 +	CH	NC	4.97E+04 #	CH	NC	8.78E-04	CH	NC	5.70E-04	CH	NC
HMX	1.61E-03	CH	NC	1.40E+04 *	CH	NC	3.91E+03 *	CH	NC	5.72E+06 *	CH	NC	3.05E+03 *	CH	NC	1.89E+04 *	CH	NC	2.44E+00 +	CH	NC	6.95E+04 #	CH	NC	1.02E+04 #	CH	NC	7.82E-01	CH	NC
Indeno(1,2,3-cd)pyrene	2.30E-04	AA	C	1.30E+01 *	AA	C	5.32E+00 *	AA	C	8.17E+05 *	AA	C	3.77E+00 *	AA	C	1.22E+07 *	AA	C	3.86E+01 +	AA	C	5.96E+02 #	AA	C	6.14E-05 #	AA	C	3.82E-05 #	AA	C
Isophorone	9.44E-02	AA	C	2.13E+04 *	AA	C	6.72E+03 *	AA	C	6.64E+04 *	CH	C	4.91E+03 *	AA	C	6.23E+03 *	AA	C	5.07E+03 +	AA	C	1.89E+04 #	AA	C	3.34E+01	AA	C	6.86E-01	AA	C
Isopropylbenzene (Cumene)	2.39E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	6.18E+04 *	CH	NC	6.94E+03 *	CH	NC	1.05E+01	CH	NC	1.07E+04	CH	NC	3.97E+00	CH	NC	4.51E+00	CH	NC	3.30E-01	CH	NC
4-Isopropyltoluene	6.27E-01	CH	NC	NA	--	--	2.35E+04 *	CH	NC	1.62E+05 *	CH	NC	2.05E+04 *	CH	NC	1.10E+03 *	CH	NC	3.68E+04 +	CH	NC	9.85E+01 #	CH	NC	5.19E+00	CH	NC	7.86E-01	CH	NC
Maleic anhydride	4.18E-04	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.08E+02	CH	NC	1.06E+02	CH	NC	1.89E+01	CH	NC	1.47E+01 +	CH	NC	9.22E+01	CH	NC	6.12E+01	CH	NC	1.51E+00	CH	NC
Methanol	2.30E+00	CH	NC	NA	--	--	3.91E+04	CH	NC	5.95E+05 *	CH	NC	3.67E+04	CH	NC	2.94E+04	CH	NC	5.11E+04	CH	NC	2.77E+05	CH	NC	6.63E+03	CH	NC	7.81E+00	CH	NC
Methyl butyl ketone	2.39E-03	CH	NC	NA	--	--	4.69E+03 *	CH	NC	6.18E+02	CH	NC	5.46E+02	CH	NC	5.50E+00	CH	NC	1.15E+02	CH	NC	3.48E+01	CH	NC	4.59E+01	CH	NC	4.75E-03	CH	NC
Methyl ethyl ketone	2.98E+00	CH	NC	NA	--	--	4.69E+04 *	CH	NC	7.72E+05 *	CH	NC	4.42E+04 *	CH	NC	3.88E+03	CH	NC	1.12E+05	CH	NC	4.89E+04	CH	NC	2.27E+03	CH	NC	3.64E+00	CH	NC
2-Methyl-4,6-dinitrophenol	1.79E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	9.29E+01	CH	NC	5.73E+00	CH	NC	3.40E+02 *	CH	NC	6.79E-01 +	CH	NC	6.44E+03 #	CH	NC	5.56E-02	CH	NC	1.51E-03	CH	NC
Methylene chloride	5.45E-02	AA	C	NA	--	--	8.52E+02	AA	C	3.83E+04 *	CH	C	8.42E+02	AA	C	2.86E+00	AA	C	1.82E+03	AA	C	2.27E+01	AA	C	5.54E+00	AA	C	5.00E-03	M	M
Methyl iodide	7.16E-03	CH	NC	NA	--	--	1.10E+02	CH	NC	1.85E+03	CH	NC	1.03E+02	CH	NC	1.14E+00	CH	NC	2.36E+02	CH	NC	1.31E+00	CH	NC	1.39E+00	CH	NC	8.59E-03	CH	NC
Methyl isobutyl ketone	1.79E+00	CH	NC	NA	--	--	6.26E+03	CH	NC	4.63E+05 *	CH	NC	6.17E+03	CH	NC	1.22E+04	CH	NC	8.03E+04	CH	NC	1.45E+04	CH	NC	9.34E+01	CH	NC	9.15E-01	CH	NC
2-Methylnaphthalene	8.36E-03	CH	NC	NA	--	--	3.13E+02	CH	NC	2.16E+03 *	CH	NC	2.73E+02	CH	NC	6.27E+02	CH	NC	4.47E+02	CH	NC	2.52E+01	CH	NC	1.41E-01	CH	NC	1.17E-02	CH	NC
2-Methylphenol	1.04E-01	CH	NC	1.40E+04	CH	NC	3.91E+03	CH	NC	2.88E+04 *	CH	NC	2.76E+03	CH	NC	5.64E+04 *	CH	NC	4.62E+03 +	CH	NC	9.51E+04 #	CH	NC	2.00E+01	CH	NC	7.43E-01	CH	NC
3-Methylphenol	1.04E-01	CH	NC	1.40E+04 *	CH	NC	3.91E+03	CH	NC	2.70E+04 *	CH	NC	2.74E+03	CH	NC	3.34E+04 *	CH	NC	4.53E+03 +	CH	NC	1.30E+05 #	CH	NC	1.98E+01	CH	NC	7.42E-01	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
4-Methylphenol	1.04E-02	CH	NC	1.40E+03	CH	NC	3.91E+02	CH	NC	2.70E+03	CH	NC	2.74E+02	CH	NC	3.86E+03	CH	NC	4.56E+02	CH	NC	1.13E+04	CH	NC	2.00E+00	CH	NC	7.43E-02	CH	NC
Methyl teriary butyl ether (MTBE)	9.86E-02	AA	C	NA	--	--	3.55E+03	AA	C	6.93E+04 *	CH	C	3.45E+03	AA	C	2.16E+01	AA	C	4.14E+03	AA	C	1.81E+02	AA	C	2.35E+01	AA	C	1.28E-01	AA	C
Methyl-2,4,6-trinitrophenylnitramine	5.97E-05	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	2.12E+05 *	CH	NC	6.09E+02 *	CH	NC	4.78E+03 *	CH	NC	2.72E-04 +	CH	NC	3.31E+03 #	CH	NC	1.19E+01	CH	NC	1.54E-01	CH	NC
Naphthalene	7.48E-04	AA	C	1.30E+02	AA	C	5.32E+01	AA	C	4.65E+02 *	CH	NC	3.63E+01	AA	C	2.59E+01	AA	C	4.26E+01	AA	C	2.25E+00	AA	C	2.06E-02	AA	C	1.09E-03	AA	C
2-Nitroaniline	6.27E-05	CH	NC	8.38E+02 *	CH	NC	2.35E+02	CH	NC	1.73E+01	CH	NC	1.58E+01	CH	NC	3.39E+01	CH	NC	3.29E+00	CH	NC	1.60E+02	CH	NC	1.33E+00	CH	NC	4.48E-02	CH	NC
3-Nitroaniline	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	6.70E+02 *	CH	NC	1.78E+01	CH	NC	5.05E+03 *	CH	NC	4.03E+00 +	CH	NC	1.77E+04 #	CH	NC	2.45E-01	CH	NC	4.57E-03	CH	NC
4-Nitroaniline	2.09E-03	CH	NC	8.38E+02 *	CH	NC	2.35E+02 *	CH	NC	1.53E+03 *	CH	NC	1.64E+02 *	CH	NC	7.89E+03 *	CH	NC	2.18E+00 +	CH	NC	6.63E+04 #	CH	NC	3.81E+00	AA	C	3.16E-02	AA	C
Nitrobenzene	1.19E-03	CH	NC	NA	--	--	3.91E+01	CH	NC	3.08E+02	CH	NC	3.47E+01	CH	NC	2.36E+01	CH	NC	5.26E+01	CH	NC	5.43E+01	CH	NC	2.78E-01	CH	NC	1.81E-03	CH	NC
Nitroglycerin	1.46E-04	CH	NC	1.96E+01	CH	NC	5.48E+00	CH	NC	5.19E+05 *	CH	NC	4.28E+00	CH	NC	1.08E+03	CH	NC	6.02E+00 +	CH	NC	1.79E+03	CH	NC	5.87E-02	CH	NC	1.07E-03	CH	NC
2-Nitrophenol	2.39E-03	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	6.18E+02	CH	NC	1.02E+02	CH	NC	8.85E+02	CH	NC	1.09E+02	CH	NC	5.02E+03	CH	NC	1.26E+00	CH	NC	3.03E-02	CH	NC
4-Nitrophenol	5.97E-04	CH	NC	5.59E+02 *	CH	NC	1.56E+02	CH	NC	3.37E+02 *	CH	NC	8.97E+01	CH	NC	1.34E+03 *	CH	NC	6.01E-01 +	CH	NC	1.88E+04 #	CH	NC	1.05E+00	CH	NC	3.01E-02	CH	NC
n-Nitrosodimethylamine	1.84E-06	AA	C	3.97E-01	AA	C	1.25E-01	AA	C	1.29E+00	CH	C	9.15E-02	AA	C	7.65E-02	AA	C	4.55E-02	AA	C	6.18E-01	AA	C	1.20E-02	AA	C	1.32E-05	AA	C
n-Nitrosodi-n-propylamine	1.28E-05	AA	C	2.89E+00	AA	C	9.13E-01	AA	C	9.01E+00	CH	C	6.66E-01	AA	C	1.44E+00	AA	C	7.76E-01	AA	C	8.41E+00	AA	C	7.05E-03	AA	C	9.41E-05	AA	C
n-Nitrosodiphenylamine	9.97E-03	AA	C	4.13E+03 *	AA	C	1.30E+03 *	AA	C	1.68E+04 *	AA	C	9.36E+02 *	AA	C	4.04E+04 *	AA	C	1.06E+03	AA	C	5.25E+03 #	AA	C	9.96E-01	AA	C	1.14E-01	AA	C
n-Nitrosopyrrolidine	4.20E-05	AA	C	9.63E+00	AA	C	3.04E+00	AA	C	4.74E+01	CH	C	2.22E+00	AA	C	5.12E+01	AA	C	6.70E-01	AA	C	9.07E+02	AA	C	1.03E-01	AA	C	3.19E-04	AA	C
2-Nitrotoluene	3.90E-04	AA	C	NA	--	--	2.78E+01	AA	C	2.74E+02	CH	C	2.63E+01	AA	C	9.70E+00	AA	C	2.03E+01	AA	C	1.10E+01	AA	C	4.89E-02	AA	C	6.04E-04	AA	C
3-Nitrotoluene	4.18E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	1.08E+04 *	CH	NC	1.37E+03 *	CH	NC	8.74E+02 *	CH	NC	2.19E+03 +	CH	NC	9.91E+02 #	CH	NC	5.29E+00	CH	NC	6.49E-02	CH	NC
4-Nitrotoluene	5.28E-03	AA	C	NA	--	--	3.76E+02 *	AA	C	3.71E+03 *	CH	C	3.56E+02	AA	C	1.09E+02	AA	C	2.77E+02	AA	C	1.23E+02	AA	C	6.61E-01	AA	C	8.18E-03	AA	C
Pentachlorobenzene	1.67E-03	CH	NC	2.23E+02	CH	NC	6.26E+01	CH	NC	4.32E+02 *	CH	NC	4.39E+01	CH	NC	6.92E+02 *	CH	NC	8.39E+01 +	CH	NC	3.08E+00 #	CH	NC	6.03E-03	CH	NC	3.28E-03	CH	NC
Pentachloronitrobenzene	3.45E-04	AA	C	7.78E+01	AA	C	2.46E+01	AA	C	9.29E+02 *	AA	C	1.83E+01	AA	C	3.55E+03 *	AA	C	7.29E+01 +	AA	C	2.26E+01 #	AA	C	3.98E-03	AA	C	1.31E-03	AA	C
Pentachlorophenol	4.98E-03	AA	C	6.74E+01	AA	C	5.32E+01	AA	C	1.77E+07 *	AA	C	2.97E+01	AA	C	4.62E+05 *	AA	C	1.28E+02 +	AA	C	1.30E+05 #	AA	C	1.12E-03	AA	C	1.00E-03	M	M
Pentaerythritol tetranitrate	8.36E-01	CH	NC	1.12E+05 *	CH	NC	3.13E+04 *	CH	NC	2.97E+09 *	CH	NC	2.44E+04 *	CH	NC	4.10E+07 *	CH	NC	6.08E+04 +	CH	NC	1.10E+06 #	CH	NC	3.58E+01 #	CH	NC	5.06E+00	CH	NC
Phenanthrene	6.27E-02	CH	NC	NA	--	--	2.35E+03 *	CH	NC	2.96E+04 *	CH	NC	2.17E+03 *	CH	NC	9.93E+04 *	CH	NC	6.32E+03 +	CH	NC	1.19E+03 #	CH	NC	4.20E-01	CH	NC	7.50E-02	CH	NC
Phenol	1.19E-01	CH	NC	8.38E+04 *	CH	NC	2.35E+04 *	CH	NC	3.25E+04 *	CH	NC	1.17E+04	CH	NC	6.27E+04 *	CH	NC	4.51E+03 +	CH	NC	2.81E+05 #	CH	NC	2.27E+02	CH	NC	4.57E+00	CH	NC
m-Phenylenediamine	1.25E-02	CH	NC	1.68E+03	CH	NC	4.69E+02	CH	NC	6.07E+03	CH	NC	3.46E+02	CH	NC	2.10E+04 *	CH	NC	1.37E+00	CH	NC	3.54E+05 #	CH	NC	8.58E+01	CH	NC	9.37E-02	CH	NC
Polychlorinated biphenyls (PCBs)	2.56E-04	AA	C	7.23E+00	AA	C	3.19E+00	AA	C	4.89E+02 *	AA	C	2.20E+00	AA	C	1.32E+03 *	AA	C	8.29E+00 +	AA	C	7.41E-01 #	AA	C	6.34E-05	AA	C	5.00E-04	M	M
n-Propylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	3.99E+01	CH	NC	3.75E+03	CH	NC	1.09E+01	CH	NC	1.18E+00	CH	NC	1.15E-01	CH	NC
Pyrene	6.27E-02	CH	NC	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	3.08E+05 *	CH	NC	1.71E+03 *	CH	NC	1.07E+07 *	CH	NC	7.69E+03 +	CH	NC	1.73E+04 #	CH	NC	1.64E-01 #	CH	NC	9.61E-02	CH	NC
RDX	8.16E-04	AA	C	1.84E+02	AA	C	5.81E+01	AA	C	1.72E+03 *	AA	C	4.30E+01	AA	C	5.15E+03 *	AA	C	2.72E+01 +	AA	C	1.21E+04 #	AA	C	1.26E+00	AA	C	6.07E-03	AA	C
Styrene	5.97E-01	CH	NC	NA	--	--	1.56E+04 *	CH	NC	1.54E+05 *	CH	NC	1.42E+04 *	CH	NC	1.19E+03	CH	NC	2.83E+04	CH	NC	2.86E+02	CH	NC	1.67E+01	CH	NC	1.00E-01	M	M
1,1,1,2-Tetrachloroethane	3.46E-03	AA	C	NA	--	--	2.46E+02	AA	C	2.44E+03 *	CH	C	2.33E+02	AA	C	9.05E-01	AA	C	1.64E+02	AA	C	1.87E+00	AA	C	2.22E-01	AA	C	5.27E-03	AA	C
1,1,2,2-Tetrachloroethane	4.42E-04	AA	C	NA	--	--	3.19E+01	AA	C	3.11E+02	CH	C	3.02E+01	AA	C	9.11E-01	AA	C	2.09E+01	AA	C	1.54E+00	AA	C	6.45E-02	AA	C	6.89E-04	AA	C
1,2,4,5-Tetrachlorobenzene	6.27E-04	CH	NC	8.38E+01 *	CH	NC	2.35E+01 *	CH	NC	1.62E+02 *	CH	NC	1.65E+01 *	CH	NC	1.93E+01 *	CH	NC	9.99E+01 +	CH	NC	2.08E+00 #	CH	NC	4.81E-03	CH	NC	2.02E-03	CH	NC
Tetrachloroethylene	4.27E-03	AA	C	NA	--	--	1.18E+01	AA	C	3.00E+03 *	CH	C	1.18E+01	AA	C	3.00E-01	AA	C	2.00E+02	AA	C	3.38E-01	AA	C	5.06E-03	AA	C	5.00E-03	M	M
Tetrahydrofuran	1.32E-02	AA	C	NA	--	--	8.40E+02	AA	C	9.28E+03	CH	C	8.01E+02	AA	C	9.33E+00	AA	C	4.53E+02	AA	C	1.60E+02	AA	C	1.26E+01	AA	C	2.03E-02	AA	C
Tertiary-amyl-methyl-ether (TAME)	4.80E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	1.24E+04 *	CH	NC	2.50E+03 *	CH	NC	5.86E+00	CH	NC	2.31E+03	CH	NC	2.06E+01	CH	NC	1.86E+01	CH	NC	8.28E-02	CH	NC
Tertiary-butyl-alcohol (TBA)	1.80E-01	CH	NC	NA	--	--	7.04E+03	CH	NC	4.65E+04 *	CH	NC	6.11E+03	CH	NC	1.03E+03	CH	NC	7.07E+03	CH	NC	1.32E+04	CH	NC	1.52E+02	CH	NC	2.86E-01	CH	NC
Toluene	2.92E+00	CH	NC	NA	--	--	6.26E+03 *	CH	NC	7.57E+05 *	CH	NC	6.21E+03 *	CH	NC	4.99E+02	CH	NC	1.13E+05	CH	NC	5.08E+02	CH	NC	8.58E+00	CH	NC	1.00E+00	M	M
1,2,4-Trichlorobenzene	2.09E-03	CH	NC	NA	--	--	7.82E+02	CH	NC	5.41E+02	CH	NC	3.20E+02	CH	NC	4.34E+01	CH	NC	2.34E+02	CH	NC	4.25E+00	CH	NC	2.91E-01	CH	NC	7.00E-02	M	M
1,3,5-Trichlorobenzene	2.39E-02	CH	NC	NA	--	--	2.35E+02 *	CH	NC	6.18E+03 *	CH	NC	2.26E+02 *	CH	NC	6.18E+01 *	CH	NC	1.28E+03 +	CH	NC	1.60E+01 #	CH	NC	6.73E-02	CH	NC	1.60E-02	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
1,1,1-Trichloroethane	1.31E+00	CH	NC	NA	--	--	2.19E+04 *	CH	NC	3.40E+05 *	CH	NC	2.06E+04 *	CH	NC	6.86E+01	CH	NC	5.66E+04	CH	NC	1.02E+02	CH	NC	5.64E+01	CH	NC	2.00E-01	M	M
1,1,2-Trichloroethane	1.60E-03	AA	C	NA	--	--	1.12E+02	AA	C	1.13E+03	CH	C	1.06E+02	AA	C	6.67E-01	AA	C	6.91E+01	AA	C	1.98E+00	AA	C	3.05E-01	AA	C	5.00E-03	M	M
Trichloroethylene	1.28E-02	AA	C	NA	--	--	4.91E+02	AA	C	9.01E+03 *	CH	C	4.77E+02	AA	C	1.46E+00	AA	C	5.46E+02	AA	C	1.60E+00	AA	C	7.22E-01	AA	C	5.00E-03	M	M
Trichlorofluoromethane	4.18E-01	CH	NC	NA	--	--	2.35E+04 *	CH	NC	1.08E+05 *	CH	NC	1.93E+04 *	CH	NC	7.35E+00	CH	NC	1.61E+04	CH	NC	5.36E+00	CH	NC	5.89E+01	CH	NC	6.98E-01	CH	NC
2,4,5-Trichlorophenol	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03	CH	NC	1.95E+05 *	CH	NC	5.92E+03	CH	NC	1.29E+06 *	CH	NC	2.37E+04 +	CH	NC	1.36E+05 #	CH	NC	7.62E+00	CH	NC	1.22E+00	CH	NC
2,4,6-Trichlorophenol	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	6.88E+01	CH	NC	5.61E+00	CH	NC	1.61E+02	CH	NC	2.19E+01	CH	NC	6.96E+01	CH	NC	4.94E-03	CH	NC	1.10E-03	CH	NC
1,2,3-Trichloropropane	4.49E-05	AA	C	NA	--	--	3.19E+00	AA	C	3.15E+01	CH	C	3.03E+00	AA	C	5.47E-02	AA	C	2.12E+00	AA	C	1.57E-01	AA	C	4.81E-03	AA	C	6.93E-05	AA	C
1,1,2-Trichlorotrifluoroethane	1.80E+01	CH	NC	NA	--	--	2.35E+06 *	CH	NC	4.65E+06 *	CH	NC	1.56E+06 *	CH	NC	6.41E+02	CH	NC	2.10E+06	CH	NC	1.29E+02	CH	NC	3.72E+03 #	CH	NC	3.30E+01	CH	NC
1,2,4-Trimethylbenzene	3.58E-03	CH	NC	NA	--	--	3.91E+03 *	CH	NC	9.27E+02	CH	NC	7.49E+02	CH	NC	1.43E+01	CH	NC	1.61E+02	CH	NC	7.75E-01	CH	NC	1.66E+00	CH	NC	7.06E-03	CH	NC
1,3,5-Trimethylbenzene	3.58E-03	CH	NC	NA	--	--	3.91E+03 *	CH	NC	9.27E+02 *	CH	NC	7.49E+02 *	CH	NC	2.25E+00	CH	NC	1.61E+02	CH	NC	5.56E-01	CH	NC	1.54E+00	CH	NC	7.05E-03	CH	NC
1,3,5-Trinitrobenzene	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03 *	CH	NC	2.23E+08 *	CH	NC	1.83E+03 *	CH	NC	2.94E+05 *	CH	NC	2.89E+01 +	CH	NC	2.16E+06 #	CH	NC	5.29E+01	CH	NC	4.64E-01	CH	NC
2,4,6-Trinitrotoluene (TNT)	1.04E-03	CH	NC	1.40E+02	CH	NC	3.91E+01	CH	NC	3.71E+06 *	CH	NC	3.06E+01	CH	NC	6.10E+03 *	CH	NC	6.01E+01 +	CH	NC	3.25E+03 #	CH	NC	4.20E-01	CH	NC	7.63E-03	CH	NC
Vinyl chloride (for residential scenario)	2.91E-03	AA	C	NA	--	--	4.56E+00	AA	C	2.05E+03 *	CH	C	4.56E+00	AA	C	3.22E-02	AA	C	9.24E+01	AA	C	1.11E-01	AA	C	2.06E-02	AA	C	2.00E-03	M	M
Vinyl chloride (for occupational scenatio)	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--
Xylenes (total)	6.06E-02	CH	NC	NA	--	--	1.56E+04 *	CH	NC	1.57E+04 *	CH	NC	7.83E+03 *	CH	NC	2.47E+01	CH	NC	2.91E+03	CH	NC	1.18E+01	CH	NC	2.13E+01	CH	NC	1.00E+01	M	M
Pesticides																															
Acetochlor	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	1.48E+08 *	CH	NC	1.22E+03 *	CH	NC	8.12E+05 *	CH	NC	1.85E+03 +	CH	NC	6.57E+05 #	CH	NC	1.07E+01	CH	NC	3.01E-01	CH	NC
Acifluorfen	5.97E-03	CH	NC	3.63E+03	CH	NC	1.02E+03	CH	NC	2.12E+07 *	CH	NC	7.94E+02	CH	NC	5.52E+06 *	CH	NC	6.28E-03 +	CH	NC	7.56E+06 #	CH	NC	3.32E+02	CH	NC	2.03E-01	CH	NC
Acrolein	1.19E-05	CH	NC	NA	--	--	3.91E+01	CH	NC	3.09E+00	CH	NC	2.86E+00	CH	NC	1.34E-02	CH	NC	3.65E-01	CH	NC	7.61E-02	CH	NC	2.99E+00	CH	NC	2.38E-05	CH	NC
Alachlor	1.12E-03	AA	C	3.61E+02 *	AA	C	1.14E+02	AA	C	3.98E+06 *	AA	C	8.67E+01	AA	C	5.79E+04 *	AA	C	1.65E+01 +	AA	C	4.89E+04 #	AA	C	1.10E-01	AA	C	2.00E-03	M	M
Aldicarb	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	1.86E+03 *	CH	NC	5.92E+01	CH	NC	1.17E+04 *	CH	NC	4.61E+00 +	CH	NC	7.91E+04 #	CH	NC	1.73E+00	CH	NC	3.00E-03	M	M
Aldicarb sulfone	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	7.42E+06 *	CH	NC	6.11E+01	CH	NC	6.37E+03 *	CH	NC	1.23E+01 +	CH	NC	9.05E+04 #	CH	NC	4.77E+01	CH	NC	3.00E-03	M	M
Aldrin	5.23E-06	AA	C	1.19E+00	AA	C	3.76E-01	AA	C	1.01E+02	AA	C	2.85E-01	AA	C	2.81E+03 *	AA	C	1.33E+00 +	AA	C	1.94E-01 #	AA	C	1.05E-03	AA	C	3.74E-05	AA	C
Ametryn	1.88E-02	CH	NC	2.51E+03 *	CH	NC	7.04E+02 *	CH	NC	6.68E+07 *	CH	NC	5.50E+02 *	CH	NC	1.94E+06 *	CH	NC	1.53E+02 +	CH	NC	8.24E+05 #	CH	NC	1.97E+00	CH	NC	1.28E-01	CH	NC
Atrazine	4.08E-04	AA	C	8.80E+01 *	AA	C	2.78E+01	AA	C	1.45E+06 *	AA	C	2.11E+01	AA	C	5.20E+04 *	AA	C	3.19E+00 +	AA	C	1.77E+04 #	AA	C	4.23E-02	AA	C	3.00E-03	M	M
Baygon	8.36E-03	CH	NC	1.12E+03	CH	NC	3.13E+02	CH	NC	2.97E+07 *	CH	NC	2.44E+02	CH	NC	2.79E+04 *	CH	NC	4.51E+02	CH	NC	2.79E+04 #	CH	NC	NA	--	--	6.26E-02	CH	NC
Butylate	1.04E-01	CH	NC	1.40E+04 *	CH	NC	3.91E+03 *	CH	NC	2.70E+04 *	CH	NC	2.74E+03 *	CH	NC	1.66E+03 *	CH	NC	7.18E+03 +	CH	NC	2.09E+03 #	CH	NC	2.33E+00	CH	NC	5.38E-01	CH	NC
Captan	3.90E-02	AA	C	8.80E+03 *	AA	C	2.78E+03 *	AA	C	1.39E+08 *	AA	C	2.11E+03 *	AA	C	2.99E+04 *	AA	C	7.09E+03 +	AA	C	2.44E+04 #	AA	C	1.37E+01 #	AA	C	2.83E-01	AA	C
Carbaryl	2.30E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	5.95E+04 *	CH	NC	5.54E+03 *	CH	NC	3.50E+02 *	CH	NC	2.78E+04 +	CH	NC	5.50E+02 #	CH	NC	4.13E+01	CH	NC	1.49E+00	CH	NC
Carbofuran	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	3.71E+07 *	CH	NC	3.06E+02 *	CH	NC	1.64E+05 *	CH	NC	6.10E+01 +	CH	NC	4.88E+05 #	CH	NC	2.53E+00	CH	NC	4.00E-02	M	M
Carboxin	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	5.41E+04 *	CH	NC	5.49E+03 *	CH	NC	1.01E+01	CH	NC	1.57E+04 +	CH	NC	1.82E+00	CH	NC	1.88E+01	CH	NC	1.41E+00	CH	NC
Chloramben	3.13E-02	CH	NC	4.19E+03 *	CH	NC	1.17E+03 *	CH	NC	1.11E+08 *	CH	NC	9.17E+02 *	CH	NC	1.26E+05 *	CH	NC	1.68E+03 +	CH	NC	1.07E+05 #	CH	NC	5.25E+00	CH	NC	2.21E-01	CH	NC
Chlordane (technical)	2.56E-04	AA	C	5.78E+01 *	AA	C	1.83E+01	AA	C	1.59E+03 *	CH	NC	1.38E+01	AA	C	2.63E+04 *	AA	C	7.28E+01 +	AA	C	3.71E+01 #	AA	C	5.37E-04	AA	C	3.02E-04	AA	C
Chlordane, gamma	2.56E-04	AA	C	1.45E+02 *	AA	C	1.83E+01	AA	C	1.20E+03 *	CH	NC	1.60E+01	AA	C	1.49E+04 *	AA	C	2.60E+01 +	AA	C	6.44E+00 #	AA	C	2.00E-03	AA	C	2.00E-03	M	M
Chlorothalonil	2.89E-02	AA	C	1.05E+04 *	CH	NC	1.17E+03 *	CH	NC	1.03E+08 *	AA	C	1.06E+03 *	CH	NC	8.25E+05 *	AA	C	1.95E+03 +	AA	C	2.41E+04 #	AA	C	8.92E-01 #	AA	C	1.59E-01	AA	C
Chlorpyrifos	6.27E-03	CH	NC	8.38E+02 *	CH	NC	2.35E+02 *	CH	NC	2.23E+07 *	CH	NC	1.83E+02 *	CH	NC	4.02E+04 *	CH	NC	4.30E+02 +	CH	NC	3.63E+03 #	CH	NC	1.06E-01	CH	NC	2.93E-02	CH	NC
Coumaphos	1.46E-02	CH	NC	1.96E+03 *	CH	NC	5.48E+02 *	CH	NC	5.19E+07 *	CH	NC	4.28E+02 *	CH	NC	7.07E+07 *	CH	NC	1.60E+02 +	CH	NC	7.47E+05 #	CH	NC	5.01E-01 #	CH	NC	8.45E-02	CH	NC
Cyanazine	1.07E-04	AA	C	2.41E+01	AA	C	7.60E+00	AA	C	7.51E+01	CH	C	5.55E+00	AA	C	2.65E-03	AA	C	8.29E+00 +	AA	C	1.05E-03	AA	C	7.09E-02	AA	C	7.87E-04	AA	C
Dacthal	2.09E-02	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.11E+02 *	CH	NC	1.41E+03 *	CH	NC	4.70E-02 +	CH	NC	5.07E+00 #	CH	NC	2.89E-01 #	CH	NC	9.03E-02	CH	NC
Dalapon, sodium salt	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03 *	CH	NC	2.08E+04 *	CH	NC	1.68E+03 *	CH	NC	4.87E+04 *	CH	NC	1.91E+03 +	CH	NC	7.35E+05 #	CH	NC	2.61E+01	CH	NC	2.00E-01	M	M
DDD	3.74E-04	AA	C	8.43E+01	AA	C	2.66E+01	AA	C	1.33E+06 *	AA	C	2.02E+01	AA	C	2.67E+06 *	AA	C	7.28E+01 +	AA	C	4.50E+02 #	AA	C	9.64E-04	AA	C	5.24E-04	AA	C

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
DDE	2.64E-04	AA	C	5.95E+01	AA	C	1.88E+01	AA	C	1.85E+04 *	AA	C	1.43E+01	AA	C	1.91E+06 *	AA	C	6.13E+01 +	AA	C	7.21E+01 #	AA	C	7.76E-04	AA	C	4.11E-04	AA	C
DDT	2.64E-04	AA	C	5.95E+01	AA	C	1.88E+01	AA	C	9.39E+05 *	AA	C	1.43E+01	AA	C	3.04E+06 *	AA	C	6.40E+01 +	AA	C	1.95E+02 #	AA	C	4.14E-04	AA	C	2.42E-04	AA	C
DEF	6.27E-05	CH	NC	2.79E+01	CH	NC	2.35E+00	CH	NC	2.23E+05 *	CH	NC	2.16E+00	CH	NC	1.62E+06 *	CH	NC	1.03E+01 +	CH	NC	8.66E+02 #	CH	NC	1.82E-04	CH	NC	1.05E-04	CH	NC
Demeton	8.36E-05	CH	NC	1.12E+02	CH	NC	3.13E+01	CH	NC	2.16E+01	CH	NC	1.15E+01	CH	NC	1.55E+00	CH	NC	6.16E+00 +	CH	NC	9.49E-01	CH	NC	9.40E-02	CH	NC	5.74E-03	CH	NC
Diazinon	1.88E-03	CH	NC	2.51E+02 *	CH	NC	7.04E+01 *	CH	NC	6.68E+06 *	CH	NC	5.50E+01	CH	NC	6.29E+04 *	CH	NC	2.04E+02 +	CH	NC	4.47E+04 #	CH	NC	7.71E-02	CH	NC	1.13E-02	CH	NC
Dicamba	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03	CH	NC	2.23E+08 *	CH	NC	1.83E+03	CH	NC	1.79E+06 *	CH	NC	2.16E+02 +	CH	NC	2.44E+06 #	CH	NC	1.94E+01	CH	NC	4.54E-01	CH	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	2.09E-02	CH	NC	2.79E+03	CH	NC	7.82E+02	CH	NC	7.42E+07 *	CH	NC	6.11E+02	CH	NC	3.63E+06 *	CH	NC	2.81E+02 +	CH	NC	6.82E+05 #	CH	NC	3.13E+00	CH	NC	7.00E-02	M	M
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	1.67E-02	CH	NC	5.59E+03 *	CH	NC	6.26E+02 *	CH	NC	5.93E+07 *	CH	NC	5.63E+02 *	CH	NC	2.29E+06 *	CH	NC	6.66E+01 +	CH	NC	7.18E+05 #	CH	NC	5.12E-01	CH	NC	9.40E-02	CH	NC
Dichloroprop (2,4-DP)	2.09E-02	CH	NC	5.59E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.86E+02 *	CH	NC	3.10E+04 *	CH	NC	5.22E+02 +	CH	NC	5.88E+05 #	CH	NC	1.29E+00	CH	NC	1.34E-01	CH	NC
Dieldrin	5.59E-06	AA	C	1.26E+00	AA	C	3.99E-01	AA	C	3.49E+01 *	AA	C	3.01E-01	AA	C	3.10E+02 *	AA	C	1.49E+00 +	AA	C	2.44E+00 #	AA	C	1.46E-04	AA	C	2.94E-05	AA	C
Dimethoate	4.18E-04	CH	NC	5.59E+01	CH	NC	1.56E+01	CH	NC	1.48E+06 *	CH	NC	1.22E+01	CH	NC	3.09E+03	CH	NC	6.19E-02	CH	NC	1.46E+04	CH	NC	2.33E+00	CH	NC	3.12E-03	CH	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01 *	CH	NC	7.42E+06 *	CH	NC	6.11E+01 *	CH	NC	1.13E+04 *	CH	NC	2.64E+02	CH	NC	1.43E+04 #	CH	NC	7.18E-02	CH	NC	7.00E-03	M	M
Diquat	4.60E-03	CH	NC	6.15E+02	CH	NC	1.72E+02	CH	NC	1.63E+07 *	CH	NC	1.34E+02	CH	NC	1.30E+06 *	CH	NC	5.93E-03 +	CH	NC	1.02E+06 #	CH	NC	6.28E+03	CH	NC	2.00E-02	M	M
Disulfoton	8.36E-05	CH	NC	1.12E+01 *	CH	NC	3.13E+00 *	CH	NC	2.97E+05 *	CH	NC	2.44E+00 *	CH	NC	1.34E+00 *	CH	NC	3.49E+00 +	CH	NC	2.16E+01 #	CH	NC	2.75E-03	CH	NC	4.78E-04	CH	NC
Diuron	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02 *	CH	NC	1.48E+07 *	CH	NC	1.22E+02 *	CH	NC	5.42E+03 *	CH	NC	2.57E+02 +	CH	NC	2.36E+03 #	CH	NC	6.27E-01	CH	NC	2.93E-02	CH	NC
Endosulfan	1.25E-02	CH	NC	1.68E+03 *	CH	NC	4.69E+02 *	CH	NC	1.34E+04 *	CH	NC	3.57E+02 *	CH	NC	1.02E+05 *	CH	NC	3.63E+03 +	CH	NC	8.01E+03 #	CH	NC	1.19E+00 #	CH	NC	8.48E-02	CH	NC
Endothall	4.18E-02	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	8.46E+04 *	CH	NC	1.20E+03	CH	NC	2.24E+08 *	CH	NC	4.20E-02	CH	NC	2.83E+08 #	CH	NC	1.49E+01	CH	NC	1.00E-01	M	M
Endrin	6.27E-04	CH	NC	8.38E+01 *	CH	NC	2.35E+01 *	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	3.98E+04 *	CH	NC	1.66E+02 +	CH	NC	5.46E+02 #	CH	NC	1.65E-02	CH	NC	2.00E-03	M	M
Endrin aldehyde	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.11E+03 *	CH	NC	1.82E+01	CH	NC	5.06E+04 *	CH	NC	7.09E+01 +	CH	NC	4.10E+00 #	CH	NC	1.14E-03	CH	NC	7.13E-04	CH	NC
Endrin ketone	5.97E-05	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.12E+05 *	CH	NC	1.83E+01	CH	NC	1.76E+05 *	CH	NC	6.18E+00 +	CH	NC	1.71E+02 #	CH	NC	5.03E-03	CH	NC	2.07E-03	CH	NC
Eptam	5.22E-02	CH	NC	NA	--	--	1.96E+03 *	CH	NC	1.35E+04 *	CH	NC	1.71E+03 *	CH	NC	1.07E+03 *	CH	NC	3.28E+03 +	CH	NC	7.34E+02 #	CH	NC	3.43E+00	CH	NC	7.98E-02	CH	NC
Ethoprop	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	7.42E+05 *	CH	NC	6.11E+00	CH	NC	1.48E+04 *	CH	NC	1.36E+01 +	CH	NC	2.05E+03 #	CH	NC	1.64E-02	CH	NC	1.39E-03	CH	NC
Fenamiphos	5.22E-04	CH	NC	6.98E+01	CH	NC	1.96E+01	CH	NC	1.85E+06 *	CH	NC	1.53E+01	CH	NC	5.90E+04 *	CH	NC	1.44E+00	CH	NC	2.93E+04 #	CH	NC	NA	--	--	3.91E-03	CH	NC
Fenthion	1.46E-04	CH	NC	1.96E+01	CH	NC	5.48E+00	CH	NC	5.19E+05 *	CH	NC	4.28E+00	CH	NC	3.30E+03 *	CH	NC	1.06E+01 +	CH	NC	5.02E+02 #	CH	NC	1.67E-02	CH	NC	1.01E-03	CH	NC
Fluometuron	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	9.64E+07 *	CH	NC	7.94E+02 *	CH	NC	1.39E+06 *	CH	NC	9.28E+01	CH	NC	1.27E+06 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Fonofos	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02	CH	NC	1.48E+07 *	CH	NC	1.22E+02	CH	NC	2.92E+04 *	CH	NC	3.00E+02	CH	NC	1.37E+03 #	CH	NC	9.09E-02	CH	NC	2.13E-02	CH	NC
alpha-Hexachlorocyclohexane	1.42E-05	AA	C	3.21E+00	AA	C	1.01E+00	AA	C	2.39E+01 *	AA	C	7.47E-01	AA	C	5.69E+01 *	AA	C	3.33E+00 +	AA	C	7.76E+00 #	AA	C	2.90E-04	AA	C	6.88E-05	AA	C
beta-Hexachlorocyclohexane	4.85E-05	AA	C	1.12E+01 *	AA	C	3.55E+00 *	AA	C	1.72E+05 *	AA	C	2.70E+00 *	AA	C	2.38E+03 *	AA	C	9.51E+00 +	AA	C	3.16E+02 #	AA	C	9.84E-04	AA	C	2.38E-04	AA	C
delta-Hexachlorocyclohexane	5.03E-05	AA	C	1.12E+01	AA	C	3.55E+00	AA	C	1.78E+05 *	AA	C	2.70E+00	AA	C	4.99E+03 *	AA	C	3.43E+00 +	AA	C	1.97E+02 #	AA	C	1.46E-03	AA	C	2.70E-04	AA	C
gamma-Hexachlorocyclohexane	8.16E-05	AA	C	1.84E+01	AA	C	5.81E+00	AA	C	1.11E+02 *	AA	C	4.25E+00	AA	C	2.15E+02 *	AA	C	1.91E+01 +	AA	C	3.37E+01 #	AA	C	3.69E-03	AA	C	2.00E-04	M	M
Glyphosate	2.09E-01	CH	NC	2.79E+04	CH	NC	7.82E+03	CH	NC	2.11E+06 *	CH	NC	6.09E+03	CH	NC	2.73E+14 *	CH	NC	2.09E-01 +	CH	NC	1.25E+13 #	CH	NC	1.34E+04 #	CH	NC	7.00E-01	M	M
Guthion	3.13E-03	CH	NC	4.19E+02 *	CH	NC	1.17E+02 *	CH	NC	1.11E+07 *	CH	NC	9.17E+01 *	CH	NC	3.07E+05 *	CH	NC	1.73E-02 +	CH	NC	1.99E+05 #	CH	NC	1.10E+00 #	CH	NC	2.28E-02	CH	NC
Heptachlor	1.97E-05	AA	C	4.50E+00	AA	C	1.42E+00	AA	C	1.39E+01	CH	C	1.04E+00	AA	C	8.23E-01	AA	C	5.93E+00	AA	C	1.29E-04	AA	C	7.62E-04	AA	C	4.00E-04	M	M
Heptachlor epoxide	9.86E-06	AA	C	2.22E+00	AA	C	7.02E-01	AA	C	3.50E+04 *	AA	C	5.33E-01	AA	C	3.19E+03 *	AA	C	2.49E+00 +	AA	C	6.47E+00 #	AA	C	1.52E-04	AA	C	2.00E-04	M	M
Hexazinone	6.89E-02	CH	NC	9.22E+03 *	CH	NC	2.58E+03	CH	NC	2.45E+08 *	CH	NC	2.02E+03	CH	NC	2.15E+06 *	CH	NC	1.31E-01 +	CH	NC	7.84E+06 #	CH	NC	2.58E+01	CH	NC	5.03E-01	CH	NC
Malathion	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	1.48E+08 *	CH	NC	1.22E+03	CH	NC	2.22E+07 *	CH	NC	2.01E+03 +	CH	NC	2.07E+06 #	CH	NC	2.25E+01	CH	NC	3.07E-01	CH	NC
Maleic hydrazide	1.04E+00	CH	NC	1.40E+05 *	CH	NC	3.91E+04 *	CH	NC	1.07E+06 *	CH	NC	2.97E+04 *	CH	NC	8.09E+06 *	CH	NC	2.91E+01 +	CH	NC	2.71E+07 #	CH	NC	1.56E+04 #	CH	NC	7.82E+00	CH	NC
Maneb	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	3.71E+07 *	CH	NC	3.06E+02 *	CH	NC	2.66E+05 *	CH	NC	1.84E+03	CH	NC	8.05E+04 #	CH	NC	NA	--	--	7.82E-02	CH	NC
Methomyl	5.22E-02	CH	NC	6.98E+03	CH	NC	1.96E+03	CH	NC	3.89E+04 *	CH	NC	1.47E+03	CH	NC	2.05E+05 *	CH	NC	1.08E+01 +	CH	NC	1.45E+06 #	CH	NC	1.12E+02	CH	NC	3.89E-01	CH	NC
Methoxychlor	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	5.46E+04 *	CH	NC	3.04E+02 *	CH	NC	2.03E+06 *	CH	NC	2.24E+03 +	CH	NC	3.50E+03 #	CH	NC	4.05E-02	CH	NC	4.00E-02	M	M

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	1.04E-03	CH	NC	1.40E+02	CH	NC	3.91E+01	CH	NC	3.71E+06 *	CH	NC	3.06E+01	CH	NC	2.39E+04 *	CH	NC	2.22E+00 +	CH	NC	4.12E+04 #	CH	NC	4.24E-02	CH	NC	6.26E-03	CH	NC
MCPP	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01 *	CH	NC	7.42E+06 *	CH	NC	6.11E+01 *	CH	NC	3.00E+03 *	CH	NC	5.62E+01 +	CH	NC	5.70E+04 #	CH	NC	1.38E-01	CH	NC	1.36E-02	CH	NC
Metolachlor	3.13E-01	CH	NC	4.19E+04 *	CH	NC	1.17E+04 *	CH	NC	1.11E+09 *	CH	NC	9.17E+03 *	CH	NC	5.93E+07 *	CH	NC	5.13E+03 +	CH	NC	1.41E+07 #	CH	NC	4.75E+01	CH	NC	2.20E+00	CH	NC
Metribuzin	5.22E-02	CH	NC	6.98E+03 *	CH	NC	1.96E+03 *	CH	NC	1.85E+08 *	CH	NC	1.53E+03 *	CH	NC	1.93E+06 *	CH	NC	2.30E-01	CH	NC	3.13E+06 #	CH	NC	2.29E+02	CH	NC	3.90E-01	CH	NC
Mirex	4.98E-06	AA	C	1.12E+00	AA	C	3.55E-01	AA	C	3.50E+00	CH	C	2.59E-01	AA	C	7.59E-01	AA	C	4.79E-01 +	AA	C	2.38E-02	AA	C	NA	--	--	3.74E-05	AA	C
Naled	4.18E-03	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	1.48E+07 *	CH	NC	1.22E+02	CH	NC	1.21E+04 *	CH	NC	2.92E+02 +	CH	NC	1.44E+04 #	CH	NC	9.36E+00	CH	NC	3.11E-02	CH	NC
o,o,o-Triethylphosphorothioate	1.73E-05	CH	NC	NA	--	--	6.49E-01	CH	NC	4.49E+00	CH	NC	5.67E-01	CH	NC	1.60E-01	CH	NC	1.11E+00	CH	NC	5.58E-02	CH	NC	2.19E-03	CH	NC	2.69E-05	CH	NC
Oxamyl	5.22E-02	CH	NC	6.98E+03	CH	NC	1.96E+03	CH	NC	1.85E+08 *	CH	NC	1.53E+03	CH	NC	2.51E+05 *	CH	NC	2.41E+01 +	CH	NC	2.51E+06 #	CH	NC	2.58E+03	CH	NC	2.00E-01	M	M
Paraquat	9.40E-03	CH	NC	1.26E+03	CH	NC	3.52E+02	CH	NC	3.34E+07	CH	NC	2.75E+02	CH	NC	6.49E+07 *	CH	NC	2.86E+01 +	CH	NC	7.07E+05 #	CH	NC	9.03E+04	CH	NC	7.04E-02	CH	NC
ethyl-Parathion	1.25E-02	CH	NC	1.68E+03 *	CH	NC	4.69E+02 *	CH	NC	4.45E+07 *	CH	NC	3.67E+02	CH	NC	2.99E+06 *	CH	NC	2.11E+03 +	CH	NC	9.01E+04 #	CH	NC	4.85E-01	CH	NC	7.44E-02	CH	NC
methyl-Parathion	5.22E-04	CH	NC	6.98E+01	CH	NC	1.96E+01	CH	NC	1.85E+06 *	CH	NC	1.53E+01	CH	NC	1.26E+05 *	CH	NC	1.69E+01 +	CH	NC	4.18E+03 #	CH	NC	8.66E-02	CH	NC	3.69E-03	CH	NC
Pendimethalin	8.36E-02	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	2.97E+08 *	CH	NC	2.44E+03 *	CH	NC	2.29E+08 *	CH	NC	7.04E+03 +	CH	NC	2.03E+05 #	CH	NC	3.10E-01 #	CH	NC	1.67E-01	CH	NC
Phenylmercuric acetate	1.67E-04	CH	NC	2.23E+01	CH	NC	6.26E+00	CH	NC	5.93E+05 *	CH	NC	4.89E+00	CH	NC	2.56E+03 *	CH	NC	1.31E-01 +	CH	NC	5.71E+03 #	CH	NC	8.01E-01	CH	NC	1.25E-03	CH	NC
Phorate	4.18E-04	CH	NC	5.59E+01	CH	NC	1.56E+01	CH	NC	1.48E+06 *	CH	NC	1.22E+01	CH	NC	2.97E+02 *	CH	NC	1.75E+01	CH	NC	7.50E+01 #	CH	NC	2.63E-02	CH	NC	2.69E-03	CH	NC
Picloram	1.46E-01	CH	NC	1.96E+04 *	CH	NC	5.48E+03	CH	NC	3.78E+04 *	CH	NC	3.84E+03	CH	NC	1.80E+00	CH	NC	8.94E+03 +	CH	NC	7.19E-02	CH	NC	1.54E+01	CH	NC	9.99E-01	CH	NC
Prometon	3.13E-02	CH	NC	4.19E+03 *	CH	NC	1.17E+03	CH	NC	1.11E+08 *	CH	NC	9.17E+02	CH	NC	4.73E+06 *	CH	NC	1.20E+02 +	CH	NC	1.50E+06 #	CH	NC	3.27E+00	CH	NC	2.14E-01	CH	NC
Pronamide	1.57E-01	CH	NC	2.10E+04 *	CH	NC	5.87E+03 *	CH	NC	5.56E+08 *	CH	NC	4.58E+03 *	CH	NC	1.04E+05 *	CH	NC	6.48E+03 +	CH	NC	8.39E+04 #	CH	NC	7.00E+00	CH	NC	9.56E-01	CH	NC
Propachlor	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	9.64E+07 *	CH	NC	7.94E+02	CH	NC	3.26E+05 *	CH	NC	8.93E+02	CH	NC	2.02E+05 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Propanil	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02	CH	NC	3.71E+07 *	CH	NC	3.06E+02	CH	NC	2.14E+06 *	CH	NC	7.21E+01 +	CH	NC	3.96E+05 #	CH	NC	9.00E-01	CH	NC	7.00E-02	CH	NC
Propazine	1.99E-03	AA	C	4.50E+02 *	AA	C	1.42E+02 *	AA	C	7.08E+06 *	AA	C	1.08E+02 *	AA	C	8.45E+04 *	AA	C	1.62E+01 +	AA	C	8.71E+04 #	AA	C	1.21E-01	AA	C	1.26E-02	AA	C
Propham	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	5.40E+04 *	CH	NC	1.20E+03 *	CH	NC	4.94E+05 *	CH	NC	1.33E+03 +	CH	NC	8.52E+05 #	CH	NC	4.43E+00	CH	NC	2.86E-01	CH	NC
Silvex (2,4,5-TP)	1.67E-02	CH	NC	2.23E+03 *	CH	NC	6.26E+02 *	CH	NC	5.93E+07 *	CH	NC	4.89E+02 *	CH	NC	2.79E+05 *	CH	NC	2.67E+02 +	CH	NC	7.27E+05 #	CH	NC	7.02E-01	CH	NC	5.00E-02	M	M
Simazine	7.48E-04	AA	C	1.69E+02 *	AA	C	5.32E+01 *	AA	C	2.65E+06 *	AA	C	4.05E+01 *	AA	C	2.61E+04 *	AA	C	4.09E+00 +	AA	C	3.00E+04 #	AA	C	9.44E-02	AA	C	4.00E-03	M	M
Strychnine	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	1.19E+05 *	CH	NC	6.93E-04 +	CH	NC	2.24E+05 #	CH	NC	6.76E-01	CH	NC	4.65E-03	CH	NC
Tebuthiuron	1.46E-01	CH	NC	1.96E+04 *	CH	NC	5.48E+03 *	CH	NC	5.19E+08 *	CH	NC	4.28E+03 *	CH	NC	2.36E+06 *	CH	NC	4.88E-01 +	CH	NC	9.88E+06 #	CH	NC	8.15E+01	CH	NC	1.08E+00	CH	NC
Terbacil	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	9.64E+07 *	CH	NC	7.94E+02 *	CH	NC	3.38E+05 *	CH	NC	5.55E+00	CH	NC	1.14E+06 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Terbufos	5.22E-05	CH	NC	6.98E+00	CH	NC	1.96E+00	CH	NC	1.35E+01	CH	NC	1.37E+00	CH	NC	1.71E+01	CH	NC	4.19E+00	CH	NC	4.33E+00	CH	NC	1.15E-03	CH	NC	2.68E-04	CH	NC
Terbutryn	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01	CH	NC	7.42E+06 *	CH	NC	6.11E+01	CH	NC	4.71E+05 *	CH	NC	6.24E+01 +	CH	NC	4.86E+04 #	CH	NC	6.54E-02	CH	NC	1.18E-02	CH	NC
Toxaphene	8.01E-05	AA	C	1.84E+01	AA	C	5.81E+00	AA	C	2.84E+05 *	AA	C	4.41E+00	AA	C	1.43E+05 *	AA	C	2.28E+01 +	AA	C	9.40E+01 #	AA	C	1.72E-03	AA	C	3.00E-03	M	M
Triallate	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	1.14E+04 *	CH	NC	7.43E+02 *	CH	NC	3.39E+04 *	CH	NC	1.99E+03 +	CH	NC	2.55E+03 #	CH	NC	3.82E-01	CH	NC	1.18E-01	CH	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2.09E-02	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.11E+02 *	CH	NC	2.05E+05 *	CH	NC	2.00E+02 +	CH	NC	5.60E+05 #	CH	NC	1.47E+00	CH	NC	1.37E-01	CH	NC
Trifluralin	1.17E-02	AA	C	2.10E+03 *	CH	NC	5.87E+02	CH	NC	2.44E+04 *	CH	NC	4.50E+02	CH	NC	2.01E+05 *	AA	C	2.62E+03 +	AA	C	2.46E+03 #	AA	C	6.76E-02	AA	C	2.98E-02	AA	C
Warfarin	5.97E-05	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.12E+05 *	CH	NC	1.83E+01	CH	NC	2.00E+04 *	CH	NC	4.09E-01 +	CH	NC	3.65E+03 #	CH	NC	7.09E-02	CH	NC	4.31E-03	CH	NC
Metals																															
Aluminum	2.98E-03	CH	NC	2.79E+06	CH	NC	7.82E+04	CH	NC	1.06E+07	CH	NC	7.55E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	5.59E+03	CH	NC	1.56E+01	CH	NC
Antimony	2.98E-05	CH	NC	1.12E+03	CH	NC	3.13E+01	CH	NC	1.06E+05	CH	NC	3.04E+01	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+00	CH	NC	6.00E-03	M	M
Arsenic	5.98E-06	AA	C	4.50E+01	AA	C	4.26E+00	AA	C	2.12E+04	AA	C	3.89E+00	AA	C	NA	--	--	NA	--	--	NA	--	--	1.58E-01	AA	C	1.00E-02	M	M
Barium	2.92E-04	CH	NC	5.59E+05	CH	NC	1.56E+04	CH	NC	1.04E+06	CH	NC	1.50E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	1.12E+03	CH	NC	2.00E+00	M	M
Beryllium	1.07E-05	AA	C	2.41E+01	AA	C	7.60E-01	AA	C	3.79E+04	AA	C	7.37E-01	AA	C	NA	--	--	NA	--	--	NA	--	--	2.83E-02	AA	C	4.00E-03	M	M
Cadmium	1.42E-05	AA	C	5.32E+03	AA	C	1.68E+01	AA	C	5.06E+04	AA	C	1.68E+01	AA	C	NA	--	--	NA	--	--	NA	--	--	6.25E-01	AA	C	5.00E-03	M	M
Chromium (III) total chromium	6.06E-05	CH	NC	4.19E+06	CH	NC	1.17E+05	CH	NC	2.15E+05	CH	NC	7.46E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	8.38E+03	CH	NC	1.00E-01	M	M

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-2
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR			SURFICIAL SOIL												SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
Chromium (VI)	2.14E-06	AA	C	4.82E+00	AA	C	1.52E-01	AA	C	7.58E+03	AA	C	1.47E-01	AA	C	NA	--	--	NA	--	--	NA	--	--	2.83E-03	AA	C	3.37E-06	AA	C
Copper	5.97E-04	CH	NC	1.12E+05	CH	NC	3.13E+03	CH	NC	2.12E+06	CH	NC	3.04E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+02	CH	NC	6.24E-01	CH	NC
Lead	NA	--	--	NA	--	--	NA	--	--	NA	--	--	2.60E+02	--	--	2.60E+02	--	--	NA	--	--	NA	--	--	NA	--	--	1.50E-02	M	M
Manganese	2.99E-05	CH	NC	3.91E+05	CH	NC	1.10E+04	CH	NC	1.06E+05	CH	NC	9.68E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	7.82E+02	CH	NC	2.19E+00	CH	NC
Mercury	1.79E-04	CH	NC	NA	--	--	NA	--	--	4.63E+01 *	CH	NC	4.63E+01 *	CH	NC	2.19E+00 *	CH	NC	1.96E+01	CH	NC	5.07E-02 #	CH	NC	NA	--	--	NA	--	--
Molybdenum	2.98E-03	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	1.06E+07	CH	NC	3.80E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+01	CH	NC	7.80E-02	CH	NC
Nickel	5.37E-05	CH	NC	5.59E+04	CH	NC	1.56E+03	CH	NC	1.91E+05	CH	NC	1.51E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	5.59E+02	CH	NC	3.13E-01	CH	NC
Selenium	1.19E-04	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	4.23E+05	CH	NC	3.80E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+01	CH	NC	5.00E-02	M	M
Silver	5.97E-06	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	2.12E+04	CH	NC	3.74E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	4.66E+01	CH	NC	7.81E-02	CH	NC
Strontium	NA	--	--	1.68E+06	CH	NC	4.69E+04	CH	NC	NA	--	--	4.57E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.35E+03	CH	NC	9.37E+00	CH	NC
Thallium chloride	5.97E-05	CH	NC	2.23E+02	CH	NC	6.26E+00	CH	NC	2.12E+05 *	CH	NC	6.09E+00	CH	NC	NA	--	--	NA	--	--	NA	--	--	4.47E-01	CH	NC	1.25E-03	CH	NC
Vanadium	2.98E-05	CH	NC	1.96E+04	CH	NC	5.48E+02	CH	NC	1.06E+05	CH	NC	5.30E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.91E+01	CH	NC	1.09E-01	CH	NC
Zinc	NA	--	--	8.38E+05	CH	NC	2.35E+04	CH	NC	NA	--	--	2.28E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+03	CH	NC	4.69E+00	CH	NC
Inorganics																														
Ammonia	5.97E-02	CH	NC	NA	--	--	NA	--	--	1.55E+04	CH	NC	1.55E+04	CH	NC	4.25E+00	CH	NC	7.76E+02	CH	NC	5.84E+01	CH	NC	NA	--	--	1.19E-01	CH	NC
Cyanide	2.98E-03	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	1.06E+07 *	CH	NC	1.22E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	1.12E+02	CH	NC	3.12E-01	CH	NC
Cyanide (as Sodium Cyanide)	NA	--	--	1.12E+04	CH	NC	3.13E+03	CH	NC	NA	--	--	2.44E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+02	CH	NC	2.00E-01	M	M
Cyanogen bromide	1.88E-01	CH	NC	2.51E+04 *	CH	NC	7.04E+03 *	CH	NC	4.87E+04 *	CH	NC	4.94E+03 *	CH	NC	8.04E+00	CH	NC	6.59E+03	CH	NC	3.84E+01	CH	NC	5.03E+02	CH	NC	2.97E-01	CH	NC
Fluoride (as Sodium Fluoride)	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.00E+00	M	M
Perchlorate	NA	--	--	1.96E+02	CH	NC	5.48E+01	CH	NC	NA	--	--	4.28E+01	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.91E+00	CH	NC	1.09E-02	CH	NC
White phosphorus	5.97E-05	CH	NC	5.59E+00	CH	NC	1.56E+00	CH	NC	1.54E+01	CH	NC	1.13E+00	CH	NC	1.31E-01	CH	NC	1.08E+00	CH	NC	2.13E-02	CH	NC	1.12E-01	CH	NC	8.64E-05	CH	NC
Total Petroleum Hydrocarbons																														
TPH-GRO																														
Aliphatics - > C6-C8	1.11E+01	CH	NC	NA	--	--	3.91E+05 *	CH	NC	2.87E+06 *	CH	NC	3.44E+05 *	CH	NC	2.53E+02 *	CH	NC	3.72E+05 +	CH	NC	9.94E+00 #	CH	NC	NA	--	--	1.73E+01 #	CH	NC
Aliphatics - > C8-C10	6.06E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	7.45E+03 *	CH	NC	5.24E+01	CH	NC	2.04E+04	CH	NC	3.40E-01	CH	NC	NA	--	--	6.83E-01 #	CH	NC
Aromatics - >C8-C10	1.19E-01	CH	NC	NA	--	--	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.84E+03 *	CH	NC	8.03E+01	CH	NC	4.00E+03	CH	NC	1.05E+01	CH	NC	NA	--	--	1.72E-01	CH	NC
TPH-DRO																														
Aliphatics - >C10-C12	6.06E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	5.88E+03 *	CH	NC	2.60E+02 *	CH	NC	2.04E+04 +	CH	NC	2.27E-01 #	CH	NC	NA	--	--	6.83E-01 #	CH	NC
Aliphatics - >C12-C16	6.06E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	5.88E+03 *	CH	NC	1.18E+03 *	CH	NC	2.04E+04 +	CH	NC	5.23E-02 #	CH	NC	NA	--	--	1.56E+00 #	CH	NC
Aliphatics - >C16-C21	NA	--	--	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	NA	--	--	1.22E+05 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	3.13E+01 #	CH	NC
Aromatics - >C10-C12	1.19E-01	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.26E+03 *	CH	NC	4.33E+02 *	CH	NC	4.00E+03 +	CH	NC	3.34E+01 #	CH	NC	NA	--	--	1.72E-01	CH	NC
Aromatics - >C12-C16	1.19E-01	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.26E+03 *	CH	NC	2.28E+03 *	CH	NC	4.00E+03 +	CH	NC	8.29E+01 #	CH	NC	NA	--	--	1.72E-01	CH	NC
Aromatics - >C16-C21	NA	--	--	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	NA	--	--	1.72E+03 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.69E-01	CH	NC
TPH-ORO																														
Aliphatics - >C21-C35	NA	--	--	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	NA	--	--	1.22E+05 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	3.13E+01 #	CH	NC
Aromatics - >C21-C35	NA	--	--	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	NA	--	--	1.72E+03 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.69E-01 #	CH	NC

Vanadium

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
VOCs and SVOCs																															
Acenaphthene	1.25E-01	CH	NC	1.29E+04 *	CH	NC	4.69E+03 *	CH	NC	4.74E+04 *	CH	NC	3.21E+03 *	CH	NC	1.27E+05 *	CH	NC	1.89E+04 +	CH	NC	3.03E+03 #	CH	NC	1.35E+00	CH	NC	1.65E-01	CH	NC
Acenaphthylene	1.25E-01	CH	NC	NA	--	--	4.69E+03 *	CH	NC	5.31E+04 *	CH	NC	4.31E+03 *	CH	NC	1.59E+05 *	CH	NC	1.81E+04 +	CH	NC	3.89E+03 #	CH	NC	1.60E+00	CH	NC	1.70E-01	CH	NC
Acetone	1.88E+00	CH	NC	NA	--	--	7.04E+04	CH	NC	4.87E+05 *	CH	NC	6.15E+04	CH	NC	7.06E+03	CH	NC	9.59E+04	CH	NC	6.12E+04	CH	NC	6.66E+03	CH	NC	2.97E+00	CH	NC
Acetonitrile	3.58E-02	CH	NC	NA	--	--	1.33E+03	CH	NC	9.27E+03	CH	NC	1.16E+03	CH	NC	2.53E+02	CH	NC	1.73E+03	CH	NC	1.24E+03	CH	NC	1.26E+02	CH	NC	5.64E-02	CH	NC
Acrylamide	1.97E-05	AA	C	4.50E+00	AA	C	1.42E+00	AA	C	1.98E+01	CH	C	1.04E+00	AA	C	1.92E+01	AA	C	1.91E-03	AA	C	4.71E+01	AA	C	1.57E-01	AA	C	1.49E-04	AA	C
Acrylic acid	5.97E-04	CH	NC	1.40E+05 *	CH	NC	3.91E+04	CH	NC	1.54E+02	CH	NC	1.54E+02	CH	NC	1.70E+02	CH	NC	6.77E+00	CH	NC	1.43E+03	CH	NC	1.49E+03	CH	NC	7.77E+00	CH	NC
Acrylonitrile	3.77E-04	AA	C	NA	--	--	1.18E+01	AA	C	2.65E+02	CH	C	1.15E+01	AA	C	4.70E-01	AA	C	2.22E+01	AA	C	4.00E+00	AA	C	2.58E-01	AA	C	4.68E-04	AA	C
Allyl alcohol	1.04E-02	CH	NC	1.40E+03	CH	NC	3.91E+02	CH	NC	2.70E+03	CH	NC	2.74E+02	CH	NC	7.56E+02	CH	NC	5.33E+02	CH	NC	2.64E+03	CH	NC	1.99E+01	CH	NC	7.78E-02	CH	NC
Allyl chloride	5.97E-04	CH	NC	8.10E+01	CH	NC	2.27E+01	CH	NC	1.57E+02	CH	NC	1.59E+01	CH	NC	2.94E+02	CH	NC	2.22E+01	CH	NC	7.21E+02	CH	NC	1.92E-01	CH	NC	4.40E-03	CH	NC
Aniline	5.97E-04	CH	NC	1.96E+03	CH	NC	5.48E+02	CH	NC	1.55E+02	CH	NC	1.14E+02	CH	NC	1.10E+02	CH	NC	3.80E+01	CH	NC	6.63E+02	CH	NC	1.21E+01	CH	NC	1.08E-01	CH	NC
Anthracene	6.27E-01	CH	NC	6.45E+04 *	CH	NC	2.35E+04 *	CH	NC	2.56E+05 *	CH	NC	1.61E+04 *	CH	NC	7.42E+05 *	CH	NC	1.24E+05 +	CH	NC	4.29E+03 #	CH	NC	3.17E+00 #	CH	NC	6.96E-01 #	CH	NC
Aroclor 1016	1.46E-04	CH	NC	1.40E+01	CH	NC	5.48E+00	CH	NC	3.01E+02	CH	NC	3.88E+00	CH	NC	4.40E+03 *	CH	NC	4.85E+01 +	CH	NC	4.14E+00 #	CH	NC	3.24E-04	CH	NC	1.96E-04	CH	NC
Aroclor 1221	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.08E+01	CH	NC	1.02E+00	CH	NC	2.32E+00	CH	NC	9.38E+00	CH	NC	7.00E-02	CH	NC	2.39E-04	CH	NC	1.13E-04	AA	C
Aroclor 1242	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.24E+01	CH	NC	1.03E+00	CH	NC	2.59E+01 *	CH	NC	1.43E+01 +	CH	NC	6.95E-01 #	CH	NC	1.01E-04	CH	NC	5.93E-05	AA	C
Aroclor 1248	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	3.85E+01	CH	NC	1.09E+00	CH	NC	2.52E+02 *	CH	NC	1.71E+01 +	CH	NC	1.57E-01 #	CH	NC	5.50E-05	CH	NC	3.50E-05	AA	C
Aroclor 1254	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	6.26E+01	CH	NC	1.10E+00	CH	NC	6.64E+02 *	CH	NC	1.71E+01 +	CH	NC	2.16E-01 #	CH	NC	4.74E-05	CH	NC	3.06E-05	AA	C
Aroclor 1260	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.72E+02	CH	NC	1.12E+00	CH	NC	5.01E+03 *	CH	NC	2.30E+01 +	CH	NC	1.30E-01 #	CH	NC	5.24E-05	CH	NC	3.35E-05	AA	C
Azobenzene	8.27E-04	AA	C	NA	--	--	5.81E+01	AA	C	3.22E+03 *	AA	C	5.70E+01	AA	C	1.78E+04 *	AA	C	1.05E+02 +	AA	C	5.65E+01 #	AA	C	3.81E-03	AA	C	8.61E-04	AA	C
Benzene	4.98E-03	AA	C	NA	--	--	1.83E+02	AA	C	3.50E+03 *	CH	C	1.77E+02	AA	C	8.08E-01	AA	C	3.63E+02	AA	C	1.74E+00	AA	C	2.92E-01	AA	C	5.00E-03	M	M
Benzidine	3.83E-07	AA	C	8.80E-02	AA	C	2.78E-02	AA	C	1.45E+01	AA	C	2.11E-02	AA	C	1.05E+03	AA	C	1.60E-06	AA	C	1.01E+00	AA	C	3.17E-04	AA	C	2.88E-06	AA	C
Benzo(a)anthracene	2.30E-04	AA	C	2.13E+01	AA	C	8.75E+00	AA	C	8.17E+05 *	AA	C	6.20E+00	AA	C	3.95E+05 *	AA	C	2.26E+01 +	AA	C	1.67E+02 #	AA	C	1.74E-04	AA	C	1.03E-04	AA	C
Benzo(a)pyrene	2.30E-05	AA	C	2.13E+00	AA	C	8.75E-01	AA	C	8.17E+04 *	AA	C	6.20E-01	AA	C	2.30E+05 *	AA	C	1.74E+00 +	AA	C	3.81E+01 #	AA	C	1.02E-05	AA	C	2.00E-04	M	M
Benzo(b)fluoranthene	2.30E-04	AA	C	2.13E+01 *	AA	C	8.75E+00	AA	C	4.10E+03 *	AA	C	6.19E+00	AA	C	1.05E+05 *	AA	C	6.44E+01 +	AA	C	1.44E+01 #	AA	C	1.01E-04	AA	C	6.27E-05	AA	C
Benzo(g,h,i)perylene	6.27E-02	CH	NC	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	2.23E+08 *	CH	NC	1.72E+03 *	CH	NC	3.07E+08 *	CH	NC	1.89E+02 +	CH	NC	3.28E+04 #	CH	NC	3.79E-02 #	CH	NC	2.64E-02 #	CH	NC
Benzo(k)fluoranthene	2.30E-04	AA	C	2.13E+02 *	AA	C	8.75E+01 *	AA	C	8.17E+05 *	AA	C	6.20E+01 *	AA	C	5.55E+06 *	AA	C	2.56E+01 +	AA	C	7.62E+02 #	AA	C	1.04E-03 #	AA	C	6.46E-04	AA	C
Benzoic acid	8.36E+00	CH	NC	1.12E+06 *	CH	NC	3.13E+05 *	CH	NC	2.16E+06 *	CH	NC	2.20E+05 *	CH	NC	1.23E+06 *	CH	NC	6.63E+05 +	CH	NC	1.06E+07 #	CH	NC	1.98E+03	CH	NC	6.00E+01	CH	NC
Benzyl alcohol	6.27E-01	CH	NC	8.38E+04 *	CH	NC	2.35E+04 *	CH	NC	1.62E+05 *	CH	NC	1.65E+04 *	CH	NC	2.47E+05 *	CH	NC	2.16E+04 +	CH	NC	1.35E+06 #	CH	NC	4.59E+02	CH	NC	4.63E+00	CH	NC
1,1-Biphenyl	1.04E-01	CH	NC	NA	--	--	3.91E+03 *	CH	NC	2.70E+04 *	CH	NC	3.42E+03 *	CH	NC	8.41E+03 *	CH	NC	1.65E+04	CH	NC	1.01E+03 #	CH	NC	1.78E+00	CH	NC	1.46E-01	CH	NC
Bis(2-chloroethyl)ether	7.77E-05	AA	C	NA	--	--	5.81E+00	AA	C	5.46E+01	CH	C	5.49E+00	AA	C	1.95E+00	AA	C	6.99E+00	AA	C	9.60E+00	AA	C	5.28E-02	AA	C	1.23E-04	AA	C
Bis(2-chloroisopropyl)ether	2.56E-03	AA	C	NA	--	--	9.13E+01	AA	C	1.80E+03 *	CH	C	8.88E+01	AA	C	2.57E+01	AA	C	2.59E+02	AA	C	5.74E+01	AA	C	1.45E-01	AA	C	3.23E-03	AA	C
Bis(chloromethyl)ether	4.13E-07	AA	C	NA	--	--	2.90E-02	AA	C	2.91E-01	CH	C	2.75E-02	AA	C	4.30E-04	AA	C	2.98E-02	AA	C	3.60E-03	AA	C	6.65E-04	AA	C	6.50E-07	AA	C
Bis(2-ethylhexyl)phthalate	6.41E-03	AA	C	1.45E+03	AA	C	4.56E+02	AA	C	2.28E+07 *	AA	C	3.47E+02	AA	C	3.99E+09 *	AA	C	1.84E+02 +	AA	C	4.47E+04 #	AA	C	7.52E-02	AA	C	6.00E-03	M	M
Bromochloromethane	2.98E-02	CH	NC	NA	--	--	3.13E+03	CH	NC	7.72E+03 *	CH	NC	2.23E+03	CH	NC	1.53E+01	CH	NC	1.98E+03	CH	NC	5.57E+01	CH	NC	4.87E+01	CH	NC	5.44E-02	CH	NC
Bromodichloromethane	6.93E-04	AA	C	NA	--	--	1.03E+02	AA	C	4.87E+02	CH	C	9.24E+01	AA	C	1.03E+00	AA	C	1.49E+02	AA	C	2.33E+00	AA	C	3.21E-01	AA	C	8.00E-02	M	M
Bromoform	2.33E-02	AA	C	2.56E+03 *	AA	C	8.09E+02	AA	C	1.08E+04 *	CH	NC	6.02E+02	AA	C	2.90E+02	AA	C	9.95E+03	AA	C	4.61E+02	AA	C	2.96E+00	AA	C	8.00E-02	M	M
Bromomethane	2.98E-03	CH	NC	NA	--	--	1.10E+02	CH	NC	7.72E+02	CH	NC	9.59E+01	CH	NC	2.16E-01	CH	NC	2.62E+02	CH	NC	1.09E+00	CH	NC	1.62E+00	CH	NC	4.67E-03	CH	NC
4-Bromophenyl phenyl ether	7.77E-06	AA	C	1.35E+00	AA	C	4.26E-01	AA	C	1.10E+01	AA	C	3.14E-01	AA	C	2.22E+01	AA	C	1.04E+00	AA	C	2.21E-01	AA	C	2.11E-05	AA	C	1.07E-05	AA	C
n-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	2.25E+02	CH	NC	7.13E+03 +	CH	NC	1.48E+01 #	CH	NC	5.36E-01	CH	NC	9.89E-02	CH	NC
sec-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	1.25E+02	CH	NC	7.13E+03	CH	NC	1.05E+01	CH	NC	7.27E-01	CH	NC	1.06E-01	CH	NC
tert-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	1.91E+02	CH	NC	7.13E+03	CH	NC	1.60E+01	CH	NC	6.34E-01	CH	NC	1.03E-01	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
Butyl benzyl phthalate	4.18E-01	CH	NC	5.59E+04 *	CH	NC	1.56E+04 *	CH	NC	1.48E+09 *	CH	NC	1.22E+04 *	CH	NC	4.77E+08 *	CH	NC	7.15E+04 +	CH	NC	1.40E+06 #	CH	NC	4.19E+00 #	CH	NC	1.55E+00	CH	NC
Carbazole	4.49E-03	AA	C	1.01E+03 *	AA	C	3.19E+02 *	AA	C	3.48E+04 *	AA	C	2.41E+02 *	AA	C	3.84E+05 *	AA	C	1.18E+01 +	AA	C	1.90E+04 #	AA	C	1.83E-01	AA	C	2.64E-02	AA	C
Carbon disulfide	4.18E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.08E+05 *	CH	NC	7.29E+03 *	CH	NC	1.27E+01	CH	NC	2.57E+04	CH	NC	2.36E+01	CH	NC	2.08E+01	CH	NC	5.27E-01	CH	NC
Carbon tetrachloride	1.71E-03	AA	C	NA	--	--	4.91E+01	AA	C	1.20E+03 *	CH	C	4.81E+01	AA	C	1.56E-01	AA	C	1.40E+02	AA	C	1.28E-01	AA	C	4.69E-02	AA	C	5.00E-03	M	M
p-Chloroaniline	8.36E-03	CH	NC	1.12E+03	CH	NC	3.13E+02	CH	NC	3.38E+03 *	CH	NC	2.28E+02	CH	NC	9.68E+03 *	CH	NC	2.58E+02 +	CH	NC	1.92E+04 #	CH	NC	2.62E+00	CH	NC	6.06E-02	CH	NC
Chlorobenzene	3.55E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	9.19E+03 *	CH	NC	1.34E+03 *	CH	NC	2.99E+01	CH	NC	3.11E+03	CH	NC	2.21E+01	CH	NC	2.14E+00	CH	NC	5.58E-02	CH	NC
Chloroethane	3.09E-02	AA	C	NA	--	--	2.20E+03 *	AA	C	2.17E+04 *	CH	C	2.09E+03 *	AA	C	1.25E+00	AA	C	1.98E+03	AA	C	4.90E+00	AA	C	9.07E+00	AA	C	4.85E-02	AA	C
Chloroform	1.11E-03	AA	C	NA	--	--	2.06E+02	AA	C	7.83E+02	CH	C	1.80E+02	AA	C	1.72E-01	AA	C	6.86E+01	AA	C	4.91E-01	AA	C	5.78E-01	AA	C	8.00E-02	M	M
Chloromethane	1.42E-02	AA	C	NA	--	--	4.91E+02	AA	C	1.00E+04 *	CH	C	4.79E+02	AA	C	4.23E-01	AA	C	8.29E+02	AA	C	9.65E-01	AA	C	3.94E+00	AA	C	1.83E-02	AA	C
2-Chloronaphthalene	1.67E-01	CH	NC	NA	--	--	6.26E+03 *	CH	NC	4.32E+04 *	CH	NC	5.47E+03 *	CH	NC	3.18E+04 *	CH	NC	4.26E+04 +	CH	NC	3.33E+03 #	CH	NC	2.71E+00	CH	NC	2.33E-01	CH	NC
2-Chlorophenol	1.04E-02	CH	NC	NA	--	--	3.91E+02	CH	NC	2.70E+03	CH	NC	3.42E+02	CH	NC	2.04E+02	CH	NC	1.33E+03	CH	NC	8.50E+01	CH	NC	1.69E+00	CH	NC	1.63E-02	CH	NC
4-Chlorophenyl phenyl ether	7.77E-06	AA	C	1.35E+00	AA	C	4.26E-01	AA	C	7.05E+00	CH	C	3.14E-01	AA	C	6.15E+00	AA	C	1.02E+00	AA	C	7.98E-02	AA	C	2.07E-05	AA	C	1.06E-05	AA	C
2-Chlorotoluene	4.18E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	1.08E+04 *	CH	NC	1.37E+03 *	CH	NC	7.30E+01	CH	NC	3.82E+03 +	CH	NC	3.04E+01	CH	NC	1.38E+00	CH	NC	6.19E-02	CH	NC
4-Chlorotoluene	1.55E-04	CH	NC	NA	--	--	1.56E+03 *	CH	NC	4.02E+01	CH	NC	3.92E+01	CH	NC	3.43E-01	CH	NC	1.47E+01	CH	NC	1.18E-01	CH	NC	1.17E+00	CH	NC	3.10E-04	CH	NC
Chrysene	2.30E-03	AA	C	2.13E+03 *	AA	C	8.75E+02 *	AA	C	2.41E+04 *	AA	C	6.05E+02 *	AA	C	3.61E+05 *	AA	C	5.86E+02 +	AA	C	1.53E+02 #	AA	C	1.74E-02 #	AA	C	1.03E-02 #	AA	C
Dibenzo(a,h)anthracene	2.19E-05	AA	C	2.13E+00	AA	C	8.75E-01	AA	C	7.77E+04 *	AA	C	6.20E-01	AA	C	2.85E+06 *	AA	C	7.53E-02 +	AA	C	1.27E+02 #	AA	C	6.60E-06	AA	C	4.21E-06	AA	C
Dibenzofuran	4.18E-03	CH	NC	NA	--	--	1.56E+02	CH	NC	1.18E+03 *	CH	NC	1.38E+02	CH	NC	2.37E+03 *	CH	NC	4.43E+02 +	CH	NC	5.17E+01 #	CH	NC	5.47E-02	CH	NC	5.67E-03	CH	NC
Dibromochloromethane	9.49E-04	AA	C	2.41E+02	AA	C	7.60E+01	AA	C	6.67E+02	CH	C	5.52E+01	AA	C	4.79E+00	AA	C	3.09E+02	AA	C	9.81E+00	AA	C	2.55E-01	AA	C	8.00E-02	M	M
1,2-Dibromo-3-chloropropane	6.41E-05	AA	C	1.45E+01	AA	C	4.46E+00	CH	NC	4.86E+01	CH	NC	3.25E+00	CH	NC	7.52E+01	AA	C	1.60E+03	AA	C	2.70E+02	AA	C	9.82E-03	AA	C	2.00E-04	M	M
Dibutyl phthalate	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	7.42E+08 *	CH	NC	6.11E+03 *	CH	NC	1.63E+08 *	CH	NC	3.07E+01 +	CH	NC	8.10E+05 #	CH	NC	4.76E+00	CH	NC	1.08E+00	CH	NC
1,2-Dichlorobenzene	1.19E-01	CH	NC	NA	--	--	7.04E+03 *	CH	NC	3.08E+04 *	CH	NC	5.73E+03 *	CH	NC	5.43E+02	CH	NC	1.10E+04 +	CH	NC	1.50E+02	CH	NC	5.26E+00	CH	NC	6.00E-01	M	M
1,3-Dichlorobenzene	6.27E-02	CH	NC	NA	--	--	2.35E+03 *	CH	NC	1.62E+04 *	CH	NC	2.05E+03 *	CH	NC	2.87E+02	CH	NC	5.81E+03	CH	NC	7.88E+01	CH	NC	1.24E+00	CH	NC	8.93E-02	CH	NC
1,4-Dichlorobenzene	4.08E-03	AA	C	NA	--	--	1.18E+03 *	AA	C	2.87E+03 *	CH	C	9.66E+02 *	AA	C	1.46E+01	AA	C	3.78E+02	AA	C	4.04E+00	AA	C	4.49E-01	AA	C	7.50E-02	M	M
3,3-Dichlorobenzidine	7.48E-05	AA	C	4.50E+01 *	AA	C	1.42E+01 *	AA	C	2.65E+05 *	AA	C	1.08E+01	AA	C	1.48E+03 *	AA	C	5.43E-02 +	AA	C	3.36E+02 #	AA	C	8.78E-03	AA	C	1.19E-03	AA	C
Dichlorodifluoromethane	1.19E-01	CH	NC	NA	--	--	1.56E+04 *	CH	NC	3.08E+04 *	CH	NC	1.04E+04 *	CH	NC	2.79E+00	CH	NC	9.53E+03	CH	NC	2.66E+00	CH	NC	6.31E+01	CH	NC	2.20E-01	CH	NC
1,1-Dichloroethane	1.60E-02	AA	C	NA	--	--	1.12E+03	AA	C	7.57E+03 *	CH	NC	1.06E+03	AA	C	2.09E+00	AA	C	1.39E+03	AA	C	6.53E+00	AA	C	3.53E+00	AA	C	2.49E-02	AA	C
1,1-Dichloroethylene	1.19E-01	CH	NC	NA	--	--	3.91E+03 *	CH	NC	3.09E+04 *	CH	NC	3.47E+03 *	CH	NC	5.23E+00	CH	NC	8.49E+03	CH	NC	8.99E+00	CH	NC	1.34E+01	CH	NC	7.00E-03	M	M
cis-1,2-Dichloroethylene	2.09E-02	CH	NC	NA	--	--	7.82E+02	CH	NC	5.41E+03 *	CH	NC	6.83E+02	CH	NC	3.87E+00	CH	NC	1.82E+03	CH	NC	1.16E+01	CH	NC	4.22E+00	CH	NC	7.00E-02	M	M
trans-1,2-Dichloroethylene	4.18E-02	CH	NC	NA	--	--	1.56E+03	CH	NC	1.08E+04 *	CH	NC	1.37E+03	CH	NC	4.89E+00	CH	NC	3.78E+03	CH	NC	1.08E+01	CH	NC	6.14E+00	CH	NC	1.00E-01	M	M
2,4-Dichlorophenol	6.27E-03	CH	NC	8.38E+02	CH	NC	2.35E+02	CH	NC	2.36E+03	CH	NC	1.70E+02	CH	NC	6.28E+03 *	CH	NC	8.17E+02 +	CH	NC	6.39E+03 #	CH	NC	3.09E-01	CH	NC	3.89E-02	CH	NC
1,2-Dichloropropane	2.39E-03	CH	NC	NA	--	--	8.60E+01	CH	NC	6.18E+02	CH	NC	7.55E+01	CH	NC	6.74E-01	CH	NC	1.95E+02	CH	NC	1.82E+00	CH	NC	4.21E-01	CH	NC	5.00E-03	M	M
1,3-Dichloropropene	6.41E-03	AA	C	NA	--	--	6.39E+01	AA	C	3.09E+03 *	CH	NC	6.34E+01	AA	C	4.68E-01	AA	C	6.55E+02	AA	C	1.01E+00	AA	C	2.99E-01	AA	C	4.31E-03	AA	C
Di(2-ethylhexyl)adipate	7.48E-02	AA	C	1.69E+04 *	AA	C	5.32E+03 *	AA	C	5.26E+04 *	CH	C	3.88E+03 *	AA	C	3.13E+04 *	AA	C	1.34E+04 +	AA	C	1.56E+01 #	AA	C	6.69E-01 #	AA	C	4.00E-01 #	M	M
Diethyl phthalate	1.67E+00	CH	NC	2.23E+05 *	CH	NC	6.26E+04 *	CH	NC	5.93E+09 *	CH	NC	4.89E+04 *	CH	NC	1.07E+07 *	CH	NC	1.08E+05 +	CH	NC	5.92E+06 #	CH	NC	3.03E+02	CH	NC	1.19E+01	CH	NC
Diisopropyl ether (DIPE)	2.30E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	5.95E+04 *	CH	NC	6.91E+03 *	CH	NC	7.03E+01	CH	NC	2.16E+04	CH	NC	1.44E+02	CH	NC	3.48E+01	CH	NC	3.51E-01	CH	NC
2,4-Dimethylphenol	4.18E-02	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	1.80E+04 *	CH	NC	1.14E+03	CH	NC	5.50E+04 *	CH	NC	3.30E+03 +	CH	NC	4.08E+04 #	CH	NC	5.12E+00	CH	NC	2.89E-01	CH	NC
2,6-Dimethylphenol	1.25E-03	CH	NC	1.68E+02	CH	NC	4.69E+01	CH	NC	8.81E+02	CH	NC	3.52E+01	CH	NC	4.38E+03	CH	NC	1.23E+02	CH	NC	4.57E+02	CH	NC	NA	--	--	9.39E-03	CH	NC
Dimethyl phthalate	2.09E+01	CH	NC	2.79E+06 *	CH	NC	7.82E+05 *	CH	NC	9.36E+06 *	CH	NC	5.74E+05 *	CH	NC	2.96E+07 *	CH	NC	3.61E+05 +	CH	NC	8.50E+07 #	CH	NC	1.26E+04 #	CH	NC	1.54E+02	CH	NC
1,3-Dinitrobenzene	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	7.07E+01 *	CH	NC	5.62E+00	CH	NC	1.69E+02 *	CH	NC	3.46E+00 +	CH	NC	2.29E+02 #	CH	NC	9.96E-02	CH	NC	1.53E-03	CH	NC
2,4-Dinitrophenol	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02	CH	NC	1.08E+03 *	CH	NC	1.10E+02	CH	NC	1.24E+03 *	CH	NC	1.99E+02 +	CH	NC	1.11E+04 #	CH	NC	2.52E+00	CH	NC	3.08E-02	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL												SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AAA	C/NC	Dermal Contact	CH/AAA	C/NC	Ingestion	CH/AAA	C/NC	Inhalation	CH/AAA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AAA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AAA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AAA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AAA	C/NC	Dermal Contact	CH/AAA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
2,4-Dinitrotoluene	2.89E-04	AA	C	6.53E+01	AA	C	2.06E+01	AA	C	3.74E+02 *	AA	C	1.50E+01	AA	C	5.57E+02 *	AA	C	3.08E+00 +	AA	C	8.23E+02 #	AA	C	8.45E-02	AA	C	2.09E-03	AA	C
2,6-Dinitrotoluene	1.32E-04	AA	C	2.98E+01	AA	C	9.39E+00	AA	C	1.55E+02 *	CH	C	6.85E+00	AA	C	1.75E+02 *	AA	C	1.01E+01 +	AA	C	3.35E+02 #	AA	C	5.69E-02	AA	C	9.64E-04	AA	C
4-Amino-2,6-dinitrotoluene	5.97E-05	CH	NC	4.75E+01	CH	NC	1.33E+01	CH	NC	6.85E+01	CH	NC	9.02E+00	CH	NC	5.56E+02 *	CH	NC	4.23E-02 +	CH	NC	2.46E+02 #	CH	NC	4.58E-02	CH	NC	2.47E-03	CH	NC
2-Amino-4,6-dinitrotoluene	5.97E-05	CH	NC	4.75E+01	CH	NC	1.33E+01	CH	NC	8.46E+01 *	CH	NC	9.25E+00	CH	NC	8.50E+02 *	CH	NC	2.90E-02 +	CH	NC	2.47E+02 #	CH	NC	3.49E-02	CH	NC	2.41E-03	CH	NC
Di-n-octylphthalate	8.36E-02	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	4.65E+04 *	CH	NC	2.32E+03 *	CH	NC	1.83E+05 *	CH	NC	3.48E+04 +	CH	NC	1.29E+04 #	CH	NC	4.37E-01 #	CH	NC	2.13E-01 #	CH	NC
1,4-Dioxane	3.33E-03	AA	C	1.84E+03	AA	C	5.81E+02	AA	C	2.34E+03	CH	C	4.00E+02	AA	C	9.68E+01	AA	C	8.85E+01	AA	C	4.56E+02	AA	C	3.93E+01	AA	C	6.10E-02	AA	C
Diphenylamine	5.97E-03	CH	NC	6.98E+03 *	CH	NC	1.96E+03 *	CH	NC	3.49E+03 *	CH	NC	1.06E+03 *	CH	NC	1.45E+04 *	CH	NC	5.42E+02 +	CH	NC	3.95E+03 #	CH	NC	2.01E+00	CH	NC	3.09E-01	CH	NC
1,2-Diphenylhydrazine	1.16E-04	AA	C	2.53E+01	AA	C	7.98E+00	AA	C	4.51E+02	AA	C	5.99E+00	AA	C	2.48E+03	AA	C	8.62E-02	AA	C	6.15E+02	AA	C	7.70E-03	AA	C	7.22E-04	AA	C
Ethanol	1.13E+00	CH	NC	NA	--	--	2.58E+06 *	CH	NC	2.92E+05 *	CH	NC	2.62E+05 *	CH	NC	2.53E+04	CH	NC	5.80E+04	CH	NC	2.12E+05	CH	NC	2.48E+05	CH	NC	5.15E+02	CH	NC
Ethylbenzene	6.06E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	7.45E+03 *	CH	NC	3.76E+02	CH	NC	5.17E+04	CH	NC	1.77E+02 #	CH	NC	6.34E+00	CH	NC	7.00E-01	M	M
Ethylene dibromide (EDB)	4.27E-05	AA	C	NA	--	--	3.19E+00	AA	C	3.00E+01	CH	C	3.02E+00	AA	C	1.88E-01	AA	C	1.25E+01	AA	C	4.35E-01	AA	C	1.41E-02	AA	C	5.00E-05	M	M
Ethylene dichloride (EDC)	9.86E-04	AA	C	NA	--	--	7.02E+01	AA	C	6.93E+02	CH	C	6.65E+01	AA	C	3.40E-01	AA	C	6.07E+01	AA	C	1.58E+00	AA	C	3.53E-01	AA	C	5.00E-03	M	M
Ethylene glycol	2.38E-01	CH	NC	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	6.16E+04	CH	NC	4.10E+04	CH	NC	7.27E+04	CH	NC	1.30E+03 +	CH	NC	5.37E+05	CH	NC	6.62E+04	CH	NC	3.13E+01	CH	NC
Ethylene thiourea	1.67E-04	CH	NC	2.23E+01	CH	NC	6.26E+00	CH	NC	4.48E+01	CH	NC	4.41E+00	CH	NC	8.71E+01	CH	NC	6.35E-03	CH	NC	5.09E+02	CH	NC	1.51E+00	CH	NC	1.25E-03	CH	NC
Ethyl-tert-butyl-ether (ETBE)	1.80E-01	CH	NC	NA	--	--	7.82E+01	CH	NC	4.65E+04 *	CH	NC	7.81E+01	CH	NC	5.87E+01	CH	NC	1.65E+04	CH	NC	1.77E+02	CH	NC	5.00E-01	CH	NC	1.44E-02	CH	NC
Fluoranthene	8.36E-02	CH	NC	8.59E+03 *	CH	NC	3.13E+03 *	CH	NC	4.36E+05 *	CH	NC	2.28E+03 *	CH	NC	1.61E+07 *	CH	NC	1.66E+04 +	CH	NC	2.55E+04 #	CH	NC	3.00E-01 #	CH	NC	1.64E-01	CH	NC
Fluorene	8.36E-02	CH	NC	8.59E+03 *	CH	NC	3.13E+03 *	CH	NC	7.37E+04 *	CH	NC	2.22E+03 *	CH	NC	4.60E+05 *	CH	NC	1.45E+04 +	CH	NC	5.63E+03 #	CH	NC	6.27E-01	CH	NC	1.03E-01	CH	NC
Formaldehyde	1.79E-03	CH	NC	4.45E+02	AA	C	1.41E+02	AA	C	4.63E+02	CH	NC	1.03E+02	AA	C	2.14E+02	CH	NC	2.34E+01	CH	NC	1.72E+03	CH	NC	2.21E+00	AA	C	1.47E-02	AA	C
n-Hexane	4.18E-01	CH	NC	NA	--	--	8.60E+05 *	CH	NC	1.08E+05 *	CH	NC	9.61E+04 *	CH	NC	3.40E+00	CH	NC	1.34E+04	CH	NC	2.09E-01	CH	NC	4.99E+02 #	CH	NC	8.30E-01	CH	NC
Hexachlorobenzene	5.59E-05	AA	C	1.26E+01	AA	C	3.99E+00	AA	C	4.84E+01	CH	C	2.91E+00	AA	C	4.03E+01	AA	C	6.60E+00 +	AA	C	1.28E-01	AA	C	2.23E-04	AA	C	1.00E-03	M	M
Hexachlorobutadiene	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	1.62E+02	CH	NC	1.65E+01	CH	NC	6.90E+01	CH	NC	7.15E+01	CH	NC	2.37E-01	CH	NC	4.73E-03	CH	NC	2.00E-03	CH	NC
Hexachlorocyclopentadiene	1.19E-04	CH	NC	1.68E+03	CH	NC	4.69E+02	CH	NC	3.09E+01	CH	NC	2.85E+01	CH	NC	5.14E+01	CH	NC	4.74E+01	CH	NC	4.71E-02	CH	NC	1.28E-01	CH	NC	5.00E-02	M	M
Hexachloroethane	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	5.41E+02	CH	NC	5.49E+01	CH	NC	3.62E+02	CH	NC	5.33E+03	CH	NC	3.40E+01	CH	NC	4.48E-02	CH	NC	1.06E-02	CH	NC
Hexachlorophene	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	9.10E+05 *	CH	NC	6.79E-04 +	CH	NC	3.03E+04 #	CH	NC	8.78E-04	CH	NC	5.70E-04	CH	NC
HMX	1.61E-03	CH	NC	1.40E+04 *	CH	NC	3.91E+03 *	CH	NC	5.72E+06 *	CH	NC	3.05E+03 *	CH	NC	2.56E+03 *	CH	NC	2.71E-01 +	CH	NC	7.74E+03 #	CH	NC	1.02E+04 #	CH	NC	7.82E-01	CH	NC
Indeno(1,2,3-cd)pyrene	2.30E-04	AA	C	1.30E+01 *	AA	C	5.32E+00 *	AA	C	8.17E+05 *	AA	C	3.77E+00 *	AA	C	1.25E+07 *	AA	C	3.93E+01 +	AA	C	6.07E+02 #	AA	C	6.14E-05 #	AA	C	3.82E-05 #	AA	C
Isophorone	9.44E-02	AA	C	2.13E+04 *	AA	C	6.72E+03 *	AA	C	6.64E+04 *	CH	C	4.91E+03 *	AA	C	1.29E+04 *	AA	C	8.94E+03 +	AA	C	3.33E+04 #	AA	C	3.34E+01	AA	C	6.86E-01	AA	C
Isopropylbenzene (Cumene)	2.39E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	6.18E+04 *	CH	NC	6.94E+03 *	CH	NC	1.99E+01	CH	NC	2.04E+04	CH	NC	6.56E+00	CH	NC	4.51E+00	CH	NC	3.30E-01	CH	NC
4-Isopropyltoluene	6.27E-01	CH	NC	NA	--	--	2.35E+04 *	CH	NC	1.62E+05 *	CH	NC	2.05E+04 *	CH	NC	2.10E+03 *	CH	NC	7.01E+04 +	CH	NC	1.68E+02 #	CH	NC	5.19E+00	CH	NC	7.86E-01	CH	NC
Maleic anhydride	4.18E-04	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.08E+02	CH	NC	1.06E+02	CH	NC	4.05E+01	CH	NC	2.44E+01 +	CH	NC	1.53E+02	CH	NC	6.12E+01	CH	NC	1.51E+00	CH	NC
Methanol	2.30E+00	CH	NC	NA	--	--	3.91E+04	CH	NC	5.95E+05 *	CH	NC	3.67E+04	CH	NC	7.80E+04	CH	NC	8.72E+04	CH	NC	4.73E+05	CH	NC	6.63E+03	CH	NC	7.81E+00	CH	NC
Methyl butyl ketone	2.39E-03	CH	NC	NA	--	--	4.69E+03 *	CH	NC	6.18E+02	CH	NC	5.46E+02	CH	NC	1.43E+01	CH	NC	2.18E+02	CH	NC	6.55E+01	CH	NC	4.59E+01	CH	NC	4.75E-03	CH	NC
Methyl ethyl ketone	2.98E+00	CH	NC	NA	--	--	4.69E+04 *	CH	NC	7.72E+05 *	CH	NC	4.42E+04 *	CH	NC	1.28E+04	CH	NC	2.11E+05	CH	NC	9.20E+04	CH	NC	2.27E+03	CH	NC	3.64E+00	CH	NC
2-Methyl-4,6-dinitrophenol	1.79E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	4.63E+01	CH	NC	5.40E+00	CH	NC	8.35E+01	CH	NC	7.86E-02	CH	NC	7.45E+02	CH	NC	5.56E-02	CH	NC	1.51E-03	CH	NC
Methylene chloride	5.45E-02	AA	C	NA	--	--	8.52E+02	AA	C	3.83E+04 *	CH	C	8.42E+02	AA	C	7.69E+00	AA	C	3.46E+03	AA	C	4.08E+01	AA	C	5.54E+00	AA	C	5.00E-03	M	M
Methyl iodide	7.16E-03	CH	NC	NA	--	--	1.10E+02	CH	NC	1.85E+03	CH	NC	1.03E+02	CH	NC	2.29E+00	CH	NC	4.50E+02	CH	NC	2.27E+00	CH	NC	1.39E+00	CH	NC	8.59E-03	CH	NC
Methyl isobutyl ketone	1.79E+00	CH	NC	NA	--	--	6.26E+03	CH	NC	4.63E+05 *	CH	NC	6.17E+03	CH	NC	2.47E+04 *	CH	NC	1.52E+05	CH	NC	2.74E+04 #	CH	NC	9.34E+01	CH	NC	9.15E-01	CH	NC
2-Methylnaphthalene	8.36E-03	CH	NC	NA	--	--	3.13E+02	CH	NC	2.16E+03 *	CH	NC	2.73E+02	CH	NC	1.20E+03 *	CH	NC	8.49E+02 +	CH	NC	4.72E+01 #	CH	NC	1.41E-01	CH	NC	1.17E-02	CH	NC
2-Methylphenol	1.04E-01	CH	NC	1.40E+04	CH	NC	3.91E+03	CH	NC	3.47E+04 *	CH	NC	2.81E+03	CH	NC	8.15E+04 *	CH	NC	6.07E+03 +	CH	NC	1.25E+05 #	CH	NC	2.00E+01	CH	NC	7.43E-01	CH	NC
3-Methylphenol	1.04E-01	CH	NC	1.40E+04 *	CH	NC	3.91E+03	CH	NC	2.70E+04 *	CH	NC	2.74E+03	CH	NC	4.50E+04 *	CH	NC	4.98E+03 +	CH	NC	1.42E+05 #	CH	NC	1.98E+01	CH	NC	7.42E-01	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
4-Methylphenol	1.04E-02	CH	NC	1.40E+03	CH	NC	3.91E+02	CH	NC	2.79E+03	CH	NC	2.75E+02	CH	NC	5.26E+03	CH	NC	5.30E+02	CH	NC	1.31E+04	CH	NC	2.00E+00	CH	NC	7.43E-02	CH	NC
Methyl teriary butyl ether (MTBE)	9.86E-02	AA	C	NA	--	--	3.55E+03	AA	C	6.93E+04 *	CH	C	3.45E+03	AA	C	6.05E+01	AA	C	7.88E+03	AA	C	3.37E+02	AA	C	2.35E+01	AA	C	1.28E-01	AA	C
Methyl-2,4,6-trinitrophenylnitramine	5.97E-05	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	2.12E+05 *	CH	NC	6.09E+02 *	CH	NC	1.51E+03 *	CH	NC	8.29E-05 +	CH	NC	1.00E+03 #	CH	NC	1.19E+01	CH	NC	1.54E-01	CH	NC
Naphthalene	7.48E-04	AA	C	1.30E+02	AA	C	5.32E+01	AA	C	4.65E+02 *	CH	NC	3.63E+01	AA	C	4.96E+01	AA	C	8.10E+01	AA	C	4.20E+00	AA	C	2.06E-02	AA	C	1.09E-03	AA	C
2-Nitroaniline	6.27E-05	CH	NC	8.38E+02 *	CH	NC	2.35E+02	CH	NC	1.87E+01	CH	NC	1.70E+01	CH	NC	3.96E+01	CH	NC	3.00E+00	CH	NC	1.46E+02	CH	NC	1.33E+00	CH	NC	4.48E-02	CH	NC
3-Nitroaniline	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.59E+02 *	CH	NC	1.71E+01	CH	NC	7.57E+02 *	CH	NC	5.00E-01 +	CH	NC	2.19E+03 #	CH	NC	2.45E-01	CH	NC	4.57E-03	CH	NC
4-Nitroaniline	2.09E-03	CH	NC	8.38E+02 *	CH	NC	2.35E+02 *	CH	NC	6.22E+02 *	CH	NC	1.42E+02 *	CH	NC	1.32E+03 *	CH	NC	2.44E-01 +	CH	NC	7.42E+03 #	CH	NC	3.81E+00	AA	C	3.16E-02	AA	C
Nitrobenzene	1.19E-03	CH	NC	NA	--	--	3.91E+01	CH	NC	3.08E+02	CH	NC	3.47E+01	CH	NC	4.99E+01	CH	NC	9.79E+01	CH	NC	1.01E+02	CH	NC	2.78E-01	CH	NC	1.81E-03	CH	NC
Nitroglycerin	1.46E-04	CH	NC	1.96E+01	CH	NC	5.48E+00	CH	NC	5.19E+05 *	CH	NC	4.28E+00	CH	NC	3.56E+02	CH	NC	1.81E+00 +	CH	NC	5.39E+02	CH	NC	5.87E-02	CH	NC	1.07E-03	CH	NC
2-Nitrophenol	2.39E-03	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	6.18E+02	CH	NC	1.02E+02	CH	NC	1.09E+03	CH	NC	1.01E+02	CH	NC	4.65E+03	CH	NC	1.26E+00	CH	NC	3.03E-02	CH	NC
4-Nitrophenol	5.97E-04	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	1.54E+02	CH	NC	6.82E+01	CH	NC	2.75E+02	CH	NC	6.72E-02	CH	NC	2.10E+03	CH	NC	1.05E+00	CH	NC	3.01E-02	CH	NC
n-Nitrosodimethylamine	1.84E-06	AA	C	3.97E-01	AA	C	1.25E-01	AA	C	1.29E+00	CH	C	9.15E-02	AA	C	1.80E-01	AA	C	7.26E-02	AA	C	9.86E-01	AA	C	1.20E-02	AA	C	1.32E-05	AA	C
n-Nitrosodi-n-propylamine	1.28E-05	AA	C	2.89E+00	AA	C	9.13E-01	AA	C	9.01E+00	CH	C	6.66E-01	AA	C	2.79E+00	AA	C	1.12E+00	AA	C	1.21E+01	AA	C	7.05E-03	AA	C	9.41E-05	AA	C
n-Nitrosodiphenylamine	9.97E-03	AA	C	4.13E+03 *	AA	C	1.30E+03 *	AA	C	2.13E+04 *	AA	C	9.47E+02 *	AA	C	6.46E+04 *	AA	C	1.69E+03 +	AA	C	8.34E+03 #	AA	C	9.96E-01	AA	C	1.14E-01	AA	C
n-Nitrosopyrrolidine	4.20E-05	AA	C	9.63E+00	AA	C	3.04E+00	AA	C	2.95E+01	CH	C	2.22E+00	AA	C	1.78E+01	AA	C	1.14E-01	AA	C	1.54E+02	AA	C	1.03E-01	AA	C	3.19E-04	AA	C
2-Nitrotoluene	3.90E-04	AA	C	NA	--	--	2.78E+01	AA	C	2.74E+02	CH	C	2.63E+01	AA	C	1.94E+01	AA	C	3.81E+01	AA	C	2.06E+01	AA	C	4.89E-02	AA	C	6.04E-04	AA	C
3-Nitrotoluene	4.18E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	1.08E+04 *	CH	NC	1.37E+03 *	CH	NC	1.76E+03 *	CH	NC	4.12E+03 +	CH	NC	1.86E+03 #	CH	NC	5.29E+00	CH	NC	6.49E-02	CH	NC
4-Nitrotoluene	5.28E-03	AA	C	NA	--	--	3.76E+02	AA	C	3.71E+03 *	CH	C	3.56E+02	AA	C	2.19E+02	AA	C	5.22E+02	AA	C	2.32E+02	AA	C	6.61E-01	AA	C	8.18E-03	AA	C
Pentachlorobenzene	1.67E-03	CH	NC	2.23E+02	CH	NC	6.26E+01	CH	NC	5.57E+02 *	CH	NC	4.49E+01	CH	NC	1.32E+03 *	CH	NC	1.60E+02 +	CH	NC	5.69E+00 #	CH	NC	6.03E-03	CH	NC	3.28E-03	CH	NC
Pentachloronitrobenzene	3.45E-04	AA	C	7.78E+01	AA	C	2.46E+01	AA	C	1.27E+03 *	AA	C	1.84E+01	AA	C	6.60E+03 *	AA	C	1.36E+02 +	AA	C	4.19E+01 #	AA	C	3.98E-03	AA	C	1.31E-03	AA	C
Pentachlorophenol	4.98E-03	AA	C	6.74E+01	AA	C	5.32E+01	AA	C	1.77E+07 *	AA	C	2.97E+01	AA	C	8.58E+04 *	AA	C	2.34E+01 +	AA	C	2.37E+04 #	AA	C	1.12E-03	AA	C	1.00E-03	M	M
Pentaerythritol tetranitrate	8.36E-01	CH	NC	1.12E+05 *	CH	NC	3.13E+04 *	CH	NC	2.97E+09 *	CH	NC	2.44E+04 *	CH	NC	5.27E+07 *	CH	NC	7.80E+04 +	CH	NC	1.41E+06 #	CH	NC	3.58E+01 #	CH	NC	5.06E+00	CH	NC
Phenanthrene	6.27E-02	CH	NC	NA	--	--	2.35E+03 *	CH	NC	4.07E+04 *	CH	NC	2.22E+03 *	CH	NC	1.88E+05 *	CH	NC	1.19E+04 +	CH	NC	2.25E+03 #	CH	NC	4.20E-01	CH	NC	7.50E-02	CH	NC
Phenol	1.19E-01	CH	NC	8.38E+04 *	CH	NC	2.35E+04	CH	NC	3.35E+04 *	CH	NC	1.18E+04	CH	NC	6.65E+04 *	CH	NC	3.78E+03 +	CH	NC	2.36E+05 #	CH	NC	2.27E+02	CH	NC	4.57E+00	CH	NC
m-Phenylenediamine	1.25E-02	CH	NC	1.68E+03	CH	NC	4.69E+02	CH	NC	3.24E+03	CH	NC	3.29E+02	CH	NC	4.92E+03	CH	NC	1.60E-01	CH	NC	4.15E+04	CH	NC	8.58E+01	CH	NC	9.37E-02	CH	NC
Polychlorinated biphenyls (PCBs)	2.56E-04	AA	C	7.23E+00	AA	C	3.19E+00	AA	C	6.75E+02 *	AA	C	2.21E+00	AA	C	2.52E+03 *	AA	C	1.58E+01 +	AA	C	1.39E+00 #	AA	C	6.34E-05	AA	C	5.00E-04	M	M
n-Propylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	7.68E+01	CH	NC	7.13E+03	CH	NC	1.85E+01	CH	NC	1.18E+00	CH	NC	1.15E-01	CH	NC
Pyrene	6.27E-02	CH	NC	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	4.02E+05 *	CH	NC	1.71E+03 *	CH	NC	1.83E+07 *	CH	NC	1.31E+04 +	CH	NC	2.94E+04 #	CH	NC	1.64E-01 #	CH	NC	9.61E-02	CH	NC
RDX	8.16E-04	AA	C	1.84E+02	AA	C	5.81E+01	AA	C	1.06E+03 *	AA	C	4.24E+01	AA	C	1.69E+03 *	AA	C	7.84E+00 +	AA	C	3.48E+03 #	AA	C	1.26E+00	AA	C	6.07E-03	AA	C
Styrene	5.97E-01	CH	NC	NA	--	--	1.56E+04 *	CH	NC	1.54E+05 *	CH	NC	1.42E+04 *	CH	NC	2.29E+03 *	CH	NC	5.38E+04 +	CH	NC	5.10E+02 #	CH	NC	1.67E+01	CH	NC	1.00E-01	M	M
1,1,1,2-Tetrachloroethane	3.46E-03	AA	C	NA	--	--	2.46E+02	AA	C	2.44E+03 *	CH	C	2.33E+02	AA	C	1.91E+00	AA	C	3.12E+02	AA	C	3.35E+00	AA	C	2.22E-01	AA	C	5.27E-03	AA	C
1,1,2,2-Tetrachloroethane	4.42E-04	AA	C	NA	--	--	3.19E+01	AA	C	3.11E+02	CH	C	3.02E+01	AA	C	1.90E+00	AA	C	3.98E+01	AA	C	2.88E+00	AA	C	6.45E-02	AA	C	6.89E-04	AA	C
1,2,4,5-Tetrachlorobenzene	6.27E-04	CH	NC	8.38E+01 *	CH	NC	2.35E+01 *	CH	NC	1.62E+02 *	CH	NC	1.65E+01 *	CH	NC	3.70E+01 *	CH	NC	1.90E+02 +	CH	NC	3.90E+00 #	CH	NC	4.81E-03	CH	NC	2.02E-03	CH	NC
Tetrachloroethylene	4.27E-03	AA	C	NA	--	--	1.18E+01	AA	C	3.00E+03 *	CH	C	1.18E+01	AA	C	5.94E-01	AA	C	3.80E+02	AA	C	5.68E-01	AA	C	5.06E-03	AA	C	5.00E-03	M	M
Tetrahydrofuran	1.32E-02	AA	C	NA	--	--	8.40E+02	AA	C	9.28E+03	CH	C	8.01E+02	AA	C	3.54E+01	AA	C	8.55E+02	AA	C	3.00E+02	AA	C	1.26E+01	AA	C	2.03E-02	AA	C
Tertiary-amyl-methyl-ether (TAME)	4.80E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	1.24E+04 *	CH	NC	2.50E+03 *	CH	NC	1.31E+01	CH	NC	4.40E+03	CH	NC	3.64E+01	CH	NC	1.86E+01	CH	NC	8.28E-02	CH	NC
Tertiary-butyl-alcohol (TBA)	1.80E-01	CH	NC	NA	--	--	7.04E+03	CH	NC	4.65E+04 *	CH	NC	6.11E+03	CH	NC	3.32E+03	CH	NC	1.30E+04	CH	NC	2.42E+04	CH	NC	1.52E+02	CH	NC	2.86E-01	CH	NC
Toluene	2.92E+00	CH	NC	NA	--	--	6.26E+03 *	CH	NC	7.57E+05 *	CH	NC	6.21E+03 *	CH	NC	9.92E+02 *	CH	NC	2.15E+05 +	CH	NC	8.73E+02 #	CH	NC	8.58E+00	CH	NC	1.00E+00	M	M
1,2,4-Trichlorobenzene	2.09E-03	CH	NC	NA	--	--	7.82E+02	CH	NC	5.41E+02	CH	NC	3.20E+02	CH	NC	8.30E+01	CH	NC	4.45E+02	CH	NC	7.92E+00	CH	NC	2.91E-01	CH	NC	7.00E-02	M	M
1,3,5-Trichlorobenzene	2.39E-02	CH	NC	NA	--	--	2.35E+02 *	CH	NC	6.18E+03 *	CH	NC	2.26E+02 *	CH	NC	1.19E+02 *	CH	NC	2.45E+03 +	CH	NC	2.88E+01 #	CH	NC	6.73E-02	CH	NC	1.60E-02	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
1,1,1-Trichloroethane	1.31E+00	CH	NC	NA	--	--	2.19E+04 *	CH	NC	3.40E+05 *	CH	NC	2.06E+04 *	CH	NC	1.38E+02	CH	NC	1.08E+05	CH	NC	1.72E+02	CH	NC	5.64E+01	CH	NC	2.00E-01	M	M
1,1,2-Trichloroethane	1.60E-03	AA	C	NA	--	--	1.12E+02	AA	C	1.13E+03	CH	C	1.06E+02	AA	C	1.48E+00	AA	C	1.31E+02	AA	C	3.65E+00	AA	C	3.05E-01	AA	C	5.00E-03	M	M
Trichloroethylene	1.28E-02	AA	C	NA	--	--	4.91E+02	AA	C	9.01E+03 *	CH	C	4.77E+02	AA	C	2.92E+00	AA	C	1.04E+03	AA	C	2.74E+00	AA	C	7.22E-01	AA	C	5.00E-03	M	M
Trichlorofluoromethane	4.18E-01	CH	NC	NA	--	--	2.35E+04 *	CH	NC	1.08E+05 *	CH	NC	1.93E+04 *	CH	NC	1.38E+01	CH	NC	3.07E+04	CH	NC	8.87E+00	CH	NC	5.89E+01	CH	NC	6.98E-01	CH	NC
2,4,5-Trichlorophenol	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03	CH	NC	2.40E+05 *	CH	NC	5.96E+03	CH	NC	1.95E+06 *	CH	NC	3.56E+04 +	CH	NC	2.03E+05 #	CH	NC	7.62E+00	CH	NC	1.22E+00	CH	NC
2,4,6-Trichlorophenol	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	9.07E+01	CH	NC	5.72E+00	CH	NC	2.79E+02	CH	NC	3.72E+01	CH	NC	1.18E+02	CH	NC	4.94E-03	CH	NC	1.10E-03	CH	NC
1,2,3-Trichloropropane	4.49E-05	AA	C	NA	--	--	3.19E+00	AA	C	3.15E+01	CH	C	3.03E+00	AA	C	1.21E-01	AA	C	4.04E+00	AA	C	2.94E-01	AA	C	4.81E-03	AA	C	6.93E-05	AA	C
1,1,2-Trichlorotrifluoroethane	1.80E+01	CH	NC	NA	--	--	2.35E+06 *	CH	NC	4.65E+06 *	CH	NC	1.56E+06 *	CH	NC	1.15E+03 *	CH	NC	3.99E+06 +	CH	NC	2.13E+02 #	CH	NC	3.72E+03 #	CH	NC	3.30E+01	CH	NC
1,2,4-Trimethylbenzene	3.58E-03	CH	NC	NA	--	--	3.91E+03 *	CH	NC	9.27E+02	CH	NC	7.49E+02	CH	NC	2.72E+01	CH	NC	3.06E+02	CH	NC	1.33E+00	CH	NC	1.66E+00	CH	NC	7.06E-03	CH	NC
1,3,5-Trimethylbenzene	3.58E-03	CH	NC	NA	--	--	3.91E+03 *	CH	NC	9.27E+02 *	CH	NC	7.49E+02 *	CH	NC	4.33E+00	CH	NC	3.06E+02	CH	NC	9.46E-01	CH	NC	1.54E+00	CH	NC	7.05E-03	CH	NC
1,3,5-Trinitrobenzene	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03 *	CH	NC	2.23E+08 *	CH	NC	1.83E+03 *	CH	NC	4.73E+04 *	CH	NC	3.24E+00 +	CH	NC	2.42E+05 #	CH	NC	5.29E+01	CH	NC	4.64E-01	CH	NC
2,4,6-Trinitrotoluene (TNT)	1.04E-03	CH	NC	1.40E+02	CH	NC	3.91E+01	CH	NC	3.71E+06 *	CH	NC	3.06E+01	CH	NC	5.42E+03 *	CH	NC	5.18E+01 +	CH	NC	2.80E+03 #	CH	NC	4.20E-01	CH	NC	7.63E-03	CH	NC
Vinyl chloride (for residential scenario)	2.91E-03	AA	C	NA	--	--	4.56E+00	AA	C	2.05E+03 *	CH	C	4.56E+00	AA	C	6.74E-02	AA	C	1.76E+02	AA	C	1.83E-01	AA	C	2.06E-02	AA	C	2.00E-03	M	M
Vinyl chloride (for occupational scenatio)	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--
Xylenes (total)	6.06E-02	CH	NC	NA	--	--	1.56E+04 *	CH	NC	1.57E+04 *	CH	NC	7.83E+03 *	CH	NC	4.80E+01	CH	NC	5.54E+03	CH	NC	2.03E+01	CH	NC	2.13E+01	CH	NC	1.00E+01	M	M
Pesticides																															
Acetochlor	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	1.48E+08 *	CH	NC	1.22E+03 *	CH	NC	2.46E+05 *	CH	NC	5.35E+02 +	CH	NC	1.90E+05 #	CH	NC	1.07E+01	CH	NC	3.01E-01	CH	NC
Acifluorfen	5.97E-03	CH	NC	3.63E+03	CH	NC	1.02E+03	CH	NC	2.12E+07 *	CH	NC	7.94E+02	CH	NC	5.72E+06 *	CH	NC	6.00E-03 +	CH	NC	7.22E+06 #	CH	NC	3.32E+02	CH	NC	2.03E-01	CH	NC
Acrolein	1.19E-05	CH	NC	NA	--	--	3.91E+01	CH	NC	3.09E+00	CH	NC	2.86E+00	CH	NC	3.39E-02	CH	NC	6.92E-01	CH	NC	1.44E-01	CH	NC	2.99E+00	CH	NC	2.38E-05	CH	NC
Alachlor	1.12E-03	AA	C	3.61E+02 *	AA	C	1.14E+02	AA	C	3.98E+06 *	AA	C	8.67E+01	AA	C	7.21E+03 *	AA	C	1.95E+00 +	AA	C	5.80E+03 #	AA	C	1.10E-01	AA	C	2.00E-03	M	M
Aldicarb	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	7.32E+02	CH	NC	5.64E+01	CH	NC	1.82E+03 *	CH	NC	5.13E-01 +	CH	NC	8.81E+03 #	CH	NC	1.73E+00	CH	NC	3.00E-03	M	M
Aldicarb sulfone	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	7.42E+06 *	CH	NC	6.11E+01	CH	NC	1.41E+03 *	CH	NC	1.48E+00 +	CH	NC	1.09E+04 #	CH	NC	4.77E+01	CH	NC	3.00E-03	M	M
Aldrin	5.23E-06	AA	C	1.19E+00	AA	C	3.76E-01	AA	C	1.39E+02	AA	C	2.85E-01	AA	C	5.29E+03 *	AA	C	2.51E+00 +	AA	C	3.65E-01 #	AA	C	1.05E-03	AA	C	3.74E-05	AA	C
Ametryn	1.88E-02	CH	NC	2.51E+03 *	CH	NC	7.04E+02 *	CH	NC	6.68E+07 *	CH	NC	5.50E+02 *	CH	NC	2.40E+05 *	CH	NC	1.84E+01 +	CH	NC	9.94E+04 #	CH	NC	1.97E+00	CH	NC	1.28E-01	CH	NC
Atrazine	4.08E-04	AA	C	8.80E+01 *	AA	C	2.78E+01	AA	C	1.45E+06 *	AA	C	2.11E+01	AA	C	6.61E+03 *	AA	C	3.97E-01 +	AA	C	2.20E+03 #	AA	C	4.23E-02	AA	C	3.00E-03	M	M
Baygon	8.36E-03	CH	NC	1.12E+03	CH	NC	3.13E+02	CH	NC	2.97E+07 *	CH	NC	2.44E+02	CH	NC	2.28E+04 *	CH	NC	3.49E+02	CH	NC	2.15E+04 #	CH	NC	NA	--	--	6.26E-02	CH	NC
Butylate	1.04E-01	CH	NC	1.40E+04 *	CH	NC	3.91E+03 *	CH	NC	2.70E+04 *	CH	NC	2.74E+03 *	CH	NC	3.37E+03 *	CH	NC	1.36E+04 +	CH	NC	3.94E+03 #	CH	NC	2.33E+00	CH	NC	5.38E-01	CH	NC
Captan	3.90E-02	AA	C	8.80E+03 *	AA	C	2.78E+03 *	AA	C	1.39E+08 *	AA	C	2.11E+03 *	AA	C	5.04E+04 *	AA	C	1.14E+04 +	AA	C	3.93E+04 #	AA	C	1.37E+01 #	AA	C	2.83E-01	AA	C
Carbaryl	2.30E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	5.95E+04 *	CH	NC	5.54E+03 *	CH	NC	7.24E+02 *	CH	NC	5.29E+04 +	CH	NC	1.02E+03 #	CH	NC	4.13E+01	CH	NC	1.49E+00	CH	NC
Carbofuran	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	3.71E+07 *	CH	NC	3.06E+02 *	CH	NC	2.31E+04 *	CH	NC	7.29E+00 +	CH	NC	5.83E+04 #	CH	NC	2.53E+00	CH	NC	4.00E-02	M	M
Carboxin	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	5.41E+04 *	CH	NC	5.49E+03 *	CH	NC	1.89E+01	CH	NC	2.99E+04 +	CH	NC	2.99E+00	CH	NC	1.88E+01	CH	NC	1.41E+00	CH	NC
Chloramben	3.13E-02	CH	NC	4.19E+03 *	CH	NC	1.17E+03 *	CH	NC	1.11E+08 *	CH	NC	9.17E+02 *	CH	NC	1.00E+05 *	CH	NC	1.27E+03 +	CH	NC	8.12E+04 #	CH	NC	5.25E+00	CH	NC	2.21E-01	CH	NC
Chlordane (technical)	2.56E-04	AA	C	5.78E+01 *	AA	C	1.83E+01	AA	C	2.15E+03 *	CH	NC	1.38E+01	AA	C	4.83E+04 *	AA	C	1.34E+02 +	AA	C	6.80E+01 #	AA	C	5.37E-04	AA	C	3.02E-04	AA	C
Chlordane, gamma	2.56E-04	AA	C	1.45E+02 *	AA	C	1.83E+01	AA	C	1.64E+03 *	CH	NC	1.61E+01	AA	C	2.82E+04 *	AA	C	4.91E+01 +	AA	C	1.21E+01 #	AA	C	2.00E-03	AA	C	2.00E-03	M	M
Chlorothalonil	2.89E-02	AA	C	1.05E+04 *	CH	NC	1.17E+03 *	CH	NC	1.03E+08 *	AA	C	1.06E+03 *	CH	NC	1.19E+06 *	AA	C	2.80E+03 +	AA	C	3.46E+04 #	AA	C	8.92E-01 #	AA	C	1.59E-01	AA	C
Chlorpyrifos	6.27E-03	CH	NC	8.38E+02 *	CH	NC	2.35E+02 *	CH	NC	2.23E+07 *	CH	NC	1.83E+02 *	CH	NC	6.54E+04 *	CH	NC	6.96E+02 +	CH	NC	5.88E+03 #	CH	NC	1.06E-01	CH	NC	2.93E-02	CH	NC
Coumaphos	1.46E-02	CH	NC	1.96E+03 *	CH	NC	5.48E+02 *	CH	NC	5.19E+07 *	CH	NC	4.28E+02 *	CH	NC	8.65E+06 *	CH	NC	1.96E+01 +	CH	NC	9.14E+04 #	CH	NC	5.01E-01 #	CH	NC	8.45E-02	CH	NC
Cyanazine	1.07E-04	AA	C	2.41E+01	AA	C	7.60E+00	AA	C	7.51E+01	CH	C	5.55E+00	AA	C	4.81E-03	AA	C	1.58E+01 +	AA	C	1.72E-03	AA	C	7.09E-02	AA	C	7.87E-04	AA	C
Dacthal	2.09E-02	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.11E+02 *	CH	NC	7.13E+02 *	CH	NC	2.37E-02 +	CH	NC	2.54E+00 #	CH	NC	2.89E-01 #	CH	NC	9.03E-02	CH	NC
Dalapon, sodium salt	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03 *	CH	NC	1.62E+04 *	CH	NC	1.65E+03 *	CH	NC	2.49E+04 *	CH	NC	5.17E+02	CH	NC	1.99E+05 #	CH	NC	2.61E+01	CH	NC	2.00E-01	M	M
DDD	3.74E-04	AA	C	8.43E+01	AA	C	2.66E+01	AA	C	1.33E+06 *	AA	C	2.02E+01	AA	C	3.79E+06 *	AA	C	1.04E+02 +	AA	C	6.40E+02 #	AA	C	9.64E-04	AA	C	5.24E-04	AA	C

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
DDE	2.64E-04	AA	C	5.95E+01	AA	C	1.88E+01	AA	C	2.42E+04 *	AA	C	1.43E+01	AA	C	3.32E+06 *	AA	C	1.07E+02 +	AA	C	1.25E+02 #	AA	C	7.76E-04	AA	C	4.11E-04	AA	C
DDT	2.64E-04	AA	C	5.95E+01	AA	C	1.88E+01	AA	C	9.39E+05 *	AA	C	1.43E+01	AA	C	4.76E+06 *	AA	C	1.00E+02 +	AA	C	3.06E+02 #	AA	C	4.14E-04	AA	C	2.42E-04	AA	C
DEF	6.27E-05	CH	NC	2.79E+01	CH	NC	2.35E+00	CH	NC	2.23E+05 *	CH	NC	2.16E+00	CH	NC	5.28E+05 *	CH	NC	3.36E+00 +	CH	NC	2.83E+02 #	CH	NC	1.82E-04	CH	NC	1.05E-04	CH	NC
Demeton	8.36E-05	CH	NC	1.12E+02	CH	NC	3.13E+01	CH	NC	2.16E+01	CH	NC	1.15E+01	CH	NC	3.04E+00	CH	NC	1.17E+01 +	CH	NC	1.79E+00	CH	NC	9.40E-02	CH	NC	5.74E-03	CH	NC
Diazinon	1.88E-03	CH	NC	2.51E+02 *	CH	NC	7.04E+01 *	CH	NC	6.68E+06 *	CH	NC	5.50E+01	CH	NC	1.58E+04 *	CH	NC	4.92E+01 +	CH	NC	1.08E+04 #	CH	NC	7.71E-02	CH	NC	1.13E-02	CH	NC
Dicamba	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03	CH	NC	2.23E+08 *	CH	NC	1.83E+03	CH	NC	2.25E+05 *	CH	NC	2.50E+01 +	CH	NC	2.83E+05 #	CH	NC	1.94E+01	CH	NC	4.54E-01	CH	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	2.09E-02	CH	NC	2.79E+03	CH	NC	7.82E+02	CH	NC	7.42E+07 *	CH	NC	6.11E+02	CH	NC	5.15E+05 *	CH	NC	3.95E+01 +	CH	NC	9.57E+04 #	CH	NC	3.13E+00	CH	NC	7.00E-02	M	M
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	1.67E-02	CH	NC	5.59E+03 *	CH	NC	6.26E+02 *	CH	NC	5.93E+07 *	CH	NC	5.63E+02 *	CH	NC	2.68E+05 *	CH	NC	7.64E+00 +	CH	NC	8.25E+04 #	CH	NC	5.12E-01	CH	NC	9.40E-02	CH	NC
Dichloroprop (2,4-DP)	2.09E-02	CH	NC	5.59E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.86E+02 *	CH	NC	1.07E+04 *	CH	NC	8.48E+01 +	CH	NC	9.55E+04 #	CH	NC	1.29E+00	CH	NC	1.34E-01	CH	NC
Dieldrin	5.59E-06	AA	C	1.26E+00	AA	C	3.99E-01	AA	C	4.54E+01 *	AA	C	3.01E-01	AA	C	5.25E+02 *	AA	C	2.53E+00 +	AA	C	4.14E+00 #	AA	C	1.46E-04	AA	C	2.94E-05	AA	C
Dimethoate	4.18E-04	CH	NC	5.59E+01	CH	NC	1.56E+01	CH	NC	1.48E+06 *	CH	NC	1.22E+01	CH	NC	4.56E+02	CH	NC	7.13E-03	CH	NC	1.68E+03	CH	NC	2.33E+00	CH	NC	3.12E-03	CH	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01 *	CH	NC	7.42E+06 *	CH	NC	6.11E+01 *	CH	NC	6.52E+03 *	CH	NC	1.42E+02	CH	NC	7.70E+03 #	CH	NC	7.18E-02	CH	NC	7.00E-03	M	M
Diquat	4.60E-03	CH	NC	6.15E+02	CH	NC	1.72E+02	CH	NC	1.63E+07 *	CH	NC	1.34E+02	CH	NC	1.09E+06 *	CH	NC	4.74E-03 +	CH	NC	8.15E+05 #	CH	NC	6.28E+03	CH	NC	2.00E-02	M	M
Disulfoton	8.36E-05	CH	NC	1.12E+01 *	CH	NC	3.13E+00 *	CH	NC	2.97E+05 *	CH	NC	2.44E+00 *	CH	NC	4.45E+00 *	CH	NC	5.91E+00 +	CH	NC	3.66E+01 #	CH	NC	2.75E-03	CH	NC	4.78E-04	CH	NC
Diuron	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02 *	CH	NC	1.48E+07 *	CH	NC	1.22E+02 *	CH	NC	9.00E+03 *	CH	NC	4.16E+02 +	CH	NC	3.81E+03 #	CH	NC	6.27E-01	CH	NC	2.93E-02	CH	NC
Endosulfan	1.25E-02	CH	NC	1.68E+03 *	CH	NC	4.69E+02 *	CH	NC	1.71E+04 *	CH	NC	3.59E+02 *	CH	NC	1.66E+05 *	CH	NC	5.89E+03 +	CH	NC	1.30E+04 #	CH	NC	1.19E+00 #	CH	NC	8.48E-02	CH	NC
Endothall	4.18E-02	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	2.89E+04	CH	NC	1.17E+03	CH	NC	2.40E+08 *	CH	NC	4.18E-02	CH	NC	2.82E+08 #	CH	NC	1.49E+01	CH	NC	1.00E-01	M	M
Endrin	6.27E-04	CH	NC	8.38E+01 *	CH	NC	2.35E+01 *	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	6.09E+04 *	CH	NC	2.54E+02 +	CH	NC	8.35E+02 #	CH	NC	1.65E-02	CH	NC	2.00E-03	M	M
Endrin aldehyde	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.91E+03 *	CH	NC	1.82E+01	CH	NC	9.62E+04 *	CH	NC	1.35E+02 +	CH	NC	7.68E+00 #	CH	NC	1.14E-03	CH	NC	7.13E-04	CH	NC
Endrin ketone	5.97E-05	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.12E+05 *	CH	NC	1.83E+01	CH	NC	1.91E+05 *	CH	NC	6.69E+00 +	CH	NC	1.85E+02 #	CH	NC	5.03E-03	CH	NC	2.07E-03	CH	NC
Eptam	5.22E-02	CH	NC	NA	--	--	1.96E+03 *	CH	NC	1.35E+04 *	CH	NC	1.71E+03 *	CH	NC	2.11E+03 *	CH	NC	6.22E+03 +	CH	NC	1.38E+03 #	CH	NC	3.43E+00	CH	NC	7.98E-02	CH	NC
Ethoprop	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	7.42E+05 *	CH	NC	6.11E+00	CH	NC	6.74E+03 *	CH	NC	6.13E+00 +	CH	NC	9.22E+02 #	CH	NC	1.64E-02	CH	NC	1.39E-03	CH	NC
Fenamiphos	5.22E-04	CH	NC	6.98E+01	CH	NC	1.96E+01	CH	NC	1.85E+06 *	CH	NC	1.53E+01	CH	NC	6.73E+03 *	CH	NC	1.59E-01	CH	NC	3.25E+03 #	CH	NC	NA	--	--	3.91E-03	CH	NC
Fenthion	1.46E-04	CH	NC	1.96E+01	CH	NC	5.48E+00	CH	NC	5.19E+05 *	CH	NC	4.28E+00	CH	NC	3.01E+03 *	CH	NC	9.56E+00 +	CH	NC	4.55E+02 #	CH	NC	1.67E-02	CH	NC	1.01E-03	CH	NC
Fluometuron	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	9.64E+07 *	CH	NC	7.94E+02 *	CH	NC	1.67E+05 *	CH	NC	1.06E+01	CH	NC	1.45E+05 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Fonofos	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02	CH	NC	1.48E+07 *	CH	NC	1.22E+02	CH	NC	5.03E+04 *	CH	NC	5.16E+02	CH	NC	2.36E+03 #	CH	NC	9.09E-02	CH	NC	2.13E-02	CH	NC
alpha-Hexachlorocyclohexane	1.42E-05	AA	C	3.21E+00	AA	C	1.01E+00	AA	C	2.98E+01 *	AA	C	7.51E-01	AA	C	8.83E+01 *	AA	C	5.12E+00 +	AA	C	1.19E+01 #	AA	C	2.90E-04	AA	C	6.88E-05	AA	C
beta-Hexachlorocyclohexane	4.85E-05	AA	C	1.12E+01 *	AA	C	3.55E+00 *	AA	C	1.72E+05 *	AA	C	2.70E+00 *	AA	C	1.19E+03 *	AA	C	4.72E+00 +	AA	C	1.57E+02 #	AA	C	9.84E-04	AA	C	2.38E-04	AA	C
delta-Hexachlorocyclohexane	5.03E-05	AA	C	1.12E+01	AA	C	3.55E+00	AA	C	1.78E+05 *	AA	C	2.70E+00	AA	C	3.90E+03 *	AA	C	2.67E+00 +	AA	C	1.54E+02 #	AA	C	1.46E-03	AA	C	2.70E-04	AA	C
gamma-Hexachlorocyclohexane	8.16E-05	AA	C	1.84E+01	AA	C	5.81E+00	AA	C	1.42E+02 *	AA	C	4.28E+00	AA	C	3.51E+02 *	AA	C	3.08E+01 +	AA	C	5.44E+01 #	AA	C	3.69E-03	AA	C	2.00E-04	M	M
Glyphosate	2.09E-01	CH	NC	2.79E+04	CH	NC	7.82E+03	CH	NC	6.97E+05 *	CH	NC	6.06E+03	CH	NC	2.73E+14 *	CH	NC	2.09E-01 +	CH	NC	1.25E+13 #	CH	NC	1.34E+04 #	CH	NC	7.00E-01	M	M
Guthion	3.13E-03	CH	NC	4.19E+02 *	CH	NC	1.17E+02 *	CH	NC	1.11E+07 *	CH	NC	9.17E+01 *	CH	NC	8.61E+04 *	CH	NC	4.68E-03 +	CH	NC	5.34E+04 #	CH	NC	1.10E+00 #	CH	NC	2.28E-02	CH	NC
Heptachlor	1.97E-05	AA	C	4.50E+00	AA	C	1.42E+00	AA	C	1.39E+01	CH	C	1.04E+00	AA	C	1.57E+00	AA	C	1.13E+01 +	AA	C	2.13E-04	AA	C	7.62E-04	AA	C	4.00E-04	M	M
Heptachlor epoxide	9.86E-06	AA	C	2.22E+00	AA	C	7.02E-01	AA	C	3.50E+04 *	AA	C	5.33E-01	AA	C	5.21E+03 *	AA	C	4.06E+00 +	AA	C	1.06E+01 #	AA	C	1.52E-04	AA	C	2.00E-04	M	M
Hexazinone	6.89E-02	CH	NC	9.22E+03	CH	NC	2.58E+03	CH	NC	2.45E+08 *	CH	NC	2.02E+03	CH	NC	1.51E+06 *	CH	NC	7.57E-02 +	CH	NC	4.50E+06 #	CH	NC	2.58E+01	CH	NC	5.03E-01	CH	NC
Malathion	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	1.48E+08 *	CH	NC	1.22E+03	CH	NC	3.04E+06 *	CH	NC	2.75E+02 +	CH	NC	2.83E+05 #	CH	NC	2.25E+01	CH	NC	3.07E-01	CH	NC
Maleic hydrazide	1.04E+00	CH	NC	1.40E+05 *	CH	NC	3.91E+04 *	CH	NC	3.88E+05 *	CH	NC	2.83E+04 *	CH	NC	1.37E+06 *	CH	NC	4.10E+00 +	CH	NC	3.81E+06 #	CH	NC	1.56E+04 #	CH	NC	7.82E+00	CH	NC
Maneb	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	3.71E+07 *	CH	NC	3.06E+02 *	CH	NC	1.36E+05 *	CH	NC	9.23E+02	CH	NC	4.05E+04 #	CH	NC	NA	--	--	7.82E-02	CH	NC
Methomyl	5.22E-02	CH	NC	6.98E+03	CH	NC	1.96E+03	CH	NC	1.53E+04 *	CH	NC	1.39E+03	CH	NC	3.31E+04 *	CH	NC	1.23E+00 +	CH	NC	1.65E+05 #	CH	NC	1.12E+02	CH	NC	3.89E-01	CH	NC
Methoxychlor	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	7.22E+04 *	CH	NC	3.04E+02 *	CH	NC	3.54E+06 *	CH	NC	3.92E+03 +	CH	NC	6.13E+03 #	CH	NC	4.05E-02	CH	NC	4.00E-02	M	M

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	1.04E-03	CH	NC	1.40E+02	CH	NC	3.91E+01	CH	NC	3.71E+06 *	CH	NC	3.06E+01	CH	NC	2.97E+03 *	CH	NC	2.50E-01 +	CH	NC	4.65E+03 #	CH	NC	4.24E-02	CH	NC	6.26E-03	CH	NC
MCPP	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01 *	CH	NC	7.42E+06 *	CH	NC	6.11E+01 *	CH	NC	1.08E+03 *	CH	NC	9.49E+00 +	CH	NC	9.62E+03 #	CH	NC	1.38E-01	CH	NC	1.36E-02	CH	NC
Metolachlor	3.13E-01	CH	NC	4.19E+04 *	CH	NC	1.17E+04 *	CH	NC	1.11E+09 *	CH	NC	9.17E+03 *	CH	NC	7.86E+06 *	CH	NC	6.70E+02 +	CH	NC	1.84E+06 #	CH	NC	4.75E+01	CH	NC	2.20E+00	CH	NC
Metribuzin	5.22E-02	CH	NC	6.98E+03 *	CH	NC	1.96E+03 *	CH	NC	1.85E+08 *	CH	NC	1.53E+03 *	CH	NC	6.59E+05 *	CH	NC	7.16E-02	CH	NC	9.68E+05 #	CH	NC	2.29E+02	CH	NC	3.90E-01	CH	NC
Mirex	4.98E-06	AA	C	1.12E+00	AA	C	3.55E-01	AA	C	3.50E+00	CH	C	2.59E-01	AA	C	1.45E+00	AA	C	9.10E-01 +	AA	C	4.44E-02	AA	C	NA	--	--	3.74E-05	AA	C
Naled	4.18E-03	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	1.48E+07 *	CH	NC	1.22E+02	CH	NC	1.03E+04 *	CH	NC	2.32E+02 +	CH	NC	1.15E+04 #	CH	NC	9.36E+00	CH	NC	3.11E-02	CH	NC
o,o,o-Triethylphosphorothioate	1.73E-05	CH	NC	NA	--	--	6.49E-01	CH	NC	4.49E+00	CH	NC	5.67E-01	CH	NC	3.10E-01	CH	NC	2.11E+00	CH	NC	1.04E-01	CH	NC	2.19E-03	CH	NC	2.69E-05	CH	NC
Oxamyl	5.22E-02	CH	NC	6.98E+03	CH	NC	1.96E+03	CH	NC	1.85E+08 *	CH	NC	1.53E+03	CH	NC	4.46E+04	CH	NC	2.69E+00 +	CH	NC	2.80E+05 #	CH	NC	2.58E+03	CH	NC	2.00E-01	M	M
Paraquat	9.40E-03	CH	NC	1.26E+03	CH	NC	3.52E+02	CH	NC	3.34E+07	CH	NC	2.75E+02	CH	NC	7.33E+06	CH	NC	3.23E+00 +	CH	NC	7.98E+04	CH	NC	9.03E+04	CH	NC	7.04E-02	CH	NC
ethyl-Parathion	1.25E-02	CH	NC	1.68E+03 *	CH	NC	4.69E+02 *	CH	NC	4.45E+07 *	CH	NC	3.67E+02	CH	NC	1.64E+06 *	CH	NC	1.16E+03 +	CH	NC	4.94E+04 #	CH	NC	4.85E-01	CH	NC	7.44E-02	CH	NC
methyl-Parathion	5.22E-04	CH	NC	6.98E+01	CH	NC	1.96E+01	CH	NC	1.85E+06 *	CH	NC	1.53E+01	CH	NC	5.03E+04 *	CH	NC	6.71E+00 +	CH	NC	1.66E+03 #	CH	NC	8.66E-02	CH	NC	3.69E-03	CH	NC
Pendimethalin	8.36E-02	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	2.97E+08 *	CH	NC	2.44E+03 *	CH	NC	2.48E+08 *	CH	NC	7.62E+03 +	CH	NC	2.20E+05 #	CH	NC	3.10E-01 #	CH	NC	1.67E-01	CH	NC
Phenylmercuric acetate	1.67E-04	CH	NC	2.23E+01	CH	NC	6.26E+00	CH	NC	5.93E+05 *	CH	NC	4.89E+00	CH	NC	3.25E+02	CH	NC	1.46E-02	CH	NC	6.39E+02	CH	NC	8.01E-01	CH	NC	1.25E-03	CH	NC
Phorate	4.18E-04	CH	NC	5.59E+01	CH	NC	1.56E+01	CH	NC	1.48E+06 *	CH	NC	1.22E+01	CH	NC	5.30E+02 *	CH	NC	3.07E+01 +	CH	NC	1.32E+02 #	CH	NC	2.63E-02	CH	NC	2.69E-03	CH	NC
Picloram	1.46E-01	CH	NC	1.96E+04 *	CH	NC	5.48E+03	CH	NC	3.78E+04 *	CH	NC	3.84E+03	CH	NC	3.09E+00	CH	NC	1.70E+04 +	CH	NC	1.18E-01	CH	NC	1.54E+01	CH	NC	5.00E-01	M	M
Prometon	3.13E-02	CH	NC	4.19E+03 *	CH	NC	1.17E+03	CH	NC	1.11E+08 *	CH	NC	9.17E+02	CH	NC	5.51E+05 *	CH	NC	1.37E+01 +	CH	NC	1.71E+05 #	CH	NC	3.27E+00	CH	NC	2.14E-01	CH	NC
Pronamide	1.57E-01	CH	NC	2.10E+04 *	CH	NC	5.87E+03 *	CH	NC	5.56E+08 *	CH	NC	4.58E+03 *	CH	NC	1.65E+05 *	CH	NC	9.85E+03 +	CH	NC	1.27E+05 #	CH	NC	7.00E+00	CH	NC	9.56E-01	CH	NC
Propachlor	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03	CH	NC	9.64E+07 *	CH	NC	7.94E+02	CH	NC	1.41E+05 *	CH	NC	3.74E+02	CH	NC	8.48E+04 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Propanil	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02	CH	NC	3.71E+07 *	CH	NC	3.06E+02	CH	NC	2.61E+05 *	CH	NC	8.69E+00 +	CH	NC	4.78E+04 #	CH	NC	9.00E-01	CH	NC	7.00E-02	CH	NC
Propazine	1.99E-03	AA	C	4.50E+02 *	AA	C	1.42E+02 *	AA	C	7.08E+06 *	AA	C	1.08E+02 *	AA	C	1.09E+04 *	AA	C	1.96E+00 +	AA	C	1.06E+04 #	AA	C	1.21E-01	AA	C	1.26E-02	AA	C
Propham	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	2.67E+04 *	CH	NC	1.17E+03 *	CH	NC	1.21E+05 *	CH	NC	2.94E+02 +	CH	NC	1.89E+05 #	CH	NC	4.43E+00	CH	NC	2.86E-01	CH	NC
Silvex (2,4,5-TP)	1.67E-02	CH	NC	2.23E+03 *	CH	NC	6.26E+02 *	CH	NC	5.93E+07 *	CH	NC	4.89E+02 *	CH	NC	3.85E+04 *	CH	NC	3.18E+01 +	CH	NC	8.68E+04 #	CH	NC	7.02E-01	CH	NC	5.00E-02	M	M
Simazine	7.48E-04	AA	C	1.69E+02 *	AA	C	5.32E+01 *	AA	C	2.65E+06 *	AA	C	4.05E+01 *	AA	C	3.29E+03 *	AA	C	4.83E-01 +	AA	C	3.54E+03 #	AA	C	9.44E-02	AA	C	4.00E-03	M	M
Strychnine	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	1.21E+05 *	CH	NC	6.34E-04 +	CH	NC	2.05E+05 #	CH	NC	6.76E-01	CH	NC	4.65E-03	CH	NC
Tebuthiuron	1.46E-01	CH	NC	1.96E+04 *	CH	NC	5.48E+03 *	CH	NC	5.19E+08 *	CH	NC	4.28E+03 *	CH	NC	1.11E+06 *	CH	NC	1.83E-01	CH	NC	3.69E+06 #	CH	NC	8.15E+01	CH	NC	1.08E+00	CH	NC
Terbacil	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	9.64E+07 *	CH	NC	7.94E+02 *	CH	NC	4.61E+04 *	CH	NC	6.31E-01	CH	NC	1.30E+05 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Terbufos	5.22E-05	CH	NC	6.98E+00	CH	NC	1.96E+00	CH	NC	1.54E+01	CH	NC	1.39E+00	CH	NC	3.23E+01 *	CH	NC	7.79E+00	CH	NC	8.03E+00 #	CH	NC	1.15E-03	CH	NC	2.68E-04	CH	NC
Terbutryn	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01	CH	NC	7.42E+06 *	CH	NC	6.11E+01	CH	NC	9.73E+04 *	CH	NC	1.28E+01 +	CH	NC	9.98E+03 #	CH	NC	6.54E-02	CH	NC	1.18E-02	CH	NC
Toxaphene	8.01E-05	AA	C	1.84E+01	AA	C	5.81E+00	AA	C	2.84E+05 *	AA	C	4.41E+00	AA	C	2.09E+05 *	AA	C	3.34E+01 +	AA	C	1.37E+02 #	AA	C	1.72E-03	AA	C	3.00E-03	M	M
Triallate	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	1.56E+04 *	CH	NC	7.56E+02 *	CH	NC	6.32E+04 *	CH	NC	3.69E+03 +	CH	NC	4.73E+03 #	CH	NC	3.82E-01	CH	NC	1.18E-01	CH	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2.09E-02	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.11E+02 *	CH	NC	3.31E+04 *	CH	NC	2.78E+01 +	CH	NC	7.78E+04 #	CH	NC	1.47E+00	CH	NC	1.37E-01	CH	NC
Trifluralin	1.17E-02	AA	C	2.10E+03 *	CH	NC	5.87E+02	CH	NC	3.28E+04 *	CH	NC	4.52E+02	CH	NC	3.61E+05 *	AA	C	4.71E+03 +	AA	C	4.41E+03 #	AA	C	6.76E-02	AA	C	2.98E-02	AA	C
Warfarin	5.97E-05	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.12E+05 *	CH	NC	1.83E+01	CH	NC	2.28E+03 *	CH	NC	4.60E-02 +	CH	NC	4.11E+02 #	CH	NC	7.09E-02	CH	NC	4.31E-03	CH	NC
Metals																															
Aluminum	2.98E-03	CH	NC	2.79E+06	CH	NC	7.82E+04	CH	NC	1.06E+07	CH	NC	7.55E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	5.59E+03	CH	NC	1.56E+01	CH	NC
Antimony	2.98E-05	CH	NC	1.12E+03	CH	NC	3.13E+01	CH	NC	1.06E+05	CH	NC	3.04E+01	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+00	CH	NC	6.00E-03	M	M
Arsenic	5.98E-06	AA	C	4.50E+01	AA	C	4.26E+00	AA	C	2.12E+04	AA	C	3.89E+00	AA	C	NA	--	--	NA	--	--	NA	--	--	1.58E-01	AA	C	1.00E-02	M	M
Barium	2.92E-04	CH	NC	5.59E+05	CH	NC	1.56E+04	CH	NC	1.04E+06	CH	NC	1.50E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	1.12E+03	CH	NC	2.00E+00	M	M
Beryllium	1.07E-05	AA	C	2.41E+01	AA	C	7.60E-01	AA	C	3.79E+04	AA	C	7.37E-01	AA	C	NA	--	--	NA	--	--	NA	--	--	2.83E-02	AA	C	4.00E-03	M	M
Cadmium	1.42E-05	AA	C	5.32E+03	AA	C	1.68E+01	AA	C	5.06E+04	AA	C	1.68E+01	AA	C	NA	--	--	NA	--	--	NA	--	--	6.25E-01	AA	C	5.00E-03	M	M
Chromium (III) total chromium	6.06E-05	CH	NC	4.19E+06	CH	NC	1.17E+05	CH	NC	2.15E+05	CH	NC	7.46E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	8.38E+03	CH	NC	1.00E-01	M	M

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-3
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR			SURFICIAL SOIL												SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
Chromium (VI)	2.14E-06	AA	C	4.82E+00	AA	C	1.52E-01	AA	C	7.58E+03	AA	C	1.47E-01	AA	C	NA	--	--	NA	--	--	NA	--	--	2.83E-03	AA	C	3.37E-06	AA	C
Copper	5.97E-04	CH	NC	1.12E+05	CH	NC	3.13E+03	CH	NC	2.12E+06	CH	NC	3.04E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+02	CH	NC	6.24E-01	CH	NC
Lead	NA	--	--	NA	--	--	NA	--	--	NA	--	--	2.60E+02	--	--	2.60E+02	--	--	NA	--	--	NA	--	--	NA	--	--	1.50E-02	M	M
Manganese	2.99E-05	CH	NC	3.91E+05	CH	NC	1.10E+04	CH	NC	1.06E+05	CH	NC	9.68E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	7.82E+02	CH	NC	2.19E+00	CH	NC
Mercury	1.79E-04	CH	NC	NA	--	--	NA	--	--	4.63E+01 *	CH	NC	4.63E+01 *	CH	NC	4.17E+00 *	CH	NC	3.73E+01 +	CH	NC	8.77E-02 #	CH	NC	NA	--	--	NA	--	--
Molybdenum	2.98E-03	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	1.06E+07	CH	NC	3.80E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+01	CH	NC	7.80E-02	CH	NC
Nickel	5.37E-05	CH	NC	5.59E+04	CH	NC	1.56E+03	CH	NC	1.91E+05	CH	NC	1.51E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	5.59E+02	CH	NC	3.13E-01	CH	NC
Selenium	1.19E-04	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	4.23E+05	CH	NC	3.80E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+01	CH	NC	5.00E-02	M	M
Silver	5.97E-06	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	2.12E+04	CH	NC	3.74E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	4.66E+01	CH	NC	7.81E-02	CH	NC
Strontium	NA	--	--	1.68E+06	CH	NC	4.69E+04	CH	NC	NA	--	--	4.57E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.35E+03	CH	NC	9.37E+00	CH	NC
Thallium chloride	5.97E-05	CH	NC	2.23E+02	CH	NC	6.26E+00	CH	NC	2.12E+05 *	CH	NC	6.09E+00	CH	NC	NA	--	--	NA	--	--	NA	--	--	4.47E-01	CH	NC	1.25E-03	CH	NC
Vanadium	2.98E-05	CH	NC	1.96E+04	CH	NC	5.48E+02	CH	NC	1.06E+05	CH	NC	5.30E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.91E+01	CH	NC	1.09E-01	CH	NC
Zinc	NA	--	--	8.38E+05	CH	NC	2.35E+04	CH	NC	NA	--	--	2.28E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+03	CH	NC	4.69E+00	CH	NC
Inorganics																														
Ammonia	5.97E-02	CH	NC	NA	--	--	NA	--	--	1.55E+04	CH	NC	1.55E+04	CH	NC	1.45E+01	CH	NC	1.47E+03	CH	NC	1.10E+02	CH	NC	NA	--	--	1.19E-01	CH	NC
Cyanide	2.98E-03	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	1.06E+07 *	CH	NC	1.22E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	1.12E+02	CH	NC	3.12E-01	CH	NC
Cyanide (as Sodium Cyanide)	NA	--	--	1.12E+04	CH	NC	3.13E+03	CH	NC	NA	--	--	2.44E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+02	CH	NC	2.00E-01	M	M
Cyanogen bromide	1.88E-01	CH	NC	2.51E+04 *	CH	NC	7.04E+03 *	CH	NC	4.87E+04 *	CH	NC	4.94E+03 *	CH	NC	1.87E+01	CH	NC	1.25E+04	CH	NC	6.68E+01	CH	NC	5.03E+02	CH	NC	2.97E-01	CH	NC
Fluoride (as Sodium Fluoride)	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.00E+00	M	M
Perchlorate	NA	--	--	1.96E+02	CH	NC	5.48E+01	CH	NC	NA	--	--	4.28E+01	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.91E+00	CH	NC	1.09E-02	CH	NC
White phosphorus	5.97E-05	CH	NC	5.59E+00	CH	NC	1.56E+00	CH	NC	1.54E+01	CH	NC	1.13E+00	CH	NC	2.51E-01	CH	NC	2.07E+00	CH	NC	3.85E-02	CH	NC	1.12E-01	CH	NC	8.64E-05	CH	NC
Total Petroleum Hydrocarbons																														
TPH-GRO																														
Aliphatics - > C6-C8	1.11E+01	CH	NC	NA	--	--	3.91E+05 *	CH	NC	2.87E+06 *	CH	NC	3.44E+05 *	CH	NC	4.68E+02 *	CH	NC	7.09E+05 +	CH	NC	1.63E+01 #	CH	NC	NA	--	--	1.73E+01 #	CH	NC
Aliphatics - > C8-C10	6.06E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	7.45E+03 *	CH	NC	9.90E+01 *	CH	NC	3.88E+04 +	CH	NC	5.59E-01 #	CH	NC	NA	--	--	6.83E-01 #	CH	NC
Aromatics - >C8-C10	1.19E-01	CH	NC	NA	--	--	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.84E+03 *	CH	NC	1.54E+02	CH	NC	7.62E+03	CH	NC	1.78E+01	CH	NC	NA	--	--	1.72E-01	CH	NC
TPH-DRO																														
Aliphatics - >C10-C12	6.06E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	5.88E+03 *	CH	NC	4.94E+02 *	CH	NC	3.88E+04 +	CH	NC	3.73E-01 #	CH	NC	NA	--	--	6.83E-01 #	CH	NC
Aliphatics - >C12-C16	6.06E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	5.88E+03 *	CH	NC	2.25E+03 *	CH	NC	3.88E+04 +	CH	NC	8.60E-02 #	CH	NC	NA	--	--	1.56E+00 #	CH	NC
Aliphatics - >C16-C21	NA	--	--	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	NA	--	--	1.22E+05 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	3.13E+01 #	CH	NC
Aromatics - >C10-C12	1.19E-01	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.26E+03 *	CH	NC	8.28E+02 *	CH	NC	7.62E+03 +	CH	NC	5.88E+01 #	CH	NC	NA	--	--	1.72E-01	CH	NC
Aromatics - >C12-C16	1.19E-01	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.26E+03 *	CH	NC	4.34E+03 *	CH	NC	7.62E+03 +	CH	NC	1.51E+02 #	CH	NC	NA	--	--	1.72E-01	CH	NC
Aromatics - >C16-C21	NA	--	--	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	NA	--	--	1.72E+03 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.69E-01	CH	NC
TPH-ORO																														
Aliphatics - >C21-C35	NA	--	--	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	NA	--	--	1.22E+05 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	3.13E+01 #	CH	NC
Aromatics - >C21-C35	NA	--	--	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	NA	--	--	1.72E+03 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.69E-01 #	CH	NC

Vanadium

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
VOCs and SVOCs																															
Acenaphthene	1.25E-01	CH	NC	1.29E+04 *	CH	NC	4.69E+03 *	CH	NC	6.15E+04 *	CH	NC	3.26E+03 *	CH	NC	2.13E+05 *	CH	NC	3.18E+04 +	CH	NC	5.08E+03 #	CH	NC	1.35E+00	CH	NC	1.65E-01	CH	NC
Acenaphthylene	1.25E-01	CH	NC	NA	--	--	4.69E+03 *	CH	NC	6.88E+04 *	CH	NC	4.39E+03 *	CH	NC	2.67E+05 *	CH	NC	3.04E+04 +	CH	NC	6.51E+03 #	CH	NC	1.60E+00	CH	NC	1.70E-01	CH	NC
Acetone	1.88E+00	CH	NC	NA	--	--	7.04E+04	CH	NC	4.87E+05 *	CH	NC	6.15E+04	CH	NC	1.43E+04	CH	NC	1.59E+05	CH	NC	1.01E+05	CH	NC	6.66E+03	CH	NC	2.97E+00	CH	NC
Acetonitrile	3.58E-02	CH	NC	NA	--	--	1.33E+03	CH	NC	9.27E+03	CH	NC	1.16E+03	CH	NC	4.66E+02	CH	NC	2.82E+03	CH	NC	2.02E+03	CH	NC	1.26E+02	CH	NC	5.64E-02	CH	NC
Acrylamide	1.97E-05	AA	C	4.50E+00	AA	C	1.42E+00	AA	C	1.44E+01	CH	C	1.04E+00	AA	C	1.02E+01	AA	C	9.54E-04	AA	C	2.36E+01	AA	C	1.57E-01	AA	C	1.49E-04	AA	C
Acrylic acid	5.97E-04	CH	NC	1.40E+05	CH	NC	3.91E+04	CH	NC	1.54E+02	CH	NC	1.54E+02	CH	NC	1.16E+02	CH	NC	3.78E+00	CH	NC	7.99E+02	CH	NC	1.49E+03	CH	NC	7.77E+00	CH	NC
Acrylonitrile	3.77E-04	AA	C	NA	--	--	1.18E+01	AA	C	2.65E+02	CH	C	1.15E+01	AA	C	9.68E-01	AA	C	3.75E+01	AA	C	6.74E+00	AA	C	2.58E-01	AA	C	4.68E-04	AA	C
Allyl alcohol	1.04E-02	CH	NC	1.40E+03	CH	NC	3.91E+02	CH	NC	2.70E+03	CH	NC	2.74E+02	CH	NC	1.15E+03	CH	NC	7.42E+02	CH	NC	3.68E+03	CH	NC	1.99E+01	CH	NC	7.78E-02	CH	NC
Allyl chloride	5.97E-04	CH	NC	8.10E+01	CH	NC	2.27E+01	CH	NC	1.54E+02	CH	NC	1.59E+01	CH	NC	2.60E+02	CH	NC	1.84E+01	CH	NC	5.99E+02	CH	NC	1.92E-01	CH	NC	4.40E-03	CH	NC
Aniline	5.97E-04	CH	NC	1.96E+03	CH	NC	5.48E+02	CH	NC	1.55E+02	CH	NC	1.14E+02	CH	NC	1.25E+02	CH	NC	3.72E+01	CH	NC	6.48E+02	CH	NC	1.21E+01	CH	NC	1.08E-01	CH	NC
Anthracene	6.27E-01	CH	NC	6.45E+04 *	CH	NC	2.35E+04 *	CH	NC	3.34E+05 *	CH	NC	1.64E+04 *	CH	NC	1.26E+06 *	CH	NC	2.10E+05 +	CH	NC	7.25E+03 #	CH	NC	3.17E+00 #	CH	NC	6.96E-01 #	CH	NC
Aroclor 1016	1.46E-04	CH	NC	1.40E+01	CH	NC	5.48E+00	CH	NC	3.90E+02	CH	NC	3.89E+00	CH	NC	7.39E+03 *	CH	NC	8.14E+01 +	CH	NC	6.95E+00 #	CH	NC	3.24E-04	CH	NC	1.96E-04	CH	NC
Aroclor 1221	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.08E+01	CH	NC	1.02E+00	CH	NC	3.96E+00	CH	NC	1.60E+01	CH	NC	1.17E-01	CH	NC	2.39E-04	CH	NC	1.13E-04	AA	C
Aroclor 1242	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	1.61E+01 *	CH	NC	1.05E+00	CH	NC	4.38E+01 *	CH	NC	2.42E+01 +	CH	NC	1.17E+00 #	CH	NC	1.01E-04	CH	NC	5.93E-05	AA	C
Aroclor 1248	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	5.03E+01	CH	NC	1.10E+00	CH	NC	4.29E+02 *	CH	NC	2.92E+01 +	CH	NC	2.65E-01 #	CH	NC	5.50E-05	CH	NC	3.50E-05	AA	C
Aroclor 1254	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	8.17E+01	CH	NC	1.11E+00	CH	NC	1.13E+03 *	CH	NC	2.92E+01 +	CH	NC	3.65E-01 #	CH	NC	4.74E-05	CH	NC	3.06E-05	AA	C
Aroclor 1260	4.18E-05	CH	NC	3.99E+00	CH	NC	1.56E+00	CH	NC	2.24E+02	CH	NC	1.12E+00	CH	NC	8.53E+03 *	CH	NC	3.93E+01 +	CH	NC	2.18E-01 #	CH	NC	5.24E-05	CH	NC	3.35E-05	AA	C
Azobenzene	8.27E-04	AA	C	NA	--	--	5.81E+01	AA	C	4.13E+03 *	AA	C	5.73E+01	AA	C	2.93E+04 *	AA	C	1.73E+02 +	AA	C	9.30E+01 #	AA	C	3.81E-03	AA	C	8.61E-04	AA	C
Benzene	4.98E-03	AA	C	NA	--	--	1.83E+02	AA	C	3.50E+03 *	CH	C	1.77E+02	AA	C	1.43E+00	AA	C	6.18E+02	AA	C	2.88E+00	AA	C	2.92E-01	AA	C	5.00E-03	M	M
Benzidine	3.83E-07	AA	C	8.80E-02	AA	C	2.78E-02	AA	C	1.02E+01	AA	C	2.11E-02	AA	C	6.45E+02	AA	C	9.83E-07	AA	C	6.23E-01	AA	C	3.17E-04	AA	C	2.88E-06	AA	C
Benzo(a)anthracene	2.30E-04	AA	C	2.13E+01	AA	C	8.75E+00	AA	C	8.17E+05 *	AA	C	6.20E+00	AA	C	4.40E+05 *	AA	C	2.52E+01 +	AA	C	1.87E+02 #	AA	C	1.74E-04	AA	C	1.03E-04	AA	C
Benzo(a)pyrene	2.30E-05	AA	C	2.13E+00	AA	C	8.75E-01	AA	C	8.17E+04 *	AA	C	6.20E-01	AA	C	1.78E+05 *	AA	C	1.35E+00 +	AA	C	2.95E+01 #	AA	C	1.02E-05	AA	C	2.00E-04	M	M
Benzo(b)fluoranthene	2.30E-04	AA	C	2.13E+01 *	AA	C	8.75E+00	AA	C	5.27E+03 *	AA	C	6.20E+00	AA	C	1.73E+05 *	AA	C	1.07E+02 +	AA	C	2.38E+01 #	AA	C	1.01E-04	AA	C	6.27E-05	AA	C
Benzo(g,h,i)perylene	6.27E-02	CH	NC	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	2.23E+08 *	CH	NC	1.72E+03 *	CH	NC	1.55E+08 *	CH	NC	9.49E+01 +	CH	NC	1.65E+04 #	CH	NC	3.79E-02 #	CH	NC	2.64E-02 #	CH	NC
Benzo(k)fluoranthene	2.30E-04	AA	C	2.13E+02 *	AA	C	8.75E+01 *	AA	C	8.17E+05 *	AA	C	6.20E+01 *	AA	C	3.80E+06 *	AA	C	1.75E+01 +	AA	C	5.22E+02 #	AA	C	1.04E-03 #	AA	C	6.46E-04	AA	C
Benzoic acid	8.36E+00	CH	NC	1.12E+06 *	CH	NC	3.13E+05 *	CH	NC	2.16E+06 *	CH	NC	2.20E+05 *	CH	NC	1.41E+06 *	CH	NC	6.21E+05 +	CH	NC	9.98E+06 #	CH	NC	1.98E+03	CH	NC	6.00E+01	CH	NC
Benzyl alcohol	6.27E-01	CH	NC	8.38E+04 *	CH	NC	2.35E+04 *	CH	NC	1.62E+05 *	CH	NC	1.65E+04 *	CH	NC	2.01E+05 *	CH	NC	1.54E+04 +	CH	NC	9.63E+05 #	CH	NC	4.59E+02	CH	NC	4.63E+00	CH	NC
1,1-Biphenyl	1.04E-01	CH	NC	NA	--	--	3.91E+03 *	CH	NC	2.70E+04 *	CH	NC	3.42E+03 *	CH	NC	1.43E+04 *	CH	NC	2.80E+04	CH	NC	1.70E+03 #	CH	NC	1.78E+00	CH	NC	1.46E-01	CH	NC
Bis(2-chloroethyl)ether	7.77E-05	AA	C	NA	--	--	5.81E+00	AA	C	5.46E+01	CH	C	5.49E+00	AA	C	3.50E+00	AA	C	1.11E+01	AA	C	1.52E+01	AA	C	5.28E-02	AA	C	1.23E-04	AA	C
Bis(2-chloroisopropyl)ether	2.56E-03	AA	C	NA	--	--	9.13E+01	AA	C	1.80E+03 *	CH	C	8.88E+01	AA	C	4.59E+01	AA	C	4.37E+02	AA	C	9.66E+01	AA	C	1.45E-01	AA	C	3.23E-03	AA	C
Bis(chloromethyl)ether	4.13E-07	AA	C	NA	--	--	2.90E-02	AA	C	2.91E-01	CH	C	2.75E-02	AA	C	8.87E-04	AA	C	5.04E-02	AA	C	6.08E-03	AA	C	6.65E-04	AA	C	6.50E-07	AA	C
Bis(2-ethylhexyl)phthalate	6.41E-03	AA	C	1.45E+03	AA	C	4.56E+02	AA	C	2.28E+07 *	AA	C	3.47E+02	AA	C	2.22E+09 *	AA	C	1.03E+02 +	AA	C	2.49E+04 #	AA	C	7.52E-02	AA	C	6.00E-03	M	M
Bromochloromethane	2.98E-02	CH	NC	NA	--	--	3.13E+03	CH	NC	7.72E+03 *	CH	NC	2.23E+03	CH	NC	2.84E+01	CH	NC	3.37E+03	CH	NC	9.38E+01	CH	NC	4.87E+01	CH	NC	5.44E-02	CH	NC
Bromodichloromethane	6.93E-04	AA	C	NA	--	--	1.03E+02	AA	C	4.87E+02	CH	C	9.24E+01	AA	C	1.85E+00	AA	C	2.53E+02	AA	C	3.94E+00	AA	C	3.21E-01	AA	C	8.00E-02	M	M
Bromoform	2.33E-02	AA	C	2.56E+03 *	AA	C	8.09E+02	AA	C	1.08E+04 *	CH	NC	6.02E+02	AA	C	5.07E+02	AA	C	1.67E+04	AA	C	7.73E+02	AA	C	2.96E+00	AA	C	8.00E-02	M	M
Bromomethane	2.98E-03	CH	NC	NA	--	--	1.10E+02	CH	NC	7.72E+02	CH	NC	9.59E+01	CH	NC	4.01E-01	CH	NC	4.46E+02	CH	NC	1.81E+00	CH	NC	1.62E+00	CH	NC	4.67E-03	CH	NC
4-Bromophenyl phenyl ether	7.77E-06	AA	C	1.35E+00	AA	C	4.26E-01	AA	C	1.43E+01	AA	C	3.16E-01	AA	C	3.73E+01	AA	C	1.75E+00	AA	C	3.71E-01	AA	C	2.11E-05	AA	C	1.07E-05	AA	C
n-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	3.84E+02 *	CH	NC	1.22E+04 +	CH	NC	2.43E+01 #	CH	NC	5.36E-01	CH	NC	9.89E-02	CH	NC
sec-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	2.13E+02	CH	NC	1.22E+04 +	CH	NC	1.71E+01 #	CH	NC	7.27E-01	CH	NC	1.06E-01	CH	NC
tert-Butylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	3.26E+02	CH	NC	1.22E+04	CH	NC	2.62E+01	CH	NC	6.34E-01	CH	NC	1.03E-01	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
Butyl benzyl phthalate	4.18E-01	CH	NC	5.59E+04 *	CH	NC	1.56E+04 *	CH	NC	1.48E+09 *	CH	NC	1.22E+04 *	CH	NC	3.53E+08 *	CH	NC	5.28E+04 +	CH	NC	1.04E+06 #	CH	NC	4.19E+00 #	CH	NC	1.55E+00	CH	NC
Carbazole	4.49E-03	AA	C	1.01E+03 *	AA	C	3.19E+02 *	AA	C	2.47E+04 *	AA	C	2.40E+02 *	AA	C	1.92E+05 *	AA	C	5.90E+00 +	AA	C	9.52E+03 #	AA	C	1.83E-01	AA	C	2.64E-02	AA	C
Carbon disulfide	4.18E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.08E+05 *	CH	NC	7.29E+03 *	CH	NC	2.14E+01	CH	NC	4.39E+04	CH	NC	3.84E+01	CH	NC	2.08E+01	CH	NC	5.27E-01	CH	NC
Carbon tetrachloride	1.71E-03	AA	C	NA	--	--	4.91E+01	AA	C	1.20E+03 *	CH	C	4.81E+01	AA	C	2.64E-01	AA	C	2.39E+02	AA	C	2.08E-01	AA	C	4.69E-02	AA	C	5.00E-03	M	M
p-Chloroaniline	8.36E-03	CH	NC	1.12E+03	CH	NC	3.13E+02	CH	NC	2.67E+03	CH	NC	2.24E+02	CH	NC	6.03E+03 *	CH	NC	1.53E+02	CH	NC	1.14E+04 #	CH	NC	2.62E+00	CH	NC	6.06E-02	CH	NC
Chlorobenzene	3.55E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	9.19E+03 *	CH	NC	1.34E+03 *	CH	NC	5.17E+01	CH	NC	5.31E+03	CH	NC	3.68E+01	CH	NC	2.14E+00	CH	NC	5.58E-02	CH	NC
Chloroethane	3.09E-02	AA	C	NA	--	--	2.20E+03 *	AA	C	2.17E+04 *	CH	C	2.09E+03 *	AA	C	2.24E+00	AA	C	3.38E+03	AA	C	8.05E+00	AA	C	9.07E+00	AA	C	4.85E-02	AA	C
Chloroform	1.11E-03	AA	C	NA	--	--	2.06E+02	AA	C	7.83E+02	CH	C	1.80E+02	AA	C	3.10E-01	AA	C	1.17E+02	AA	C	8.14E-01	AA	C	5.78E-01	AA	C	8.00E-02	M	M
Chloromethane	1.42E-02	AA	C	NA	--	--	4.91E+02	AA	C	1.00E+04 *	CH	C	4.79E+02	AA	C	7.22E-01	AA	C	1.41E+03	AA	C	1.57E+00	AA	C	3.94E+00	AA	C	1.83E-02	AA	C
2-Chloronaphthalene	1.67E-01	CH	NC	NA	--	--	6.26E+03 *	CH	NC	4.32E+04 *	CH	NC	5.47E+03 *	CH	NC	5.36E+04 *	CH	NC	7.16E+04 +	CH	NC	5.59E+03 #	CH	NC	2.71E+00	CH	NC	2.33E-01	CH	NC
2-Chlorophenol	1.04E-02	CH	NC	NA	--	--	3.91E+02	CH	NC	2.70E+03	CH	NC	3.42E+02	CH	NC	3.49E+02	CH	NC	2.26E+03	CH	NC	1.44E+02	CH	NC	1.69E+00	CH	NC	1.63E-02	CH	NC
4-Chlorophenyl phenyl ether	7.77E-06	AA	C	1.35E+00	AA	C	4.26E-01	AA	C	9.19E+00	CH	C	3.14E-01	AA	C	1.04E+01	AA	C	1.72E+00	AA	C	1.35E-01	AA	C	2.07E-05	AA	C	1.06E-05	AA	C
2-Chlorotoluene	4.18E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	1.08E+04 *	CH	NC	1.37E+03 *	CH	NC	1.26E+02	CH	NC	6.50E+03 +	CH	NC	5.06E+01	CH	NC	1.38E+00	CH	NC	6.19E-02	CH	NC
4-Chlorotoluene	1.55E-04	CH	NC	NA	--	--	1.56E+03 *	CH	NC	4.02E+01	CH	NC	3.92E+01	CH	NC	5.89E-01	CH	NC	2.51E+01	CH	NC	1.97E-01	CH	NC	1.17E+00	CH	NC	3.10E-04	CH	NC
Chrysene	2.30E-03	AA	C	2.13E+03 *	AA	C	8.75E+02 *	AA	C	3.10E+04 *	AA	C	6.08E+02 *	AA	C	5.95E+05 *	AA	C	9.67E+02 +	AA	C	2.53E+02 #	AA	C	1.74E-02 #	AA	C	1.03E-02 #	AA	C
Dibenzo(a,h)anthracene	2.19E-05	AA	C	2.13E+00	AA	C	8.75E-01	AA	C	7.77E+04 *	AA	C	6.20E-01	AA	C	1.42E+06 *	AA	C	3.76E-02 +	AA	C	6.31E+01 #	AA	C	6.60E-06	AA	C	4.21E-06	AA	C
Dibenzofuran	4.18E-03	CH	NC	NA	--	--	1.56E+02	CH	NC	1.54E+03 *	CH	NC	1.42E+02	CH	NC	4.00E+03 *	CH	NC	7.49E+02 +	CH	NC	8.71E+01 #	CH	NC	5.47E-02	CH	NC	5.67E-03	CH	NC
Dibromochloromethane	9.49E-04	AA	C	2.41E+02	AA	C	7.60E+01	AA	C	6.67E+02	CH	C	5.52E+01	AA	C	8.52E+00	AA	C	5.23E+02	AA	C	1.65E+01	AA	C	2.55E-01	AA	C	8.00E-02	M	M
1,2-Dibromo-3-chloropropane	6.41E-05	AA	C	1.45E+01	AA	C	4.46E+00	CH	NC	3.61E+01	CH	NC	3.18E+00	CH	NC	4.15E+01	AA	C	8.09E+02	AA	C	1.36E+02	AA	C	9.82E-03	AA	C	2.00E-04	M	M
Dibutyl phthalate	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	7.42E+08 *	CH	NC	6.11E+03 *	CH	NC	8.11E+07 *	CH	NC	1.53E+01 +	CH	NC	4.04E+05 #	CH	NC	4.76E+00	CH	NC	1.08E+00	CH	NC
1,2-Dichlorobenzene	1.19E-01	CH	NC	NA	--	--	7.04E+03 *	CH	NC	3.08E+04 *	CH	NC	5.73E+03 *	CH	NC	9.31E+02 *	CH	NC	1.88E+04 +	CH	NC	2.51E+02 #	CH	NC	5.26E+00	CH	NC	6.00E-01	M	M
1,3-Dichlorobenzene	6.27E-02	CH	NC	NA	--	--	2.35E+03 *	CH	NC	1.62E+04 *	CH	NC	2.05E+03 *	CH	NC	4.92E+02	CH	NC	9.91E+03	CH	NC	1.32E+02	CH	NC	1.24E+00	CH	NC	8.93E-02	CH	NC
1,4-Dichlorobenzene	4.08E-03	AA	C	NA	--	--	1.18E+03 *	AA	C	2.87E+03 *	CH	C	9.66E+02 *	AA	C	2.50E+01	AA	C	6.45E+02	AA	C	6.75E+00	AA	C	4.49E-01	AA	C	7.50E-02	M	M
3,3-Dichlorobenzidine	7.48E-05	AA	C	4.50E+01 *	AA	C	1.42E+01 *	AA	C	2.65E+05 *	AA	C	1.08E+01	AA	C	7.37E+02 *	AA	C	2.70E-02 +	AA	C	1.67E+02 #	AA	C	8.78E-03	AA	C	1.19E-03	AA	C
Dichlorodifluoromethane	1.19E-01	CH	NC	NA	--	--	1.56E+04 *	CH	NC	3.08E+04 *	CH	NC	1.04E+04 *	CH	NC	4.43E+00	CH	NC	1.63E+04	CH	NC	4.33E+00	CH	NC	6.31E+01	CH	NC	2.20E-01	CH	NC
1,1-Dichloroethane	1.60E-02	AA	C	NA	--	--	1.12E+03	AA	C	7.57E+03 *	CH	NC	1.06E+03	AA	C	3.77E+00	AA	C	2.36E+03	AA	C	1.08E+01	AA	C	3.53E+00	AA	C	2.49E-02	AA	C
1,1-Dichloroethylene	1.19E-01	CH	NC	NA	--	--	3.91E+03 *	CH	NC	3.09E+04 *	CH	NC	3.47E+03 *	CH	NC	8.90E+00	CH	NC	1.45E+04	CH	NC	1.47E+01	CH	NC	1.34E+01	CH	NC	7.00E-03	M	M
cis-1,2-Dichloroethylene	2.09E-02	CH	NC	NA	--	--	7.82E+02	CH	NC	5.41E+03 *	CH	NC	6.83E+02	CH	NC	7.01E+00	CH	NC	3.10E+03	CH	NC	1.94E+01	CH	NC	4.22E+00	CH	NC	7.00E-02	M	M
trans-1,2-Dichloroethylene	4.18E-02	CH	NC	NA	--	--	1.56E+03	CH	NC	1.08E+04 *	CH	NC	1.37E+03	CH	NC	8.62E+00	CH	NC	6.45E+03	CH	NC	1.78E+01	CH	NC	6.14E+00	CH	NC	1.00E-01	M	M
2,4-Dichlorophenol	6.27E-03	CH	NC	8.38E+02	CH	NC	2.35E+02	CH	NC	2.38E+03	CH	NC	1.70E+02	CH	NC	6.38E+03 *	CH	NC	8.09E+02 +	CH	NC	6.33E+03 #	CH	NC	3.09E-01	CH	NC	3.89E-02	CH	NC
1,2-Dichloropropane	2.39E-03	CH	NC	NA	--	--	8.60E+01	CH	NC	6.18E+02	CH	NC	7.55E+01	CH	NC	1.22E+00	CH	NC	3.33E+02	CH	NC	3.04E+00	CH	NC	4.21E-01	CH	NC	5.00E-03	M	M
1,3-Dichloropropene	6.41E-03	AA	C	NA	--	--	6.39E+01	AA	C	3.09E+03 *	CH	NC	6.34E+01	AA	C	8.09E-01	AA	C	1.12E+03	AA	C	1.66E+00	AA	C	2.99E-01	AA	C	4.31E-03	AA	C
Di(2-ethylhexyl)adipate	7.48E-02	AA	C	1.69E+04 *	AA	C	5.32E+03 *	AA	C	6.45E+04 *	CH	C	3.88E+03 *	AA	C	5.34E+04 *	AA	C	2.29E+04 +	AA	C	2.54E+01 #	AA	C	6.69E-01 #	AA	C	4.00E-01 #	M	M
Diethyl phthalate	1.67E+00	CH	NC	2.23E+05 *	CH	NC	6.26E+04 *	CH	NC	5.93E+09 *	CH	NC	4.89E+04 *	CH	NC	6.60E+06 *	CH	NC	6.52E+04 +	CH	NC	3.58E+06 #	CH	NC	3.03E+02	CH	NC	1.19E+01	CH	NC
Diisopropyl ether (DIPE)	2.30E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	5.95E+04 *	CH	NC	6.91E+03 *	CH	NC	1.25E+02	CH	NC	3.68E+04	CH	NC	2.38E+02	CH	NC	3.48E+01	CH	NC	3.51E-01	CH	NC
2,4-Dimethylphenol	4.18E-02	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	1.83E+04 *	CH	NC	1.15E+03	CH	NC	5.68E+04 *	CH	NC	3.34E+03 +	CH	NC	4.13E+04 #	CH	NC	5.12E+00	CH	NC	2.89E-01	CH	NC
2,6-Dimethylphenol	1.25E-03	CH	NC	1.68E+02	CH	NC	4.69E+01	CH	NC	1.03E+03	CH	NC	3.54E+01	CH	NC	5.97E+03	CH	NC	1.67E+02	CH	NC	6.21E+02	CH	NC	NA	--	--	9.39E-03	CH	NC
Dimethyl phthalate	2.09E+01	CH	NC	2.79E+06 *	CH	NC	7.82E+05 *	CH	NC	7.23E+06 *	CH	NC	5.63E+05 *	CH	NC	1.77E+07 *	CH	NC	2.01E+05 +	CH	NC	4.72E+07 #	CH	NC	1.26E+04 #	CH	NC	1.54E+02	CH	NC
1,3-Dinitrobenzene	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	7.26E+01 *	CH	NC	5.64E+00	CH	NC	1.79E+02 *	CH	NC	3.53E+00 +	CH	NC	2.33E+02 #	CH	NC	9.96E-02	CH	NC	1.53E-03	CH	NC
2,4-Dinitrophenol	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02	CH	NC	1.08E+03 *	CH	NC	1.10E+02	CH	NC	8.89E+02 *	CH	NC	1.15E+02 +	CH	NC	6.43E+03 #	CH	NC	2.52E+00	CH	NC	3.08E-02	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
2,4-Dinitrotoluene	2.89E-04	AA	C	6.53E+01	AA	C	2.06E+01	AA	C	3.37E+02 *	CH	C	1.50E+01	AA	C	3.77E+02 *	AA	C	2.01E+00 +	AA	C	5.35E+02 #	AA	C	8.45E-02	AA	C	2.09E-03	AA	C
2,6-Dinitrotoluene	1.32E-04	AA	C	2.98E+01	AA	C	9.39E+00	AA	C	1.31E+02 *	CH	C	6.85E+00	AA	C	1.26E+02 *	AA	C	6.93E+00 +	AA	C	2.29E+02 #	AA	C	5.69E-02	AA	C	9.64E-04	AA	C
4-Amino-2,6-dinitrotoluene	5.97E-05	CH	NC	4.75E+01	CH	NC	1.33E+01	CH	NC	4.85E+01	CH	NC	8.56E+00	CH	NC	2.80E+02 *	CH	NC	2.10E-02 +	CH	NC	1.22E+02 #	CH	NC	4.58E-02	CH	NC	2.47E-03	CH	NC
2-Amino-4,6-dinitrotoluene	5.97E-05	CH	NC	4.75E+01	CH	NC	1.33E+01	CH	NC	5.98E+01	CH	NC	8.85E+00	CH	NC	4.26E+02 *	CH	NC	1.44E-02 +	CH	NC	1.23E+02 #	CH	NC	3.49E-02	CH	NC	2.41E-03	CH	NC
Di-n-octylphthalate	8.36E-02	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	5.95E+04 *	CH	NC	2.35E+03 *	CH	NC	3.00E+05 *	CH	NC	5.68E+04 +	CH	NC	2.10E+04 #	CH	NC	4.37E-01 #	CH	NC	2.13E-01 #	CH	NC
1,4-Dioxane	3.33E-03	AA	C	1.84E+03	AA	C	5.81E+02	AA	C	2.34E+03	CH	C	4.00E+02	AA	C	1.67E+02	AA	C	1.36E+02	AA	C	7.00E+02	AA	C	3.93E+01	AA	C	6.10E-02	AA	C
Diphenylamine	5.97E-03	CH	NC	6.98E+03 *	CH	NC	1.96E+03 *	CH	NC	3.96E+03 *	CH	NC	1.10E+03 *	CH	NC	1.86E+04 *	CH	NC	6.91E+02 +	CH	NC	5.04E+03 #	CH	NC	2.01E+00	CH	NC	3.09E-01	CH	NC
1,2-Diphenylhydrazine	1.16E-04	AA	C	2.53E+01	AA	C	7.98E+00	AA	C	3.19E+02	AA	C	5.96E+00	AA	C	1.24E+03	AA	C	4.29E-02	AA	C	3.06E+02	AA	C	7.70E-03	AA	C	7.22E-04	AA	C
Ethanol	1.13E+00	CH	NC	NA	--	--	2.58E+06 *	CH	NC	2.92E+05 *	CH	NC	2.62E+05 *	CH	NC	4.44E+04 *	CH	NC	8.35E+04	CH	NC	3.06E+05 #	CH	NC	2.48E+05	CH	NC	5.15E+02	CH	NC
Ethylbenzene	6.06E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	7.45E+03 *	CH	NC	6.46E+02 *	CH	NC	8.82E+04 +	CH	NC	2.92E+02 #	CH	NC	6.34E+00	CH	NC	7.00E-01	M	M
Ethylene dibromide (EDB)	4.27E-05	AA	C	NA	--	--	3.19E+00	AA	C	3.00E+01	CH	C	3.02E+00	AA	C	3.35E-01	AA	C	2.10E+01	AA	C	7.29E-01	AA	C	1.41E-02	AA	C	5.00E-05	M	M
Ethylene dichloride (EDC)	9.86E-04	AA	C	NA	--	--	7.02E+01	AA	C	6.93E+02	CH	C	6.65E+01	AA	C	6.46E-01	AA	C	1.03E+02	AA	C	2.66E+00	AA	C	3.53E-01	AA	C	5.00E-03	M	M
Ethylene glycol	2.38E-01	CH	NC	5.59E+05 *	CH	NC	1.56E+05	CH	NC	6.16E+04	CH	NC	4.10E+04	CH	NC	4.60E+04	CH	NC	6.90E+02 +	CH	NC	2.84E+05	CH	NC	6.62E+04	CH	NC	3.13E+01	CH	NC
Ethylene thiourea	1.67E-04	CH	NC	2.23E+01	CH	NC	6.26E+00	CH	NC	4.32E+01	CH	NC	4.39E+00	CH	NC	5.11E+01	CH	NC	3.23E-03	CH	NC	2.59E+02	CH	NC	1.51E+00	CH	NC	1.25E-03	CH	NC
Ethyl-tert-butyl-ether (ETBE)	1.80E-01	CH	NC	NA	--	--	7.82E+01	CH	NC	4.65E+04 *	CH	NC	7.81E+01	CH	NC	1.07E+02	CH	NC	2.82E+04	CH	NC	2.95E+02	CH	NC	5.00E-01	CH	NC	1.44E-02	CH	NC
Fluoranthene	8.36E-02	CH	NC	8.59E+03 *	CH	NC	3.13E+03 *	CH	NC	5.29E+05 *	CH	NC	2.28E+03 *	CH	NC	2.38E+07 *	CH	NC	2.45E+04 +	CH	NC	3.76E+04 #	CH	NC	3.00E-01 #	CH	NC	1.64E-01	CH	NC
Fluorene	8.36E-02	CH	NC	8.59E+03 *	CH	NC	3.13E+03 *	CH	NC	9.43E+04 *	CH	NC	2.24E+03 *	CH	NC	7.53E+05 *	CH	NC	2.37E+04 +	CH	NC	9.21E+03 #	CH	NC	6.27E-01	CH	NC	1.03E-01	CH	NC
Formaldehyde	1.79E-03	CH	NC	4.45E+02	AA	C	1.41E+02	AA	C	4.63E+02	CH	NC	1.03E+02	AA	C	1.73E+02	CH	NC	1.57E+01	CH	NC	1.15E+03	CH	NC	2.21E+00	AA	C	1.47E-02	AA	C
n-Hexane	4.18E-01	CH	NC	NA	--	--	8.60E+05 *	CH	NC	1.08E+05 *	CH	NC	9.61E+04 *	CH	NC	5.19E+00	CH	NC	2.28E+04	CH	NC	3.39E-01	CH	NC	4.99E+02 #	CH	NC	8.30E-01	CH	NC
Hexachlorobenzene	5.59E-05	AA	C	1.26E+01	AA	C	3.99E+00	AA	C	6.32E+01	CH	C	2.91E+00	AA	C	6.86E+01	AA	C	1.12E+01 +	AA	C	2.15E-01	AA	C	2.23E-04	AA	C	1.00E-03	M	M
Hexachlorobutadiene	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	1.62E+02	CH	NC	1.65E+01	CH	NC	1.18E+02	CH	NC	1.22E+02	CH	NC	3.90E-01	CH	NC	4.73E-03	CH	NC	2.00E-03	CH	NC
Hexachlorocyclopentadiene	1.19E-04	CH	NC	1.68E+03	CH	NC	4.69E+02	CH	NC	3.84E+01	CH	NC	3.48E+01	CH	NC	8.77E+01	CH	NC	8.09E+01	CH	NC	7.78E-02	CH	NC	1.28E-01	CH	NC	5.00E-02	M	M
Hexachloroethane	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	5.41E+02	CH	NC	5.49E+01	CH	NC	6.13E+02 *	CH	NC	9.01E+03 +	CH	NC	5.74E+01 #	CH	NC	4.48E-02	CH	NC	1.06E-02	CH	NC
Hexachlorophene	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	8.76E+05 *	CH	NC	6.53E-04 +	CH	NC	2.91E+04 #	CH	NC	8.78E-04	CH	NC	5.70E-04	CH	NC
HMX	1.61E-03	CH	NC	1.40E+04 *	CH	NC	3.91E+03 *	CH	NC	5.72E+06 *	CH	NC	3.05E+03 *	CH	NC	1.38E+03 *	CH	NC	1.35E-01 +	CH	NC	3.85E+03 #	CH	NC	1.02E+04 #	CH	NC	7.82E-01	CH	NC
Indeno(1,2,3-cd)pyrene	2.30E-04	AA	C	1.30E+01 *	AA	C	5.32E+00 *	AA	C	8.17E+05 *	AA	C	3.77E+00 *	AA	C	9.63E+06 *	AA	C	3.04E+01 +	AA	C	4.69E+02 #	AA	C	6.14E-05 #	AA	C	3.82E-05 #	AA	C
Isophorone	9.44E-02	AA	C	2.13E+04 *	AA	C	6.72E+03 *	AA	C	6.64E+04 *	CH	C	4.91E+03	AA	C	1.98E+04 *	AA	C	1.28E+04 +	AA	C	4.76E+04 #	AA	C	3.34E+01	AA	C	6.86E-01	AA	C
Isopropylbenzene (Cumene)	2.39E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	6.18E+04 *	CH	NC	6.94E+03 *	CH	NC	3.32E+01	CH	NC	3.48E+04 +	CH	NC	1.06E+01	CH	NC	4.51E+00	CH	NC	3.30E-01	CH	NC
4-Isopropyltoluene	6.27E-01	CH	NC	NA	--	--	2.35E+04 *	CH	NC	1.62E+05 *	CH	NC	2.05E+04 *	CH	NC	3.58E+03 *	CH	NC	1.20E+05 +	CH	NC	2.75E+02 #	CH	NC	5.19E+00	CH	NC	7.86E-01	CH	NC
Maleic anhydride	4.18E-04	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.08E+02	CH	NC	1.06E+02	CH	NC	5.71E+01	CH	NC	3.13E+01 +	CH	NC	1.97E+02	CH	NC	6.12E+01	CH	NC	1.51E+00	CH	NC
Methanol	2.30E+00	CH	NC	NA	--	--	3.91E+04	CH	NC	5.95E+05 *	CH	NC	3.67E+04	CH	NC	1.21E+05	CH	NC	1.17E+05	CH	NC	6.33E+05	CH	NC	6.63E+03	CH	NC	7.81E+00	CH	NC
Methyl butyl ketone	2.39E-03	CH	NC	NA	--	--	4.69E+03 *	CH	NC	6.18E+02	CH	NC	5.46E+02	CH	NC	2.68E+01	CH	NC	3.65E+02	CH	NC	1.10E+02	CH	NC	4.59E+01	CH	NC	4.75E-03	CH	NC
Methyl ethyl ketone	2.98E+00	CH	NC	NA	--	--	4.69E+04 *	CH	NC	7.72E+05 *	CH	NC	4.42E+04 *	CH	NC	2.52E+04	CH	NC	3.52E+05	CH	NC	1.53E+05	CH	NC	2.27E+03	CH	NC	3.64E+00	CH	NC
2-Methyl-4,6-dinitrophenol	1.79E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	4.63E+01	CH	NC	5.40E+00	CH	NC	5.13E+01	CH	NC	3.91E-02	CH	NC	3.71E+02	CH	NC	5.56E-02	CH	NC	1.51E-03	CH	NC
Methylene chloride	5.45E-02	AA	C	NA	--	--	8.52E+02	AA	C	3.83E+04 *	CH	C	8.42E+02	AA	C	1.47E+01	AA	C	5.89E+03	AA	C	6.83E+01	AA	C	5.54E+00	AA	C	5.00E-03	M	M
Methyl iodide	7.16E-03	CH	NC	NA	--	--	1.10E+02	CH	NC	1.85E+03	CH	NC	1.03E+02	CH	NC	3.98E+00	CH	NC	7.67E+02	CH	NC	3.76E+00	CH	NC	1.39E+00	CH	NC	8.59E-03	CH	NC
Methyl isobutyl ketone	1.79E+00	CH	NC	NA	--	--	6.26E+03	CH	NC	4.63E+05 *	CH	NC	6.17E+03	CH	NC	4.30E+04 *	CH	NC	2.57E+05	CH	NC	4.62E+04 #	CH	NC	9.34E+01	CH	NC	9.15E-01	CH	NC
2-Methylnaphthalene	8.36E-03	CH	NC	NA	--	--	3.13E+02	CH	NC	2.16E+03 *	CH	NC	2.73E+02	CH	NC	2.03E+03 *	CH	NC	1.44E+03 +	CH	NC	7.97E+01 #	CH	NC	1.41E-01	CH	NC	1.17E-02	CH	NC
2-Methylphenol	1.04E-01	CH	NC	1.40E+04	CH	NC	3.91E+03	CH	NC	3.44E+04 *	CH	NC	2.81E+03	CH	NC	8.02E+04 *	CH	NC	5.74E+03 +	CH	NC	1.18E+05 #	CH	NC	2.00E+01	CH	NC	7.43E-01	CH	NC
3-Methylphenol	1.04E-01	CH	NC	1.40E+04 *	CH	NC	3.91E+03	CH	NC	2.70E+04 *	CH	NC	2.74E+03	CH	NC	3.96E+04 *	CH	NC	4.04E+03 +	CH	NC	1.15E+05 #	CH	NC	1.98E+01	CH	NC	7.42E-01	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
4-Methylphenol	1.04E-02	CH	NC	1.40E+03	CH	NC	3.91E+02	CH	NC	2.70E+03	CH	NC	2.74E+02	CH	NC	4.75E+03	CH	NC	4.49E+02	CH	NC	1.11E+04	CH	NC	2.00E+00	CH	NC	7.43E-02	CH	NC
Methyl teriary butyl ether (MTBE)	9.86E-02	AA	C	NA	--	--	3.55E+03	AA	C	6.93E+04 *	CH	C	3.45E+03	AA	C	1.17E+02	AA	C	1.34E+04	AA	C	5.69E+02	AA	C	2.35E+01	AA	C	1.28E-01	AA	C
Methyl-2,4,6-trinitrophenylnitramine	5.97E-05	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	2.12E+05 *	CH	NC	6.09E+02 *	CH	NC	1.32E+03 *	CH	NC	7.12E-05 +	CH	NC	8.58E+02 #	CH	NC	1.19E+01	CH	NC	1.54E-01	CH	NC
Naphthalene	7.48E-04	AA	C	1.30E+02	AA	C	5.32E+01	AA	C	4.65E+02 *	CH	NC	3.63E+01	AA	C	8.45E+01	AA	C	1.38E+02	AA	C	7.10E+00	AA	C	2.06E-02	AA	C	1.09E-03	AA	C
2-Nitroaniline	6.27E-05	CH	NC	8.38E+02 *	CH	NC	2.35E+02	CH	NC	1.67E+01	CH	NC	1.53E+01	CH	NC	3.15E+01	CH	NC	2.17E+00	CH	NC	1.06E+02	CH	NC	1.33E+00	CH	NC	4.48E-02	CH	NC
3-Nitroaniline	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	1.89E+02 *	CH	NC	1.67E+01	CH	NC	4.06E+02 *	CH	NC	2.49E-01 +	CH	NC	1.09E+03 #	CH	NC	2.45E-01	CH	NC	4.57E-03	CH	NC
4-Nitroaniline	2.09E-03	CH	NC	8.38E+02 *	CH	NC	2.35E+02 *	CH	NC	5.41E+02 *	CH	NC	1.37E+02 *	CH	NC	7.58E+02 *	CH	NC	1.22E-01 +	CH	NC	3.71E+03 #	CH	NC	3.81E+00	AA	C	3.16E-02	AA	C
Nitrobenzene	1.19E-03	CH	NC	NA	--	--	3.91E+01	CH	NC	3.08E+02	CH	NC	3.47E+01	CH	NC	8.46E+01	CH	NC	1.58E+02	CH	NC	1.63E+02	CH	NC	2.78E-01	CH	NC	1.81E-03	CH	NC
Nitroglycerin	1.46E-04	CH	NC	1.96E+01	CH	NC	5.48E+00	CH	NC	5.19E+05 *	CH	NC	4.28E+00	CH	NC	1.98E+02	CH	NC	9.68E-01	CH	NC	2.89E+02	CH	NC	5.87E-02	CH	NC	1.07E-03	CH	NC
2-Nitrophenol	2.39E-03	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	6.18E+02	CH	NC	1.02E+02	CH	NC	8.90E+02	CH	NC	7.41E+01	CH	NC	3.40E+03	CH	NC	1.26E+00	CH	NC	3.03E-02	CH	NC
4-Nitrophenol	5.97E-04	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	1.54E+02	CH	NC	6.82E+01	CH	NC	1.65E+02	CH	NC	3.36E-02	CH	NC	1.05E+03	CH	NC	1.05E+00	CH	NC	3.01E-02	CH	NC
n-Nitrosodimethylamine	1.84E-06	AA	C	3.97E-01	AA	C	1.25E-01	AA	C	1.29E+00	CH	C	9.15E-02	AA	C	2.47E-01	AA	C	8.71E-02	AA	C	1.18E+00	AA	C	1.20E-02	AA	C	1.32E-05	AA	C
n-Nitrosodi-n-propylamine	1.28E-05	AA	C	2.89E+00	AA	C	9.13E-01	AA	C	9.01E+00	CH	C	6.66E-01	AA	C	3.27E+00	AA	C	1.18E+00	AA	C	1.27E+01	AA	C	7.05E-03	AA	C	9.41E-05	AA	C
n-Nitrosodiphenylamine	9.97E-03	AA	C	4.13E+03 *	AA	C	1.30E+03 *	AA	C	2.33E+04 *	AA	C	9.50E+02 *	AA	C	7.74E+04 *	AA	C	2.01E+03 +	AA	C	9.95E+03 #	AA	C	9.96E-01	AA	C	1.14E-01	AA	C
n-Nitrosopyrrolidine	4.20E-05	AA	C	9.63E+00	AA	C	3.04E+00	AA	C	2.95E+01	CH	C	2.22E+00	AA	C	1.11E+01	AA	C	5.76E-02	AA	C	7.80E+01	AA	C	1.03E-01	AA	C	3.19E-04	AA	C
2-Nitrotoluene	3.90E-04	AA	C	NA	--	--	2.78E+01	AA	C	2.74E+02	CH	C	2.63E+01	AA	C	3.30E+01	AA	C	6.29E+01	AA	C	3.40E+01	AA	C	4.89E-02	AA	C	6.04E-04	AA	C
3-Nitrotoluene	4.18E-02	CH	NC	NA	--	--	1.56E+03 *	CH	NC	1.08E+04 *	CH	NC	1.37E+03 *	CH	NC	3.00E+03 *	CH	NC	6.84E+03 +	CH	NC	3.09E+03 #	CH	NC	5.29E+00	CH	NC	6.49E-02	CH	NC
4-Nitrotoluene	5.28E-03	AA	C	NA	--	--	3.76E+02	AA	C	3.71E+03 *	CH	C	3.56E+02	AA	C	3.73E+02	AA	C	8.67E+02	AA	C	3.85E+02	AA	C	6.61E-01	AA	C	8.18E-03	AA	C
Pentachlorobenzene	1.67E-03	CH	NC	2.23E+02	CH	NC	6.26E+01	CH	NC	7.27E+02 *	CH	NC	4.58E+01	CH	NC	2.24E+03 *	CH	NC	2.72E+02 +	CH	NC	9.59E+00 #	CH	NC	6.03E-03	CH	NC	3.28E-03	CH	NC
Pentachloronitrobenzene	3.45E-04	AA	C	7.78E+01	AA	C	2.46E+01	AA	C	1.61E+03 *	AA	C	1.85E+01	AA	C	1.06E+04 *	AA	C	2.18E+02 +	AA	C	6.74E+01 #	AA	C	3.98E-03	AA	C	1.31E-03	AA	C
Pentachlorophenol	4.98E-03	AA	C	6.74E+01	AA	C	5.32E+01	AA	C	1.77E+07 *	AA	C	2.97E+01	AA	C	4.41E+04 *	AA	C	1.19E+01 +	AA	C	1.21E+04 #	AA	C	1.12E-03	AA	C	1.00E-03	M	M
Pentaerythritol tetranitrate	8.36E-01	CH	NC	1.12E+05 *	CH	NC	3.13E+04 *	CH	NC	2.97E+09 *	CH	NC	2.44E+04 *	CH	NC	4.87E+07 *	CH	NC	7.21E+04 +	CH	NC	1.30E+06 #	CH	NC	3.58E+01 #	CH	NC	5.06E+00	CH	NC
Phenanthrene	6.27E-02	CH	NC	NA	--	--	2.35E+03 *	CH	NC	5.27E+04 *	CH	NC	2.25E+03 *	CH	NC	3.13E+05 *	CH	NC	1.99E+04 +	CH	NC	3.75E+03 #	CH	NC	4.20E-01	CH	NC	7.50E-02	CH	NC
Phenol	1.19E-01	CH	NC	8.38E+04 *	CH	NC	2.35E+04	CH	NC	3.09E+04 *	CH	NC	1.15E+04	CH	NC	5.06E+04 *	CH	NC	2.63E+03 +	CH	NC	1.64E+05 #	CH	NC	2.27E+02	CH	NC	4.57E+00	CH	NC
m-Phenylenediamine	1.25E-02	CH	NC	1.68E+03	CH	NC	4.69E+02	CH	NC	3.24E+03	CH	NC	3.29E+02	CH	NC	3.21E+03	CH	NC	8.57E-02	CH	NC	2.22E+04	CH	NC	8.58E+01	CH	NC	9.37E-02	CH	NC
Polychlorinated biphenyls (PCBs)	2.56E-04	AA	C	7.23E+00	AA	C	3.19E+00	AA	C	8.79E+02 *	AA	C	2.21E+00	AA	C	4.28E+03 *	AA	C	2.68E+01 +	AA	C	2.35E+00 #	AA	C	6.34E-05	AA	C	5.00E-04	M	M
n-Propylbenzene	8.36E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	2.16E+04 *	CH	NC	2.73E+03 *	CH	NC	1.31E+02	CH	NC	1.22E+04	CH	NC	3.03E+01	CH	NC	1.18E+00	CH	NC	1.15E-01	CH	NC
Pyrene	6.27E-02	CH	NC	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	4.65E+05 *	CH	NC	1.71E+03 *	CH	NC	2.45E+07 *	CH	NC	1.75E+04 +	CH	NC	3.94E+04 #	CH	NC	1.64E-01 #	CH	NC	9.61E-02	CH	NC
RDX	8.16E-04	AA	C	1.84E+02	AA	C	5.81E+01	AA	C	8.98E+02 *	CH	C	4.24E+01	AA	C	9.48E+02 *	AA	C	4.18E+00 +	AA	C	1.85E+03 #	AA	C	1.26E+00	AA	C	6.07E-03	AA	C
Styrene	5.97E-01	CH	NC	NA	--	--	1.56E+04 *	CH	NC	1.54E+05 *	CH	NC	1.42E+04 *	CH	NC	3.92E+03 *	CH	NC	9.17E+04 +	CH	NC	8.51E+02 #	CH	NC	1.67E+01	CH	NC	1.00E-01	M	M
1,1,1,2-Tetrachloroethane	3.46E-03	AA	C	NA	--	--	2.46E+02	AA	C	2.44E+03 *	CH	C	2.33E+02	AA	C	3.38E+00	AA	C	5.32E+02	AA	C	5.60E+00	AA	C	2.22E-01	AA	C	5.27E-03	AA	C
1,1,2,2-Tetrachloroethane	4.42E-04	AA	C	NA	--	--	3.19E+01	AA	C	3.11E+02	CH	C	3.02E+01	AA	C	3.35E+00	AA	C	6.76E+01	AA	C	4.87E+00	AA	C	6.45E-02	AA	C	6.89E-04	AA	C
1,2,4,5-Tetrachlorobenzene	6.27E-04	CH	NC	8.38E+01 *	CH	NC	2.35E+01 *	CH	NC	1.62E+02 *	CH	NC	1.65E+01 *	CH	NC	6.30E+01 *	CH	NC	3.22E+02 +	CH	NC	6.59E+00 #	CH	NC	4.81E-03	CH	NC	2.02E-03	CH	NC
Tetrachloroethylene	4.27E-03	AA	C	NA	--	--	1.18E+01	AA	C	3.00E+03 *	CH	C	1.18E+01	AA	C	1.02E+00	AA	C	6.48E+02	AA	C	9.28E-01	AA	C	5.06E-03	AA	C	5.00E-03	M	M
Tetrahydrofuran	1.32E-02	AA	C	NA	--	--	8.40E+02	AA	C	9.28E+03	CH	C	8.01E+02	AA	C	7.23E+01	AA	C	1.43E+03	AA	C	5.02E+02	AA	C	1.26E+01	AA	C	2.03E-02	AA	C
Tertiary-amyl-methyl-ether (TAME)	4.80E-02	CH	NC	NA	--	--	3.13E+03 *	CH	NC	1.24E+04 *	CH	NC	2.50E+03 *	CH	NC	2.37E+01	CH	NC	7.50E+03	CH	NC	6.06E+01	CH	NC	1.86E+01	CH	NC	8.28E-02	CH	NC
Tertiary-butyl-alcohol (TBA)	1.80E-01	CH	NC	NA	--	--	7.04E+03	CH	NC	4.65E+04 *	CH	NC	6.11E+03	CH	NC	6.13E+03	CH	NC	2.01E+04	CH	NC	3.76E+04	CH	NC	1.52E+02	CH	NC	2.86E-01	CH	NC
Toluene	2.92E+00	CH	NC	NA	--	--	6.26E+03 *	CH	NC	7.57E+05 *	CH	NC	6.21E+03 *	CH	NC	1.72E+03 *	CH	NC	3.67E+05 +	CH	NC	1.44E+03 #	CH	NC	8.58E+00	CH	NC	1.00E+00	M	M
1,2,4-Trichlorobenzene	2.09E-03	CH	NC	NA	--	--	7.82E+02	CH	NC	5.41E+02	CH	NC	3.20E+02	CH	NC	1.41E+02	CH	NC	7.58E+02	CH	NC	1.34E+01	CH	NC	2.91E-01	CH	NC	7.00E-02	M	M
1,3,5-Trichlorobenzene	2.39E-02	CH	NC	NA	--	--	2.35E+02 *	CH	NC	6.18E+03 *	CH	NC	2.26E+02 *	CH	NC	2.04E+02 *	CH	NC	4.17E+03 +	CH	NC	4.83E+01 #	CH	NC	6.73E-02	CH	NC	1.60E-02	CH	NC

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
1,1,1-Trichloroethane	1.31E+00	CH	NC	NA	--	--	2.19E+04 *	CH	NC	3.40E+05 *	CH	NC	2.06E+04 *	CH	NC	2.37E+02	CH	NC	1.84E+05	CH	NC	2.81E+02	CH	NC	5.64E+01	CH	NC	2.00E-01	M	M
1,1,2-Trichloroethane	1.60E-03	AA	C	NA	--	--	1.12E+02	AA	C	1.13E+03	CH	C	1.06E+02	AA	C	2.67E+00	AA	C	2.24E+02	AA	C	6.15E+00	AA	C	3.05E-01	AA	C	5.00E-03	M	M
Trichloroethylene	1.28E-02	AA	C	NA	--	--	4.91E+02	AA	C	9.01E+03 *	CH	C	4.77E+02	AA	C	5.04E+00	AA	C	1.77E+03	AA	C	4.49E+00	AA	C	7.22E-01	AA	C	5.00E-03	M	M
Trichlorofluoromethane	4.18E-01	CH	NC	NA	--	--	2.35E+04 *	CH	NC	1.08E+05 *	CH	NC	1.93E+04 *	CH	NC	2.26E+01	CH	NC	5.24E+04	CH	NC	1.44E+01	CH	NC	5.89E+01	CH	NC	6.98E-01	CH	NC
2,4,5-Trichlorophenol	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03	CH	NC	2.52E+05 *	CH	NC	5.97E+03	CH	NC	2.15E+06 *	CH	NC	3.91E+04 +	CH	NC	2.23E+05 #	CH	NC	7.62E+00	CH	NC	1.22E+00	CH	NC
2,4,6-Trichlorophenol	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	1.05E+02	CH	NC	5.77E+00	CH	NC	3.75E+02	CH	NC	4.93E+01	CH	NC	1.57E+02	CH	NC	4.94E-03	CH	NC	1.10E-03	CH	NC
1,2,3-Trichloropropane	4.49E-05	AA	C	NA	--	--	3.19E+00	AA	C	3.15E+01	CH	C	3.03E+00	AA	C	2.19E-01	AA	C	6.86E+00	AA	C	4.98E-01	AA	C	4.81E-03	AA	C	6.93E-05	AA	C
1,1,2-Trichlorotrifluoroethane	1.80E+01	CH	NC	NA	--	--	2.35E+06 *	CH	NC	4.65E+06 *	CH	NC	1.56E+06 *	CH	NC	1.79E+03 *	CH	NC	6.81E+06 +	CH	NC	3.45E+02 #	CH	NC	3.72E+03 #	CH	NC	3.30E+01	CH	NC
1,2,4-Trimethylbenzene	3.58E-03	CH	NC	NA	--	--	3.91E+03 *	CH	NC	9.27E+02	CH	NC	7.49E+02	CH	NC	4.64E+01	CH	NC	5.21E+02	CH	NC	2.20E+00	CH	NC	1.66E+00	CH	NC	7.06E-03	CH	NC
1,3,5-Trimethylbenzene	3.58E-03	CH	NC	NA	--	--	3.91E+03 *	CH	NC	9.27E+02 *	CH	NC	7.49E+02 *	CH	NC	7.41E+00	CH	NC	5.21E+02	CH	NC	1.55E+00	CH	NC	1.54E+00	CH	NC	7.05E-03	CH	NC
1,3,5-Trinitrobenzene	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03 *	CH	NC	2.23E+08 *	CH	NC	1.83E+03 *	CH	NC	2.71E+04 *	CH	NC	1.63E+00 +	CH	NC	1.22E+05 #	CH	NC	5.29E+01	CH	NC	4.64E-01	CH	NC
2,4,6-Trinitrotoluene (TNT)	1.04E-03	CH	NC	1.40E+02	CH	NC	3.91E+01	CH	NC	3.71E+06 *	CH	NC	3.06E+01	CH	NC	3.87E+03 *	CH	NC	3.64E+01 +	CH	NC	1.97E+03 #	CH	NC	4.20E-01	CH	NC	7.63E-03	CH	NC
Vinyl chloride (for residential scenario)	2.91E-03	AA	C	NA	--	--	4.56E+00	AA	C	2.05E+03 *	CH	C	4.56E+00	AA	C	1.14E-01	AA	C	3.00E+02	AA	C	2.97E-01	AA	C	2.06E-02	AA	C	2.00E-03	M	M
Vinyl chloride (for occupational scenatio)	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--
Xylenes (total)	6.06E-02	CH	NC	NA	--	--	1.56E+04 *	CH	NC	1.57E+04 *	CH	NC	7.83E+03 *	CH	NC	8.25E+01	CH	NC	9.45E+03	CH	NC	3.35E+01	CH	NC	2.13E+01	CH	NC	1.00E+01	M	M
Pesticides																															
Acetochlor	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	1.48E+08 *	CH	NC	1.22E+03 *	CH	NC	1.34E+05 *	CH	NC	2.85E+02 +	CH	NC	1.01E+05 #	CH	NC	1.07E+01	CH	NC	3.01E-01	CH	NC
Acifluorfen	5.97E-03	CH	NC	3.63E+03	CH	NC	1.02E+03	CH	NC	2.12E+07 *	CH	NC	7.94E+02	CH	NC	5.89E+06 *	CH	NC	5.99E-03 +	CH	NC	7.20E+06 #	CH	NC	3.32E+02	CH	NC	2.03E-01	CH	NC
Acrolein	1.19E-05	CH	NC	NA	--	--	3.91E+01	CH	NC	3.09E+00	CH	NC	2.86E+00	CH	NC	6.35E-02	CH	NC	1.17E+00	CH	NC	2.42E-01	CH	NC	2.99E+00	CH	NC	2.38E-05	CH	NC
Alachlor	1.12E-03	AA	C	3.61E+02 *	AA	C	1.14E+02	AA	C	3.98E+06 *	AA	C	8.67E+01	AA	C	3.66E+03 *	AA	C	9.70E-01 +	AA	C	2.88E+03 #	AA	C	1.10E-01	AA	C	2.00E-03	M	M
Aldicarb	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	5.47E+02	CH	NC	5.50E+01	CH	NC	1.02E+03	CH	NC	2.55E-01	CH	NC	4.38E+03	CH	NC	1.73E+00	CH	NC	3.00E-03	M	M
Aldicarb sulfone	2.09E-03	CH	NC	2.79E+02	CH	NC	7.82E+01	CH	NC	7.42E+06 *	CH	NC	6.11E+01	CH	NC	8.44E+02	CH	NC	7.38E-01	CH	NC	5.41E+03	CH	NC	4.77E+01	CH	NC	3.00E-03	M	M
Aldrin	5.23E-06	AA	C	1.19E+00	AA	C	3.76E-01	AA	C	1.78E+02	AA	C	2.85E-01	AA	C	8.79E+03 *	AA	C	4.17E+00 +	AA	C	6.06E-01 #	AA	C	1.05E-03	AA	C	3.74E-05	AA	C
Ametryn	1.88E-02	CH	NC	2.51E+03 *	CH	NC	7.04E+02 *	CH	NC	6.68E+07 *	CH	NC	5.50E+02 *	CH	NC	1.21E+05 *	CH	NC	9.16E+00 +	CH	NC	4.95E+04 #	CH	NC	1.97E+00	CH	NC	1.28E-01	CH	NC
Atrazine	4.08E-04	AA	C	8.80E+01 *	AA	C	2.78E+01	AA	C	1.45E+06 *	AA	C	2.11E+01	AA	C	3.32E+03 *	AA	C	1.98E-01 +	AA	C	1.09E+03 #	AA	C	4.23E-02	AA	C	3.00E-03	M	M
Baygon	8.36E-03	CH	NC	1.12E+03	CH	NC	3.13E+02	CH	NC	2.97E+07 *	CH	NC	2.44E+02	CH	NC	1.57E+04 *	CH	NC	2.34E+02	CH	NC	1.44E+04 #	CH	NC	NA	--	--	6.26E-02	CH	NC
Butylate	1.04E-01	CH	NC	1.40E+04 *	CH	NC	3.91E+03 *	CH	NC	2.70E+04 *	CH	NC	2.74E+03 *	CH	NC	5.84E+03 *	CH	NC	2.28E+04 +	CH	NC	6.61E+03 #	CH	NC	2.33E+00	CH	NC	5.38E-01	CH	NC
Captan	3.90E-02	AA	C	8.80E+03 *	AA	C	2.78E+03 *	AA	C	1.39E+08 *	AA	C	2.11E+03 *	AA	C	6.28E+04 *	AA	C	1.39E+04 +	AA	C	4.79E+04 #	AA	C	1.37E+01 #	AA	C	2.83E-01	AA	C
Carbaryl	2.30E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	5.95E+04 *	CH	NC	5.54E+03 *	CH	NC	1.27E+03 *	CH	NC	9.00E+04 +	CH	NC	1.72E+03 #	CH	NC	4.13E+01	CH	NC	1.49E+00	CH	NC
Carbofuran	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	3.71E+07 *	CH	NC	3.06E+02 *	CH	NC	1.23E+04 *	CH	NC	3.63E+00 +	CH	NC	2.90E+04 #	CH	NC	2.53E+00	CH	NC	4.00E-02	M	M
Carboxin	2.09E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	5.41E+04 *	CH	NC	5.49E+03 *	CH	NC	3.09E+01	CH	NC	5.09E+04 +	CH	NC	4.85E+00	CH	NC	1.88E+01	CH	NC	1.41E+00	CH	NC
Chloramben	3.13E-02	CH	NC	4.19E+03 *	CH	NC	1.17E+03 *	CH	NC	1.11E+08 *	CH	NC	9.17E+02 *	CH	NC	6.83E+04 *	CH	NC	8.46E+02 +	CH	NC	5.41E+04 #	CH	NC	5.25E+00	CH	NC	2.21E-01	CH	NC
Chlordane (technical)	2.56E-04	AA	C	5.78E+01 *	AA	C	1.83E+01	AA	C	2.69E+03 *	CH	NC	1.38E+01	AA	C	7.53E+04 *	AA	C	2.08E+02 +	AA	C	1.06E+02 #	AA	C	5.37E-04	AA	C	3.02E-04	AA	C
Chlordane, gamma	2.56E-04	AA	C	1.45E+02 *	AA	C	1.83E+01	AA	C	2.13E+03 *	CH	NC	1.61E+01	AA	C	4.72E+04 *	AA	C	8.23E+01 +	AA	C	2.03E+01 #	AA	C	2.00E-03	AA	C	2.00E-03	M	M
Chlorothalonil	2.89E-02	AA	C	1.05E+04 *	CH	NC	1.17E+03 *	CH	NC	1.03E+08 *	AA	C	1.06E+03 *	CH	NC	1.24E+06 *	AA	C	2.92E+03 +	AA	C	3.61E+04 #	AA	C	8.92E-01 #	AA	C	1.59E-01	AA	C
Chlorpyrifos	6.27E-03	CH	NC	8.38E+02 *	CH	NC	2.35E+02 *	CH	NC	2.23E+07 *	CH	NC	1.83E+02 *	CH	NC	8.06E+04 *	CH	NC	8.56E+02 +	CH	NC	7.23E+03 #	CH	NC	1.06E-01	CH	NC	2.93E-02	CH	NC
Coumaphos	1.46E-02	CH	NC	1.96E+03 *	CH	NC	5.48E+02 *	CH	NC	5.19E+07 *	CH	NC	4.28E+02 *	CH	NC	4.31E+06 *	CH	NC	9.76E+00 +	CH	NC	4.55E+04 #	CH	NC	5.01E-01 #	CH	NC	8.45E-02	CH	NC
Cyanazine	1.07E-04	AA	C	2.41E+01	AA	C	7.60E+00	AA	C	7.51E+01	CH	C	5.55E+00	AA	C	7.56E-03	AA	C	2.69E+01 +	AA	C	2.80E-03	AA	C	7.09E-02	AA	C	7.87E-04	AA	C
Dacthal	2.09E-02	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.11E+02 *	CH	NC	6.70E+02 *	CH	NC	2.23E-02 +	CH	NC	2.39E+00 #	CH	NC	2.89E-01 #	CH	NC	9.03E-02	CH	NC
Dalapon, sodium salt	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03 *	CH	NC	1.62E+04 *	CH	NC	1.65E+03 *	CH	NC	1.59E+04 *	CH	NC	2.73E+02	CH	NC	1.05E+05 #	CH	NC	2.61E+01	CH	NC	2.00E-01	M	M
DDD	3.74E-04	AA	C	8.43E+01	AA	C	2.66E+01	AA	C	1.33E+06 *	AA	C	2.02E+01	AA	C	3.90E+06 *	AA	C	1.06E+02 +	AA	C	6.58E+02 #	AA	C	9.64E-04	AA	C	5.24E-04	AA	C

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Ingestion	CH/AA/AA	C/NC	Inhalation	CH/AA/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/AA/AA	C/NC	Dermal Contact	CH/AA/AA	C/NC	Domestic Water Use	M/CH/AA/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
DDE	2.64E-04	AA	C	5.95E+01	AA	C	1.88E+01	AA	C	2.85E+04 *	AA	C	1.43E+01	AA	C	4.62E+06 *	AA	C	1.48E+02 +	AA	C	1.75E+02 #	AA	C	7.76E-04	AA	C	4.11E-04	AA	C
DDT	2.64E-04	AA	C	5.95E+01	AA	C	1.88E+01	AA	C	9.39E+05 *	AA	C	1.43E+01	AA	C	5.55E+06 *	AA	C	1.17E+02 +	AA	C	3.57E+02 #	AA	C	4.14E-04	AA	C	2.42E-04	AA	C
DEF	6.27E-05	CH	NC	2.79E+01	CH	NC	2.35E+00	CH	NC	2.23E+05 *	CH	NC	2.16E+00	CH	NC	2.86E+05 *	CH	NC	1.82E+00 +	CH	NC	1.53E+02 #	CH	NC	1.82E-04	CH	NC	1.05E-04	CH	NC
Demeton	8.36E-05	CH	NC	1.12E+02	CH	NC	3.13E+01	CH	NC	2.16E+01	CH	NC	1.15E+01	CH	NC	5.22E+00	CH	NC	1.97E+01 +	CH	NC	3.02E+00	CH	NC	9.40E-02	CH	NC	5.74E-03	CH	NC
Diazinon	1.88E-03	CH	NC	2.51E+02 *	CH	NC	7.04E+01 *	CH	NC	6.68E+06 *	CH	NC	5.50E+01	CH	NC	8.40E+03 *	CH	NC	2.57E+01 +	CH	NC	5.62E+03 #	CH	NC	7.71E-02	CH	NC	1.13E-02	CH	NC
Dicamba	6.27E-02	CH	NC	8.38E+03 *	CH	NC	2.35E+03	CH	NC	2.23E+08 *	CH	NC	1.83E+03	CH	NC	1.15E+05 *	CH	NC	1.24E+01 +	CH	NC	1.41E+05 #	CH	NC	1.94E+01	CH	NC	4.54E-01	CH	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	2.09E-02	CH	NC	2.79E+03	CH	NC	7.82E+02	CH	NC	7.42E+07 *	CH	NC	6.11E+02	CH	NC	2.60E+05 *	CH	NC	1.98E+01 +	CH	NC	4.80E+04 #	CH	NC	3.13E+00	CH	NC	7.00E-02	M	M
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	1.67E-02	CH	NC	5.59E+03 *	CH	NC	6.26E+02 *	CH	NC	5.93E+07 *	CH	NC	5.63E+02 *	CH	NC	1.34E+05 *	CH	NC	3.80E+00 +	CH	NC	4.10E+04 #	CH	NC	5.12E-01	CH	NC	9.40E-02	CH	NC
Dichloroprop (2,4-DP)	2.09E-02	CH	NC	5.59E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.86E+02 *	CH	NC	6.68E+03 *	CH	NC	4.29E+01 +	CH	NC	4.83E+04 #	CH	NC	1.29E+00	CH	NC	1.34E-01	CH	NC
Dieldrin	5.59E-06	AA	C	1.26E+00	AA	C	3.99E-01	AA	C	5.24E+01 *	AA	C	3.02E-01	AA	C	6.98E+02 *	AA	C	3.36E+00 +	AA	C	5.51E+00 #	AA	C	1.46E-04	AA	C	2.94E-05	AA	C
Dimethoate	4.18E-04	CH	NC	5.59E+01	CH	NC	1.56E+01	CH	NC	1.48E+06 *	CH	NC	1.22E+01	CH	NC	2.62E+02	CH	NC	3.74E-03	CH	NC	8.80E+02	CH	NC	2.33E+00	CH	NC	3.12E-03	CH	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01 *	CH	NC	7.42E+06 *	CH	NC	6.11E+01 *	CH	NC	4.00E+03 *	CH	NC	8.47E+01	CH	NC	4.59E+03 #	CH	NC	7.18E-02	CH	NC	7.00E-03	M	M
Diquat	4.60E-03	CH	NC	6.15E+02	CH	NC	1.72E+02	CH	NC	1.63E+07 *	CH	NC	1.34E+02	CH	NC	1.09E+06 *	CH	NC	4.67E-03 +	CH	NC	8.02E+05 #	CH	NC	6.28E+03	CH	NC	2.00E-02	M	M
Disulfoton	8.36E-05	CH	NC	1.12E+01 *	CH	NC	3.13E+00 *	CH	NC	2.97E+05 *	CH	NC	2.44E+00 *	CH	NC	7.19E+00 *	CH	NC	7.86E+00 +	CH	NC	4.87E+01 #	CH	NC	2.75E-03	CH	NC	4.78E-04	CH	NC
Diuron	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02 *	CH	NC	1.48E+07 *	CH	NC	1.22E+02 *	CH	NC	1.12E+04 *	CH	NC	5.11E+02 +	CH	NC	4.67E+03 #	CH	NC	6.27E-01	CH	NC	2.93E-02	CH	NC
Endosulfan	1.25E-02	CH	NC	1.68E+03 *	CH	NC	4.69E+02 *	CH	NC	1.91E+04 *	CH	NC	3.60E+02 *	CH	NC	2.06E+05 *	CH	NC	7.27E+03 +	CH	NC	1.61E+04 #	CH	NC	1.19E+00 #	CH	NC	8.48E-02	CH	NC
Endothall	4.18E-02	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	2.07E+04	CH	NC	1.15E+03	CH	NC	2.47E+08 *	CH	NC	4.18E-02	CH	NC	2.82E+08 #	CH	NC	1.49E+01	CH	NC	1.00E-01	M	M
Endrin	6.27E-04	CH	NC	8.38E+01 *	CH	NC	2.35E+01 *	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	6.88E+04 *	CH	NC	2.87E+02 +	CH	NC	9.43E+02 #	CH	NC	1.65E-02	CH	NC	2.00E-03	M	M
Endrin aldehyde	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	3.80E+03 *	CH	NC	1.82E+01	CH	NC	1.64E+05 *	CH	NC	2.29E+02 +	CH	NC	1.30E+01 #	CH	NC	1.14E-03	CH	NC	7.13E-04	CH	NC
Endrin Ketone	5.97E-05	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.12E+05 *	CH	NC	1.83E+01	CH	NC	1.53E+05 *	CH	NC	5.39E+00 +	CH	NC	1.49E+02 #	CH	NC	5.03E-03	CH	NC	2.07E-03	CH	NC
Eptam	5.22E-02	CH	NC	NA	--	--	1.96E+03 *	CH	NC	1.35E+04 *	CH	NC	1.71E+03 *	CH	NC	3.62E+03 *	CH	NC	1.05E+04 +	CH	NC	2.33E+03 #	CH	NC	3.43E+00	CH	NC	7.98E-02	CH	NC
Ethoprop	2.09E-04	CH	NC	2.79E+01	CH	NC	7.82E+00	CH	NC	7.42E+05 *	CH	NC	6.11E+00	CH	NC	3.87E+03	CH	NC	3.50E+00	CH	NC	5.27E+02	CH	NC	1.64E-02	CH	NC	1.39E-03	CH	NC
Fenamiphos	5.22E-04	CH	NC	6.98E+01	CH	NC	1.96E+01	CH	NC	1.85E+06 *	CH	NC	1.53E+01	CH	NC	3.39E+03 *	CH	NC	7.90E-02	CH	NC	1.61E+03 #	CH	NC	NA	--	--	3.91E-03	CH	NC
Fenthion	1.46E-04	CH	NC	1.96E+01	CH	NC	5.48E+00	CH	NC	5.19E+05 *	CH	NC	4.28E+00	CH	NC	2.18E+03 *	CH	NC	6.90E+00 +	CH	NC	3.28E+02 #	CH	NC	1.67E-02	CH	NC	1.01E-03	CH	NC
Fluometuron	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	9.64E+07 *	CH	NC	7.94E+02 *	CH	NC	8.48E+04 *	CH	NC	5.26E+00	CH	NC	7.22E+04 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Fonofos	4.18E-03	CH	NC	5.59E+02 *	CH	NC	1.56E+02	CH	NC	1.48E+07 *	CH	NC	1.22E+02	CH	NC	6.86E+04 *	CH	NC	7.03E+02	CH	NC	3.22E+03 #	CH	NC	9.09E-02	CH	NC	2.13E-02	CH	NC
alpha-Hexachlorocyclohexane	1.42E-05	AA	C	3.21E+00	AA	C	1.01E+00	AA	C	3.19E+01 *	AA	C	7.52E-01	AA	C	1.01E+02 *	AA	C	5.83E+00 +	AA	C	1.36E+01 #	AA	C	2.90E-04	AA	C	6.88E-05	AA	C
beta-Hexachlorocyclohexane	4.85E-05	AA	C	1.12E+01 *	AA	C	3.55E+00 *	AA	C	1.72E+05 *	AA	C	2.70E+00 *	AA	C	6.97E+02 *	AA	C	2.76E+00 +	AA	C	9.17E+01 #	AA	C	9.84E-04	AA	C	2.38E-04	AA	C
delta-Hexachlorocyclohexane	5.03E-05	AA	C	1.12E+01	AA	C	3.55E+00	AA	C	1.78E+05 *	AA	C	2.70E+00	AA	C	2.63E+03 *	AA	C	1.80E+00 +	AA	C	1.04E+02 #	AA	C	1.46E-03	AA	C	2.70E-04	AA	C
gamma-Hexachlorocyclohexane	8.16E-05	AA	C	1.84E+01	AA	C	5.81E+00	AA	C	1.57E+02 *	AA	C	4.29E+00	AA	C	4.31E+02 *	AA	C	3.77E+01 +	AA	C	6.65E+01 #	AA	C	3.69E-03	AA	C	2.00E-04	M	M
Glyphosate	2.09E-01	CH	NC	2.79E+04	CH	NC	7.82E+03	CH	NC	4.90E+05 *	CH	NC	6.04E+03	CH	NC	2.74E+14 *	CH	NC	2.09E-01 +	CH	NC	1.25E+13 #	CH	NC	1.34E+04 #	CH	NC	7.00E-01	M	M
Guthion	3.13E-03	CH	NC	4.19E+02 *	CH	NC	1.17E+02 *	CH	NC	1.11E+07 *	CH	NC	9.17E+01 *	CH	NC	7.29E+04 *	CH	NC	3.90E-03 +	CH	NC	4.44E+04 #	CH	NC	1.10E+00 #	CH	NC	2.28E-02	CH	NC
Heptachlor	1.97E-05	AA	C	4.50E+00	AA	C	1.42E+00	AA	C	1.39E+01	CH	C	1.04E+00	AA	C	2.67E+00	AA	C	1.92E+01 +	AA	C	3.45E-04	AA	C	7.62E-04	AA	C	4.00E-04	M	M
Heptachlor epoxide	9.86E-06	AA	C	2.22E+00	AA	C	7.02E-01	AA	C	3.50E+04 *	AA	C	5.33E-01	AA	C	6.50E+03 *	AA	C	5.07E+00 +	AA	C	1.32E+01 #	AA	C	1.52E-04	AA	C	2.00E-04	M	M
Hexazinone	6.89E-02	CH	NC	9.22E+03	CH	NC	2.58E+03	CH	NC	2.45E+08 *	CH	NC	2.02E+03	CH	NC	1.56E+06 *	CH	NC	7.23E-02 +	CH	NC	4.29E+06 #	CH	NC	2.58E+01	CH	NC	5.03E-01	CH	NC
Malathion	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	1.48E+08 *	CH	NC	1.22E+03	CH	NC	1.53E+06 *	CH	NC	1.38E+02 +	CH	NC	1.42E+05 #	CH	NC	2.25E+01	CH	NC	3.07E-01	CH	NC
Maleic hydrazide	1.04E+00	CH	NC	1.40E+05 *	CH	NC	3.91E+04 *	CH	NC	2.83E+05 *	CH	NC	2.76E+04 *	CH	NC	9.15E+05 *	CH	NC	2.56E+00 +	CH	NC	2.37E+06 #	CH	NC	1.56E+04 #	CH	NC	7.82E+00	CH	NC
Maneb	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	3.71E+07 *	CH	NC	3.06E+02 *	CH	NC	8.05E+04 *	CH	NC	5.41E+02	CH	NC	2.37E+04 #	CH	NC	NA	--	--	7.82E-02	CH	NC
Methomyl	5.22E-02	CH	NC	6.98E+03	CH	NC	1.96E+03	CH	NC	1.35E+04 *	CH	NC	1.37E+03	CH	NC	1.94E+04 *	CH	NC	6.35E-01 +	CH	NC	8.52E+04 #	CH	NC	1.12E+02	CH	NC	3.89E-01	CH	NC
Methoxychlor	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02 *	CH	NC	8.56E+04 *	CH	NC	3.04E+02 *	CH	NC	4.99E+06 *	CH	NC	5.51E+03 +	CH	NC	8.63E+03 #	CH	NC	4.05E-02	CH	NC	4.00E-02	M	M

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL													SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	1.04E-03	CH	NC	1.40E+02	CH	NC	3.91E+01	CH	NC	3.71E+06 *	CH	NC	3.06E+01	CH	NC	1.54E+03 *	CH	NC	1.24E-01 +	CH	NC	2.31E+03 #	CH	NC	4.24E-02	CH	NC	6.26E-03	CH	NC
MCPP	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01 *	CH	NC	7.42E+06 *	CH	NC	6.11E+01 *	CH	NC	6.74E+02 *	CH	NC	4.81E+00 +	CH	NC	4.88E+03 #	CH	NC	1.38E-01	CH	NC	1.36E-02	CH	NC
Metolachlor	3.13E-01	CH	NC	4.19E+04 *	CH	NC	1.17E+04 *	CH	NC	1.11E+09 *	CH	NC	9.17E+03 *	CH	NC	3.95E+06 *	CH	NC	3.34E+02 +	CH	NC	9.18E+05 #	CH	NC	4.75E+01	CH	NC	2.20E+00	CH	NC
Metribuzin	5.22E-02	CH	NC	6.98E+03 *	CH	NC	1.96E+03 *	CH	NC	1.85E+08 *	CH	NC	1.53E+03 *	CH	NC	5.91E+05 *	CH	NC	6.18E-02	CH	NC	8.35E+05 #	CH	NC	2.29E+02	CH	NC	3.90E-01	CH	NC
Mirex	4.98E-06	AA	C	1.12E+00	AA	C	3.55E-01	AA	C	3.58E+00	CH	C	2.59E-01	AA	C	2.46E+00	AA	C	1.55E+00 +	AA	C	7.50E-02	AA	C	NA	--	--	3.74E-05	AA	C
Naled	4.18E-03	CH	NC	5.59E+02	CH	NC	1.56E+02	CH	NC	1.48E+07 *	CH	NC	1.22E+02	CH	NC	7.22E+03 *	CH	NC	1.58E+02 +	CH	NC	7.81E+03 #	CH	NC	9.36E+00	CH	NC	3.11E-02	CH	NC
o,o,o-Triethylphosphorothioate	1.73E-05	CH	NC	NA	--	--	6.49E-01	CH	NC	4.49E+00	CH	NC	5.67E-01	CH	NC	5.31E-01	CH	NC	3.58E+00	CH	NC	1.76E-01	CH	NC	2.19E-03	CH	NC	2.69E-05	CH	NC
Oxamyl	5.22E-02	CH	NC	6.98E+03	CH	NC	1.96E+03	CH	NC	1.85E+08 *	CH	NC	1.53E+03	CH	NC	2.63E+04	CH	NC	1.36E+00 +	CH	NC	1.41E+05	CH	NC	2.58E+03	CH	NC	2.00E-01	M	M
Paraquat	9.40E-03	CH	NC	1.26E+03	CH	NC	3.52E+02	CH	NC	3.34E+07	CH	NC	2.75E+02	CH	NC	3.64E+06	CH	NC	1.60E+00 +	CH	NC	3.97E+04	CH	NC	9.03E+04	CH	NC	7.04E-02	CH	NC
ethyl-Parathion	1.25E-02	CH	NC	1.68E+03 *	CH	NC	4.69E+02 *	CH	NC	4.45E+07 *	CH	NC	3.67E+02	CH	NC	9.85E+05 *	CH	NC	6.92E+02 +	CH	NC	2.96E+04 #	CH	NC	4.85E-01	CH	NC	7.44E-02	CH	NC
methyl-Parathion	5.22E-04	CH	NC	6.98E+01	CH	NC	1.96E+01	CH	NC	1.85E+06 *	CH	NC	1.53E+01	CH	NC	2.81E+04 *	CH	NC	3.75E+00 +	CH	NC	9.27E+02 #	CH	NC	8.66E-02	CH	NC	3.69E-03	CH	NC
Pendimethalin	8.36E-02	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	2.97E+08 *	CH	NC	2.44E+03 *	CH	NC	2.00E+08 *	CH	NC	6.13E+03 +	CH	NC	1.77E+05 #	CH	NC	3.10E-01 #	CH	NC	1.67E-01	CH	NC
Phenylmercuric acetate	1.67E-04	CH	NC	2.23E+01	CH	NC	6.26E+00	CH	NC	5.93E+05 *	CH	NC	4.89E+00	CH	NC	1.71E+02	CH	NC	7.33E-03	CH	NC	3.20E+02	CH	NC	8.01E-01	CH	NC	1.25E-03	CH	NC
Phorate	4.18E-04	CH	NC	5.59E+01	CH	NC	1.56E+01	CH	NC	1.48E+06 *	CH	NC	1.22E+01	CH	NC	7.55E+02 *	CH	NC	4.34E+01 +	CH	NC	1.86E+02 #	CH	NC	2.63E-02	CH	NC	2.69E-03	CH	NC
Picloram	1.46E-01	CH	NC	1.96E+04 *	CH	NC	5.48E+03	CH	NC	3.78E+04 *	CH	NC	3.84E+03	CH	NC	4.50E+00	CH	NC	2.90E+04 +	CH	NC	1.91E-01	CH	NC	1.54E+01	CH	NC	5.00E-01	M	M
Prometon	3.13E-02	CH	NC	4.19E+03 *	CH	NC	1.17E+03	CH	NC	1.11E+08 *	CH	NC	9.17E+02	CH	NC	2.76E+05 *	CH	NC	6.81E+00 +	CH	NC	8.51E+04 #	CH	NC	3.27E+00	CH	NC	2.14E-01	CH	NC
Pronamide	1.57E-01	CH	NC	2.10E+04 *	CH	NC	5.87E+03 *	CH	NC	5.56E+08 *	CH	NC	4.58E+03 *	CH	NC	1.88E+05 *	CH	NC	1.10E+04 +	CH	NC	1.42E+05 #	CH	NC	7.00E+00	CH	NC	9.56E-01	CH	NC
Propachlor	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03	CH	NC	9.64E+07 *	CH	NC	7.94E+02	CH	NC	8.10E+04 *	CH	NC	2.11E+02	CH	NC	4.78E+04 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Propanil	1.04E-02	CH	NC	1.40E+03 *	CH	NC	3.91E+02	CH	NC	3.71E+07 *	CH	NC	3.06E+02	CH	NC	1.30E+05 *	CH	NC	4.33E+00 +	CH	NC	2.38E+04 #	CH	NC	9.00E-01	CH	NC	7.00E-02	CH	NC
Propazine	1.99E-03	AA	C	4.50E+02 *	AA	C	1.42E+02 *	AA	C	7.08E+06 *	AA	C	1.08E+02 *	AA	C	5.54E+03 *	AA	C	9.77E-01 +	AA	C	5.25E+03 #	AA	C	1.21E-01	AA	C	1.26E-02	AA	C
Propham	4.18E-02	CH	NC	5.59E+03 *	CH	NC	1.56E+03 *	CH	NC	1.96E+04 *	CH	NC	1.15E+03 *	CH	NC	6.50E+04 *	CH	NC	1.52E+02 +	CH	NC	9.78E+04 #	CH	NC	4.43E+00	CH	NC	2.86E-01	CH	NC
Silvex (2,4,5-TP)	1.67E-02	CH	NC	2.23E+03 *	CH	NC	6.26E+02 *	CH	NC	5.93E+07 *	CH	NC	4.89E+02 *	CH	NC	2.03E+04 *	CH	NC	1.58E+01 +	CH	NC	4.31E+04 #	CH	NC	7.02E-01	CH	NC	5.00E-02	M	M
Simazine	7.48E-04	AA	C	1.69E+02 *	AA	C	5.32E+01 *	AA	C	2.65E+06 *	AA	C	4.05E+01 *	AA	C	1.68E+03 *	AA	C	2.40E-01 +	AA	C	1.76E+03 #	AA	C	9.44E-02	AA	C	4.00E-03	M	M
Strychnine	6.27E-04	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.23E+06 *	CH	NC	1.83E+01	CH	NC	1.25E+05 *	CH	NC	6.30E-04 +	CH	NC	2.03E+05 #	CH	NC	6.76E-01	CH	NC	4.65E-03	CH	NC
Tebuthiuron	1.46E-01	CH	NC	1.96E+04 *	CH	NC	5.48E+03 *	CH	NC	5.19E+08 *	CH	NC	4.28E+03 *	CH	NC	1.08E+06 *	CH	NC	1.65E-01	CH	NC	3.31E+06 #	CH	NC	8.15E+01	CH	NC	1.08E+00	CH	NC
Terbacil	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	9.64E+07 *	CH	NC	7.94E+02 *	CH	NC	2.56E+04 *	CH	NC	3.26E-01	CH	NC	6.71E+04 #	CH	NC	NA	--	--	2.03E-01	CH	NC
Terbufos	5.22E-05	CH	NC	6.98E+00	CH	NC	1.96E+00	CH	NC	1.96E+01	CH	NC	1.42E+00	CH	NC	5.22E+01 *	CH	NC	1.25E+01	CH	NC	1.29E+01 #	CH	NC	1.15E-03	CH	NC	2.68E-04	CH	NC
Terbutryn	2.09E-03	CH	NC	2.79E+02 *	CH	NC	7.82E+01	CH	NC	7.42E+06 *	CH	NC	6.11E+01	CH	NC	5.02E+04 *	CH	NC	6.59E+00 +	CH	NC	5.13E+03 #	CH	NC	6.54E-02	CH	NC	1.18E-02	CH	NC
Toxaphene	8.01E-05	AA	C	1.84E+01	AA	C	5.81E+00	AA	C	2.84E+05 *	AA	C	4.41E+00	AA	C	2.23E+05 *	AA	C	3.55E+01 +	AA	C	1.46E+02 #	AA	C	1.72E-03	AA	C	3.00E-03	M	M
Triallate	2.72E-02	CH	NC	3.63E+03 *	CH	NC	1.02E+03 *	CH	NC	1.97E+04 *	CH	NC	7.64E+02 *	CH	NC	1.01E+05 *	CH	NC	5.89E+03 +	CH	NC	7.55E+03 #	CH	NC	3.82E-01	CH	NC	1.18E-01	CH	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2.09E-02	CH	NC	2.79E+03 *	CH	NC	7.82E+02 *	CH	NC	7.42E+07 *	CH	NC	6.11E+02 *	CH	NC	1.76E+04 *	CH	NC	1.39E+01 +	CH	NC	3.90E+04 #	CH	NC	1.47E+00	CH	NC	1.37E-01	CH	NC
Trifluralin	1.17E-02	AA	C	2.10E+03 *	CH	NC	5.87E+02	CH	NC	4.00E+04 *	CH	NC	4.53E+02	CH	NC	5.39E+05 *	AA	C	7.03E+03 +	AA	C	6.58E+03 #	AA	C	6.76E-02	AA	C	2.98E-02	AA	C
Warfarin	5.97E-05	CH	NC	8.38E+01	CH	NC	2.35E+01	CH	NC	2.12E+05 *	CH	NC	1.83E+01	CH	NC	1.14E+03 *	CH	NC	2.28E-02 +	CH	NC	2.04E+02 #	CH	NC	7.09E-02	CH	NC	4.31E-03	CH	NC
Metals																															
Aluminum	2.98E-03	CH	NC	2.79E+06	CH	NC	7.82E+04	CH	NC	1.06E+07	CH	NC	7.55E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	5.59E+03	CH	NC	1.56E+01	CH	NC
Antimony	2.98E-05	CH	NC	1.12E+03	CH	NC	3.13E+01	CH	NC	1.06E+05	CH	NC	3.04E+01	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+00	CH	NC	6.00E-03	M	M
Arsenic	5.98E-06	AA	C	4.50E+01	AA	C	4.26E+00	AA	C	2.12E+04	AA	C	3.89E+00	AA	C	NA	--	--	NA	--	--	NA	--	--	1.58E-01	AA	C	1.00E-02	M	M
Barium	2.92E-04	CH	NC	5.59E+05	CH	NC	1.56E+04	CH	NC	1.04E+06	CH	NC	1.50E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	1.12E+03	CH	NC	2.00E+00	M	M
Beryllium	1.07E-05	AA	C	2.41E+01	AA	C	7.60E-01	AA	C	3.79E+04	AA	C	7.37E-01	AA	C	NA	--	--	NA	--	--	NA	--	--	2.83E-02	AA	C	4.00E-03	M	M
Cadmium	1.42E-05	AA	C	5.32E+03	AA	C	1.68E+01	AA	C	5.06E+04	AA	C	1.68E+01	AA	C	NA	--	--	NA	--	--	NA	--	--	6.25E-01	AA	C	5.00E-03	M	M
Chromium (III) total chromium	6.06E-05	CH	NC	4.19E+06	CH	NC	1.17E+05	CH	NC	2.15E+05	CH	NC	7.46E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	8.38E+03	CH	NC	1.00E-01	M	M

Notes:

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-4
Tier 1 Risk-Based Target Levels
Residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR			SURFICIAL SOIL												SUBSURFACE SOIL			SOILVAPOR			GROUNDWATER								
	Indoor	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Ingestion	CH/A/AA	C/NC	Inhalation	CH/A/AA	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Indoor Inhalation of Vapor Emissions	CH/A/AA	C/NC	Dermal Contact	CH/A/AA	C/NC	Domestic Water Use	M/CH/A/AA	M/C/NC
	[mg/m^3-air]			[mg/kg]												[mg/kg]			[mg/m^3-air]			[mg/L]								
Chromium (VI)	2.14E-06	AA	C	4.82E+00	AA	C	1.52E-01	AA	C	7.58E+03	AA	C	1.47E-01	AA	C	NA	--	--	NA	--	--	NA	--	--	2.83E-03	AA	C	3.37E-06	AA	C
Copper	5.97E-04	CH	NC	1.12E+05	CH	NC	3.13E+03	CH	NC	2.12E+06	CH	NC	3.04E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+02	CH	NC	6.24E-01	CH	NC
Lead	NA	--	--	NA	--	--	NA	--	--	NA	--	--	2.60E+02	--	--	2.60E+02	--	--	NA	--	--	NA	--	--	NA	--	--	1.50E-02	M	M
Manganese	2.99E-05	CH	NC	3.91E+05	CH	NC	1.10E+04	CH	NC	1.06E+05	CH	NC	9.68E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	7.82E+02	CH	NC	2.19E+00	CH	NC
Mercury	1.79E-04	CH	NC	NA	--	--	NA	--	--	4.63E+01 *	CH	NC	4.63E+01 *	CH	NC	7.11E+00 *	CH	NC	6.37E+01 +	CH	NC	1.45E-01 #	CH	NC	NA	--	--	NA	--	--
Molybdenum	2.98E-03	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	1.06E+07	CH	NC	3.80E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+01	CH	NC	7.80E-02	CH	NC
Nickel	5.37E-05	CH	NC	5.59E+04	CH	NC	1.56E+03	CH	NC	1.91E+05	CH	NC	1.51E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	5.59E+02	CH	NC	3.13E-01	CH	NC
Selenium	1.19E-04	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	4.23E+05	CH	NC	3.80E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+01	CH	NC	5.00E-02	M	M
Silver	5.97E-06	CH	NC	1.40E+04	CH	NC	3.91E+02	CH	NC	2.12E+04	CH	NC	3.74E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	4.66E+01	CH	NC	7.81E-02	CH	NC
Strontium	NA	--	--	1.68E+06	CH	NC	4.69E+04	CH	NC	NA	--	--	4.57E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.35E+03	CH	NC	9.37E+00	CH	NC
Thallium chloride	5.97E-05	CH	NC	2.23E+02	CH	NC	6.26E+00	CH	NC	2.12E+05 *	CH	NC	6.09E+00	CH	NC	NA	--	--	NA	--	--	NA	--	--	4.47E-01	CH	NC	1.25E-03	CH	NC
Vanadium	2.98E-05	CH	NC	1.96E+04	CH	NC	5.48E+02	CH	NC	1.06E+05	CH	NC	5.30E+02	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.91E+01	CH	NC	1.09E-01	CH	NC
Zinc	NA	--	--	8.38E+05	CH	NC	2.35E+04	CH	NC	NA	--	--	2.28E+04	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.79E+03	CH	NC	4.69E+00	CH	NC
Inorganics																														
Ammonia	5.97E-02	CH	NC	NA	--	--	NA	--	--	1.55E+04	CH	NC	1.55E+04	CH	NC	2.93E+01	CH	NC	2.48E+03	CH	NC	1.86E+02	CH	NC	NA	--	--	1.19E-01	CH	NC
Cyanide	2.98E-03	CH	NC	5.59E+03	CH	NC	1.56E+03	CH	NC	1.06E+07 *	CH	NC	1.22E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	1.12E+02	CH	NC	3.12E-01	CH	NC
Cyanide (as Sodium Cyanide)	NA	--	--	1.12E+04	CH	NC	3.13E+03	CH	NC	NA	--	--	2.44E+03	CH	NC	NA	--	--	NA	--	--	NA	--	--	2.23E+02	CH	NC	2.00E-01	M	M
Cyanogen bromide	1.88E-01	CH	NC	2.51E+04 *	CH	NC	7.04E+03 *	CH	NC	4.87E+04 *	CH	NC	4.94E+03 *	CH	NC	3.41E+01	CH	NC	2.14E+04	CH	NC	1.11E+02	CH	NC	5.03E+02	CH	NC	2.97E-01	CH	NC
Fluoride (as Sodium Fluoride)	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.00E+00	M	M
Perchlorate	NA	--	--	1.96E+02	CH	NC	5.48E+01	CH	NC	NA	--	--	4.28E+01	CH	NC	NA	--	--	NA	--	--	NA	--	--	3.91E+00	CH	NC	1.09E-02	CH	NC
White phosphorus	5.97E-05	CH	NC	5.59E+00	CH	NC	1.56E+00	CH	NC	1.54E+01	CH	NC	1.13E+00	CH	NC	4.29E-01	CH	NC	3.52E+00	CH	NC	6.46E-02	CH	NC	1.12E-01	CH	NC	8.64E-05	CH	NC
Total Petroleum Hydrocarbons																														
TPH-GRO																														
Aliphatics - > C6-C8	1.11E+01	CH	NC	NA	--	--	3.91E+05 *	CH	NC	2.87E+06 *	CH	NC	3.44E+05 *	CH	NC	7.66E+02 *	CH	NC	1.21E+06 +	CH	NC	2.65E+01 #	CH	NC	NA	--	--	1.73E+01 #	CH	NC
Aliphatics - > C8-C10	6.06E-01	CH	NC	NA	--	--	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	7.45E+03 *	CH	NC	1.67E+02 *	CH	NC	6.62E+04 +	CH	NC	9.06E-01 #	CH	NC	NA	--	--	6.83E-01 #	CH	NC
Aromatics - >C8-C10	1.19E-01	CH	NC	NA	--	--	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.84E+03 *	CH	NC	2.63E+02	CH	NC	1.30E+04	CH	NC	2.91E+01	CH	NC	NA	--	--	1.72E-01	CH	NC
TPH-DRO																														
Aliphatics - >C10-C12	6.06E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	5.88E+03 *	CH	NC	8.41E+02 *	CH	NC	6.62E+04 +	CH	NC	6.04E-01 #	CH	NC	NA	--	--	6.83E-01 #	CH	NC
Aliphatics - >C12-C16	6.06E-01	CH	NC	2.79E+04 *	CH	NC	7.82E+03 *	CH	NC	1.57E+05 *	CH	NC	5.88E+03 *	CH	NC	3.84E+03 *	CH	NC	6.62E+04 +	CH	NC	1.39E-01 #	CH	NC	NA	--	--	1.56E+00 #	CH	NC
Aliphatics - >C16-C21	NA	--	--	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	NA	--	--	1.22E+05 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	3.13E+01 #	CH	NC
Aromatics - >C10-C12	1.19E-01	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.26E+03 *	CH	NC	1.41E+03 *	CH	NC	1.30E+04 +	CH	NC	9.77E+01 #	CH	NC	NA	--	--	1.72E-01	CH	NC
Aromatics - >C12-C16	1.19E-01	CH	NC	1.12E+04 *	CH	NC	3.13E+03 *	CH	NC	3.08E+04 *	CH	NC	2.26E+03 *	CH	NC	7.40E+03 *	CH	NC	1.30E+04 +	CH	NC	2.54E+02 #	CH	NC	NA	--	--	1.72E-01	CH	NC
Aromatics - >C16-C21	NA	--	--	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	NA	--	--	1.72E+03 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.69E-01	CH	NC
TPH-ORO																														
Aliphatics - >C21-C35	NA	--	--	5.59E+05 *	CH	NC	1.56E+05 *	CH	NC	NA	--	--	1.22E+05 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	3.13E+01 #	CH	NC
Aromatics - >C21-C35	NA	--	--	6.45E+03 *	CH	NC	2.35E+03 *	CH	NC	NA	--	--	1.72E+03 *	CH	NC	NA	--	--	NA	--	--	NA	--	--	NA	--	--	4.69E-01 #	CH	NC

Vanadium

A: Adult CH: Child AA: Age-Adjusted

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
VOCs and SVOCs																		
Acenaphthene	4.09E-01	NC	7.15E+04 *	NC	6.13E+04 *	NC	4.41E+05 *	NC	3.07E+04 *	NC	5.38E+05 *	NC	8.05E+04 +	NC	1.29E+04 #	NC	7.50E+00 #	NC
Acenaphthylene	4.09E-01	NC	NA	--	6.13E+04 *	NC	4.41E+05 *	NC	5.38E+04 *	NC	6.77E+05 *	NC	7.72E+04 +	NC	1.66E+04 #	NC	8.89E+00 #	NC
Acetone	6.13E+00	NC	NA	--	9.20E+05 *	NC	6.61E+06 *	NC	8.07E+05 *	NC	1.47E+04	NC	4.10E+05	NC	2.62E+05	NC	3.69E+04	NC
Acetonitrile	1.17E-01	NC	NA	--	1.74E+04	NC	1.26E+05	NC	1.53E+04	NC	7.74E+02	NC	7.44E+03	NC	5.34E+03	NC	6.97E+02	NC
Acrylamide	4.20E-05	C	9.64E+00	C	6.36E+00	C	8.76E+01	C	3.67E+00	C	7.64E+02	C	8.87E-02	C	2.19E+03	C	5.72E-01	C
Acrylic acid	1.95E-03	NC	7.74E+05 *	NC	5.11E+05 *	NC	2.10E+03	NC	2.09E+03	NC	1.72E+03	NC	1.37E+02	NC	2.89E+04	NC	8.26E+03	NC
Acrylonitrile	8.02E-04	C	NA	--	5.30E+01	C	8.64E+02	C	4.99E+01	C	6.48E-01	C	6.15E+01	C	1.11E+01	C	9.42E-01	C
Allyl alcohol	3.41E-02	NC	7.74E+03	NC	5.11E+03	NC	3.67E+04	NC	2.84E+03	NC	2.77E+03	NC	2.46E+03	NC	1.22E+04	NC	1.11E+02	NC
Allyl chloride	1.95E-03	NC	4.49E+02	NC	2.96E+02	NC	2.10E+03	NC	1.65E+02	NC	1.79E+03	NC	1.58E+02	NC	5.13E+03	NC	1.06E+00	NC
Aniline	1.95E-03	NC	7.57E+03 *	C	4.99E+03 *	C	2.10E+03	NC	1.41E+03	NC	4.18E+02	NC	2.25E+02	NC	3.92E+03	NC	4.67E+01	C
Anthracene	2.04E+00	NC	3.57E+05 *	NC	3.07E+05 *	NC	2.20E+06 *	NC	1.54E+05 *	NC	3.14E+06 *	NC	5.23E+05 +	NC	1.84E+04 #	NC	1.76E+01 #	NC
Aroclor 1016	4.77E-04	NC	7.74E+01	NC	7.15E+01	NC	1.46E+03 *	NC	3.63E+01	NC	1.87E+04 *	NC	2.06E+02 +	NC	1.77E+01 #	NC	1.80E-03	NC
Aroclor 1221	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.03E+02 *	C	6.94E+00	C	6.86E+00	C	2.77E+01	C	2.17E-01	C	9.26E-04	C
Aroclor 1242	9.54E-05	C	1.55E+01 *	C	1.43E+01 *	C	1.03E+02 *	C	6.94E+00	C	7.66E+01 *	C	4.25E+01 +	C	2.08E+00 #	C	3.94E-04	C
Aroclor 1248	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.30E+02 *	C	7.03E+00	C	7.45E+02 *	C	5.07E+01 +	C	4.78E-01 #	C	2.13E-04	C
Aroclor 1254	9.54E-05	C	1.55E+01	C	1.43E+01	C	2.11E+02 *	C	7.18E+00	C	1.97E+03 *	C	5.07E+01 +	C	6.55E-01 #	C	1.84E-04	C
Aroclor 1260	9.54E-05	C	1.55E+01	C	1.43E+01	C	5.80E+02	C	7.34E+00	C	1.48E+04 *	C	6.82E+01 +	C	3.96E-01 #	C	2.03E-04	C
Azobenzene	1.76E-03	C	NA	--	2.60E+02	C	4.56E+03 *	C	2.46E+02	C	4.96E+04 *	C	2.93E+02 +	C	1.58E+02 #	C	1.39E-02	C
Benzene	1.06E-02	C	NA	--	8.18E+02 *	C	1.14E+04 *	C	7.63E+02	C	1.98E+00	C	9.98E+02	C	5.25E+00	C	1.06E+00	C
Benzidine	8.14E-07	C	1.89E-01	C	1.24E-01	C	8.39E+01	C	7.49E-02	C	3.88E+04	C	5.91E-05	C	3.77E+01	C	1.16E-03	C
Benzo(a)anthracene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	1.74E+06 *	C	2.11E+01	C	1.36E+06 *	C	7.83E+01 +	C	5.79E+02 #	C	6.37E-04	C
Benzo(a)pyrene	4.89E-05	C	4.57E+00	C	3.92E+00	C	1.74E+05 *	C	2.11E+00	C	1.18E+06 *	C	8.93E+00 +	C	1.95E+02 #	C	3.74E-05	C
Benzo(b)fluoranthene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	5.81E+03 *	C	2.10E+01 *	C	2.91E+05 *	C	1.79E+02 +	C	4.01E+01 #	C	3.68E-04	C
Benzo(g,h,i)perylene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.65E+04 *	NC	1.64E+10 *	NC	1.01E+04 +	NC	1.76E+06 #	NC	2.10E-01 #	NC
Benzo(k)fluoranthene	4.89E-04	C	4.57E+02 *	C	3.92E+02 *	C	1.74E+06 *	C	2.11E+02 *	C	3.58E+07 *	C	1.65E+02 +	C	4.91E+03 #	C	3.80E-03 #	C
Benzoic acid	2.73E+01	NC	6.19E+06 *	NC	4.09E+06 *	NC	2.94E+07 *	NC	2.27E+06 *	NC	3.69E+06 *	NC	4.10E+06 +	NC	6.58E+07 #	NC	1.10E+04 #	NC
Benzyl alcohol	2.04E+00	NC	4.65E+05 *	NC	3.07E+05 *	NC	2.20E+06 *	NC	1.70E+05 *	NC	1.52E+06 *	NC	1.97E+05 +	NC	1.23E+07 #	NC	2.54E+03	NC
1,1-Biphenyl	3.41E-01	NC	NA	--	5.11E+04 *	NC	3.67E+05 *	NC	4.49E+04 *	NC	3.53E+04 *	NC	6.99E+04	NC	4.30E+03 #	NC	9.87E+00 #	NC
Bis(2-chloroethyl)ether	1.65E-04	C	NA	--	2.60E+01	C	1.78E+02	C	2.27E+01	C	3.93E+00	C	1.98E+01	C	2.72E+01	C	1.93E-01	C
Bis(2-chloroisopropyl)ether	5.45E-03	C	NA	--	4.09E+02	C	5.88E+03 *	C	3.82E+02	C	6.18E+01	C	7.17E+02	C	1.59E+02	C	5.31E-01	C
Bis(chloromethyl)ether	8.79E-07	C	NA	--	1.30E-01	C	9.48E-01	C	1.14E-01	C	6.05E-04	C	8.22E-02	C	1.00E-02	C	2.43E-03	C
Bis(2-ethylhexyl)phthalate	1.36E-02	C	3.10E+03	C	2.04E+03	C	4.84E+07 *	C	1.23E+03	C	5.34E+10 *	C	2.46E+03 +	C	5.97E+05 #	C	2.75E-01	C
Bromochloromethane	9.74E-02	NC	NA	--	4.09E+04 *	NC	1.05E+05 *	NC	2.94E+04 *	NC	5.12E+01	NC	8.36E+03	NC	2.42E+02	NC	2.70E+02	NC
Bromodichloromethane	1.47E-03	C	NA	--	4.62E+02	C	1.59E+03	C	3.58E+02	C	2.48E+00	C	4.10E+02	C	6.55E+00	C	1.17E+00	C
Bromoform	4.96E-02	C	5.49E+03 *	C	3.62E+03 *	C	5.34E+04 *	C	2.10E+03 *	C	7.29E+02	C	2.76E+04	C	1.28E+03	C	1.08E+01	C
Bromomethane	9.74E-03	NC	NA	--	1.43E+03	NC	1.05E+04 *	NC	1.26E+03	NC	6.77E-01	NC	1.11E+03	NC	5.01E+00	NC	8.98E+00	NC
4-Bromophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	1.78E+01	C	1.08E+00	C	6.13E+01	C	2.88E+00	C	6.13E-01	C	7.72E-05	C
n-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	9.46E+02 *	NC	3.01E+04 +	NC	7.05E+01 #	NC	2.97E+00	NC
sec-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	5.24E+02 *	NC	3.01E+04 +	NC	5.01E+01 #	NC	4.03E+00	NC
tert-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	8.04E+02 *	NC	3.01E+04 +	NC	7.58E+01 #	NC	3.51E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Butyl benzyl phthalate	1.36E+00	NC	3.10E+05 *	NC	2.04E+05 *	NC	4.84E+09 *	NC	1.23E+05 *	NC	4.07E+09 *	NC	6.09E+05 +	NC	1.19E+07 #	NC	2.32E+01 #	NC
Carbazole	9.54E-03	C	2.17E+03 *	C	1.43E+03 *	C	1.82E+05 *	C	8.58E+02 *	C	1.46E+07 *	C	4.48E+02 +	C	7.24E+05 #	C	6.69E-01	C
Carbon disulfide	1.36E+00	NC	NA	--	1.02E+05 *	NC	1.47E+06 *	NC	9.56E+04 *	NC	5.04E+01	NC	1.09E+05	NC	1.14E+02	NC	1.15E+02	NC
Carbon tetrachloride	3.64E-03	C	NA	--	2.20E+02	C	3.92E+03 *	C	2.08E+02	C	4.17E-01	C	3.86E+02	C	4.02E-01	C	1.71E-01	C
p-Chloroaniline	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	2.94E+04 *	NC	2.27E+03	NC	1.30E+05 *	NC	3.93E+03 +	NC	2.94E+05 #	NC	1.45E+01	NC
Chlorobenzene	1.16E-01	NC	NA	--	2.04E+04 *	NC	1.25E+05 *	NC	1.76E+04 *	NC	1.21E+02	NC	1.32E+04	NC	1.01E+02	NC	1.19E+01	NC
Chloroethane	6.58E-02	C	NA	--	9.87E+03 *	C	7.09E+04 *	C	8.66E+03 *	C	2.83E+00	C	5.45E+03	C	1.51E+01	C	3.31E+01	C
Chloroform	2.37E-03	C	NA	--	9.23E+02	C	2.56E+03 *	C	6.78E+02	C	4.02E-01	C	1.89E+02	C	1.47E+00	C	2.11E+00	C
Chloromethane	3.03E-02	C	NA	--	2.20E+03	C	3.27E+04 *	C	2.06E+03	C	1.07E+00	C	2.28E+03	C	3.05E+00	C	1.44E+01	C
2-Chloronaphthalene	5.45E-01	NC	NA	--	8.18E+04 *	NC	5.88E+05 *	NC	7.18E+04 *	NC	1.34E+05 *	NC	1.81E+05 +	NC	1.42E+04 #	NC	1.50E+01 #	NC
2-Chlorophenol	3.41E-02	NC	NA	--	5.11E+03	NC	3.67E+04	NC	4.49E+03	NC	8.40E+02	NC	5.64E+03	NC	3.63E+02	NC	9.36E+00	NC
4-Chlorophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	1.78E+01	C	1.08E+00	C	1.69E+01	C	2.80E+00	C	2.23E-01	C	7.56E-05	C
2-Chlorotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	3.01E+02	NC	1.61E+04 +	NC	1.38E+02	NC	7.64E+00	NC
4-Chlorotoluene	5.06E-04	NC	NA	--	2.04E+04 *	NC	5.46E+02 *	NC	5.32E+02 *	NC	1.42E+00	NC	6.21E+01	NC	5.36E-01	NC	6.49E+00	NC
Chrysene	4.89E-03	C	4.57E+03 *	C	3.92E+03 *	C	3.42E+04 *	C	1.99E+03 *	C	1.01E+06 *	C	1.63E+03 +	C	4.28E+02 #	C	6.37E-02 #	C
Dibenzo(a,h)anthracene	4.65E-05	C	4.57E+00	C	3.92E+00	C	1.65E+05 *	C	2.11E+00	C	1.16E+08 *	C	3.07E+00 +	C	5.16E+03 #	C	2.41E-05	C
Dibenzofuran	1.36E-02	NC	NA	--	2.04E+03 *	NC	1.47E+04 *	NC	1.79E+03 *	NC	1.00E+04 *	NC	1.88E+03 +	NC	2.20E+02 #	NC	3.03E-01	NC
Dibromochloromethane	2.02E-03	C	5.16E+02	C	3.41E+02	C	2.18E+03 *	C	1.88E+02	C	1.17E+01	C	8.54E+02	C	2.73E+01	C	9.32E-01	C
1,2-Dibromo-3-chloropropane	1.36E-04	C	3.10E+01	C	2.04E+01	C	2.53E+02	C	1.17E+01	C	1.96E+03 *	C	5.32E+04 +	C	8.94E+03 #	C	3.59E-02	C
Dibutyl phthalate	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.42E+09 *	NC	6.16E+04 *	NC	1.17E+10 *	NC	2.22E+03 +	NC	5.84E+07 #	NC	2.64E+01 #	NC
1,2-Dichlorobenzene	3.89E-01	NC	NA	--	9.20E+04 *	NC	4.19E+05 *	NC	7.54E+04 *	NC	2.26E+03 *	NC	4.67E+04 +	NC	6.67E+02 #	NC	2.92E+01	NC
1,3-Dichlorobenzene	2.04E-01	NC	NA	--	3.07E+04 *	NC	2.20E+05 *	NC	2.69E+04 *	NC	1.19E+03 *	NC	2.46E+04 +	NC	3.51E+02 #	NC	6.87E+00	NC
1,4-Dichlorobenzene	8.67E-03	C	NA	--	5.30E+03 *	C	9.35E+03 *	C	3.38E+03 *	C	3.95E+01	C	1.04E+03	C	1.18E+01	C	1.64E+00	C
3,3-Dichlorobenzidine	1.59E-04	C	9.64E+01 *	C	6.36E+01 *	C	5.65E+05 *	C	3.83E+01 *	C	6.75E+04 *	C	2.52E+00 +	C	1.56E+04 #	C	3.20E-02	C
Dichlorodifluoromethane	3.89E-01	NC	NA	--	2.04E+05 *	NC	4.19E+05 *	NC	1.37E+05 *	NC	1.20E+01	NC	4.02E+04	NC	1.30E+01	NC	3.50E+02 #	NC
1,1-Dichloroethane	3.41E-02	C	NA	--	5.02E+03 *	C	3.67E+04 *	C	4.42E+03 *	C	4.83E+00	C	3.82E+03	C	1.95E+01	C	1.29E+01	C
1,1-Dichloroethylene	3.89E-01	NC	NA	--	5.11E+04 *	NC	4.20E+05 *	NC	4.56E+04 *	NC	2.08E+01	NC	3.59E+04	NC	4.33E+01	NC	7.44E+01	NC
cis-1,2-Dichloroethylene	6.82E-02	NC	NA	--	1.02E+04 *	NC	7.35E+04 *	NC	8.97E+03 *	NC	1.38E+01	NC	7.67E+03	NC	5.27E+01	NC	2.34E+01	NC
trans-1,2-Dichloroethylene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	1.85E+01	NC	1.60E+04	NC	5.02E+01	NC	3.40E+01	NC
2,4-Dichlorophenol	2.04E-02	NC	4.65E+03 *	NC	3.07E+03	NC	2.20E+04 *	NC	1.70E+03	NC	3.45E+04 *	NC	4.78E+03 +	NC	3.74E+04 #	NC	1.71E+00	NC
1,2-Dichloropropane	5.30E-03	C	NA	--	7.95E+02	C	5.71E+03 *	C	6.98E+02	C	1.66E+00	C	5.62E+02	C	5.60E+00	C	1.65E+00	C
1,3-Dichloropropene	1.36E-02	C	NA	--	2.86E+02	C	1.47E+04 *	C	2.81E+02	C	1.18E+00	C	1.80E+03	C	3.12E+00	C	1.09E+00	C
Di(2-ethylhexyl)adipate	1.59E-01	C	3.61E+04 *	C	2.38E+04 *	C	1.71E+05 *	C	1.33E+04 *	C	8.63E+04 *	C	3.70E+04 +	C	4.88E+01 #	C	2.44E+00 #	C
Diethyl phthalate	5.45E+00	NC	1.24E+06 *	NC	8.18E+05 *	NC	1.94E+10 *	NC	4.93E+05 *	NC	1.46E+08 *	NC	1.52E+06 +	NC	8.32E+07 #	NC	1.68E+03 #	NC
Diisopropyl ether (DIPE)	7.50E-01	NC	NA	--	1.02E+05 *	NC	8.08E+05 *	NC	9.07E+04 *	NC	2.65E+02	NC	9.12E+04	NC	6.59E+02	NC	1.93E+02	NC
2,4-Dimethylphenol	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	1.47E+05 *	NC	1.14E+04 *	NC	3.02E+05 *	NC	1.89E+04 +	NC	2.34E+05 #	NC	2.84E+01	NC
2,6-Dimethylphenol	4.09E-03	NC	9.29E+02	NC	6.13E+02	NC	4.46E+03	NC	3.41E+02	NC	2.04E+04	NC	5.76E+02	NC	2.14E+03	NC	NA	--
Dimethyl phthalate	6.82E+01	NC	1.55E+07 *	NC	1.02E+07 *	NC	9.15E+07 *	NC	5.77E+06 *	NC	5.15E+08 *	NC	7.56E+06 +	NC	1.78E+09 #	NC	7.01E+04 #	NC
1,3-Dinitrobenzene	6.82E-04	NC	1.55E+02 *	NC	1.02E+02 *	NC	7.35E+02 *	NC	5.68E+01 *	NC	8.88E+02 *	NC	1.97E+01 +	NC	1.31E+03 #	NC	5.52E-01	NC
2,4-Dinitrophenol	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	1.47E+04 *	NC	1.14E+03 *	NC	9.94E+03 *	NC	3.38E+03 +	NC	1.89E+05 #	NC	1.39E+01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2,4-Dinitrotoluene	6.16E-04	C	1.40E+02	C	9.23E+01	C	7.40E+02 *	C	5.17E+01	C	3.73E+03 *	C	2.26E+01 +	C	6.03E+03 #	C	3.09E-01	C
2,6-Dinitrotoluene	2.81E-04	C	6.38E+01	C	4.21E+01	C	3.03E+02 *	C	2.34E+01	C	9.99E+02 *	C	6.53E+01 +	C	2.16E+03 #	C	2.08E-01	C
4-Amino-2,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	1.30E+03 *	NC	9.69E+01 *	NC	3.62E+04 *	NC	2.83E+00 +	NC	1.65E+04 #	NC	2.54E-01	NC
2-Amino-4,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	1.63E+03 *	NC	9.84E+01 *	NC	5.75E+04 *	NC	2.00E+00 +	NC	1.70E+04 #	NC	1.93E-01	NC
Di-n-octylphthalate	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	2.94E+05 *	NC	2.27E+04 *	NC	7.84E+05 *	NC	1.49E+05 +	NC	5.54E+04 #	NC	2.42E+00 #	NC
1,4-Dioxane	7.08E-03	C	3.94E+03	C	2.60E+03	C	7.63E+03	C	1.30E+03	C	2.01E+02	C	2.54E+02	C	1.31E+03	C	1.44E+02	C
Diphenylamine	1.95E-02	NC	3.87E+04 *	NC	2.56E+04 *	NC	2.10E+04 *	NC	8.88E+03 *	NC	6.91E+04 *	NC	2.63E+03 +	NC	1.92E+04 #	NC	1.11E+01	NC
1,2-Diphenylhydrazine	2.48E-04	C	5.42E+01	C	3.58E+01	C	2.50E+03	C	2.14E+01	C	1.06E+05 *	C	3.74E+00 +	C	2.67E+04 #	C	2.81E-02	C
Ethanol	3.68E+00	NC	NA	--	3.37E+07 *	NC	3.97E+06 *	NC	3.55E+06 *	NC	5.77E+04 *	NC	2.64E+05 +	NC	9.66E+05 #	NC	1.37E+06 #	NC
Ethylbenzene	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	1.55E+03 *	NC	2.18E+05 +	NC	8.32E+02 #	NC	3.51E+01	NC
Ethylene dibromide (EDB)	9.09E-05	C	NA	--	1.43E+01	C	9.80E+01	C	1.25E+01	C	4.52E-01	C	3.47E+01	C	1.21E+00	C	5.15E-02	C
Ethylene dichloride (EDC)	2.10E-03	C	NA	--	3.14E+02	C	2.26E+03 *	C	2.76E+02	C	6.91E-01	C	1.67E+02	C	4.52E+00	C	1.29E+00	C
Ethylene glycol	7.77E-01	NC	3.10E+06 *	NC	2.04E+06 *	NC	8.38E+05 *	NC	4.99E+05 *	NC	1.20E+06 *	NC	3.81E+04 +	NC	1.57E+07 #	NC	3.67E+05	NC
Ethylene thiourea	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	7.29E+02	NC	4.61E+01	NC	4.07E+03 *	NC	4.54E-01	NC	3.64E+04 #	NC	8.40E+00	NC
Ethyl-tert-butyl-ether (ETBE)	5.86E-01	NC	NA	--	1.02E+03	NC	6.32E+05 *	NC	1.02E+03	NC	2.07E+02	NC	6.99E+04	NC	7.96E+02	NC	2.77E+00	NC
Fluoranthene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	2.17E+06 *	NC	2.18E+04 *	NC	7.25E+07 *	NC	7.45E+04 +	NC	1.14E+05 #	NC	1.66E+00 #	NC
Fluorene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	3.58E+05 *	NC	2.07E+04 *	NC	1.98E+06 *	NC	6.22E+04 +	NC	2.42E+04 #	NC	3.48E+00 #	NC
Formaldehyde	4.20E-03	C	9.54E+02	C	6.30E+02	C	4.53E+03	C	3.50E+02	C	8.46E+02	C	1.76E+02	C	1.29E+04	C	8.09E+00	C
n-Hexane	1.36E+00	NC	NA	--	1.12E+07 *	NC	1.47E+06 *	NC	1.30E+06 *	NC	1.54E+01	NC	5.65E+04	NC	1.02E+00	NC	2.77E+03 #	NC
Hexachlorobenzene	1.19E-04	C	2.71E+01	C	1.79E+01	C	1.28E+02	C	9.94E+00	C	1.11E+02	C	1.82E+01 +	C	3.67E-01	C	8.16E-04	C
Hexachlorobutadiene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	2.20E+03 *	NC	1.70E+02	NC	2.91E+02	NC	3.02E+02	NC	1.11E+00	NC	2.62E-02	NC
Hexachlorocyclopentadiene	3.89E-04	NC	9.29E+03 *	NC	6.13E+03 *	NC	4.20E+02	NC	3.77E+02	NC	2.17E+02	NC	2.00E+02	NC	2.20E-01	NC	7.08E-01	NC
Hexachloroethane	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	7.35E+03 *	NC	5.68E+02 *	NC	1.52E+03 *	NC	2.26E+04 +	NC	1.45E+02 #	NC	2.48E-01	NC
Hexachlorophene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	7.26E+06 *	NC	1.85E+02	NC	7.93E+06 *	NC	5.93E-03 +	NC	2.66E+05 #	NC	4.87E-03	NC
HMX	5.26E-03	NC	7.74E+04 *	NC	5.11E+04 *	NC	1.87E+07 *	NC	3.07E+04 *	NC	1.52E+05 *	NC	1.96E+01 +	NC	5.59E+05 #	NC	5.65E+04 #	NC
Indeno(1,2,3-cd)pyrene	4.89E-04	C	2.78E+01 *	C	2.38E+01 *	C	1.74E+06 *	C	1.28E+01 *	C	6.41E+07 *	C	2.02E+02 +	C	3.12E+03 #	C	2.24E-04 #	C
Isophorone	2.01E-01	C	4.56E+04 *	C	3.01E+04 *	C	2.17E+05 *	C	1.67E+04 *	C	3.26E+04 *	C	2.66E+04 +	C	9.90E+04 #	C	1.22E+02	C
Isopropylbenzene (Cumene)	7.79E-01	NC	NA	--	1.02E+05 *	NC	8.40E+05 *	NC	9.11E+04 *	NC	8.42E+01	NC	8.61E+04 +	NC	3.19E+01	NC	2.50E+01	NC
4-Isopropyltoluene	2.04E+00	NC	NA	--	3.07E+05 *	NC	2.20E+06 *	NC	2.69E+05 *	NC	8.82E+03 *	NC	2.96E+05 +	NC	7.92E+02 #	NC	2.88E+01 #	NC
Maleic anhydride	1.36E-03	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.47E+03 *	NC	1.44E+03 *	NC	1.52E+02	NC	1.18E+02 +	NC	7.41E+02	NC	3.39E+02	NC
Methanol	7.50E+00	NC	NA	--	5.11E+05 *	NC	8.08E+06 *	NC	4.81E+05 *	NC	2.36E+05 *	NC	4.11E+05 +	NC	2.23E+06 #	NC	3.68E+04	NC
Methyl butyl ketone	7.79E-03	NC	NA	--	6.13E+04 *	NC	8.40E+03 *	NC	7.39E+03 *	NC	4.42E+01	NC	9.26E+02	NC	2.79E+02	NC	2.54E+02	NC
Methyl ethyl ketone	9.74E+00	NC	NA	--	6.13E+05 *	NC	1.05E+07 *	NC	5.79E+05 *	NC	3.12E+04 *	NC	9.01E+05 +	NC	3.93E+05 #	NC	1.26E+04	NC
2-Methyl-4,6-dinitrophenol	5.84E-04	NC	1.55E+02	NC	1.02E+02	NC	6.30E+02 *	NC	5.61E+01	NC	2.73E+03 *	NC	5.46E+00 +	NC	5.18E+04 #	NC	3.08E-01	NC
Methylene chloride	1.16E-01	C	NA	--	3.82E+03 *	C	1.25E+05 *	C	3.70E+03 *	C	1.50E+01	C	9.52E+03	C	1.19E+02	C	2.02E+01	C
Methyl iodide	2.34E-02	NC	NA	--	1.43E+03	NC	2.52E+04 *	NC	1.35E+03	NC	9.19E+00	NC	1.90E+03	NC	1.05E+01	NC	7.69E+00	NC
Methyl isobutyl ketone	5.84E+00	NC	NA	--	8.18E+04 *	NC	6.30E+06 *	NC	8.07E+04 *	NC	9.79E+04 *	NC	6.45E+05	NC	1.17E+05 #	NC	5.18E+02	NC
2-Methylnaphthalene	2.73E-02	NC	NA	--	4.09E+03 *	NC	2.94E+04 *	NC	3.59E+03 *	NC	5.04E+03 *	NC	3.59E+03 +	NC	2.03E+02 #	NC	7.84E-01	NC
2-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	4.53E+05 *	NC	3.71E+04 +	NC	7.65E+05 #	NC	1.11E+02	NC
3-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	2.68E+05 *	NC	3.65E+04 +	NC	1.04E+06 #	NC	1.09E+02	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
4-Methylphenol	3.41E-02	NC	7.74E+03 *	NC	5.11E+03	NC	3.67E+04 *	NC	2.84E+03	NC	3.11E+04 *	NC	3.67E+03 +	NC	9.07E+04 #	NC	1.11E+01	NC
Methyl teriary butyl ether (MTBE)	2.10E-01	C	NA	--	1.59E+04 *	C	2.26E+05 *	C	1.49E+04 *	C	1.13E+02	C	2.17E+04	C	9.46E+02	C	8.58E+01	C
Methyl-2,4,6-trinitrophenylnitramine	1.95E-04	NC	1.55E+04 *	NC	1.02E+04 *	NC	6.91E+05 *	NC	6.10E+03 *	NC	3.34E+04 *	NC	1.90E-03 +	NC	2.32E+04 #	NC	6.58E+01	NC
Naphthalene	1.59E-03	C	2.78E+02	C	2.38E+02	C	1.71E+03 *	C	1.19E+02	C	1.36E+02	C	2.23E+02	C	1.18E+01	C	7.51E-02	C
2-Nitroaniline	2.04E-04	NC	4.65E+03 *	NC	3.07E+03 *	NC	2.20E+02	NC	1.97E+02	NC	2.73E+02 *	NC	2.64E+01	NC	1.29E+03 #	NC	7.39E+00	NC
3-Nitroaniline	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	4.46E+03 *	NC	1.77E+02 *	NC	4.06E+04 *	NC	3.24E+01 +	NC	1.42E+05 #	NC	1.36E+00	NC
4-Nitroaniline	6.82E-03	NC	2.06E+03 *	C	1.36E+03 *	C	1.02E+04 *	NC	7.74E+02 *	C	6.34E+04 *	NC	1.75E+01 +	NC	5.32E+05 #	NC	1.39E+01	C
Nitrobenzene	3.89E-03	NC	NA	--	5.11E+02	NC	4.19E+03 *	NC	4.55E+02	NC	1.90E+02	NC	4.23E+02	NC	4.36E+02	NC	1.54E+00	NC
Nitroglycerin	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	8.66E+03	NC	4.84E+01 +	NC	1.44E+04	NC	3.26E-01	NC
2-Nitrophenol	7.79E-03	NC	3.10E+03 *	NC	2.04E+03	NC	8.40E+03 *	NC	1.07E+03	NC	7.11E+03 *	NC	8.79E+02 +	NC	4.03E+04 #	NC	6.99E+00	NC
4-Nitrophenol	1.95E-03	NC	3.10E+03 *	NC	2.04E+03 *	NC	2.24E+03 *	NC	7.95E+02 *	NC	1.08E+04 *	NC	4.83E+00 +	NC	1.51E+05 #	NC	5.83E+00	NC
n-Nitrosodimethylamine	3.90E-06	C	8.50E-01	C	5.61E-01	C	4.21E+00	C	3.13E-01	C	4.01E-01	C	2.39E-01	C	3.24E+00	C	4.38E-02	C
n-Nitrosodi-n-propylamine	2.73E-05	C	6.19E+00	C	4.09E+00	C	2.94E+01	C	2.27E+00	C	7.52E+00	C	4.07E+00	C	4.41E+01	C	2.58E-02	C
n-Nitrosodiphenylamine	2.12E-02	C	8.85E+03 *	C	5.84E+03 *	C	3.27E+04 *	C	3.18E+03 *	C	2.12E+05 *	C	5.56E+03 +	C	2.75E+04 #	C	3.64E+00	C
n-Nitrosopyrrolidine	8.94E-05	C	2.06E+01	C	1.36E+01	C	9.64E+01	C	7.56E+00	C	2.68E+02	C	3.51E+00	C	4.75E+03	C	3.78E-01	C
2-Nitrotoluene	8.30E-04	C	NA	--	1.24E+02	C	8.95E+02 *	C	1.09E+02	C	5.08E+01	C	1.06E+02	C	5.76E+01	C	1.78E-01	C
3-Nitrotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	7.03E+03 *	NC	1.76E+04 +	NC	7.97E+03 #	NC	2.93E+01	NC
4-Nitrotoluene	1.12E-02	C	NA	--	1.68E+03 *	C	1.21E+04 *	C	1.48E+03 *	C	5.70E+02 *	C	1.45E+03 +	C	6.46E+02 #	C	2.41E+00	C
Pentachlorobenzene	5.45E-03	NC	1.24E+03 *	NC	8.18E+02 *	NC	5.88E+03 *	NC	4.54E+02 *	NC	5.56E+03 *	NC	6.74E+02 +	NC	2.48E+01 #	NC	3.34E-02	NC
Pentachloronitrobenzene	7.34E-04	C	1.67E+02 *	C	1.10E+02 *	C	1.80E+03 *	C	6.40E+01	C	1.86E+04 *	C	3.82E+02 +	C	1.18E+02 #	C	1.45E-02	C
Pentachlorophenol	1.06E-02	C	1.45E+02	C	2.38E+02	C	3.76E+07 *	C	9.00E+01	C	2.42E+06 *	C	6.72E+02 +	C	6.81E+05 #	C	4.08E-03	C
Pentaerythritol tetranitrate	2.73E+00	NC	6.19E+05 *	NC	4.09E+05 *	NC	9.68E+09 *	NC	2.46E+05 *	NC	3.30E+08 *	NC	4.89E+05 +	NC	8.85E+06 #	NC	1.99E+02 #	NC
Phenanthrene	2.04E-01	NC	NA	--	3.07E+04 *	NC	2.20E+05 *	NC	2.69E+04 *	NC	7.99E+05 *	NC	5.09E+04 +	NC	9.59E+03 #	NC	2.33E+00 #	NC
Phenol	3.89E-01	NC	4.65E+05 *	NC	3.07E+05 *	NC	4.20E+05 *	NC	1.28E+05 *	NC	5.04E+05 *	NC	3.63E+04 +	NC	2.26E+06 #	NC	1.26E+03	NC
m-Phenylenediamine	4.09E-02	NC	9.29E+03	NC	6.13E+03	NC	4.41E+04 *	NC	3.41E+03	NC	1.68E+05 *	NC	1.09E+01	NC	2.83E+06 #	NC	4.76E+02	NC
Polychlorinated biphenyls (PCBs)	5.45E-04	C	1.55E+01	C	1.43E+01	C	9.50E+02 *	C	7.38E+00	C	6.94E+03 *	C	4.34E+01 +	C	3.88E+00 #	C	2.31E-04	C
n-Propylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	3.21E+02 *	NC	3.01E+04 +	NC	8.75E+01 #	NC	6.54E+00	NC
Pyrene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	2.05E+06 *	NC	1.64E+04 *	NC	8.64E+07 *	NC	6.18E+04 +	NC	1.39E+05 #	NC	9.07E-01 #	NC
RDX	1.73E-03	C	3.94E+02	C	2.60E+02	C	3.34E+03 *	C	1.50E+02	C	2.70E+04 *	C	1.43E+02 +	C	6.33E+04 #	C	4.59E+00	C
Styrene	1.95E+00	NC	NA	--	2.04E+05 *	NC	2.10E+06 *	NC	1.86E+05 *	NC	9.54E+03 *	NC	2.27E+05 +	NC	2.30E+03 #	NC	9.27E+01	NC
1,1,1,2-Tetrachloroethane	7.37E-03	C	NA	--	1.10E+03 *	C	7.94E+03 *	C	9.67E+02 *	C	4.74E+00	C	8.60E+02	C	9.82E+00	C	8.11E-01	C
1,1,2,2-Tetrachloroethane	9.40E-04	C	NA	--	1.43E+02	C	1.01E+03	C	1.25E+02	C	4.78E+00	C	1.10E+02	C	8.06E+00	C	2.36E-01	C
1,2,4,5-Tetrachlorobenzene	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.20E+03 *	NC	1.70E+02 *	NC	1.56E+02 *	NC	8.03E+02 +	NC	1.67E+01 #	NC	2.66E-02	NC
Tetrachloroethylene	9.09E-03	C	NA	--	5.30E+01	C	9.80E+03 *	C	5.27E+01	C	1.57E+00	C	1.05E+03	C	1.77E+00	C	1.85E-02	C
Tetrahydrofuran	2.81E-02	C	NA	--	3.77E+03	C	3.03E+04	C	3.35E+03	C	4.89E+01	C	2.37E+03	C	8.36E+02	C	4.61E+01	C
Tertiary-amyl-methyl-ether (TAME)	1.57E-01	NC	NA	--	4.09E+04 *	NC	1.69E+05 *	NC	3.29E+04 *	NC	4.71E+01	NC	1.86E+04	NC	1.66E+02	NC	1.03E+02	NC
Tertiary-butyl-alcohol (TBA)	5.86E-01	NC	NA	--	9.20E+04 *	NC	6.32E+05 *	NC	8.03E+04 *	NC	8.26E+03	NC	5.69E+04	NC	1.06E+05	NC	8.44E+02	NC
Toluene	9.54E+00	NC	NA	--	8.18E+04 *	NC	1.03E+07 *	NC	8.11E+04 *	NC	4.01E+03 *	NC	9.09E+05 +	NC	4.08E+03 #	NC	4.76E+01	NC
1,2,4-Trichlorobenzene	6.82E-03	NC	NA	--	7.95E+03 *	C	7.35E+03 *	NC	4.27E+03 *	NC	3.49E+02	NC	1.88E+03	NC	3.42E+01	NC	1.25E+00	C
1,3,5-Trichlorobenzene	7.79E-02	NC	NA	--	3.07E+03 *	NC	8.40E+04 *	NC	2.96E+03 *	NC	4.97E+02 *	NC	1.03E+04 +	NC	1.29E+02 #	NC	3.73E-01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
1,1,1-Trichloroethane	4.28E+00	NC	NA	--	2.86E+05 *	NC	4.62E+06 *	NC	2.69E+05 *	NC	5.51E+02	NC	4.55E+05	NC	8.22E+02	NC	3.13E+02	NC
1,1,2-Trichloroethane	3.41E-03	C	NA	--	5.02E+02	C	3.67E+03 *	C	4.42E+02	C	3.50E+00	C	3.62E+02	C	1.04E+01	C	1.11E+00	C
Trichloroethylene	2.73E-02	C	NA	--	2.20E+03 *	C	2.94E+04 *	C	2.05E+03 *	C	7.68E+00	C	2.86E+03	C	8.41E+00	C	2.64E+00	C
Trichlorofluoromethane	1.36E+00	NC	NA	--	3.07E+05 *	NC	1.47E+06 *	NC	2.54E+05 *	NC	5.91E+01	NC	1.30E+05	NC	4.31E+01	NC	3.26E+02	NC
2,4,5-Trichlorophenol	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.30E+06 *	NC	5.88E+04 *	NC	1.04E+07 *	NC	1.91E+05 +	NC	1.09E+06 #	NC	4.23E+01	NC
2,4,6-Trichlorophenol	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	7.35E+02	NC	5.68E+01	NC	1.29E+03	NC	1.76E+02 +	NC	5.60E+02	NC	2.74E-02	NC
1,2,3-Trichloropropane	9.54E-05	C	NA	--	1.43E+01	C	1.03E+02	C	1.26E+01	C	2.87E-01	C	1.11E+01	C	8.22E-01	C	1.76E-02	C
1,1,2-Trichlorotrifluoroethane	5.86E+01	NC	NA	--	3.07E+07 *	NC	6.32E+07 *	NC	2.06E+07 *	NC	5.16E+03 *	NC	1.69E+07 +	NC	1.04E+03 #	NC	2.06E+04 #	NC
1,2,4-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	1.15E+02	NC	1.29E+03	NC	6.23E+00	NC	9.23E+00	NC
1,3,5-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	1.81E+01	NC	1.29E+03	NC	4.47E+00	NC	8.55E+00	NC
1,3,5-Trinitrobenzene	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	2.36E+06 *	NC	2.32E+02 +	NC	1.73E+07 #	NC	2.93E+02 #	NC
2,4,6-Trinitrotoluene (TNT)	3.41E-03	NC	7.74E+02 *	NC	5.11E+02 *	NC	1.21E+07 *	NC	3.08E+02 *	NC	4.91E+04 *	NC	4.84E+02 +	NC	2.62E+04 #	NC	2.33E+00	NC
Vinyl chloride (for residential scenario)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Vinyl chloride (for occupational scenatio)	6.20E-03	C	NA	--	2.04E+01	C	6.68E+03 *	C	2.04E+01	C	1.69E-01	C	4.84E+02	C	5.82E-01	C	7.53E-02	C
Xylenes (total)	1.98E-01	NC	NA	--	2.04E+05 *	NC	2.13E+05 *	NC	1.04E+05 *	NC	1.99E+02	NC	2.34E+04	NC	9.49E+01	NC	1.18E+02	NC
Pesticides																		
Acetochlor	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	6.53E+06 *	NC	1.49E+04 +	NC	5.28E+06 #	NC	5.93E+01	NC
Acifluorfen	1.95E-02	NC	2.01E+04	NC	1.33E+04	NC	6.91E+07 *	NC	8.00E+03	NC	1.93E+07 *	NC	2.20E-02 +	NC	2.65E+07 #	NC	1.84E+03	NC
Acrolein	3.89E-05	NC	NA	--	5.11E+02	NC	4.20E+01	NC	3.88E+01	NC	1.08E-01	NC	2.93E+00	NC	6.12E-01	NC	1.66E+01	NC
Alachlor	2.39E-03	C	7.74E+02 *	C	5.11E+02 *	C	8.47E+06 *	C	3.08E+02 *	C	3.04E+05 *	C	8.63E+01 +	C	2.57E+05 #	C	4.02E-01	C
Aldicarb	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	1.24E+04 *	NC	5.86E+02	NC	9.37E+04 *	NC	3.70E+01 +	NC	6.36E+05 #	NC	9.60E+00	NC
Aldicarb sulfone	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	5.12E+04 *	NC	9.92E+01 +	NC	7.28E+05 #	NC	2.64E+02	NC
Aldrin	1.11E-05	C	2.55E+00	C	1.68E+00	C	1.97E+02	C	1.01E+00	C	1.47E+04 *	C	6.98E+00 +	C	1.02E+00 #	C	3.82E-03	C
Ametryn	6.13E-02	NC	1.39E+04 *	NC	9.20E+03 *	NC	2.18E+08 *	NC	5.54E+03 *	NC	1.56E+07 *	NC	1.23E+03 +	NC	6.62E+06 #	NC	1.09E+01	NC
Atrazine	8.67E-04	C	1.89E+02 *	C	1.24E+02 *	C	3.08E+06 *	C	7.49E+01	C	2.73E+05 *	C	1.67E+01 +	C	9.25E+04 #	C	1.55E-01	C
Baygon	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	9.68E+07 *	NC	2.46E+03 *	NC	2.24E+05 *	NC	3.63E+03	NC	2.24E+05 #	NC	NA	--
Butylate	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	1.33E+04 *	NC	5.77E+04 +	NC	1.68E+04 #	NC	1.29E+01	NC
Captan	8.30E-02	C	1.89E+04 *	C	1.24E+04 *	C	2.95E+08 *	C	7.49E+03 *	C	1.56E+05 *	C	3.72E+04 +	C	1.28E+05 #	C	5.02E+01 #	C
Carbaryl	7.50E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	8.08E+05 *	NC	5.72E+04 *	NC	2.81E+03 *	NC	2.23E+05 +	NC	4.42E+03 #	NC	2.29E+02 #	NC
Carbofuran	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	1.32E+06 *	NC	4.90E+02 +	NC	3.92E+06 #	NC	1.41E+01	NC
Carboxin	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	7.35E+05 *	NC	5.68E+04 *	NC	8.15E+01	NC	1.26E+05 +	NC	1.46E+01	NC	1.04E+02	NC
Chloramben	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	1.01E+06 *	NC	1.35E+04 +	NC	8.61E+05 #	NC	2.91E+01	NC
Chlordane (technical)	5.45E-04	C	1.24E+02 *	C	8.18E+01 *	C	4.22E+03 *	C	4.87E+01 *	C	1.38E+05 *	C	3.82E+02 +	C	1.94E+02 #	C	1.96E-03	C
Chlordane, gamma	5.45E-04	C	3.10E+02 *	C	8.18E+01 *	C	3.18E+03 *	C	6.34E+01 *	C	7.80E+04 *	C	1.36E+02 +	C	3.37E+01 #	C	7.32E-03	C
Chlorothalonil	6.16E-02	C	3.50E+04 *	C	9.23E+03 *	C	2.19E+08 *	C	7.30E+03 *	C	4.32E+06 *	C	1.02E+04 +	C	1.26E+05 #	C	3.26E+00 #	C
Chlorpyrifos	2.04E-02	NC	4.65E+03 *	NC	3.07E+03 *	NC	7.26E+07 *	NC	1.85E+03 *	NC	3.23E+05 *	NC	3.46E+03 +	NC	2.92E+04 #	NC	5.85E-01 #	NC
Coumaphos	4.77E-02	NC	1.08E+04 *	NC	7.15E+03 *	NC	1.69E+08 *	NC	4.31E+03 *	NC	5.69E+08 *	NC	1.29E+03 +	NC	6.01E+06 #	NC	2.78E+00 #	NC
Cyanazine	2.27E-04	C	5.16E+01	C	3.41E+01	C	2.45E+02	C	1.89E+01	C	1.39E-02	C	4.35E+01 +	C	5.49E-03	C	2.59E-01	C
Dacthal	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	8.35E+03 *	NC	2.78E-01 +	NC	3.01E+01 #	NC	1.60E+00 #	NC
Dalapon, sodium salt	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	2.20E+05 *	NC	1.70E+04 *	NC	3.91E+05 *	NC	1.54E+04 +	NC	5.91E+06 #	NC	1.45E+02	NC
DDD	7.95E-04	C	1.81E+02	C	1.19E+02	C	2.82E+06 *	C	7.18E+01	C	1.40E+07 *	C	3.82E+02 +	C	2.36E+03 #	C	3.52E-03	C

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
DDE	5.61E-04	C	1.28E+02	C	8.42E+01	C	3.59E+04 *	C	5.06E+01	C	1.00E+07 *	C	3.21E+02 +	C	3.78E+02 #	C	2.83E-03	C
DDT	5.62E-04	C	1.28E+02	C	8.42E+01	C	2.00E+06 *	C	5.07E+01	C	1.59E+07 *	C	3.36E+02 +	C	1.02E+03 #	C	1.51E-03	C
DEF	2.04E-04	NC	1.55E+02	NC	3.07E+01	NC	7.26E+05 *	NC	2.56E+01	NC	1.30E+07 *	NC	8.27E+01 +	NC	6.96E+03 #	NC	1.01E-03	NC
Demeton	2.73E-04	NC	6.19E+02	NC	4.09E+02	NC	2.94E+02	NC	1.34E+02	NC	1.24E+01	NC	4.95E+01 +	NC	7.63E+00	NC	5.21E-01	NC
Diazinon	6.13E-03	NC	1.39E+03 *	NC	9.20E+02 *	NC	2.18E+07 *	NC	5.54E+02 *	NC	5.06E+05 *	NC	1.64E+03 +	NC	3.59E+05 #	NC	4.27E-01	NC
Dicamba	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	1.44E+07 *	NC	1.73E+03 +	NC	1.96E+07 #	NC	1.07E+02	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	2.92E+07 *	NC	2.26E+03 +	NC	5.48E+06 #	NC	1.73E+01	NC
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	5.45E-02	NC	3.10E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	6.47E+03 *	NC	1.84E+07 *	NC	5.35E+02 +	NC	5.78E+06 #	NC	2.84E+00	NC
Dichloroprop (2,4-DP)	6.82E-02	NC	3.10E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	7.68E+03 *	NC	2.49E+05 *	NC	4.20E+03 +	NC	4.72E+06 #	NC	7.18E+00	NC
Dieldrin	1.19E-05	C	2.71E+00	C	1.79E+00	C	6.78E+01 *	C	1.06E+00	C	1.62E+03 *	C	7.82E+00 +	C	1.28E+01 #	C	5.34E-04	C
Dimethoate	1.36E-03	NC	3.10E+02	NC	2.04E+02	NC	4.84E+06 *	NC	1.23E+02	NC	2.48E+04 *	NC	4.95E-01 +	NC	1.17E+05 #	NC	1.29E+01	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	9.06E+04 *	NC	2.12E+03 +	NC	1.15E+05 #	NC	3.98E-01	NC
Diquat	1.50E-02	NC	3.41E+03	NC	2.25E+03	NC	5.32E+07 *	NC	1.35E+03	NC	5.64E+06 *	NC	2.57E-02 +	NC	4.44E+06 #	NC	3.48E+04	NC
Disulfoton	2.73E-04	NC	6.19E+01 *	NC	4.09E+01 *	NC	9.68E+05 *	NC	2.46E+01 *	NC	1.08E+01 *	NC	2.80E+01 +	NC	1.74E+02 #	NC	1.53E-02	NC
Diuron	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	4.36E+04 *	NC	2.07E+03 +	NC	1.89E+04 #	NC	3.48E+00	NC
Endosulfan	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	8.93E+04 *	NC	3.55E+03 *	NC	8.19E+05 *	NC	2.92E+04 +	NC	6.44E+04 #	NC	6.59E+00 #	NC
Endothall	1.36E-01	NC	3.10E+04	NC	2.04E+04	NC	5.63E+05 *	NC	1.20E+04	NC	7.37E+08 *	NC	1.38E-01	NC	9.31E+08 #	NC	8.28E+01	NC
Endrin	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	3.20E+05 *	NC	1.34E+03 +	NC	4.39E+03 #	NC	9.16E-02	NC
Endrin aldehyde	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	1.41E+04 *	NC	1.82E+02	NC	4.07E+05 *	NC	5.70E+02 +	NC	3.30E+01 #	NC	6.31E-03	NC
Endrin ketone	1.95E-04	NC	4.65E+02	NC	3.07E+02	NC	6.91E+05 *	NC	1.85E+02	NC	1.41E+06 *	NC	4.97E+01 +	NC	1.38E+03 #	NC	2.79E-02	NC
Eptam	1.70E-01	NC	NA	--	2.56E+04 *	NC	1.84E+05 *	NC	2.24E+04 *	NC	8.62E+03 *	NC	2.64E+04 +	NC	5.90E+03 #	NC	1.90E+01	NC
Ethoprop	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	2.42E+06 *	NC	6.16E+01	NC	1.19E+05 *	NC	1.09E+02 +	NC	1.64E+04 #	NC	9.07E-02	NC
Fenamiphos	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	4.74E+05 *	NC	1.15E+01	NC	2.36E+05 #	NC	NA	--
Fenthion	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	2.65E+04 *	NC	8.49E+01 +	NC	4.04E+03 #	NC	9.24E-02	NC
Fluometuron	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	1.12E+07 *	NC	7.46E+02	NC	1.02E+07 #	NC	NA	--
Fonofos	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	2.35E+05 *	NC	2.41E+03	NC	1.11E+04 #	NC	5.04E-01	NC
alpha-Hexachlorocyclohexane	3.03E-05	C	6.88E+00	C	4.54E+00	C	4.64E+01 *	C	2.58E+00	C	2.98E+02 *	C	1.74E+01 +	C	4.07E+01 #	C	1.06E-03	C
beta-Hexachlorocyclohexane	1.03E-04	C	2.41E+01 *	C	1.59E+01 *	C	3.66E+05 *	C	9.58E+00 *	C	1.25E+04 *	C	4.98E+01 +	C	1.66E+03 #	C	3.59E-03	C
delta-Hexachlorocyclohexane	1.07E-04	C	2.41E+01	C	1.59E+01	C	3.80E+05 *	C	9.58E+00	C	2.62E+04 *	C	1.80E+01 +	C	1.04E+03 #	C	5.33E-03	C
gamma-Hexachlorocyclohexane	1.73E-04	C	3.94E+01	C	2.60E+01	C	2.16E+02 *	C	1.46E+01	C	1.13E+03 *	C	1.00E+02 +	C	1.77E+02 #	C	1.35E-02	C
Glyphosate	6.82E-01	NC	1.55E+05	NC	1.02E+05	NC	1.40E+07 *	NC	6.13E+04	NC	8.90E+14 *	NC	6.82E-01 +	NC	4.07E+13 #	NC	7.45E+04 #	NC
Guthion	1.02E-02	NC	2.32E+03 *	NC	1.53E+03 *	NC	3.63E+07 *	NC	9.23E+02 *	NC	2.20E+06 *	NC	1.24E-01 +	NC	1.43E+06 #	NC	6.09E+00 #	NC
Heptachlor	4.20E-05	C	9.64E+00	C	6.36E+00	C	4.53E+01	C	3.53E+00	C	4.31E+00	C	3.11E+01 +	C	6.78E-04	C	2.78E-03	C
Heptachlor epoxide	2.10E-05	C	4.76E+00	C	3.14E+00	C	7.44E+04 *	C	1.89E+00	C	1.67E+04 *	C	1.30E+01 +	C	3.39E+01 #	C	5.56E-04	C
Hexazinone	2.25E-01	NC	5.11E+04 *	NC	3.37E+04 *	NC	7.99E+08 *	NC	2.03E+04 *	NC	1.19E+07 *	NC	7.26E-01 +	NC	4.35E+07 #	NC	1.43E+02	NC
Malathion	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	1.78E+08 *	NC	1.62E+04 +	NC	1.67E+07 #	NC	1.25E+02	NC
Maleic hydrazide	3.41E+00	NC	7.74E+05 *	NC	5.11E+05 *	NC	7.15E+06 *	NC	2.95E+05 *	NC	6.36E+07 *	NC	2.29E+02 +	NC	2.13E+08 #	NC	8.64E+04 #	NC
Maneb	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	2.14E+06 *	NC	1.48E+04	NC	6.47E+05 #	NC	NA	--
Methomyl	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	2.59E+05 *	NC	1.45E+04 *	NC	1.65E+06 *	NC	8.67E+01 +	NC	1.16E+07 #	NC	6.20E+02	NC
Methoxychlor	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	3.63E+05 *	NC	3.05E+03 *	NC	1.63E+07 *	NC	1.80E+04 +	NC	2.82E+04 #	NC	2.24E-01 #	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	3.41E-03	NC	7.74E+02 *	NC	5.11E+02	NC	1.21E+07 *	NC	3.08E+02	NC	1.92E+05 *	NC	1.78E+01 +	NC	3.31E+05 #	NC	2.35E-01	NC
MCPP	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	2.42E+04 *	NC	4.52E+02 +	NC	4.58E+05 #	NC	7.68E-01	NC
Metolachlor	1.02E+00	NC	2.32E+05 *	NC	1.53E+05 *	NC	3.63E+09 *	NC	9.23E+04 *	NC	4.77E+08 *	NC	4.12E+04 +	NC	1.13E+08 #	NC	2.63E+02	NC
Metribuzin	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	6.05E+08 *	NC	1.54E+04 *	NC	1.34E+07 *	NC	1.60E+00 +	NC	2.18E+07 #	NC	1.27E+03 #	NC
Mirex	1.06E-05	C	2.41E+00	C	1.59E+00	C	1.14E+01	C	8.84E-01	C	3.98E+00	C	2.51E+00 +	C	1.25E-01	C	NA	--
Naled	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03	NC	9.76E+04 *	NC	2.35E+03 +	NC	1.16E+05 #	NC	5.19E+01	NC
o,o,o-Triethylphosphorothioate	5.66E-05	NC	NA	--	8.48E+00	NC	6.10E+01	NC	7.45E+00	NC	1.28E+00	NC	8.91E+00	NC	4.49E-01	NC	1.21E-02	NC
Oxamyl	1.70E-01	NC	3.87E+04 *	NC	2.56E+04	NC	6.05E+08 *	NC	1.54E+04	NC	2.02E+06 *	NC	1.93E+02 +	NC	2.02E+07 #	NC	1.43E+04	NC
Paraquat	3.07E-02	NC	6.97E+03	NC	4.60E+03	NC	1.09E+08 *	NC	2.77E+03	NC	5.22E+08 *	NC	2.30E+02 +	NC	5.69E+06 #	NC	5.01E+05	NC
ethyl-Parathion	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	1.45E+08 *	NC	3.69E+03 *	NC	2.41E+07 *	NC	1.69E+04 +	NC	7.25E+05 #	NC	2.69E+00	NC
methyl-Parathion	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	1.02E+06 *	NC	1.36E+02 +	NC	3.36E+04 #	NC	4.80E-01	NC
Pendimethalin	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	9.68E+08 *	NC	2.46E+04 *	NC	1.84E+09 *	NC	5.66E+04 +	NC	1.63E+06 #	NC	1.72E+00 #	NC
Phenylmercuric acetate	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	1.94E+06 *	NC	4.93E+01	NC	2.06E+04 *	NC	1.05E+00 +	NC	4.58E+04 #	NC	4.44E+00	NC
Phorate	1.36E-03	NC	3.10E+02 *	NC	2.04E+02 *	NC	4.84E+06 *	NC	1.23E+02	NC	2.39E+03 *	NC	1.40E+02 +	NC	6.03E+02 #	NC	1.46E-01	NC
Picloram	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	5.14E+05 *	NC	3.98E+04 *	NC	1.45E+01	NC	7.19E+04 +	NC	5.78E-01	NC	8.56E+01	NC
Prometon	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	3.80E+07 *	NC	9.64E+02 +	NC	1.20E+07 #	NC	1.81E+01	NC
Pronamide	5.11E-01	NC	1.16E+05 *	NC	7.67E+04 *	NC	1.81E+09 *	NC	4.62E+04 *	NC	8.34E+05 *	NC	5.21E+04 +	NC	6.75E+05 #	NC	3.88E+01 #	NC
Propachlor	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	2.62E+06 *	NC	7.18E+03	NC	1.63E+06 #	NC	NA	--
Propanil	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	1.72E+07 *	NC	5.80E+02 +	NC	3.18E+06 #	NC	4.99E+00	NC
Propazine	4.24E-03	C	9.64E+02 *	C	6.36E+02 *	C	1.51E+07 *	C	3.83E+02 *	C	4.43E+05 *	C	8.49E+01 +	C	4.56E+05 #	C	4.40E-01	C
Propham	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	3.59E+05 *	NC	1.19E+04 *	NC	3.97E+06 *	NC	1.07E+04 +	NC	6.85E+06 #	NC	2.46E+01	NC
Silvex (2,4,5-TP)	5.45E-02	NC	1.24E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	4.93E+03 *	NC	2.25E+06 *	NC	2.14E+03 +	NC	5.85E+06 #	NC	3.89E+00	NC
Simazine	1.59E-03	C	3.61E+02 *	C	2.38E+02 *	C	5.65E+06 *	C	1.44E+02 *	C	1.37E+05 *	C	2.15E+01 +	C	1.57E+05 #	C	3.45E-01	C
Strychnine	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	4.41E+05 *	NC	2.58E-03 +	NC	8.35E+05 #	NC	3.75E+00	NC
Tebuthiuron	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	1.69E+09 *	NC	4.31E+04 *	NC	1.56E+07 *	NC	3.23E+00 +	NC	6.54E+07 #	NC	4.52E+02	NC
Terbacil	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	2.71E+06 *	NC	4.45E+01	NC	9.17E+06 #	NC	NA	--
Terbufos	1.70E-04	NC	3.87E+01 *	NC	2.56E+01 *	NC	1.84E+02 *	NC	1.42E+01	NC	1.38E+02 *	NC	3.37E+01	NC	3.48E+01 #	NC	6.40E-03	NC
Terbutryn	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	3.79E+06 *	NC	5.02E+02 +	NC	3.91E+05 #	NC	3.62E-01	NC
Toxaphene	1.70E-04	C	3.94E+01	C	2.60E+01	C	6.05E+05 *	C	1.57E+01	C	7.49E+05 *	C	1.20E+02 +	C	4.92E+02 #	C	6.28E-03	C
Triallate	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	9.55E+04 *	NC	7.38E+03 *	NC	2.73E+05 *	NC	1.60E+04 +	NC	2.05E+04 #	NC	2.12E+00	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	1.65E+06 *	NC	1.61E+03 +	NC	4.51E+06 #	NC	8.18E+00	NC
Trifluralin	2.48E-02	C	5.63E+03 *	C	3.72E+03 *	C	7.88E+04 *	C	2.18E+03 *	C	1.05E+06 *	C	1.37E+04 +	C	1.29E+04 #	C	2.47E-01	C
Warfarin	1.95E-04	NC	4.65E+02 *	NC	3.07E+02 *	NC	6.91E+05 *	NC	1.85E+02 *	NC	1.61E+05 *	NC	3.28E+00 +	NC	2.93E+04 #	NC	3.93E-01	NC
Metals																		
Aluminum	9.74E-03	NC	1.55E+07	NC	1.02E+06	NC	3.46E+07	NC	9.33E+05	NC	NA	--	NA	NC	NA	--	3.10E+04	NC
Antimony	9.74E-05	NC	6.19E+03	NC	4.09E+02	NC	3.46E+05	NC	3.83E+02	NC	NA	--	NA	NC	NA	--	1.24E+01	NC
Arsenic	1.27E-05	C	9.64E+01	C	1.91E+01	C	4.52E+04	C	1.59E+01	C	NA	--	NA	C	NA	--	5.78E-01	C
Barium	9.54E-04	NC	3.10E+06	NC	2.04E+05	NC	3.39E+06	NC	1.81E+05	NC	NA	--	NA	NC	NA	--	6.19E+03	NC
Beryllium	2.27E-05	C	5.16E+01	C	3.41E+00	C	8.06E+04	C	3.19E+00	C	NA	--	NA	C	NA	--	1.03E-01	C
Cadmium	3.03E-05	C	1.14E+04	C	7.53E+01	C	1.08E+05	C	7.48E+01	C	NA	--	NA	C	NA	--	2.28E+00	C
Chromium (III) total chromium	1.98E-04	NC	2.32E+07	NC	1.53E+06	NC	7.02E+05	NC	4.72E+05	NC	NA	--	NA	NC	NA	--	4.65E+04	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-5
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Chromium (VI)	4.54E-06	C	1.03E+01	C	6.81E-01	C	1.61E+04	C	6.39E-01	C	NA	--	NA	C	NA	--	1.03E-02	C
Copper	1.95E-03	NC	6.19E+05	NC	4.09E+04	NC	6.91E+06	NC	3.81E+04	NC	NA	--	NA	NC	NA	--	1.24E+03	NC
Lead	NA	--	NA	--	NA	--	NA	--	6.60E+02	--	6.60E+02	--	NA	--	NA	--	NA	--
Manganese	9.75E-05	NC	2.17E+06	NC	1.43E+05	NC	3.46E+05	NC	9.67E+04	NC	NA	--	NA	NC	NA	--	4.34E+03	NC
Mercury	5.84E-04	NC	NA	--	NA	--	6.30E+02 *	NC	6.30E+02 *	NC	1.76E+01 *	NC	1.58E+02 +	NC	4.07E-01 #	NC	NA	--
Molybdenum	9.74E-03	NC	7.74E+04	NC	5.11E+03	NC	3.46E+07	NC	4.79E+03	NC	NA	--	NA	NC	NA	--	1.55E+02	NC
Nickel	1.75E-04	NC	3.10E+05	NC	2.04E+04	NC	6.22E+05	NC	1.86E+04	NC	NA	--	NA	NC	NA	--	3.10E+03	NC
Selenium	3.89E-04	NC	7.74E+04	NC	5.11E+03	NC	1.38E+06	NC	4.78E+03	NC	NA	--	NA	NC	NA	--	1.55E+02	NC
Silver	1.95E-05	NC	7.74E+04	NC	5.11E+03	NC	6.91E+04	NC	4.48E+03	NC	NA	--	NA	NC	NA	--	2.58E+02	NC
Strontium	NA	--	9.29E+06	NC	6.13E+05	NC	NA	--	5.75E+05	NC	NA	--	NA	--	NA	--	1.86E+04	NC
Thallium chloride	1.95E-04	NC	1.24E+03	NC	8.18E+01	NC	6.91E+05 *	NC	7.67E+01	NC	NA	--	NA	NC	NA	--	2.48E+00	NC
Vanadium	9.74E-05	NC	1.08E+05	NC	7.15E+03	NC	3.46E+05	NC	6.58E+03	NC	NA	--	NA	NC	NA	--	2.17E+02	NC
Zinc	NA	--	4.65E+06	NC	3.07E+05	NC	NA	--	2.88E+05	NC	NA	--	NA	--	NA	--	1.55E+04	NC
Inorganics																		
Ammonia	1.95E-01	NC	NA	--	NA	--	2.10E+05 *	NC	2.10E+05 *	NC	3.42E+01	NC	6.24E+03	NC	4.69E+02	NC	NA	--
Cyanide	9.74E-03	NC	3.10E+04	NC	2.04E+04	NC	3.46E+07 *	NC	1.23E+04	NC	NA	--	NA	NC	NA	--	6.19E+02	NC
Cyanide (as Sodium Cyanide)	NA	--	6.19E+04 *	NC	4.09E+04 *	NC	NA	--	2.46E+04	NC	NA	--	NA	--	NA	--	1.24E+03	NC
Cyanogen bromide	6.13E-01	NC	1.39E+05 *	NC	9.20E+04 *	NC	6.61E+05 *	NC	5.11E+04 *	NC	6.47E+01	NC	5.29E+04	NC	3.09E+02	NC	2.79E+03	NC
Fluoride (as Sodium Fluoride)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Perchlorate	NA	--	1.08E+03	NC	7.15E+02	NC	NA	--	4.31E+02	NC	NA	--	NA	--	NA	--	2.17E+01	NC
White phosphorus	1.95E-04	NC	3.10E+01 *	NC	2.04E+01 *	NC	2.10E+02 *	NC	1.16E+01	NC	1.05E+00	NC	8.72E+00	NC	1.71E-01	NC	6.19E-01	NC
Total Petroleum Hydrocarbons																		
TPH-GRO																		
Aliphatics - > C6-C8	3.61E+01	NC	NA	--	5.11E+06 *	NC	3.89E+07 *	NC	4.52E+06 *	NC	2.03E+03 *	NC	2.99E+06 +	NC	7.99E+01 #	NC	NA	--
Aliphatics - > C8-C10	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	4.21E+02 *	NC	1.64E+05 +	NC	2.73E+00 #	NC	NA	--
Aromatics - >C8-C10	3.89E-01	NC	NA	--	4.09E+04 *	NC	4.19E+05 *	NC	3.72E+04 *	NC	6.46E+02 *	NC	3.22E+04 +	NC	8.44E+01 #	NC	NA	--
TPH-DRO																		
Aliphatics - >C10-C12	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	2.09E+03 *	NC	1.64E+05 +	NC	1.82E+00 #	NC	NA	--
Aliphatics - >C12-C16	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	9.50E+03 *	NC	1.64E+05 +	NC	4.21E-01 #	NC	NA	--
Aliphatics - >C16-C21	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C10-C12	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	3.48E+03 *	NC	3.22E+04 +	NC	2.69E+02 #	NC	NA	--
Aromatics - >C12-C16	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	1.83E+04 *	NC	3.22E+04 +	NC	6.67E+02 #	NC	NA	--
Aromatics - >C16-C21	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--
TPH-ORO																		
Aliphatics - >C21-C35	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C21-C35	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
VOCs and SVOCs																		
Acenaphthene	4.09E-01	NC	7.15E+04 *	NC	6.13E+04 *	NC	4.41E+05 *	NC	3.07E+04 *	NC	1.02E+06 *	NC	1.52E+05 +	NC	2.44E+04 #	NC	7.50E+00 #	NC
Acenaphthylene	4.09E-01	NC	NA	--	6.13E+04 *	NC	4.41E+05 *	NC	5.38E+04 *	NC	1.28E+06 *	NC	1.46E+05 +	NC	3.13E+04 #	NC	8.89E+00 #	NC
Acetone	6.13E+00	NC	NA	--	9.20E+05 *	NC	6.61E+06 *	NC	8.07E+05 *	NC	5.67E+04	NC	7.71E+05 +	NC	4.92E+05	NC	3.69E+04	NC
Acetonitrile	1.17E-01	NC	NA	--	1.74E+04	NC	1.26E+05	NC	1.53E+04	NC	2.04E+03	NC	1.39E+04	NC	9.97E+03	NC	6.97E+02	NC
Acrylamide	4.20E-05	C	9.64E+00	C	6.36E+00	C	4.53E+01	C	3.53E+00	C	1.00E+02	C	9.93E-03	C	2.46E+02	C	5.72E-01	C
Acrylic acid	1.95E-03	NC	7.74E+05 *	NC	5.11E+05 *	NC	2.10E+03	NC	2.09E+03	NC	1.36E+03	NC	5.45E+01	NC	1.15E+04	NC	8.26E+03	NC
Acrylonitrile	8.02E-04	C	NA	--	5.30E+01	C	8.64E+02	C	4.99E+01	C	2.46E+00	C	1.17E+02	C	2.10E+01	C	9.42E-01	C
Allyl alcohol	3.41E-02	NC	7.74E+03	NC	5.11E+03	NC	3.67E+04	NC	2.84E+03	NC	6.08E+03	NC	4.28E+03	NC	2.12E+04	NC	1.11E+02	NC
Allyl chloride	1.95E-03	NC	4.49E+02	NC	2.96E+02	NC	2.10E+03	NC	1.65E+02	NC	2.36E+03	NC	1.78E+02	NC	5.80E+03	NC	1.06E+00	NC
Aniline	1.95E-03	NC	7.57E+03 *	C	4.99E+03	C	2.10E+03	NC	1.41E+03	NC	8.83E+02	NC	3.06E+02	NC	5.33E+03	NC	4.67E+01	C
Anthracene	2.04E+00	NC	3.57E+05 *	NC	3.07E+05 *	NC	2.20E+06 *	NC	1.54E+05 *	NC	5.96E+06 *	NC	9.94E+05 +	NC	3.45E+04 #	NC	1.76E+01 #	NC
Aroclor 1016	4.77E-04	NC	7.74E+01	NC	7.15E+01	NC	2.00E+03 *	NC	3.65E+01	NC	3.54E+04 *	NC	3.90E+02 +	NC	3.33E+01 #	NC	1.80E-03	NC
Aroclor 1221	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.03E+02 *	C	6.94E+00	C	1.31E+01	C	5.28E+01	C	3.94E-01	C	9.26E-04	C
Aroclor 1242	9.54E-05	C	1.55E+01 *	C	1.43E+01 *	C	1.03E+02 *	C	6.94E+00	C	1.46E+02 *	C	8.07E+01 +	C	3.91E+00 #	C	3.94E-04	C
Aroclor 1248	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.80E+02 *	C	7.14E+00	C	1.42E+03 *	C	9.64E+01 +	C	8.84E-01 #	C	2.13E-04	C
Aroclor 1254	9.54E-05	C	1.55E+01	C	1.43E+01	C	2.92E+02 *	C	7.25E+00	C	3.74E+03 *	C	9.64E+01 +	C	1.22E+00 #	C	1.84E-04	C
Aroclor 1260	9.54E-05	C	1.55E+01	C	1.43E+01	C	7.99E+02	C	7.37E+00	C	2.82E+04 *	C	1.30E+02 +	C	7.29E-01 #	C	2.03E-04	C
Azobenzene	1.76E-03	C	NA	--	2.60E+02	C	6.25E+03 *	C	2.50E+02	C	9.31E+04 *	C	5.51E+02 +	C	2.96E+02 #	C	1.39E-02	C
Benzene	1.06E-02	C	NA	--	8.18E+02	C	1.14E+04 *	C	7.63E+02	C	4.23E+00	C	1.90E+03	C	9.12E+00	C	1.06E+00	C
Benzidine	8.14E-07	C	1.89E-01	C	1.24E-01	C	2.82E+01	C	7.48E-02	C	4.71E+03	C	7.17E-06	C	4.56E+00	C	1.16E-03	C
Benzo(a)anthracene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	1.74E+06 *	C	2.11E+01	C	2.07E+06 *	C	1.19E+02 +	C	8.78E+02 #	C	6.37E-04	C
Benzo(a)pyrene	4.89E-05	C	4.57E+00	C	3.92E+00	C	1.74E+05 *	C	2.11E+00	C	1.21E+06 *	C	9.12E+00 +	C	2.00E+02 #	C	3.74E-05	C
Benzo(b)fluoranthene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	7.96E+03 *	C	2.10E+01 *	C	5.48E+05 *	C	3.38E+02 +	C	7.54E+01 #	C	3.68E-04	C
Benzo(g,h,i)perylene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.65E+04 *	NC	2.47E+09 *	NC	1.52E+03 +	NC	2.64E+05 #	NC	2.10E-01 #	NC
Benzo(k)fluoranthene	4.89E-04	C	4.57E+02 *	C	3.92E+02 *	C	1.74E+06 *	C	2.11E+02 *	C	2.91E+07 *	C	1.34E+02 +	C	3.99E+03 #	C	3.80E-03 #	C
Benzoic acid	2.73E+01	NC	6.19E+06 *	NC	4.09E+06 *	NC	2.94E+07 *	NC	2.27E+06 *	NC	9.88E+06 *	NC	5.33E+06 +	NC	8.56E+07 #	NC	1.10E+04 #	NC
Benzyl alcohol	2.04E+00	NC	4.65E+05 *	NC	3.07E+05 *	NC	2.20E+06 *	NC	1.70E+05 *	NC	1.99E+06 *	NC	1.74E+05 +	NC	1.09E+07 #	NC	2.54E+03	NC
1,1-Biphenyl	3.41E-01	NC	NA	--	5.11E+04 *	NC	3.67E+05 *	NC	4.49E+04 *	NC	6.76E+04 *	NC	1.33E+05	NC	8.10E+03 #	NC	9.87E+00 #	NC
Bis(2-chloroethyl)ether	1.65E-04	C	NA	--	2.60E+01	C	1.78E+02	C	2.27E+01	C	1.02E+01	C	3.66E+01	C	5.03E+01	C	1.93E-01	C
Bis(2-chloroisopropyl)ether	5.45E-03	C	NA	--	4.09E+02	C	5.88E+03 *	C	3.82E+02	C	1.35E+02	C	1.36E+03	C	3.01E+02	C	5.31E-01	C
Bis(chloromethyl)ether	8.79E-07	C	NA	--	1.30E-01	C	9.48E-01	C	1.14E-01	C	2.25E-03	C	1.56E-01	C	1.89E-02	C	2.43E-03	C
Bis(2-ethylhexyl)phthalate	1.36E-02	C	3.10E+03	C	2.04E+03	C	4.84E+07 *	C	1.23E+03	C	2.09E+10 *	C	9.66E+02 +	C	2.34E+05 #	C	2.75E-01	C
Bromochloromethane	9.74E-02	NC	NA	--	4.09E+04 *	NC	1.05E+05 *	NC	2.94E+04 *	NC	1.23E+02	NC	1.59E+04	NC	4.47E+02	NC	2.70E+02	NC
Bromodichloromethane	1.47E-03	C	NA	--	4.62E+02	C	1.59E+03	C	3.58E+02	C	5.41E+00	C	7.79E+02	C	1.22E+01	C	1.17E+00	C
Bromoform	4.96E-02	C	5.49E+03 *	C	3.62E+03 *	C	5.34E+04 *	C	2.10E+03 *	C	1.52E+03	C	5.21E+04	C	2.42E+03	C	1.08E+01	C
Bromomethane	9.74E-03	NC	NA	--	1.43E+03	NC	1.05E+04 *	NC	1.26E+03	NC	1.73E+00	NC	2.10E+03	NC	8.78E+00	NC	8.98E+00	NC
4-Bromophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	2.14E+01	C	1.09E+00	C	1.16E+02	C	5.46E+00	C	1.16E+00	C	7.72E-05	C
n-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	1.81E+03 *	NC	5.74E+04 +	NC	1.19E+02 #	NC	2.97E+00	NC
sec-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	1.00E+03 *	NC	5.74E+04 +	NC	8.41E+01 #	NC	4.03E+00	NC
tert-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	1.54E+03 *	NC	5.74E+04 +	NC	1.28E+02 #	NC	3.51E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Butyl benzyl phthalate	1.36E+00	NC	3.10E+05 *	NC	2.04E+05 *	NC	4.84E+09 *	NC	1.23E+05 *	NC	3.84E+09 *	NC	5.75E+05 +	NC	1.13E+07 #	NC	2.32E+01 #	NC
Carbazole	9.54E-03	C	2.17E+03 *	C	1.43E+03 *	C	6.76E+04 *	C	8.51E+02 *	C	2.01E+06 *	C	6.17E+01 +	C	9.97E+04 #	C	6.69E-01	C
Carbon disulfide	1.36E+00	NC	NA	--	1.02E+05 *	NC	1.47E+06 *	NC	9.56E+04 *	NC	1.02E+02	NC	2.07E+05	NC	1.89E+02	NC	1.15E+02	NC
Carbon tetrachloride	3.64E-03	C	NA	--	2.20E+02	C	3.92E+03 *	C	2.08E+02	C	8.15E-01	C	7.35E+02	C	6.70E-01	C	1.71E-01	C
p-Chloroaniline	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	2.94E+04 *	NC	2.27E+03	NC	7.78E+04 *	NC	2.07E+03 +	NC	1.55E+05 #	NC	1.45E+01	NC
Chlorobenzene	1.16E-01	NC	NA	--	2.04E+04 *	NC	1.25E+05 *	NC	1.76E+04 *	NC	2.40E+02	NC	2.50E+04	NC	1.78E+02	NC	1.19E+01	NC
Chloroethane	6.58E-02	C	NA	--	9.87E+03 *	C	7.09E+04 *	C	8.66E+03 *	C	6.56E+00	C	1.04E+04	C	2.57E+01	C	3.31E+01	C
Chloroform	2.37E-03	C	NA	--	9.23E+02	C	2.56E+03	C	6.78E+02	C	9.00E-01	C	3.60E+02	C	2.57E+00	C	2.11E+00	C
Chloromethane	3.03E-02	C	NA	--	2.20E+03	C	3.27E+04 *	C	2.06E+03	C	2.22E+00	C	4.35E+03	C	5.06E+00	C	1.44E+01	C
2-Chloronaphthalene	5.45E-01	NC	NA	--	8.18E+04 *	NC	5.88E+05 *	NC	7.18E+04 *	NC	2.56E+05 *	NC	3.42E+05 +	NC	2.68E+04 #	NC	1.50E+01 #	NC
2-Chlorophenol	3.41E-02	NC	NA	--	5.11E+03	NC	3.67E+04	NC	4.49E+03	NC	1.64E+03	NC	1.07E+04 +	NC	6.84E+02	NC	9.36E+00	NC
4-Chlorophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	1.78E+01	C	1.08E+00	C	3.22E+01	C	5.32E+00	C	4.18E-01	C	7.56E-05	C
2-Chlorotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	5.87E+02 *	NC	3.07E+04 +	NC	2.44E+02 #	NC	7.64E+00	NC
4-Chlorotoluene	5.06E-04	NC	NA	--	2.04E+04 *	NC	5.46E+02 *	NC	5.32E+02 *	NC	2.76E+00	NC	1.18E+02	NC	9.50E-01	NC	6.49E+00	NC
Chrysene	4.89E-03	C	4.57E+03 *	C	3.92E+03 *	C	4.69E+04 *	C	2.02E+03 *	C	1.89E+06 *	C	3.07E+03 +	C	8.03E+02 #	C	6.37E-02 #	C
Dibenzo(a,h)anthracene	4.65E-05	C	4.57E+00	C	3.92E+00	C	1.65E+05 *	C	2.11E+00	C	1.49E+07 *	C	3.95E-01 +	C	6.63E+02 #	C	2.41E-05	C
Dibenzofuran	1.36E-02	NC	NA	--	2.04E+03 *	NC	1.47E+04 *	NC	1.79E+03 *	NC	1.90E+04 *	NC	3.56E+03 +	NC	4.16E+02 #	NC	3.03E-01	NC
Dibromochloromethane	2.02E-03	C	5.16E+02	C	3.41E+02	C	2.18E+03 *	C	1.88E+02	C	2.51E+01	C	1.62E+03	C	5.14E+01	C	9.32E-01	C
1,2-Dibromo-3-chloropropane	1.36E-04	C	3.10E+01	C	2.04E+01	C	1.47E+02	C	1.14E+01	C	3.94E+02 *	C	8.41E+03	C	1.41E+03 #	C	3.59E-02	C
Dibutyl phthalate	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.42E+09 *	NC	6.16E+04 *	NC	1.30E+09 *	NC	2.46E+02 +	NC	6.48E+06 #	NC	2.64E+01 #	NC
1,2-Dichlorobenzene	3.89E-01	NC	NA	--	9.20E+04 *	NC	4.19E+05 *	NC	7.54E+04 *	NC	4.37E+03 *	NC	8.88E+04 +	NC	1.20E+03 #	NC	2.92E+01	NC
1,3-Dichlorobenzene	2.04E-01	NC	NA	--	3.07E+04 *	NC	2.20E+05 *	NC	2.69E+04 *	NC	2.31E+03 *	NC	4.67E+04 +	NC	6.33E+02 #	NC	6.87E+00	NC
1,4-Dichlorobenzene	8.67E-03	C	NA	--	5.30E+03 *	C	9.35E+03 *	C	3.38E+03 *	C	7.63E+01	C	1.98E+03	C	2.12E+01	C	1.64E+00	C
3,3-Dichlorobenzidine	1.59E-04	C	9.64E+01 *	C	6.36E+01 *	C	5.65E+05 *	C	3.83E+01 *	C	7.73E+03 *	C	2.84E-01 +	C	1.76E+03 #	C	3.20E-02	C
Dichlorodifluoromethane	3.89E-01	NC	NA	--	2.04E+05 *	NC	4.19E+05 *	NC	1.37E+05 *	NC	2.24E+01	NC	7.66E+04	NC	2.14E+01	NC	3.50E+02 #	NC
1,1-Dichloroethane	3.41E-02	C	NA	--	5.02E+03 *	C	3.67E+04 *	C	4.42E+03 *	C	1.10E+01	C	7.27E+03	C	3.42E+01	C	1.29E+01	C
1,1-Dichloroethylene	3.89E-01	NC	NA	--	5.11E+04 *	NC	4.20E+05 *	NC	4.56E+04 *	NC	4.21E+01	NC	6.83E+04	NC	7.23E+01	NC	7.44E+01	NC
cis-1,2-Dichloroethylene	6.82E-02	NC	NA	--	1.02E+04 *	NC	7.35E+04 *	NC	8.97E+03 *	NC	3.11E+01	NC	1.46E+04	NC	9.36E+01	NC	2.34E+01	NC
trans-1,2-Dichloroethylene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	3.94E+01	NC	3.04E+04	NC	8.68E+01	NC	3.40E+01	NC
2,4-Dichlorophenol	2.04E-02	NC	4.65E+03 *	NC	3.07E+03	NC	2.20E+04 *	NC	1.70E+03	NC	5.05E+04 *	NC	6.57E+03 +	NC	5.14E+04 #	NC	1.71E+00	NC
1,2-Dichloropropane	5.30E-03	C	NA	--	7.95E+02	C	5.71E+03 *	C	6.98E+02	C	3.69E+00	C	1.07E+03	C	9.97E+00	C	1.65E+00	C
1,3-Dichloropropene	1.36E-02	C	NA	--	2.86E+02	C	1.47E+04 *	C	2.81E+02	C	2.45E+00	C	3.44E+03	C	5.29E+00	C	1.09E+00	C
Di(2-ethylhexyl)adipate	1.59E-01	C	3.61E+04 *	C	2.38E+04 *	C	1.71E+05 *	C	1.33E+04 *	C	1.64E+05 *	C	7.04E+04 +	C	8.16E+01 #	C	2.44E+00 #	C
Diethyl phthalate	5.45E+00	NC	1.24E+06 *	NC	8.18E+05 *	NC	1.94E+10 *	NC	4.93E+05 *	NC	8.64E+07 *	NC	8.66E+05 +	NC	4.76E+07 #	NC	1.68E+03 #	NC
Diisopropyl ether (DIPE)	7.50E-01	NC	NA	--	1.02E+05 *	NC	8.08E+05 *	NC	9.07E+04 *	NC	5.65E+02	NC	1.74E+05	NC	1.16E+03	NC	1.93E+02	NC
2,4-Dimethylphenol	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	1.47E+05 *	NC	1.14E+04 *	NC	4.42E+05 *	NC	2.65E+04 +	NC	3.28E+05 #	NC	2.84E+01	NC
2,6-Dimethylphenol	4.09E-03	NC	9.29E+02	NC	6.13E+02	NC	5.86E+03	NC	3.48E+02	NC	3.52E+04	NC	9.89E+02	NC	3.68E+03	NC	NA	--
Dimethyl phthalate	6.82E+01	NC	1.55E+07 *	NC	1.02E+07 *	NC	7.35E+07 *	NC	5.68E+06 *	NC	2.38E+08 *	NC	2.90E+06 +	NC	6.84E+08 #	NC	7.01E+04 #	NC
1,3-Dinitrobenzene	6.82E-04	NC	1.55E+02 *	NC	1.02E+02 *	NC	7.35E+02 *	NC	5.68E+01 *	NC	1.36E+03 *	NC	2.78E+01 +	NC	1.84E+03 #	NC	5.52E-01	NC
2,4-Dinitrophenol	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	1.47E+04 *	NC	1.14E+03 *	NC	1.00E+04 *	NC	1.60E+03 +	NC	8.94E+04 #	NC	1.39E+01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2,4-Dinitrotoluene	6.16E-04	C	1.40E+02	C	9.23E+01	C	6.64E+02 *	C	5.13E+01	C	2.92E+03 *	C	1.62E+01 +	C	4.31E+03 #	C	3.09E-01	C
2,6-Dinitrotoluene	2.81E-04	C	6.38E+01	C	4.21E+01	C	3.03E+02 *	C	2.34E+01	C	9.15E+02 *	C	5.30E+01 +	C	1.76E+03 #	C	2.08E-01	C
4-Amino-2,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	4.56E+02 *	NC	8.51E+01 *	NC	4.47E+03 *	NC	3.39E-01 +	NC	1.98E+03 #	NC	2.54E-01	NC
2-Amino-4,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	5.63E+02 *	NC	8.83E+01 *	NC	6.83E+03 *	NC	2.33E-01 +	NC	1.98E+03 #	NC	1.93E-01	NC
Di-n-octylphthalate	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	3.10E+05 *	NC	2.28E+04 *	NC	1.47E+06 *	NC	2.80E+05 +	NC	1.04E+05 #	NC	2.42E+00 #	NC
1,4-Dioxane	7.08E-03	C	3.94E+03	C	2.60E+03	C	7.63E+03	C	1.30E+03	C	5.08E+02	C	4.64E+02	C	2.39E+03	C	1.44E+02	C
Diphenylamine	1.95E-02	NC	3.87E+04 *	NC	2.56E+04 *	NC	2.33E+04 *	NC	9.26E+03 *	NC	1.16E+05 *	NC	4.36E+03 +	NC	3.18E+04 #	NC	1.11E+01	NC
1,2-Diphenylhydrazine	2.48E-04	C	5.42E+01	C	3.58E+01	C	8.75E+02	C	2.10E+01	C	1.30E+04 *	C	4.52E-01 +	C	3.22E+03 #	C	2.81E-02	C
Ethanol	3.68E+00	NC	NA	--	3.37E+07 *	NC	3.97E+06 *	NC	3.55E+06 *	NC	2.03E+05 *	NC	4.67E+05 +	NC	1.71E+06 #	NC	1.37E+06 #	NC
Ethylbenzene	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	3.02E+03 *	NC	4.16E+05 +	NC	1.43E+03 #	NC	3.51E+01	NC
Ethylene dibromide (EDB)	9.09E-05	C	NA	--	1.43E+01	C	9.80E+01	C	1.25E+01	C	9.88E-01	C	6.57E+01	C	2.28E+00	C	5.15E-02	C
Ethylene dichloride (EDC)	2.10E-03	C	NA	--	3.14E+02	C	2.26E+03 *	C	2.76E+02	C	1.78E+00	C	3.18E+02	C	8.28E+00	C	1.29E+00	C
Ethylene glycol	7.77E-01	NC	3.10E+06 *	NC	2.04E+06 *	NC	8.38E+05 *	NC	4.99E+05 *	NC	5.85E+05 *	NC	1.05E+04 +	NC	4.32E+06 #	NC	3.67E+05	NC
Ethylene thiourea	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	5.88E+02	NC	4.54E+01	NC	6.90E+02	NC	5.02E-02	NC	4.03E+03	NC	8.40E+00	NC
Ethyl-tert-butyl-ether (ETBE)	5.86E-01	NC	NA	--	1.02E+03	NC	6.32E+05 *	NC	1.02E+03	NC	4.72E+02	NC	1.33E+05	NC	1.42E+03	NC	2.77E+00	NC
Fluoranthene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	2.90E+06 *	NC	2.18E+04 *	NC	1.30E+08 *	NC	1.33E+05 +	NC	2.05E+05 #	NC	1.66E+00 #	NC
Fluorene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	4.91E+05 *	NC	2.11E+04 *	NC	3.70E+06 *	NC	1.16E+05 +	NC	4.53E+04 #	NC	3.48E+00 #	NC
Formaldehyde	4.20E-03	C	9.54E+02	C	6.30E+02	C	4.53E+03	C	3.50E+02	C	1.24E+03	C	1.35E+02	C	9.92E+03	C	8.09E+00	C
n-Hexane	1.36E+00	NC	NA	--	1.12E+07 *	NC	1.47E+06 *	NC	1.30E+06 *	NC	2.73E+01	NC	1.08E+05	NC	1.68E+00	NC	2.77E+03 #	NC
Hexachlorobenzene	1.19E-04	C	2.71E+01	C	1.79E+01	C	1.28E+02	C	9.94E+00	C	2.11E+02	C	3.46E+01 +	C	6.70E-01	C	8.16E-04	C
Hexachlorobutadiene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	2.20E+03 *	NC	1.70E+02	NC	5.55E+02	NC	5.75E+02	NC	1.90E+00	NC	2.62E-02	NC
Hexachlorocyclopentadiene	3.89E-04	NC	9.29E+03 *	NC	6.13E+03 *	NC	4.20E+02	NC	3.77E+02	NC	4.14E+02	NC	3.81E+02	NC	3.79E-01	NC	7.08E-01	NC
Hexachloroethane	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	7.35E+03 *	NC	5.68E+02 *	NC	2.91E+03 *	NC	4.29E+04 +	NC	2.74E+02 #	NC	2.48E-01	NC
Hexachlorophene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	7.26E+06 *	NC	1.85E+02	NC	3.31E+06 *	NC	2.47E-03 +	NC	1.10E+05 #	NC	4.87E-03	NC
HMX	5.26E-03	NC	7.74E+04 *	NC	5.11E+04 *	NC	1.87E+07 *	NC	3.07E+04 *	NC	2.05E+04 *	NC	2.17E+00 +	NC	6.20E+04 #	NC	5.65E+04 #	NC
Indeno(1,2,3-cd)pyrene	4.89E-04	C	2.78E+01 *	C	2.38E+01 *	C	1.74E+06 *	C	1.28E+01 *	C	6.53E+07 *	C	2.06E+02 +	C	3.18E+03 #	C	2.24E-04 #	C
Isophorone	2.01E-01	C	4.56E+04 *	C	3.01E+04 *	C	2.17E+05 *	C	1.67E+04 *	C	6.79E+04 *	C	4.69E+04 +	C	1.75E+05 #	C	1.22E+02	C
Isopropylbenzene (Cumene)	7.79E-01	NC	NA	--	1.02E+05 *	NC	8.40E+05 *	NC	9.11E+04 *	NC	1.60E+02	NC	1.64E+05 +	NC	5.27E+01	NC	2.50E+01	NC
4-Isopropyltoluene	2.04E+00	NC	NA	--	3.07E+05 *	NC	2.20E+06 *	NC	2.69E+05 *	NC	1.69E+04 *	NC	5.64E+05 +	NC	1.35E+03 #	NC	2.88E+01 #	NC
Maleic anhydride	1.36E-03	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.47E+03 *	NC	1.44E+03 *	NC	3.25E+02	NC	1.96E+02 +	NC	1.23E+03	NC	3.39E+02	NC
Methanol	7.50E+00	NC	NA	--	5.11E+05 *	NC	8.08E+06 *	NC	4.81E+05 *	NC	6.27E+05 *	NC	7.01E+05 +	NC	3.80E+06 #	NC	3.68E+04	NC
Methyl butyl ketone	7.79E-03	NC	NA	--	6.13E+04 *	NC	8.40E+03 *	NC	7.39E+03 *	NC	1.15E+02	NC	1.75E+03	NC	5.27E+02	NC	2.54E+02	NC
Methyl ethyl ketone	9.74E+00	NC	NA	--	6.13E+05 *	NC	1.05E+07 *	NC	5.79E+05 *	NC	1.03E+05 *	NC	1.70E+06 +	NC	7.40E+05 #	NC	1.26E+04	NC
2-Methyl-4,6-dinitrophenol	5.84E-04	NC	1.55E+02	NC	1.02E+02	NC	6.30E+02 *	NC	5.61E+01	NC	6.70E+02 *	NC	6.31E-01 +	NC	5.98E+03 #	NC	3.08E-01	NC
Methylene chloride	1.16E-01	C	NA	--	3.82E+03 *	C	1.25E+05 *	C	3.70E+03 *	C	4.03E+01	C	1.81E+04	C	2.14E+02	C	2.02E+01	C
Methyl iodide	2.34E-02	NC	NA	--	1.43E+03	NC	2.52E+04 *	NC	1.35E+03	NC	1.84E+01	NC	3.61E+03	NC	1.83E+01	NC	7.69E+00	NC
Methyl isobutyl ketone	5.84E+00	NC	NA	--	8.18E+04 *	NC	6.30E+06 *	NC	8.07E+04 *	NC	1.99E+05 *	NC	1.22E+06 +	NC	2.20E+05 #	NC	5.18E+02	NC
2-Methylnaphthalene	2.73E-02	NC	NA	--	4.09E+03 *	NC	2.94E+04 *	NC	3.59E+03 *	NC	9.61E+03 *	NC	6.83E+03 +	NC	3.79E+02 #	NC	7.84E-01	NC
2-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	6.55E+05 *	NC	4.88E+04 +	NC	1.01E+06 #	NC	1.11E+02	NC
3-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	3.62E+05 *	NC	4.00E+04 +	NC	1.14E+06 #	NC	1.09E+02	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
4-Methylphenol	3.41E-02	NC	7.74E+03	NC	5.11E+03	NC	3.67E+04 *	NC	2.84E+03	NC	4.23E+04 *	NC	4.26E+03 +	NC	1.05E+05 #	NC	1.11E+01	NC
Methyl teriary butyl ether (MTBE)	2.10E-01	C	NA	--	1.59E+04 *	C	2.26E+05 *	C	1.49E+04 *	C	3.17E+02	C	4.13E+04	C	1.76E+03	C	8.58E+01	C
Methyl-2,4,6-trinitrophenylnitramine	1.95E-04	NC	1.55E+04 *	NC	1.02E+04 *	NC	6.91E+05 *	NC	6.10E+03 *	NC	6.97E+03 *	NC	3.81E-04 +	NC	4.61E+03 #	NC	6.58E+01	NC
Naphthalene	1.59E-03	C	2.78E+02	C	2.38E+02	C	1.71E+03 *	C	1.19E+02	C	2.60E+02	C	4.25E+02	C	2.20E+01	C	7.51E-02	C
2-Nitroaniline	2.04E-04	NC	4.65E+03 *	NC	3.07E+03 *	NC	2.20E+02	NC	1.97E+02	NC	3.18E+02	NC	2.41E+01	NC	1.17E+03	NC	7.39E+00	NC
3-Nitroaniline	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.20E+03 *	NC	1.70E+02 *	NC	6.08E+03 *	NC	4.02E+00 +	NC	1.76E+04 #	NC	1.36E+00	NC
4-Nitroaniline	6.82E-03	NC	2.06E+03 *	C	1.36E+03 *	C	7.35E+03 *	NC	7.57E+02 *	C	1.06E+04 *	NC	1.95E+00 +	NC	5.94E+04 #	NC	1.39E+01	C
Nitrobenzene	3.89E-03	NC	NA	--	5.11E+02	NC	4.19E+03 *	NC	4.55E+02	NC	4.01E+02	NC	7.87E+02	NC	8.11E+02	NC	1.54E+00	NC
Nitroglycerin	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	2.86E+03	NC	1.45E+01 +	NC	4.33E+03	NC	3.26E-01	NC
2-Nitrophenol	7.79E-03	NC	3.10E+03	NC	2.04E+03	NC	8.40E+03 *	NC	1.07E+03	NC	8.80E+03 *	NC	8.15E+02 +	NC	3.74E+04 #	NC	6.99E+00	NC
4-Nitrophenol	1.95E-03	NC	3.10E+03 *	NC	2.04E+03 *	NC	2.10E+03 *	NC	7.76E+02 *	NC	2.20E+03 *	NC	5.38E-01 +	NC	1.68E+04 #	NC	5.83E+00	NC
n-Nitrosodimethylamine	3.90E-06	C	8.50E-01	C	5.61E-01	C	4.21E+00	C	3.13E-01	C	9.45E-01	C	3.80E-01	C	5.17E+00	C	4.38E-02	C
n-Nitrosodi-n-propylamine	2.73E-05	C	6.19E+00	C	4.09E+00	C	2.94E+01	C	2.27E+00	C	1.46E+01	C	5.87E+00	C	6.37E+01	C	2.58E-02	C
n-Nitrosodiphenylamine	2.12E-02	C	8.85E+03 *	C	5.84E+03 *	C	4.14E+04 *	C	3.24E+03 *	C	3.39E+05 *	C	8.84E+03 +	C	4.37E+04 #	C	3.64E+00	C
n-Nitrosopyrrolidine	8.94E-05	C	2.06E+01	C	1.36E+01	C	9.64E+01	C	7.56E+00	C	9.32E+01	C	5.95E-01	C	8.06E+02	C	3.78E-01	C
2-Nitrotoluene	8.30E-04	C	NA	--	1.24E+02	C	8.95E+02 *	C	1.09E+02	C	1.02E+02	C	2.00E+02	C	1.08E+02	C	1.78E-01	C
3-Nitrotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	1.41E+04 *	NC	3.31E+04 +	NC	1.50E+04 #	NC	2.93E+01	NC
4-Nitrotoluene	1.12E-02	C	NA	--	1.68E+03 *	C	1.21E+04 *	C	1.48E+03 *	C	1.15E+03 *	C	2.74E+03 +	C	1.22E+03 #	C	2.41E+00	C
Pentachlorobenzene	5.45E-03	NC	1.24E+03 *	NC	8.18E+02 *	NC	5.88E+03 *	NC	4.54E+02 *	NC	1.06E+04 *	NC	1.28E+03 +	NC	4.57E+01 #	NC	3.34E-02	NC
Pentachloronitrobenzene	7.34E-04	C	1.67E+02 *	C	1.10E+02 *	C	2.46E+03 *	C	6.46E+01	C	3.46E+04 *	C	7.11E+02 +	C	2.20E+02 #	C	1.45E-02	C
Pentachlorophenol	1.06E-02	C	1.45E+02	C	2.38E+02	C	3.76E+07 *	C	9.00E+01	C	4.50E+05 *	C	1.23E+02 +	C	1.24E+05 #	C	4.08E-03	C
Pentaerythritol tetranitrate	2.73E+00	NC	6.19E+05 *	NC	4.09E+05 *	NC	9.68E+09 *	NC	2.46E+05 *	NC	4.24E+08 *	NC	6.28E+05 +	NC	1.14E+07 #	NC	1.99E+02 #	NC
Phenanthrene	2.04E-01	NC	NA	--	3.07E+04 *	NC	2.71E+05 *	NC	2.75E+04 *	NC	1.51E+06 *	NC	9.60E+04 +	NC	1.81E+04 #	NC	2.33E+00 #	NC
Phenol	3.89E-01	NC	4.65E+05 *	NC	3.07E+05 *	NC	4.20E+05 *	NC	1.28E+05 *	NC	5.35E+05 *	NC	3.04E+04 +	NC	1.89E+06 #	NC	1.26E+03	NC
m-Phenylenediamine	4.09E-02	NC	9.29E+03	NC	6.13E+03	NC	4.41E+04 *	NC	3.41E+03	NC	3.77E+04 *	NC	1.23E+00	NC	3.19E+05 #	NC	4.76E+02	NC
Polychlorinated biphenyls (PCBs)	5.45E-04	C	1.55E+01	C	1.43E+01	C	1.31E+03 *	C	7.39E+00	C	1.32E+04 *	C	8.26E+01 +	C	7.29E+00 #	C	2.31E-04	C
n-Propylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	6.18E+02 *	NC	5.74E+04 +	NC	1.49E+02 #	NC	6.54E+00	NC
Pyrene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	2.67E+06 *	NC	1.64E+04 *	NC	1.47E+08 *	NC	1.05E+05 +	NC	2.37E+05 #	NC	9.07E-01 #	NC
RDX	1.73E-03	C	3.94E+02	C	2.60E+02	C	1.92E+03 *	C	1.45E+02	C	8.85E+03 *	C	4.11E+01 +	C	1.82E+04 #	C	4.59E+00	C
Styrene	1.95E+00	NC	NA	--	2.04E+05 *	NC	2.10E+06 *	NC	1.86E+05 *	NC	1.84E+04 *	NC	4.33E+05 +	NC	4.10E+03 #	NC	9.27E+01	NC
1,1,1,2-Tetrachloroethane	7.37E-03	C	NA	--	1.10E+03 *	C	7.94E+03 *	C	9.67E+02 *	C	9.99E+00	C	1.64E+03	C	1.76E+01	C	8.11E-01	C
1,1,2,2-Tetrachloroethane	9.40E-04	C	NA	--	1.43E+02	C	1.01E+03	C	1.25E+02	C	9.96E+00	C	2.09E+02	C	1.51E+01	C	2.36E-01	C
1,2,4,5-Tetrachlorobenzene	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.20E+03 *	NC	1.70E+02 *	NC	2.97E+02 *	NC	1.53E+03 +	NC	3.13E+01 #	NC	2.66E-02	NC
Tetrachloroethylene	9.09E-03	C	NA	--	5.30E+01	C	9.80E+03 *	C	5.27E+01	C	3.11E+00	C	1.99E+03	C	2.98E+00	C	1.85E-02	C
Tetrahydrofuran	2.81E-02	C	NA	--	3.77E+03	C	3.03E+04	C	3.35E+03	C	1.85E+02	C	4.48E+03	C	1.57E+03	C	4.61E+01	C
Tertiary-amyl-methyl-ether (TAME)	1.57E-01	NC	NA	--	4.09E+04 *	NC	1.69E+05 *	NC	3.29E+04 *	NC	1.05E+02	NC	3.54E+04	NC	2.93E+02	NC	1.03E+02	NC
Tertiary-butyl-alcohol (TBA)	5.86E-01	NC	NA	--	9.20E+04 *	NC	6.32E+05 *	NC	8.03E+04 *	NC	2.67E+04	NC	1.04E+05	NC	1.95E+05	NC	8.44E+02	NC
Toluene	9.54E+00	NC	NA	--	8.18E+04 *	NC	1.03E+07 *	NC	8.11E+04 *	NC	7.98E+03 *	NC	1.73E+06 +	NC	7.02E+03 #	NC	4.76E+01	NC
1,2,4-Trichlorobenzene	6.82E-03	NC	NA	--	7.95E+03 *	C	7.35E+03 *	NC	4.27E+03 *	NC	6.67E+02	NC	3.58E+03	NC	6.36E+01	NC	1.25E+00	C
1,3,5-Trichlorobenzene	7.79E-02	NC	NA	--	3.07E+03 *	NC	8.40E+04 *	NC	2.96E+03 *	NC	9.58E+02 *	NC	1.97E+04 +	NC	2.32E+02 #	NC	3.73E-01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
1,1,1-Trichloroethane	4.28E+00	NC	NA	--	2.86E+05 *	NC	4.62E+06 *	NC	2.69E+05 *	NC	1.11E+03	NC	8.67E+05	NC	1.38E+03 #	NC	3.13E+02	NC
1,1,2-Trichloroethane	3.41E-03	C	NA	--	5.02E+02	C	3.67E+03 *	C	4.42E+02	C	7.74E+00	C	6.89E+02	C	1.91E+01	C	1.11E+00	C
Trichloroethylene	2.73E-02	C	NA	--	2.20E+03 *	C	2.94E+04 *	C	2.05E+03 *	C	1.53E+01	C	5.44E+03	C	1.43E+01	C	2.64E+00	C
Trichlorofluoromethane	1.36E+00	NC	NA	--	3.07E+05 *	NC	1.47E+06 *	NC	2.54E+05 *	NC	1.11E+02	NC	2.47E+05	NC	7.13E+01	NC	3.26E+02	NC
2,4,5-Trichlorophenol	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.60E+06 *	NC	5.93E+04 *	NC	1.57E+07 *	NC	2.86E+05 +	NC	1.63E+06 #	NC	4.23E+01	NC
2,4,6-Trichlorophenol	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	7.35E+02	NC	5.68E+01	NC	2.24E+03 *	NC	2.99E+02 +	NC	9.48E+02 #	NC	2.74E-02	NC
1,2,3-Trichloropropane	9.54E-05	C	NA	--	1.43E+01	C	1.03E+02	C	1.26E+01	C	6.35E-01	C	2.12E+01	C	1.54E+00	C	1.76E-02	C
1,1,2-Trichlorotrifluoroethane	5.86E+01	NC	NA	--	3.07E+07 *	NC	6.32E+07 *	NC	2.06E+07 *	NC	9.27E+03 *	NC	3.21E+07 +	NC	1.71E+03 #	NC	2.06E+04 #	NC
1,2,4-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	2.19E+02	NC	2.46E+03	NC	1.07E+01	NC	9.23E+00	NC
1,3,5-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	3.48E+01	NC	2.46E+03	NC	7.61E+00	NC	8.55E+00	NC
1,3,5-Trinitrobenzene	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	3.76E+05 *	NC	2.57E+01 +	NC	1.92E+06 #	NC	2.93E+02 #	NC
2,4,6-Trinitrotoluene (TNT)	3.41E-03	NC	7.74E+02 *	NC	5.11E+02 *	NC	1.21E+07 *	NC	3.08E+02 *	NC	4.36E+04 *	NC	4.16E+02 +	NC	2.25E+04 #	NC	2.33E+00	NC
Vinyl chloride (for residential scenario)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Vinyl chloride (for occupational scenatio)	6.20E-03	C	NA	--	2.04E+01	C	6.68E+03 *	C	2.04E+01	C	3.53E-01	C	9.22E+02	C	9.59E-01	C	7.53E-02	C
Xylenes (total)	1.98E-01	NC	NA	--	2.04E+05 *	NC	2.13E+05 *	NC	1.04E+05 *	NC	3.86E+02	NC	4.45E+04	NC	1.63E+02 #	NC	1.18E+02	NC
Pesticides																		
Acetochlor	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	1.98E+06 *	NC	4.31E+03 +	NC	1.53E+06 #	NC	5.93E+01	NC
Acifluorfen	1.95E-02	NC	2.01E+04	NC	1.33E+04	NC	6.91E+07 *	NC	8.00E+03	NC	1.88E+07 *	NC	1.97E-02 +	NC	2.38E+07 #	NC	1.84E+03	NC
Acrolein	3.89E-05	NC	NA	--	5.11E+02	NC	4.20E+01	NC	3.88E+01	NC	2.73E-01	NC	5.56E+00	NC	1.15E+00	NC	1.66E+01	NC
Alachlor	2.39E-03	C	7.74E+02 *	C	5.11E+02 *	C	8.47E+06 *	C	3.08E+02 *	C	3.78E+04 *	C	1.02E+01 +	C	3.04E+04 #	C	4.02E-01	C
Aldicarb	6.82E-03	NC	1.55E+03 *	NC	1.02E+03	NC	7.35E+03 *	NC	5.68E+02	NC	1.46E+04 *	NC	4.12E+00 +	NC	7.07E+04 #	NC	9.60E+00	NC
Aldicarb sulfone	6.82E-03	NC	1.55E+03 *	NC	1.02E+03	NC	2.42E+07 *	NC	6.16E+02	NC	1.13E+04 *	NC	1.19E+01 +	NC	8.74E+04 #	NC	2.64E+02	NC
Aldrin	1.11E-05	C	2.55E+00	C	1.68E+00	C	2.70E+02	C	1.01E+00	C	2.77E+04 *	C	1.32E+01 +	C	1.92E+00 #	C	3.82E-03	C
Ametryn	6.13E-02	NC	1.39E+04 *	NC	9.20E+03 *	NC	2.18E+08 *	NC	5.54E+03 *	NC	1.93E+06 *	NC	1.48E+02 +	NC	7.99E+05 #	NC	1.09E+01	NC
Atrazine	8.67E-04	C	1.89E+02 *	C	1.24E+02 *	C	3.08E+06 *	C	7.49E+01	C	3.46E+04 *	C	2.08E+00 +	C	1.15E+04 #	C	1.55E-01	C
Baygon	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	9.68E+07 *	NC	2.46E+03 *	NC	1.83E+05 *	NC	2.80E+03	NC	1.73E+05 #	NC	NA	--
Butylate	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	2.71E+04 *	NC	1.09E+05 +	NC	3.17E+04 #	NC	1.29E+01	NC
Captan	8.30E-02	C	1.89E+04 *	C	1.24E+04 *	C	2.95E+08 *	C	7.49E+03 *	C	2.64E+05 *	C	5.99E+04 +	C	2.06E+05 #	C	5.02E+01 #	C
Carbaryl	7.50E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	8.08E+05 *	NC	5.72E+04 *	NC	5.82E+03 *	NC	4.25E+05 +	NC	8.19E+03 #	NC	2.29E+02 #	NC
Carbofuran	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	1.86E+05 *	NC	5.86E+01 +	NC	4.69E+05 #	NC	1.41E+01	NC
Carboxin	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	7.35E+05 *	NC	5.68E+04 *	NC	1.52E+02	NC	2.40E+05 +	NC	2.41E+01	NC	1.04E+02	NC
Chloramben	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	8.07E+05 *	NC	1.02E+04 +	NC	6.53E+05 #	NC	2.91E+01	NC
Chlordane (technical)	5.45E-04	C	1.24E+02 *	C	8.18E+01 *	C	5.72E+03 *	C	4.88E+01 *	C	2.53E+05 *	C	7.00E+02 +	C	3.56E+02 #	C	1.96E-03	C
Chlordane, gamma	5.45E-04	C	3.10E+02 *	C	8.18E+01 *	C	4.37E+03 *	C	6.37E+01 *	C	1.48E+05 *	C	2.57E+02 +	C	6.36E+01 #	C	7.32E-03	C
Chlorothalonil	6.16E-02	C	3.50E+04 *	C	9.23E+03 *	C	2.19E+08 *	C	7.30E+03 *	C	6.23E+06 *	C	1.47E+04 +	C	1.81E+05 #	C	3.26E+00 #	C
Chlorpyrifos	2.04E-02	NC	4.65E+03 *	NC	3.07E+03 *	NC	7.26E+07 *	NC	1.85E+03 *	NC	5.26E+05 *	NC	5.60E+03 +	NC	4.72E+04 #	NC	5.85E-01 #	NC
Coumaphos	4.77E-02	NC	1.08E+04 *	NC	7.15E+03 *	NC	1.69E+08 *	NC	4.31E+03 *	NC	6.95E+07 *	NC	1.58E+02 +	NC	7.34E+05 #	NC	2.78E+00 #	NC
Cyanazine	2.27E-04	C	5.16E+01	C	3.41E+01	C	2.45E+02	C	1.89E+01	C	2.52E-02	C	8.28E+01 +	C	9.04E-03	C	2.59E-01	C
Dacthal	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	2.73E+03 *	NC	9.11E-02 +	NC	9.77E+00 #	NC	1.60E+00 #	NC
Dalapon, sodium salt	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	2.20E+05 *	NC	1.70E+04 *	NC	2.00E+05 *	NC	4.15E+03 +	NC	1.60E+06 #	NC	1.45E+02	NC
DDD	7.95E-04	C	1.81E+02	C	1.19E+02	C	2.82E+06 *	C	7.18E+01	C	1.99E+07 *	C	5.43E+02 +	C	3.35E+03 #	C	3.52E-03	C

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
DDE	5.61E-04	C	1.28E+02	C	8.42E+01	C	4.71E+04 *	C	5.06E+01	C	1.74E+07 *	C	5.58E+02 +	C	6.57E+02 #	C	2.83E-03	C
DDT	5.62E-04	C	1.28E+02	C	8.42E+01	C	2.00E+06 *	C	5.07E+01	C	2.50E+07 *	C	5.25E+02 +	C	1.60E+03 #	C	1.51E-03	C
DEF	2.04E-04	NC	1.55E+02	NC	3.07E+01	NC	7.26E+05 *	NC	2.56E+01	NC	4.25E+06 *	NC	2.70E+01 +	NC	2.27E+03 #	NC	1.01E-03	NC
Demeton	2.73E-04	NC	6.19E+02	NC	4.09E+02	NC	2.94E+02	NC	1.34E+02	NC	2.44E+01	NC	9.40E+01 +	NC	1.44E+01	NC	5.21E-01	NC
Diazinon	6.13E-03	NC	1.39E+03 *	NC	9.20E+02 *	NC	2.18E+07 *	NC	5.54E+02 *	NC	1.27E+05 *	NC	3.96E+02 +	NC	8.66E+04 #	NC	4.27E-01	NC
Dicamba	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	1.80E+06 *	NC	2.01E+02 +	NC	2.27E+06 #	NC	1.07E+02	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	4.14E+06 *	NC	3.17E+02 +	NC	7.69E+05 #	NC	1.73E+01	NC
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	5.45E-02	NC	3.10E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	6.47E+03 *	NC	2.15E+06 *	NC	6.14E+01 +	NC	6.62E+05 #	NC	2.84E+00	NC
Dichloroprop (2,4-DP)	6.82E-02	NC	3.10E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	7.68E+03 *	NC	8.60E+04 *	NC	6.82E+02 +	NC	7.68E+05 #	NC	7.18E+00	NC
Dieldrin	1.19E-05	C	2.71E+00	C	1.79E+00	C	8.83E+01 *	C	1.06E+00	C	2.75E+03 *	C	1.33E+01 +	C	2.17E+01 #	C	5.34E-04	C
Dimethoate	1.36E-03	NC	3.10E+02	NC	2.04E+02	NC	4.84E+06 *	NC	1.23E+02	NC	3.54E+03	NC	5.54E-02	NC	1.30E+04	NC	1.29E+01	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	5.24E+04 *	NC	1.14E+03 +	NC	6.19E+04 #	NC	3.98E-01	NC
Diquat	1.50E-02	NC	3.41E+03	NC	2.25E+03	NC	5.32E+07 *	NC	1.35E+03	NC	3.72E+06 *	NC	1.62E-02 +	NC	2.78E+06 #	NC	3.48E+04	NC
Disulfoton	2.73E-04	NC	6.19E+01 *	NC	4.09E+01 *	NC	9.68E+05 *	NC	2.46E+01 *	NC	3.57E+01 *	NC	4.75E+01 +	NC	2.95E+02 #	NC	1.53E-02	NC
Diuron	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	7.24E+04 *	NC	3.35E+03 +	NC	3.06E+04 #	NC	3.48E+00	NC
Endosulfan	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	1.14E+05 *	NC	3.58E+03 *	NC	1.34E+06 *	NC	4.74E+04 +	NC	1.05E+05 #	NC	6.59E+00 #	NC
Endothall	1.36E-01	NC	3.10E+04	NC	2.04E+04	NC	1.93E+05 *	NC	1.16E+04	NC	7.83E+08 *	NC	1.37E-01	NC	9.20E+08 #	NC	8.28E+01	NC
Endrin	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	4.90E+05 *	NC	2.04E+03 +	NC	6.72E+03 #	NC	9.16E-02	NC
Endrin aldehyde	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	1.94E+04 *	NC	1.83E+02	NC	7.74E+05 *	NC	1.08E+03 +	NC	6.18E+01 #	NC	6.31E-03	NC
Endrin ketone	1.95E-04	NC	4.65E+02	NC	3.07E+02	NC	6.91E+05 *	NC	1.85E+02	NC	1.53E+06 *	NC	5.38E+01 +	NC	1.49E+03 #	NC	2.79E-02	NC
Eptam	1.70E-01	NC	NA	--	2.56E+04 *	NC	1.84E+05 *	NC	2.24E+04 *	NC	1.70E+04 *	NC	5.00E+04 +	NC	1.11E+04 #	NC	1.90E+01	NC
Ethoprop	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	2.42E+06 *	NC	6.16E+01	NC	5.42E+04 *	NC	4.93E+01 +	NC	7.41E+03 #	NC	9.07E-02	NC
Fenamiphos	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	5.40E+04 *	NC	1.28E+00	NC	2.61E+04 #	NC	NA	--
Fenthion	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	2.42E+04 *	NC	7.69E+01 +	NC	3.65E+03 #	NC	9.24E-02	NC
Fluometuron	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	1.34E+06 *	NC	8.49E+01	NC	1.17E+06 #	NC	NA	--
Fonofos	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	4.05E+05 *	NC	4.15E+03	NC	1.90E+04 #	NC	5.04E-01	NC
alpha-Hexachlorocyclohexane	3.03E-05	C	6.88E+00	C	4.54E+00	C	5.78E+01 *	C	2.61E+00	C	4.63E+02 *	C	2.68E+01 +	C	6.26E+01 #	C	1.06E-03	C
beta-Hexachlorocyclohexane	1.03E-04	C	2.41E+01 *	C	1.59E+01 *	C	3.66E+05 *	C	9.58E+00 *	C	6.23E+03 *	C	2.47E+01 +	C	8.23E+02 #	C	3.59E-03	C
delta-Hexachlorocyclohexane	1.07E-04	C	2.41E+01	C	1.59E+01	C	3.80E+05 *	C	9.58E+00	C	2.04E+04 *	C	1.40E+01 +	C	8.07E+02 #	C	5.33E-03	C
gamma-Hexachlorocyclohexane	1.73E-04	C	3.94E+01	C	2.60E+01	C	2.76E+02 *	C	1.48E+01	C	1.84E+03 *	C	1.62E+02 +	C	2.85E+02 #	C	1.35E-02	C
Glyphosate	6.82E-01	NC	1.55E+05	NC	1.02E+05	NC	4.64E+06 *	NC	6.08E+04	NC	8.92E+14 *	NC	6.82E-01 +	NC	4.07E+13 #	NC	7.45E+04 #	NC
Guthion	1.02E-02	NC	2.32E+03 *	NC	1.53E+03 *	NC	3.63E+07 *	NC	9.23E+02 *	NC	4.17E+05 *	NC	2.26E-02 +	NC	2.59E+05 #	NC	6.09E+00 #	NC
Heptachlor	4.20E-05	C	9.64E+00	C	6.36E+00	C	4.53E+01	C	3.53E+00	C	8.21E+00	C	5.92E+01 +	C	1.12E-03	C	2.78E-03	C
Heptachlor epoxide	2.10E-05	C	4.76E+00	C	3.14E+00	C	7.44E+04 *	C	1.89E+00	C	2.73E+04 *	C	2.13E+01 +	C	5.54E+01 #	C	5.56E-04	C
Hexazinone	2.25E-01	NC	5.11E+04 *	NC	3.37E+04 *	NC	7.99E+08 *	NC	2.03E+04 *	NC	5.58E+06 *	NC	2.80E-01 +	NC	1.66E+07 #	NC	1.43E+02	NC
Malathion	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	2.45E+07 *	NC	2.21E+03 +	NC	2.28E+06 #	NC	1.25E+02	NC
Maleic hydrazide	3.41E+00	NC	7.74E+05 *	NC	5.11E+05 *	NC	3.67E+06 *	NC	2.84E+05 *	NC	9.33E+06 *	NC	2.80E+01 +	NC	2.60E+07 #	NC	8.64E+04 #	NC
Maneb	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	1.10E+06 *	NC	7.43E+03	NC	3.25E+05 #	NC	NA	--
Methomyl	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	1.84E+05 *	NC	1.42E+04 *	NC	2.60E+05 *	NC	9.63E+00 +	NC	1.29E+06 #	NC	6.20E+02	NC
Methoxychlor	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	4.80E+05 *	NC	3.06E+03 *	NC	2.85E+07 *	NC	3.15E+04 +	NC	4.93E+04 #	NC	2.24E-01 #	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	3.41E-03	NC	7.74E+02 *	NC	5.11E+02	NC	1.21E+07 *	NC	3.08E+02	NC	2.38E+04 *	NC	2.01E+00 +	NC	3.73E+04 #	NC	2.35E-01	NC
MCPP	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	8.66E+03 *	NC	7.63E+01 +	NC	7.73E+04 #	NC	7.68E-01	NC
Metolachlor	1.02E+00	NC	2.32E+05 *	NC	1.53E+05 *	NC	3.63E+09 *	NC	9.23E+04 *	NC	6.32E+07 *	NC	5.38E+03 +	NC	1.48E+07 #	NC	2.63E+02	NC
Metribuzin	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	6.05E+08 *	NC	1.54E+04 *	NC	3.00E+06 *	NC	3.26E-01	NC	4.42E+06 #	NC	1.27E+03 #	NC
Mirex	1.06E-05	C	2.41E+00	C	1.59E+00	C	1.14E+01	C	8.84E-01	C	7.59E+00	C	4.77E+00 +	C	2.33E-01	C	NA	--
Naled	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03	NC	8.31E+04 *	NC	1.87E+03 +	NC	9.24E+04 #	NC	5.19E+01	NC
o,o,o-Triethylphosphorothioate	5.66E-05	NC	NA	--	8.48E+00	NC	6.10E+01	NC	7.45E+00	NC	2.49E+00	NC	1.69E+01	NC	8.38E-01	NC	1.21E-02	NC
Oxamyl	1.70E-01	NC	3.87E+04	NC	2.56E+04	NC	6.05E+08 *	NC	1.54E+04	NC	3.55E+05 *	NC	2.14E+01 +	NC	2.23E+06 #	NC	1.43E+04	NC
Paraquat	3.07E-02	NC	6.97E+03	NC	4.60E+03	NC	1.09E+08 *	NC	2.77E+03	NC	5.88E+07 *	NC	2.59E+01 +	NC	6.41E+05 #	NC	5.01E+05	NC
ethyl-Parathion	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	1.45E+08 *	NC	3.69E+03 *	NC	1.32E+07 *	NC	9.29E+03 +	NC	3.97E+05 #	NC	2.69E+00	NC
methyl-Parathion	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	4.04E+05 *	NC	5.40E+01 +	NC	1.33E+04 #	NC	4.80E-01	NC
Pendimethalin	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	9.68E+08 *	NC	2.46E+04 *	NC	2.00E+09 *	NC	6.13E+04 +	NC	1.77E+06 #	NC	1.72E+00 #	NC
Phenylmercuric acetate	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	1.94E+06 *	NC	4.93E+01	NC	2.60E+03 *	NC	1.17E-01 +	NC	5.10E+03 #	NC	4.44E+00	NC
Phorate	1.36E-03	NC	3.10E+02 *	NC	2.04E+02 *	NC	4.84E+06 *	NC	1.23E+02	NC	4.26E+03 *	NC	2.46E+02 +	NC	1.06E+03 #	NC	1.46E-01	NC
Picloram	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	5.14E+05 *	NC	3.98E+04 *	NC	2.49E+01	NC	1.37E+05 +	NC	9.50E-01	NC	8.56E+01	NC
Prometon	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	4.43E+06 *	NC	1.10E+02 +	NC	1.37E+06 #	NC	1.81E+01	NC
Pronamide	5.11E-01	NC	1.16E+05 *	NC	7.67E+04 *	NC	1.81E+09 *	NC	4.62E+04 *	NC	1.33E+06 *	NC	7.92E+04 +	NC	1.02E+06 #	NC	3.88E+01 #	NC
Propachlor	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	1.14E+06 *	NC	3.01E+03	NC	6.82E+05 #	NC	NA	--
Propanil	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	2.09E+06 *	NC	6.98E+01 +	NC	3.84E+05 #	NC	4.99E+00	NC
Propazine	4.24E-03	C	9.64E+02 *	C	6.36E+02 *	C	1.51E+07 *	C	3.83E+02 *	C	5.69E+04 *	C	1.03E+01 +	C	5.53E+04 #	C	4.40E-01	C
Propham	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	1.78E+05 *	NC	1.15E+04 *	NC	9.70E+05 *	NC	2.36E+03 +	NC	1.52E+06 #	NC	2.46E+01	NC
Silvex (2,4,5-TP)	5.45E-02	NC	1.24E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	4.93E+03 *	NC	3.09E+05 *	NC	2.56E+02 +	NC	6.98E+05 #	NC	3.89E+00	NC
Simazine	1.59E-03	C	3.61E+02 *	C	2.38E+02 *	C	5.65E+06 *	C	1.44E+02 *	C	1.72E+04 *	C	2.53E+00 +	C	1.86E+04 #	C	3.45E-01	C
Strychnine	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	4.00E+05 *	NC	2.10E-03 +	NC	6.79E+05 #	NC	3.75E+00	NC
Tebuthiuron	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	1.69E+09 *	NC	4.31E+04 *	NC	4.69E+06 *	NC	7.77E-01 +	NC	1.57E+07 #	NC	4.52E+02	NC
Terbacil	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	3.61E+05 *	NC	4.94E+00	NC	1.02E+06 #	NC	NA	--
Terbufos	1.70E-04	NC	3.87E+01 *	NC	2.56E+01 *	NC	1.84E+02 *	NC	1.42E+01	NC	2.60E+02 *	NC	6.27E+01	NC	6.46E+01 #	NC	6.40E-03	NC
Terbutryn	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	7.82E+05 *	NC	1.03E+02 +	NC	8.02E+04 #	NC	3.62E-01	NC
Toxaphene	1.70E-04	C	3.94E+01	C	2.60E+01	C	6.05E+05 *	C	1.57E+01	C	1.10E+06 *	C	1.75E+02 +	C	7.20E+02 #	C	6.28E-03	C
Triallate	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	1.04E+05 *	NC	7.43E+03 *	NC	5.08E+05 *	NC	2.97E+04 +	NC	3.80E+04 #	NC	2.12E+00	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	2.66E+05 *	NC	2.23E+02 +	NC	6.25E+05 #	NC	8.18E+00	NC
Trifluralin	2.48E-02	C	5.63E+03 *	C	3.72E+03 *	C	1.06E+05 *	C	2.19E+03 *	C	1.89E+06 *	C	2.47E+04 +	C	2.31E+04 #	C	2.47E-01	C
Warfarin	1.95E-04	NC	4.65E+02 *	NC	3.07E+02 *	NC	6.91E+05 *	NC	1.85E+02 *	NC	1.83E+04 *	NC	3.70E-01 +	NC	3.30E+03 #	NC	3.93E-01	NC
Metals																		
Aluminum	9.74E-03	NC	1.55E+07	NC	1.02E+06	NC	3.46E+07	NC	9.33E+05	NC	NA	--	NA	NC	NA	--	3.10E+04	NC
Antimony	9.74E-05	NC	6.19E+03	NC	4.09E+02	NC	3.46E+05	NC	3.83E+02	NC	NA	--	NA	NC	NA	--	1.24E+01	NC
Arsenic	1.27E-05	C	9.64E+01	C	1.91E+01	C	4.52E+04	C	1.59E+01	C	NA	--	NA	C	NA	--	5.78E-01	C
Barium	9.54E-04	NC	3.10E+06	NC	2.04E+05	NC	3.39E+06	NC	1.81E+05	NC	NA	--	NA	NC	NA	--	6.19E+03	NC
Beryllium	2.27E-05	C	5.16E+01	C	3.41E+00	C	8.06E+04	C	3.19E+00	C	NA	--	NA	C	NA	--	1.03E-01	C
Cadmium	3.03E-05	C	1.14E+04	C	7.53E+01	C	1.08E+05	C	7.48E+01	C	NA	--	NA	C	NA	--	2.28E+00	C
Chromium (III) total chromium	1.98E-04	NC	2.32E+07	NC	1.53E+06	NC	7.02E+05	NC	4.72E+05	NC	NA	--	NA	NC	NA	--	4.65E+04	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-6
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Chromium (VI)	4.54E-06	C	1.03E+01	C	6.81E-01	C	1.61E+04	C	6.39E-01	C	NA	--	NA	C	NA	--	1.03E-02	C
Copper	1.95E-03	NC	6.19E+05	NC	4.09E+04	NC	6.91E+06	NC	3.81E+04	NC	NA	--	NA	NC	NA	--	1.24E+03	NC
Lead	NA	--	NA	--	NA	--	NA	--	6.60E+02	--	6.60E+02	--	NA	--	NA	--	NA	--
Manganese	9.75E-05	NC	2.17E+06	NC	1.43E+05	NC	3.46E+05	NC	9.67E+04	NC	NA	--	NA	NC	NA	--	4.34E+03	NC
Mercury	5.84E-04	NC	NA	--	NA	--	6.30E+02 *	NC	6.30E+02 *	NC	3.35E+01 *	NC	3.00E+02 +	NC	7.05E-01 #	NC	NA	--
Molybdenum	9.74E-03	NC	7.74E+04	NC	5.11E+03	NC	3.46E+07	NC	4.79E+03	NC	NA	--	NA	NC	NA	--	1.55E+02	NC
Nickel	1.75E-04	NC	3.10E+05	NC	2.04E+04	NC	6.22E+05	NC	1.86E+04	NC	NA	--	NA	NC	NA	--	3.10E+03	NC
Selenium	3.89E-04	NC	7.74E+04	NC	5.11E+03	NC	1.38E+06	NC	4.78E+03	NC	NA	--	NA	NC	NA	--	1.55E+02	NC
Silver	1.95E-05	NC	7.74E+04	NC	5.11E+03	NC	6.91E+04	NC	4.48E+03	NC	NA	--	NA	NC	NA	--	2.58E+02	NC
Strontium	NA	--	9.29E+06	NC	6.13E+05	NC	NA	--	5.75E+05	NC	NA	--	NA	--	NA	--	1.86E+04	NC
Thallium chloride	1.95E-04	NC	1.24E+03	NC	8.18E+01	NC	6.91E+05 *	NC	7.67E+01	NC	NA	--	NA	NC	NA	--	2.48E+00	NC
Vanadium	9.74E-05	NC	1.08E+05	NC	7.15E+03	NC	3.46E+05	NC	6.58E+03	NC	NA	--	NA	NC	NA	--	2.17E+02	NC
Zinc	NA	--	4.65E+06	NC	3.07E+05	NC	NA	--	2.88E+05	NC	NA	--	NA	--	NA	--	1.55E+04	NC
Inorganics																		
Ammonia	1.95E-01	NC	NA	--	NA	--	2.10E+05 *	NC	2.10E+05 *	NC	1.17E+02	NC	1.18E+04	NC	8.85E+02	NC	NA	--
Cyanide	9.74E-03	NC	3.10E+04	NC	2.04E+04	NC	3.46E+07 *	NC	1.23E+04	NC	NA	--	NA	NC	NA	--	6.19E+02	NC
Cyanide (as Sodium Cyanide)	NA	--	6.19E+04	NC	4.09E+04	NC	NA	--	2.46E+04	NC	NA	--	NA	--	NA	--	1.24E+03	NC
Cyanogen bromide	6.13E-01	NC	1.39E+05 *	NC	9.20E+04 *	NC	6.61E+05 *	NC	5.11E+04 *	NC	1.51E+02	NC	1.01E+05	NC	5.37E+02	NC	2.79E+03	NC
Fluoride (as Sodium Fluoride)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Perchlorate	NA	--	1.08E+03	NC	7.15E+02	NC	NA	--	4.31E+02	NC	NA	--	NA	--	NA	--	2.17E+01	NC
White phosphorus	1.95E-04	NC	3.10E+01 *	NC	2.04E+01	NC	2.10E+02 *	NC	1.16E+01	NC	2.01E+00	NC	1.66E+01	NC	3.10E-01	NC	6.19E-01	NC
Total Petroleum Hydrocarbons																		
TPH-GRO																		
Aliphatics - > C6-C8	3.61E+01	NC	NA	--	5.11E+06 *	NC	3.89E+07 *	NC	4.52E+06 *	NC	3.76E+03 *	NC	5.70E+06 +	NC	1.31E+02 #	NC	NA	--
Aliphatics - > C8-C10	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	7.96E+02 *	NC	3.12E+05 +	NC	4.49E+00 #	NC	NA	--
Aromatics - >C8-C10	3.89E-01	NC	NA	--	4.09E+04 *	NC	4.19E+05 *	NC	3.72E+04 *	NC	1.24E+03 *	NC	6.13E+04 +	NC	1.43E+02 #	NC	NA	--
TPH-DRO																		
Aliphatics - >C10-C12	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	3.97E+03 *	NC	3.12E+05 +	NC	3.00E+00 #	NC	NA	--
Aliphatics - >C12-C16	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	1.81E+04 *	NC	3.12E+05 +	NC	6.91E-01 #	NC	NA	--
Aliphatics - >C16-C21	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C10-C12	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	6.66E+03 *	NC	6.13E+04 +	NC	4.73E+02 #	NC	NA	--
Aromatics - >C12-C16	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	3.49E+04 *	NC	6.13E+04 +	NC	1.21E+03 #	NC	NA	--
Aromatics - >C16-C21	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--
TPH-ORO																		
Aliphatics - >C21-C35	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C21-C35	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
VOCs and SVOCs																		
Acenaphthene	4.09E-01	NC	7.15E+04 *	NC	6.13E+04 *	NC	4.41E+05 *	NC	3.07E+04 *	NC	1.72E+06 *	NC	2.56E+05 +	NC	4.09E+04 #	NC	7.50E+00 #	NC
Acenaphthylene	4.09E-01	NC	NA	--	6.13E+04 *	NC	4.58E+05 *	NC	5.41E+04 *	NC	2.15E+06 *	NC	2.45E+05 +	NC	5.24E+04 #	NC	8.89E+00 #	NC
Acetone	6.13E+00	NC	NA	--	9.20E+05 *	NC	6.61E+06 *	NC	8.07E+05 *	NC	1.15E+05	NC	1.28E+06 +	NC	8.14E+05	NC	3.69E+04	NC
Acetonitrile	1.17E-01	NC	NA	--	1.74E+04	NC	1.26E+05	NC	1.53E+04	NC	3.74E+03	NC	2.26E+04	NC	1.62E+04	NC	6.97E+02	NC
Acrylamide	4.20E-05	C	9.64E+00	C	6.36E+00	C	4.53E+01	C	3.53E+00	C	5.30E+01	C	4.94E-03	C	1.22E+02	C	5.72E-01	C
Acrylic acid	1.95E-03	NC	7.74E+05 *	NC	5.11E+05 *	NC	2.10E+03	NC	2.09E+03	NC	9.31E+02	NC	3.04E+01	NC	6.43E+03	NC	8.26E+03	NC
Acrylonitrile	8.02E-04	C	NA	--	5.30E+01	C	8.64E+02	C	4.99E+01	C	5.07E+00	C	1.97E+02	C	3.53E+01	C	9.42E-01	C
Allyl alcohol	3.41E-02	NC	7.74E+03	NC	5.11E+03	NC	3.67E+04	NC	2.84E+03	NC	9.25E+03	NC	5.97E+03	NC	2.96E+04	NC	1.11E+02	NC
Allyl chloride	1.95E-03	NC	4.49E+02	NC	2.96E+02	NC	2.10E+03	NC	1.65E+02	NC	2.09E+03	NC	1.48E+02	NC	4.81E+03	NC	1.06E+00	NC
Aniline	1.95E-03	NC	7.57E+03 *	C	4.99E+03	C	2.10E+03	NC	1.41E+03	NC	1.00E+03	NC	2.99E+02	NC	5.21E+03	NC	4.67E+01	C
Anthracene	2.04E+00	NC	3.57E+05 *	NC	3.07E+05 *	NC	2.22E+06 *	NC	1.54E+05 *	NC	1.01E+07 *	NC	1.69E+06 +	NC	5.83E+04 #	NC	1.76E+01 #	NC
Aroclor 1016	4.77E-04	NC	7.74E+01	NC	7.15E+01	NC	2.60E+03 *	NC	3.67E+01	NC	5.94E+04 *	NC	6.55E+02 +	NC	5.59E+01 #	NC	1.80E-03	NC
Aroclor 1221	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.03E+02 *	C	6.94E+00	C	2.23E+01 *	C	9.00E+01 +	C	6.61E-01 #	C	9.26E-04	C
Aroclor 1242	9.54E-05	C	1.55E+01 *	C	1.43E+01 *	C	1.03E+02 *	C	6.94E+00	C	2.46E+02 *	C	1.36E+02 +	C	6.60E+00 #	C	3.94E-04	C
Aroclor 1248	9.54E-05	C	1.55E+01	C	1.43E+01	C	2.34E+02 *	C	7.21E+00	C	2.42E+03 *	C	1.64E+02 +	C	1.49E+00 #	C	2.13E-04	C
Aroclor 1254	9.54E-05	C	1.55E+01	C	1.43E+01	C	3.80E+02 *	C	7.29E+00	C	6.37E+03 *	C	1.64E+02 +	C	2.05E+00 #	C	1.84E-04	C
Aroclor 1260	9.54E-05	C	1.55E+01	C	1.43E+01	C	1.04E+03	C	7.38E+00	C	4.80E+04 *	C	2.21E+02 +	C	1.23E+00 #	C	2.03E-04	C
Azobenzene	1.76E-03	C	NA	--	2.60E+02	C	8.02E+03 *	C	2.52E+02	C	1.53E+05 *	C	9.08E+02 +	C	4.88E+02 #	C	1.39E-02	C
Benzene	1.06E-02	C	NA	--	8.18E+02	C	1.14E+04 *	C	7.63E+02	C	7.51E+00	C	3.24E+03	C	1.51E+01	C	1.06E+00	C
Benzidine	8.14E-07	C	1.89E-01	C	1.24E-01	C	1.99E+01	C	7.47E-02	C	2.60E+03	C	3.96E-06	C	2.52E+00	C	1.16E-03	C
Benzo(a)anthracene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	1.74E+06 *	C	2.11E+01	C	2.31E+06 *	C	1.32E+02 +	C	9.79E+02 #	C	6.37E-04	C
Benzo(a)pyrene	4.89E-05	C	4.57E+00	C	3.92E+00	C	1.74E+05 *	C	2.11E+00	C	9.33E+05 *	C	7.06E+00 +	C	1.54E+02 #	C	3.74E-05	C
Benzo(b)fluoranthene	4.89E-04	C	4.57E+01 *	C	3.92E+01 *	C	1.02E+04 *	C	2.11E+01 *	C	9.09E+05 *	C	5.60E+02 +	C	1.25E+02 #	C	3.68E-04	C
Benzo(g,h,i)perylene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.65E+04 *	NC	1.24E+09 *	NC	7.62E+02 +	NC	1.33E+05 #	NC	2.10E-01 #	NC
Benzo(k)fluoranthene	4.89E-04	C	4.57E+02 *	C	3.92E+02 *	C	1.74E+06 *	C	2.11E+02 *	C	1.99E+07 *	C	9.18E+01 +	C	2.74E+03 #	C	3.80E-03 #	C
Benzoic acid	2.73E+01	NC	6.19E+06 *	NC	4.09E+06 *	NC	2.94E+07 *	NC	2.27E+06 *	NC	1.14E+07 *	NC	5.00E+06 +	NC	8.02E+07 #	NC	1.10E+04 #	NC
Benzyl alcohol	2.04E+00	NC	4.65E+05 *	NC	3.07E+05 *	NC	2.20E+06 *	NC	1.70E+05 *	NC	1.62E+06 *	NC	1.24E+05 +	NC	7.74E+06 #	NC	2.54E+03	NC
1,1-Biphenyl	3.41E-01	NC	NA	--	5.11E+04 *	NC	3.67E+05 *	NC	4.49E+04 *	NC	1.15E+05 *	NC	2.25E+05	NC	1.37E+04 #	NC	9.87E+00 #	NC
Bis(2-chloroethyl)ether	1.65E-04	C	NA	--	2.60E+01	C	1.78E+02	C	2.27E+01	C	1.83E+01	C	5.81E+01	C	7.98E+01	C	1.93E-01	C
Bis(2-chloroisopropyl)ether	5.45E-03	C	NA	--	4.09E+02	C	5.88E+03 *	C	3.82E+02	C	2.40E+02	C	2.29E+03	C	5.06E+02	C	5.31E-01	C
Bis(chloromethyl)ether	8.79E-07	C	NA	--	1.30E-01	C	9.48E-01	C	1.14E-01	C	4.65E-03	C	2.64E-01	C	3.19E-02	C	2.43E-03	C
Bis(2-ethylhexyl)phthalate	1.36E-02	C	3.10E+03	C	2.04E+03	C	4.84E+07 *	C	1.23E+03	C	1.17E+10 *	C	5.38E+02 +	C	1.30E+05 #	C	2.75E-01	C
Bromochloromethane	9.74E-02	NC	NA	--	4.09E+04 *	NC	1.05E+05 *	NC	2.94E+04 *	NC	2.28E+02	NC	2.71E+04	NC	7.55E+02	NC	2.70E+02	NC
Bromodichloromethane	1.47E-03	C	NA	--	4.62E+02	C	1.59E+03	C	3.58E+02	C	9.70E+00	C	1.33E+03	C	2.07E+01	C	1.17E+00	C
Bromoform	4.96E-02	C	5.49E+03 *	C	3.62E+03 *	C	5.34E+04 *	C	2.10E+03 *	C	2.66E+03 *	C	8.75E+04 +	C	4.05E+03 #	C	1.08E+01	C
Bromomethane	9.74E-03	NC	NA	--	1.43E+03	NC	1.05E+04 *	NC	1.26E+03	NC	3.23E+00	NC	3.59E+03	NC	1.46E+01	NC	8.98E+00	NC
4-Bromophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	2.78E+01	C	1.10E+00	C	1.95E+02 *	C	9.17E+00 +	C	1.94E+00 #	C	7.72E-05	C
n-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	3.08E+03 *	NC	9.78E+04 +	NC	1.95E+02 #	NC	2.97E+00	NC
sec-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	1.71E+03 *	NC	9.78E+04 +	NC	1.37E+02 #	NC	4.03E+00	NC
tert-Butylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	2.62E+03 *	NC	9.78E+04 +	NC	2.10E+02 #	NC	3.51E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Butyl benzyl phthalate	1.36E+00	NC	3.10E+05 *	NC	2.04E+05 *	NC	4.84E+09 *	NC	1.23E+05 *	NC	2.83E+09 *	NC	4.24E+05 +	NC	8.32E+06 #	NC	2.32E+01 #	NC
Carbazole	9.54E-03	C	2.17E+03 *	C	1.43E+03 *	C	4.79E+04 *	C	8.47E+02 *	C	1.01E+06 *	C	3.09E+01 +	C	4.99E+04 #	C	6.69E-01	C
Carbon disulfide	1.36E+00	NC	NA	--	1.02E+05 *	NC	1.47E+06 *	NC	9.56E+04 *	NC	1.72E+02	NC	3.53E+05	NC	3.09E+02	NC	1.15E+02	NC
Carbon tetrachloride	3.64E-03	C	NA	--	2.20E+02	C	3.92E+03 *	C	2.08E+02	C	1.38E+00	C	1.25E+03	C	1.09E+00	C	1.71E-01	C
p-Chloroaniline	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	2.94E+04 *	NC	2.27E+03	NC	4.85E+04 *	NC	1.23E+03 +	NC	9.16E+04 #	NC	1.45E+01	NC
Chlorobenzene	1.16E-01	NC	NA	--	2.04E+04 *	NC	1.25E+05 *	NC	1.76E+04 *	NC	4.16E+02	NC	4.27E+04	NC	2.96E+02	NC	1.19E+01	NC
Chloroethane	6.58E-02	C	NA	--	9.87E+03 *	C	7.09E+04 *	C	8.66E+03 *	C	1.18E+01	C	1.77E+04	C	4.22E+01	C	3.31E+01	C
Chloroform	2.37E-03	C	NA	--	9.23E+02	C	2.56E+03	C	6.78E+02	C	1.63E+00	C	6.13E+02	C	4.27E+00	C	2.11E+00	C
Chloromethane	3.03E-02	C	NA	--	2.20E+03	C	3.27E+04 *	C	2.06E+03	C	3.78E+00	C	7.41E+03	C	8.23E+00	C	1.44E+01	C
2-Chloronaphthalene	5.45E-01	NC	NA	--	8.18E+04 *	NC	5.88E+05 *	NC	7.18E+04 *	NC	4.31E+05 *	NC	5.75E+05 +	NC	4.50E+04 #	NC	1.50E+01 #	NC
2-Chlorophenol	3.41E-02	NC	NA	--	5.11E+03	NC	3.67E+04	NC	4.49E+03	NC	2.80E+03	NC	1.81E+04 +	NC	1.16E+03	NC	9.36E+00	NC
4-Chlorophenyl phenyl ether	1.65E-05	C	2.89E+00	C	1.91E+00	C	1.78E+01	C	1.08E+00	C	5.47E+01	C	9.03E+00	C	7.08E-01	C	7.56E-05	C
2-Chlorotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	1.01E+03 *	NC	5.23E+04 +	NC	4.07E+02 #	NC	7.64E+00	NC
4-Chlorotoluene	5.06E-04	NC	NA	--	2.04E+04 *	NC	5.46E+02 *	NC	5.32E+02 *	NC	4.74E+00	NC	2.01E+02	NC	1.58E+00	NC	6.49E+00	NC
Chrysene	4.89E-03	C	4.57E+03 *	C	3.92E+03 *	C	6.02E+04 *	C	2.04E+03 *	C	3.12E+06 *	C	5.07E+03 +	C	1.33E+03 #	C	6.37E-02 #	C
Dibenzo(a,h)anthracene	4.65E-05	C	4.57E+00	C	3.92E+00	C	1.65E+05 *	C	2.11E+00	C	7.44E+06 *	C	1.97E-01 +	C	3.31E+02 #	C	2.41E-05	C
Dibenzofuran	1.36E-02	NC	NA	--	2.04E+03 *	NC	1.47E+04 *	NC	1.79E+03 *	NC	3.22E+04 *	NC	6.02E+03 +	NC	7.00E+02 #	NC	3.03E-01	NC
Dibromochloromethane	2.02E-03	C	5.16E+02	C	3.41E+02	C	2.18E+03 *	C	1.88E+02	C	4.47E+01	C	2.74E+03	C	8.67E+01	C	9.32E-01	C
1,2-Dibromo-3-chloropropane	1.36E-04	C	3.10E+01	C	2.04E+01	C	1.47E+02	C	1.14E+01	C	2.17E+02	C	4.24E+03	C	7.13E+02	C	3.59E-02	C
Dibutyl phthalate	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.42E+09 *	NC	6.16E+04 *	NC	6.46E+08 *	NC	1.22E+02 +	NC	3.22E+06 #	NC	2.64E+01 #	NC
1,2-Dichlorobenzene	3.89E-01	NC	NA	--	9.20E+04 *	NC	4.19E+05 *	NC	7.54E+04 *	NC	7.49E+03 *	NC	1.51E+05 +	NC	2.02E+03 #	NC	2.92E+01	NC
1,3-Dichlorobenzene	2.04E-01	NC	NA	--	3.07E+04 *	NC	2.20E+05 *	NC	2.69E+04 *	NC	3.95E+03 *	NC	7.97E+04 +	NC	1.06E+03 #	NC	6.87E+00	NC
1,4-Dichlorobenzene	8.67E-03	C	NA	--	5.30E+03 *	C	9.35E+03 *	C	3.38E+03 *	C	1.31E+02	C	3.38E+03	C	3.54E+01	C	1.64E+00	C
3,3-Dichlorobenzidine	1.59E-04	C	9.64E+01 *	C	6.36E+01 *	C	5.65E+05 *	C	3.83E+01 *	C	3.86E+03 *	C	1.41E-01 +	C	8.72E+02 #	C	3.20E-02	C
Dichlorodifluoromethane	3.89E-01	NC	NA	--	2.04E+05 *	NC	4.19E+05 *	NC	1.37E+05 *	NC	3.56E+01	NC	1.31E+05	NC	3.48E+01	NC	3.50E+02 #	NC
1,1-Dichloroethane	3.41E-02	C	NA	--	5.02E+03 *	C	3.67E+04 *	C	4.42E+03 *	C	1.98E+01	C	1.24E+04	C	5.68E+01	C	1.29E+01	C
1,1-Dichloroethylene	3.89E-01	NC	NA	--	5.11E+04 *	NC	4.20E+05 *	NC	4.56E+04 *	NC	7.16E+01	NC	1.16E+05	NC	1.18E+02	NC	7.44E+01	NC
cis-1,2-Dichloroethylene	6.82E-02	NC	NA	--	1.02E+04 *	NC	7.35E+04 *	NC	8.97E+03 *	NC	5.64E+01	NC	2.49E+04	NC	1.56E+02	NC	2.34E+01	NC
trans-1,2-Dichloroethylene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	6.93E+01	NC	5.19E+04	NC	1.43E+02	NC	3.40E+01	NC
2,4-Dichlorophenol	2.04E-02	NC	4.65E+03 *	NC	3.07E+03	NC	2.20E+04 *	NC	1.70E+03	NC	5.13E+04 *	NC	6.50E+03 +	NC	5.09E+04 #	NC	1.71E+00	NC
1,2-Dichloropropane	5.30E-03	C	NA	--	7.95E+02	C	5.71E+03 *	C	6.98E+02	C	6.67E+00	C	1.82E+03	C	1.66E+01	C	1.65E+00	C
1,3-Dichloropropene	1.36E-02	C	NA	--	2.86E+02	C	1.47E+04 *	C	2.81E+02	C	4.24E+00	C	5.86E+03	C	8.68E+00	C	1.09E+00	C
Di(2-ethylhexyl)adipate	1.59E-01	C	3.61E+04 *	C	2.38E+04 *	C	1.71E+05 *	C	1.33E+04 *	C	2.80E+05 *	C	1.20E+05 +	C	1.33E+02 #	C	2.44E+00 #	C
Diethyl phthalate	5.45E+00	NC	1.24E+06 *	NC	8.18E+05 *	NC	1.94E+10 *	NC	4.93E+05 *	NC	5.31E+07 *	NC	5.24E+05 +	NC	2.88E+07 #	NC	1.68E+03 #	NC
Diisopropyl ether (DIPE)	7.50E-01	NC	NA	--	1.02E+05 *	NC	8.08E+05 *	NC	9.07E+04 *	NC	1.00E+03	NC	2.96E+05	NC	1.92E+03	NC	1.93E+02	NC
2,4-Dimethylphenol	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	1.47E+05 *	NC	1.14E+04 *	NC	4.56E+05 *	NC	2.68E+04 +	NC	3.32E+05 #	NC	2.84E+01	NC
2,6-Dimethylphenol	4.09E-03	NC	9.29E+02	NC	6.13E+02	NC	6.84E+03	NC	3.50E+02	NC	4.80E+04	NC	1.34E+03	NC	4.99E+03	NC	NA	--
Dimethyl phthalate	6.82E+01	NC	1.55E+07 *	NC	1.02E+07 *	NC	7.35E+07 *	NC	5.68E+06 *	NC	1.42E+08 *	NC	1.61E+06 +	NC	3.80E+08 #	NC	7.01E+04 #	NC
1,3-Dinitrobenzene	6.82E-04	NC	1.55E+02 *	NC	1.02E+02 *	NC	7.35E+02 *	NC	5.68E+01 *	NC	1.44E+03 *	NC	2.84E+01 +	NC	1.88E+03 #	NC	5.52E-01	NC
2,4-Dinitrophenol	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	1.47E+04 *	NC	1.14E+03 *	NC	7.15E+03 *	NC	9.27E+02 +	NC	5.17E+04 #	NC	1.39E+01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2,4-Dinitrotoluene	6.16E-04	C	1.40E+02	C	9.23E+01	C	6.64E+02 *	C	5.13E+01	C	1.97E+03 *	C	1.05E+01 +	C	2.81E+03 #	C	3.09E-01	C
2,6-Dinitrotoluene	2.81E-04	C	6.38E+01	C	4.21E+01	C	3.03E+02 *	C	2.34E+01	C	6.59E+02 *	C	3.63E+01 +	C	1.20E+03 #	C	2.08E-01	C
4-Amino-2,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	3.23E+02 *	NC	7.91E+01	NC	2.25E+03 *	NC	1.69E-01 +	NC	9.83E+02 #	NC	2.54E-01	NC
2-Amino-4,6-dinitrotoluene	1.95E-04	NC	2.63E+02 *	NC	1.74E+02 *	NC	3.98E+02 *	NC	8.29E+01 *	NC	3.42E+03 *	NC	1.16E-01 +	NC	9.86E+02 #	NC	1.93E-01	NC
Di-n-octylphthalate	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	3.96E+05 *	NC	2.32E+04 *	NC	2.41E+06 *	NC	4.57E+05 +	NC	1.69E+05 #	NC	2.42E+00 #	NC
1,4-Dioxane	7.08E-03	C	3.94E+03	C	2.60E+03	C	7.63E+03	C	1.30E+03	C	8.76E+02	C	7.12E+02	C	3.67E+03	C	1.44E+02	C
Diphenylamine	1.95E-02	NC	3.87E+04 *	NC	2.56E+04 *	NC	2.64E+04 *	NC	9.72E+03 *	NC	1.50E+05 *	NC	5.56E+03 +	NC	4.05E+04 #	NC	1.11E+01	NC
1,2-Diphenylhydrazine	2.48E-04	C	5.42E+01	C	3.58E+01	C	6.19E+02	C	2.08E+01	C	6.49E+03	C	2.25E-01	C	1.60E+03	C	2.81E-02	C
Ethanol	3.68E+00	NC	NA	--	3.37E+07 *	NC	3.97E+06 *	NC	3.55E+06 *	NC	3.57E+05 *	NC	6.71E+05 +	NC	2.46E+06 #	NC	1.37E+06 #	NC
Ethylbenzene	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	5.20E+03 *	NC	7.09E+05 +	NC	2.35E+03 #	NC	3.51E+01	NC
Ethylene dibromide (EDB)	9.09E-05	C	NA	--	1.43E+01	C	9.80E+01	C	1.25E+01	C	1.76E+00	C	1.10E+02	C	3.82E+00	C	5.15E-02	C
Ethylene dichloride (EDC)	2.10E-03	C	NA	--	3.14E+02	C	2.26E+03 *	C	2.76E+02	C	3.38E+00	C	5.42E+02	C	1.39E+01	C	1.29E+00	C
Ethylene glycol	7.77E-01	NC	3.10E+06 *	NC	2.04E+06 *	NC	8.38E+05 *	NC	4.99E+05 *	NC	3.70E+05 *	NC	5.55E+03 +	NC	2.28E+06 #	NC	3.67E+05	NC
Ethylene thiourea	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	5.88E+02	NC	4.54E+01	NC	3.98E+02	NC	2.51E-02	NC	2.02E+03	NC	8.40E+00	NC
Ethyl-tert-butyl-ether (ETBE)	5.86E-01	NC	NA	--	1.02E+03	NC	6.32E+05 *	NC	1.02E+03	NC	8.59E+02	NC	2.27E+05	NC	2.37E+03	NC	2.77E+00	NC
Fluoranthene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	3.52E+06 *	NC	2.19E+04 *	NC	1.91E+08 *	NC	1.97E+05 +	NC	3.02E+05 #	NC	1.66E+00 #	NC
Fluorene	2.73E-01	NC	4.76E+04 *	NC	4.09E+04 *	NC	6.28E+05 *	NC	2.13E+04 *	NC	6.06E+06 *	NC	1.90E+05 +	NC	7.41E+04 #	NC	3.48E+00 #	NC
Formaldehyde	4.20E-03	C	9.54E+02	C	6.30E+02	C	4.53E+03	C	3.50E+02	C	1.00E+03	C	9.05E+01	C	6.64E+03	C	8.09E+00	C
n-Hexane	1.36E+00	NC	NA	--	1.12E+07 *	NC	1.47E+06 *	NC	1.30E+06 *	NC	4.17E+01	NC	1.83E+05	NC	2.72E+00	NC	2.77E+03 #	NC
Hexachlorobenzene	1.19E-04	C	2.71E+01	C	1.79E+01	C	1.28E+02	C	9.94E+00	C	3.60E+02	C	5.90E+01 +	C	1.13E+00	C	8.16E-04	C
Hexachlorobutadiene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	2.20E+03 *	NC	1.70E+02	NC	9.46E+02	NC	9.81E+02	NC	3.13E+00	NC	2.62E-02	NC
Hexachlorocyclopentadiene	3.89E-04	NC	9.29E+03 *	NC	6.13E+03 *	NC	4.20E+02	NC	3.77E+02	NC	7.05E+02	NC	6.50E+02	NC	6.25E-01	NC	7.08E-01	NC
Hexachloroethane	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	7.35E+03 *	NC	5.68E+02 *	NC	4.93E+03 *	NC	7.25E+04 +	NC	4.62E+02 #	NC	2.48E-01	NC
Hexachlorophene	2.04E-03	NC	4.65E+02	NC	3.07E+02	NC	7.26E+06 *	NC	1.85E+02	NC	3.02E+06 *	NC	2.25E-03 +	NC	1.00E+05 #	NC	4.87E-03	NC
HMX	5.26E-03	NC	7.74E+04 *	NC	5.11E+04 *	NC	1.87E+07 *	NC	3.07E+04 *	NC	1.10E+04 *	NC	1.08E+00 +	NC	3.08E+04 #	NC	5.65E+04 #	NC
Indeno(1,2,3-cd)pyrene	4.89E-04	C	2.78E+01 *	C	2.38E+01 *	C	1.74E+06 *	C	1.28E+01 *	C	5.05E+07 *	C	1.59E+02 +	C	2.46E+03 #	C	2.24E-04 #	C
Isophorone	2.01E-01	C	4.56E+04 *	C	3.01E+04 *	C	2.17E+05 *	C	1.67E+04 *	C	1.04E+05 *	C	6.70E+04 +	C	2.50E+05 #	C	1.22E+02	C
Isopropylbenzene (Cumene)	7.79E-01	NC	NA	--	1.02E+05 *	NC	8.40E+05 *	NC	9.11E+04 *	NC	2.67E+02 *	NC	2.80E+05 +	NC	8.56E+01 #	NC	2.50E+01	NC
4-Isopropyltoluene	2.04E+00	NC	NA	--	3.07E+05 *	NC	2.20E+06 *	NC	2.69E+05 *	NC	2.88E+04 *	NC	9.61E+05 +	NC	2.21E+03 #	NC	2.88E+01 #	NC
Maleic anhydride	1.36E-03	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.47E+03 *	NC	1.44E+03	NC	4.59E+02	NC	2.51E+02 +	NC	1.58E+03	NC	3.39E+02	NC
Methanol	7.50E+00	NC	NA	--	5.11E+05 *	NC	8.08E+06 *	NC	4.81E+05 *	NC	9.75E+05 *	NC	9.39E+05 +	NC	5.09E+06 #	NC	3.68E+04	NC
Methyl butyl ketone	7.79E-03	NC	NA	--	6.13E+04 *	NC	8.40E+03 *	NC	7.39E+03 *	NC	2.15E+02	NC	2.94E+03	NC	8.82E+02	NC	2.54E+02	NC
Methyl ethyl ketone	9.74E+00	NC	NA	--	6.13E+05 *	NC	1.05E+07 *	NC	5.79E+05 *	NC	2.03E+05 *	NC	2.83E+06 +	NC	1.23E+06 #	NC	1.26E+04	NC
2-Methyl-4,6-dinitrophenol	5.84E-04	NC	1.55E+02	NC	1.02E+02	NC	6.30E+02 *	NC	5.61E+01	NC	4.11E+02	NC	3.13E-01 +	NC	2.97E+03	NC	3.08E-01	NC
Methylene chloride	1.16E-01	C	NA	--	3.82E+03 *	C	1.25E+05 *	C	3.70E+03 *	C	7.70E+01	C	3.09E+04	C	3.58E+02	C	2.02E+01	C
Methyl iodide	2.34E-02	NC	NA	--	1.43E+03	NC	2.52E+04 *	NC	1.35E+03	NC	3.20E+01	NC	6.16E+03	NC	3.03E+01	NC	7.69E+00	NC
Methyl isobutyl ketone	5.84E+00	NC	NA	--	8.18E+04 *	NC	6.30E+06 *	NC	8.07E+04 *	NC	3.45E+05 *	NC	2.07E+06 +	NC	3.72E+05 #	NC	5.18E+02	NC
2-Methylnaphthalene	2.73E-02	NC	NA	--	4.09E+03 *	NC	2.94E+04 *	NC	3.59E+03 *	NC	1.64E+04 *	NC	1.16E+04 +	NC	6.41E+02 #	NC	7.84E-01	NC
2-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	6.45E+05 *	NC	4.62E+04 +	NC	9.51E+05 #	NC	1.11E+02	NC
3-Methylphenol	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	3.18E+05 *	NC	3.25E+04 +	NC	9.29E+05 #	NC	1.09E+02	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
4-Methylphenol	3.41E-02	NC	7.74E+03	NC	5.11E+03	NC	3.67E+04 *	NC	2.84E+03	NC	3.82E+04 *	NC	3.61E+03 +	NC	8.92E+04 #	NC	1.11E+01	NC
Methyl teriary butyl ether (MTBE)	2.10E-01	C	NA	--	1.59E+04 *	C	2.26E+05 *	C	1.49E+04 *	C	6.15E+02	C	7.03E+04	C	2.98E+03	C	8.58E+01	C
Methyl-2,4,6-trinitrophenylnitramine	1.95E-04	NC	1.55E+04 *	NC	1.02E+04 *	NC	6.91E+05 *	NC	6.10E+03 *	NC	5.34E+03 *	NC	2.87E-04 +	NC	3.47E+03 #	NC	6.58E+01	NC
Naphthalene	1.59E-03	C	2.78E+02	C	2.38E+02	C	1.71E+03 *	C	1.19E+02	C	4.43E+02 *	C	7.22E+02 +	C	3.72E+01 #	C	7.51E-02	C
2-Nitroaniline	2.04E-04	NC	4.65E+03 *	NC	3.07E+03 *	NC	2.20E+02	NC	1.97E+02	NC	2.53E+02	NC	1.75E+01	NC	8.52E+02	NC	7.39E+00	NC
3-Nitroaniline	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.20E+03 *	NC	1.70E+02	NC	3.26E+03 *	NC	2.00E+00 +	NC	8.78E+03 #	NC	1.36E+00	NC
4-Nitroaniline	6.82E-03	NC	2.06E+03 *	C	1.36E+03 *	C	7.35E+03 *	NC	7.57E+02 *	C	6.03E+03 *	NC	9.69E-01 +	NC	2.95E+04 #	NC	1.39E+01	C
Nitrobenzene	3.89E-03	NC	NA	--	5.11E+02	NC	4.19E+03 *	NC	4.55E+02	NC	6.80E+02	NC	1.27E+03	NC	1.31E+03	NC	1.54E+00	NC
Nitroglycerin	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	1.59E+03	NC	7.78E+00 +	NC	2.32E+03	NC	3.26E-01	NC
2-Nitrophenol	7.79E-03	NC	3.10E+03	NC	2.04E+03	NC	8.40E+03 *	NC	1.07E+03	NC	7.16E+03 *	NC	5.96E+02 +	NC	2.73E+04 #	NC	6.99E+00	NC
4-Nitrophenol	1.95E-03	NC	3.10E+03 *	NC	2.04E+03 *	NC	2.10E+03 *	NC	7.76E+02 *	NC	1.31E+03 *	NC	2.67E-01 +	NC	8.36E+03 #	NC	5.83E+00	NC
n-Nitrosodimethylamine	3.90E-06	C	8.50E-01	C	5.61E-01	C	4.21E+00	C	3.13E-01	C	1.30E+00	C	4.56E-01	C	6.20E+00	C	4.38E-02	C
n-Nitrosodi-n-propylamine	2.73E-05	C	6.19E+00	C	4.09E+00	C	2.94E+01	C	2.27E+00	C	1.71E+01	C	6.16E+00	C	6.68E+01	C	2.58E-02	C
n-Nitrosodiphenylamine	2.12E-02	C	8.85E+03 *	C	5.84E+03 *	C	4.53E+04 *	C	3.26E+03 *	C	4.06E+05 *	C	1.06E+04 +	C	5.22E+04 #	C	3.64E+00	C
n-Nitrosopyrrolidine	8.94E-05	C	2.06E+01	C	1.36E+01	C	9.64E+01	C	7.56E+00	C	5.80E+01	C	3.02E-01	C	4.09E+02	C	3.78E-01	C
2-Nitrotoluene	8.30E-04	C	NA	--	1.24E+02	C	8.95E+02 *	C	1.09E+02	C	1.73E+02	C	3.30E+02	C	1.78E+02	C	1.78E-01	C
3-Nitrotoluene	1.36E-01	NC	NA	--	2.04E+04 *	NC	1.47E+05 *	NC	1.79E+04 *	NC	2.41E+04 *	NC	5.50E+04 +	NC	2.48E+04 #	NC	2.93E+01	NC
4-Nitrotoluene	1.12E-02	C	NA	--	1.68E+03 *	C	1.21E+04 *	C	1.48E+03 *	C	1.96E+03 *	C	4.54E+03 +	C	2.02E+03 #	C	2.41E+00	C
Pentachlorobenzene	5.45E-03	NC	1.24E+03 *	NC	8.18E+02 *	NC	5.88E+03 *	NC	4.54E+02 *	NC	1.80E+04 *	NC	2.18E+03 +	NC	7.71E+01 #	NC	3.34E-02	NC
Pentachloronitrobenzene	7.34E-04	C	1.67E+02 *	C	1.10E+02 *	C	3.12E+03 *	C	6.49E+01	C	5.57E+04 *	C	1.14E+03 +	C	3.54E+02 #	C	1.45E-02	C
Pentachlorophenol	1.06E-02	C	1.45E+02	C	2.38E+02	C	3.76E+07 *	C	9.00E+01	C	2.31E+05 *	C	6.26E+01 +	C	6.34E+04 #	C	4.08E-03	C
Pentaerythritol tetranitrate	2.73E+00	NC	6.19E+05 *	NC	4.09E+05 *	NC	9.68E+09 *	NC	2.46E+05 *	NC	3.92E+08 *	NC	5.80E+05 +	NC	1.05E+07 #	NC	1.99E+02 #	NC
Phenanthrene	2.04E-01	NC	NA	--	3.07E+04 *	NC	3.51E+05 *	NC	2.82E+04 *	NC	2.52E+06 *	NC	1.60E+05 +	NC	3.01E+04 #	NC	2.33E+00 #	NC
Phenol	3.89E-01	NC	4.65E+05 *	NC	3.07E+05 *	NC	4.20E+05 *	NC	1.28E+05 *	NC	4.07E+05 *	NC	2.12E+04 +	NC	1.32E+06 #	NC	1.26E+03	NC
m-Phenylenediamine	4.09E-02	NC	9.29E+03	NC	6.13E+03	NC	4.41E+04 *	NC	3.41E+03	NC	2.36E+04	NC	6.29E-01	NC	1.63E+05	NC	4.76E+02	NC
Polychlorinated biphenyls (PCBs)	5.45E-04	C	1.55E+01	C	1.43E+01	C	1.71E+03 *	C	7.40E+00	C	2.24E+04 *	C	1.40E+02 +	C	1.23E+01 #	C	2.31E-04	C
n-Propylbenzene	2.73E-01	NC	NA	--	4.09E+04 *	NC	2.94E+05 *	NC	3.59E+04 *	NC	1.06E+03 *	NC	9.78E+04 +	NC	2.44E+02 #	NC	6.54E+00	NC
Pyrene	2.04E-01	NC	3.57E+04 *	NC	3.07E+04 *	NC	3.09E+06 *	NC	1.64E+04 *	NC	1.97E+08 *	NC	1.41E+05 +	NC	3.17E+05 #	NC	9.07E-01 #	NC
RDX	1.73E-03	C	3.94E+02	C	2.60E+02	C	1.87E+03 *	C	1.45E+02	C	4.97E+03 *	C	2.19E+01 +	C	9.71E+03 #	C	4.59E+00	C
Styrene	1.95E+00	NC	NA	--	2.04E+05 *	NC	2.10E+06 *	NC	1.86E+05 *	NC	3.15E+04 *	NC	7.38E+05 +	NC	6.84E+03 #	NC	9.27E+01	NC
1,1,1,2-Tetrachloroethane	7.37E-03	C	NA	--	1.10E+03 *	C	7.94E+03 *	C	9.67E+02 *	C	1.77E+01	C	2.79E+03	C	2.94E+01	C	8.11E-01	C
1,1,2,2-Tetrachloroethane	9.40E-04	C	NA	--	1.43E+02	C	1.01E+03	C	1.25E+02	C	1.76E+01	C	3.54E+02	C	2.55E+01	C	2.36E-01	C
1,2,4,5-Tetrachlorobenzene	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.20E+03 *	NC	1.70E+02 *	NC	5.06E+02 *	NC	2.59E+03 +	NC	5.30E+01 #	NC	2.66E-02	NC
Tetrachloroethylene	9.09E-03	C	NA	--	5.30E+01	C	9.80E+03 *	C	5.27E+01	C	5.34E+00	C	3.40E+03	C	4.86E+00	C	1.85E-02	C
Tetrahydrofuran	2.81E-02	C	NA	--	3.77E+03	C	3.03E+04	C	3.35E+03	C	3.79E+02	C	7.49E+03	C	2.63E+03	C	4.61E+01	C
Tertiary-amyl-methyl-ether (TAME)	1.57E-01	NC	NA	--	4.09E+04 *	NC	1.69E+05 *	NC	3.29E+04 *	NC	1.90E+02	NC	6.03E+04	NC	4.87E+02	NC	1.03E+02	NC
Tertiary-butyl-alcohol (TBA)	5.86E-01	NC	NA	--	9.20E+04 *	NC	6.32E+05 *	NC	8.03E+04 *	NC	4.93E+04 *	NC	1.62E+05 +	NC	3.02E+05 #	NC	8.44E+02	NC
Toluene	9.54E+00	NC	NA	--	8.18E+04 *	NC	1.03E+07 *	NC	8.11E+04 *	NC	1.38E+04 *	NC	2.95E+06 +	NC	1.16E+04 #	NC	4.76E+01	NC
1,2,4-Trichlorobenzene	6.82E-03	NC	NA	--	7.95E+03 *	C	7.35E+03 *	NC	4.27E+03 *	NC	1.14E+03	NC	6.09E+03	NC	1.08E+02	NC	1.25E+00	C
1,3,5-Trichlorobenzene	7.79E-02	NC	NA	--	3.07E+03 *	NC	8.40E+04 *	NC	2.96E+03 *	NC	1.64E+03 *	NC	3.35E+04 +	NC	3.88E+02 #	NC	3.73E-01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
1,1,1-Trichloroethane	4.28E+00	NC	NA	--	2.86E+05 *	NC	4.62E+06 *	NC	2.69E+05 *	NC	1.90E+03 *	NC	1.48E+06 +	NC	2.26E+03 #	NC	3.13E+02	NC
1,1,2-Trichloroethane	3.41E-03	C	NA	--	5.02E+02	C	3.67E+03 *	C	4.42E+02	C	1.40E+01	C	1.17E+03	C	3.22E+01	C	1.11E+00	C
Trichloroethylene	2.73E-02	C	NA	--	2.20E+03 *	C	2.94E+04 *	C	2.05E+03 *	C	2.64E+01	C	9.29E+03	C	2.36E+01	C	2.64E+00	C
Trichlorofluoromethane	1.36E+00	NC	NA	--	3.07E+05 *	NC	1.47E+06 *	NC	2.54E+05 *	NC	1.81E+02	NC	4.22E+05	NC	1.16E+02	NC	3.26E+02	NC
2,4,5-Trichlorophenol	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	1.67E+06 *	NC	5.94E+04 *	NC	1.72E+07 *	NC	3.14E+05 +	NC	1.79E+06 #	NC	4.23E+01	NC
2,4,6-Trichlorophenol	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	7.35E+02	NC	5.68E+01	NC	3.01E+03 *	NC	3.97E+02 +	NC	1.26E+03 #	NC	2.74E-02	NC
1,2,3-Trichloropropane	9.54E-05	C	NA	--	1.43E+01	C	1.03E+02	C	1.26E+01	C	1.15E+00	C	3.60E+01	C	2.61E+00	C	1.76E-02	C
1,1,2-Trichlorotrifluoroethane	5.86E+01	NC	NA	--	3.07E+07 *	NC	6.32E+07 *	NC	2.06E+07 *	NC	1.44E+04 *	NC	5.48E+07 +	NC	2.77E+03 #	NC	2.06E+04 #	NC
1,2,4-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	3.73E+02	NC	4.19E+03	NC	1.77E+01	NC	9.23E+00	NC
1,3,5-Trimethylbenzene	1.17E-02	NC	NA	--	5.11E+04 *	NC	1.26E+04 *	NC	1.01E+04 *	NC	5.96E+01	NC	4.19E+03	NC	1.25E+01	NC	8.55E+00	NC
1,3,5-Trinitrobenzene	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	2.13E+05 *	NC	1.28E+01 +	NC	9.59E+05 #	NC	2.93E+02 #	NC
2,4,6-Trinitrotoluene (TNT)	3.41E-03	NC	7.74E+02 *	NC	5.11E+02 *	NC	1.21E+07 *	NC	3.08E+02 *	NC	3.11E+04 *	NC	2.93E+02 +	NC	1.58E+04 #	NC	2.33E+00	NC
Vinyl chloride (for residential scenario)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Vinyl chloride (for occupational scenatio)	6.20E-03	C	NA	--	2.04E+01	C	6.68E+03 *	C	2.04E+01	C	5.99E-01	C	1.57E+03	C	1.55E+00	C	7.53E-02	C
Xylenes (total)	1.98E-01	NC	NA	--	2.04E+05 *	NC	2.13E+05 *	NC	1.04E+05 *	NC	6.63E+02 *	NC	7.60E+04 +	NC	2.69E+02 #	NC	1.18E+02	NC
Pesticides																		
Acetochlor	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	1.07E+06 *	NC	2.29E+03 +	NC	8.13E+05 #	NC	5.93E+01	NC
Acifluorfen	1.95E-02	NC	2.01E+04	NC	1.33E+04	NC	6.91E+07 *	NC	8.00E+03	NC	1.93E+07 *	NC	1.96E-02 +	NC	2.36E+07 #	NC	1.84E+03	NC
Acrolein	3.89E-05	NC	NA	--	5.11E+02	NC	4.20E+01	NC	3.88E+01	NC	5.10E-01	NC	9.37E+00	NC	1.94E+00	NC	1.66E+01	NC
Alachlor	2.39E-03	C	7.74E+02 *	C	5.11E+02 *	C	8.47E+06 *	C	3.08E+02	C	1.92E+04 *	C	5.08E+00 +	C	1.51E+04 #	C	4.02E-01	C
Aldicarb	6.82E-03	NC	1.55E+03 *	NC	1.02E+03	NC	7.35E+03 *	NC	5.68E+02	NC	8.16E+03 *	NC	2.04E+00 +	NC	3.51E+04 #	NC	9.60E+00	NC
Aldicarb sulfone	6.82E-03	NC	1.55E+03 *	NC	1.02E+03	NC	2.42E+07 *	NC	6.16E+02	NC	6.77E+03 *	NC	5.92E+00 +	NC	4.34E+04 #	NC	2.64E+02	NC
Aldrin	1.11E-05	C	2.55E+00	C	1.68E+00	C	3.47E+02	C	1.01E+00	C	4.60E+04 *	C	2.18E+01 +	C	3.18E+00 #	C	3.82E-03	C
Ametryn	6.13E-02	NC	1.39E+04 *	NC	9.20E+03 *	NC	2.18E+08 *	NC	5.54E+03 *	NC	9.69E+05 *	NC	7.36E+01 +	NC	3.97E+05 #	NC	1.09E+01	NC
Atrazine	8.67E-04	C	1.89E+02 *	C	1.24E+02 *	C	3.08E+06 *	C	7.49E+01	C	1.74E+04 *	C	1.04E+00 +	C	5.73E+03 #	C	1.55E-01	C
Baygon	2.73E-02	NC	6.19E+03 *	NC	4.09E+03 *	NC	9.68E+07 *	NC	2.46E+03 *	NC	1.26E+05 *	NC	1.88E+03	NC	1.16E+05 #	NC	NA	--
Butylate	3.41E-01	NC	7.74E+04 *	NC	5.11E+04 *	NC	3.67E+05 *	NC	2.84E+04 *	NC	4.69E+04 *	NC	1.83E+05 +	NC	5.32E+04 #	NC	1.29E+01	NC
Captan	8.30E-02	C	1.89E+04 *	C	1.24E+04 *	C	2.95E+08 *	C	7.49E+03 *	C	3.29E+05 *	C	7.30E+04 +	C	2.51E+05 #	C	5.02E+01 #	C
Carbaryl	7.50E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	8.08E+05 *	NC	5.72E+04 *	NC	1.02E+04 *	NC	7.24E+05 +	NC	1.38E+04 #	NC	2.29E+02 #	NC
Carbofuran	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	9.84E+04 *	NC	2.91E+01 +	NC	2.33E+05 #	NC	1.41E+01	NC
Carboxin	6.82E-01	NC	1.55E+05 *	NC	1.02E+05 *	NC	7.35E+05 *	NC	5.68E+04 *	NC	2.49E+02	NC	4.09E+05 +	NC	3.90E+01	NC	1.04E+02	NC
Chloramben	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	5.49E+05 *	NC	6.80E+03 +	NC	4.35E+05 #	NC	2.91E+01	NC
Chlordane (technical)	5.45E-04	C	1.24E+02 *	C	8.18E+01 *	C	7.14E+03 *	C	4.89E+01 *	C	3.95E+05 *	C	1.09E+03 +	C	5.56E+02 #	C	1.96E-03	C
Chlordane, gamma	5.45E-04	C	3.10E+02 *	C	8.18E+01 *	C	5.66E+03 *	C	6.40E+01 *	C	2.47E+05 *	C	4.31E+02 +	C	1.06E+02 #	C	7.32E-03	C
Chlorothalonil	6.16E-02	C	3.50E+04 *	C	9.23E+03 *	C	2.19E+08 *	C	7.30E+03 *	C	6.50E+06 *	C	1.53E+04 +	C	1.89E+05 #	C	3.26E+00 #	C
Chlorpyrifos	2.04E-02	NC	4.65E+03 *	NC	3.07E+03 *	NC	7.26E+07 *	NC	1.85E+03 *	NC	6.48E+05 *	NC	6.89E+03 +	NC	5.81E+04 #	NC	5.85E-01 #	NC
Coumaphos	4.77E-02	NC	1.08E+04 *	NC	7.15E+03 *	NC	1.69E+08 *	NC	4.31E+03 *	NC	3.46E+07 *	NC	7.84E+01 +	NC	3.65E+05 #	NC	2.78E+00 #	NC
Cyanazine	2.27E-04	C	5.16E+01	C	3.41E+01	C	2.45E+02	C	1.89E+01	C	3.96E-02	C	1.41E+02 +	C	1.47E-02	C	2.59E-01	C
Dacthal	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	2.39E+03 *	NC	7.95E-02 +	NC	8.52E+00 #	NC	1.60E+00 #	NC
Dalapon, sodium salt	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	2.20E+05 *	NC	1.70E+04 *	NC	1.28E+05 *	NC	2.19E+03 +	NC	8.44E+05 #	NC	1.45E+02	NC
DDD	7.95E-04	C	1.81E+02	C	1.19E+02	C	2.82E+06 *	C	7.18E+01	C	2.04E+07 *	C	5.58E+02 +	C	3.45E+03 #	C	3.52E-03	C

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
DDE	5.61E-04	C	1.28E+02	C	8.42E+01	C	5.54E+04 *	C	5.07E+01	C	2.42E+07 *	C	7.77E+02 +	C	9.15E+02 #	C	2.83E-03	C
DDT	5.62E-04	C	1.28E+02	C	8.42E+01	C	2.00E+06 *	C	5.07E+01	C	2.91E+07 *	C	6.13E+02 +	C	1.87E+03 #	C	1.51E-03	C
DEF	2.04E-04	NC	1.55E+02	NC	3.07E+01	NC	7.26E+05 *	NC	2.56E+01	NC	2.30E+06 *	NC	1.46E+01 +	NC	1.23E+03 #	NC	1.01E-03	NC
Demeton	2.73E-04	NC	6.19E+02	NC	4.09E+02	NC	2.94E+02	NC	1.34E+02	NC	4.19E+01	NC	1.59E+02 +	NC	2.43E+01	NC	5.21E-01	NC
Diazinon	6.13E-03	NC	1.39E+03 *	NC	9.20E+02 *	NC	2.18E+07 *	NC	5.54E+02 *	NC	6.75E+04 *	NC	2.07E+02 +	NC	4.52E+04 #	NC	4.27E-01	NC
Dicamba	2.04E-01	NC	4.65E+04 *	NC	3.07E+04 *	NC	7.26E+08 *	NC	1.85E+04 *	NC	9.25E+05 *	NC	9.96E+01 +	NC	1.13E+06 #	NC	1.07E+02	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	2.09E+06 *	NC	1.59E+02 +	NC	3.85E+05 #	NC	1.73E+01	NC
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	5.45E-02	NC	3.10E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	6.47E+03 *	NC	1.08E+06 *	NC	3.05E+01 +	NC	3.29E+05 #	NC	2.84E+00	NC
Dichloroprop (2,4-DP)	6.82E-02	NC	3.10E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	7.68E+03 *	NC	5.37E+04 *	NC	3.45E+02 +	NC	3.88E+05 #	NC	7.18E+00	NC
Dieldrin	1.19E-05	C	2.71E+00	C	1.79E+00	C	1.02E+02 *	C	1.07E+00	C	3.66E+03 *	C	1.76E+01 +	C	2.89E+01 #	C	5.34E-04	C
Dimethoate	1.36E-03	NC	3.10E+02	NC	2.04E+02	NC	4.84E+06 *	NC	1.23E+02	NC	1.97E+03	NC	2.81E-02	NC	6.61E+03	NC	1.29E+01	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	3.22E+04 *	NC	6.81E+02	NC	3.69E+04 #	NC	3.98E-01	NC
Diquat	1.50E-02	NC	3.41E+03	NC	2.25E+03	NC	5.32E+07 *	NC	1.35E+03	NC	3.65E+06 *	NC	1.56E-02 +	NC	2.68E+06 #	NC	3.48E+04	NC
Disulfoton	2.73E-04	NC	6.19E+01 *	NC	4.09E+01 *	NC	9.68E+05 *	NC	2.46E+01 *	NC	5.78E+01 *	NC	6.32E+01 +	NC	3.91E+02 #	NC	1.53E-02	NC
Diuron	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	8.97E+04 *	NC	4.11E+03 +	NC	3.76E+04 #	NC	3.48E+00	NC
Endosulfan	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	1.27E+05 *	NC	3.59E+03 *	NC	1.65E+06 *	NC	5.85E+04 +	NC	1.29E+05 #	NC	6.59E+00 #	NC
Endothall	1.36E-01	NC	3.10E+04	NC	2.04E+04	NC	1.47E+05 *	NC	1.14E+04	NC	8.07E+08 *	NC	1.36E-01	NC	9.19E+08 #	NC	8.28E+01	NC
Endrin	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	5.53E+05 *	NC	2.31E+03 +	NC	7.58E+03 #	NC	9.16E-02	NC
Endrin aldehyde	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	2.53E+04 *	NC	1.83E+02	NC	1.31E+06 *	NC	1.84E+03 +	NC	1.04E+02 #	NC	6.31E-03	NC
Endrin Ketone	1.95E-04	NC	4.65E+02	NC	3.07E+02	NC	6.91E+05 *	NC	1.85E+02	NC	1.23E+06 *	NC	4.33E+01 +	NC	1.20E+03 #	NC	2.79E-02	NC
Eptam	1.70E-01	NC	NA	--	2.56E+04 *	NC	1.84E+05 *	NC	2.24E+04 *	NC	2.91E+04 *	NC	8.43E+04 +	NC	1.87E+04 #	NC	1.90E+01	NC
Ethoprop	6.82E-04	NC	1.55E+02	NC	1.02E+02	NC	2.42E+06 *	NC	6.16E+01	NC	3.11E+04 *	NC	2.82E+01 +	NC	4.24E+03 #	NC	9.07E-02	NC
Fenamiphos	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	2.71E+04 *	NC	6.33E-01	NC	1.29E+04 #	NC	NA	--
Fenthion	4.77E-04	NC	1.08E+02	NC	7.15E+01	NC	1.69E+06 *	NC	4.31E+01	NC	1.76E+04 *	NC	5.55E+01 +	NC	2.64E+03 #	NC	9.24E-02	NC
Fluometuron	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	6.80E+05 *	NC	4.22E+01	NC	5.79E+05 #	NC	NA	--
Fonofos	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03 *	NC	5.52E+05 *	NC	5.65E+03 +	NC	2.59E+04 #	NC	5.04E-01	NC
alpha-Hexachlorocyclohexane	3.03E-05	C	6.88E+00	C	4.54E+00	C	6.19E+01 *	C	2.62E+00	C	5.29E+02 *	C	3.06E+01 +	C	7.13E+01 #	C	1.06E-03	C
beta-Hexachlorocyclohexane	1.03E-04	C	2.41E+01 *	C	1.59E+01 *	C	3.66E+05 *	C	9.58E+00 *	C	3.65E+03 *	C	1.44E+01 +	C	4.81E+02 #	C	3.59E-03	C
delta-Hexachlorocyclohexane	1.07E-04	C	2.41E+01	C	1.59E+01	C	3.80E+05 *	C	9.58E+00	C	1.38E+04 *	C	9.42E+00 +	C	5.43E+02 #	C	5.33E-03	C
gamma-Hexachlorocyclohexane	1.73E-04	C	3.94E+01	C	2.60E+01	C	3.06E+02 *	C	1.49E+01	C	2.26E+03 *	C	1.97E+02 +	C	3.49E+02 #	C	1.35E-02	C
Glyphosate	6.82E-01	NC	1.55E+05	NC	1.02E+05	NC	3.26E+06 *	NC	6.04E+04	NC	8.93E+14 *	NC	6.82E-01 +	NC	4.07E+13 #	NC	7.45E+04 #	NC
Guthion	1.02E-02	NC	2.32E+03 *	NC	1.53E+03 *	NC	3.63E+07 *	NC	9.23E+02 *	NC	3.06E+05 *	NC	1.64E-02 +	NC	1.87E+05 #	NC	6.09E+00 #	NC
Heptachlor	4.20E-05	C	9.64E+00	C	6.36E+00	C	4.53E+01	C	3.53E+00	C	1.40E+01	C	1.01E+02 +	C	1.81E-03	C	2.78E-03	C
Heptachlor epoxide	2.10E-05	C	4.76E+00	C	3.14E+00	C	7.44E+04 *	C	1.89E+00	C	3.41E+04 *	C	2.66E+01 +	C	6.92E+01 #	C	5.56E-04	C
Hexazinone	2.25E-01	NC	5.11E+04 *	NC	3.37E+04 *	NC	7.99E+08 *	NC	2.03E+04 *	NC	5.43E+06 *	NC	2.52E-01 +	NC	1.50E+07 #	NC	1.43E+02	NC
Malathion	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	4.84E+08 *	NC	1.23E+04 *	NC	1.23E+07 *	NC	1.11E+03 +	NC	1.14E+06 #	NC	1.25E+02	NC
Maleic hydrazide	3.41E+00	NC	7.74E+05 *	NC	5.11E+05 *	NC	3.67E+06 *	NC	2.84E+05 *	NC	5.57E+06 *	NC	1.56E+01 +	NC	1.45E+07 #	NC	8.64E+04 #	NC
Maneb	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	6.47E+05 *	NC	4.35E+03	NC	1.91E+05 #	NC	NA	--
Methomyl	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	1.84E+05 *	NC	1.42E+04 *	NC	1.48E+05 *	NC	4.85E+00 +	NC	6.52E+05 #	NC	6.20E+02	NC
Methoxychlor	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	5.69E+05 *	NC	3.06E+03 *	NC	4.01E+07 *	NC	4.43E+04 +	NC	6.94E+04 #	NC	2.24E-01 #	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	3.41E-03	NC	7.74E+02	NC	5.11E+02	NC	1.21E+07 *	NC	3.08E+02	NC	1.23E+04 *	NC	9.96E-01 +	NC	1.85E+04 #	NC	2.35E-01	NC
MCPP	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	5.42E+03 *	NC	3.87E+01 +	NC	3.92E+04 #	NC	7.68E-01	NC
Metolachlor	1.02E+00	NC	2.32E+05 *	NC	1.53E+05 *	NC	3.63E+09 *	NC	9.23E+04 *	NC	3.17E+07 *	NC	2.69E+03 +	NC	7.38E+06 #	NC	2.63E+02	NC
Metribuzin	1.70E-01	NC	3.87E+04 *	NC	2.56E+04 *	NC	6.05E+08 *	NC	1.54E+04 *	NC	2.37E+06 *	NC	2.47E-01	NC	3.35E+06 #	NC	1.27E+03 #	NC
Mirex	1.06E-05	C	2.41E+00	C	1.59E+00	C	1.14E+01	C	8.84E-01	C	1.29E+01	C	8.12E+00 +	C	3.93E-01	C	NA	--
Naled	1.36E-02	NC	3.10E+03 *	NC	2.04E+03 *	NC	4.84E+07 *	NC	1.23E+03	NC	5.81E+04 *	NC	1.27E+03 +	NC	6.28E+04 #	NC	5.19E+01	NC
o,o,o-Triethylphosphorothioate	5.66E-05	NC	NA	--	8.48E+00	NC	6.10E+01	NC	7.45E+00	NC	4.27E+00	NC	2.88E+01	NC	1.42E+00	NC	1.21E-02	NC
Oxamyl	1.70E-01	NC	3.87E+04	NC	2.56E+04	NC	6.05E+08 *	NC	1.54E+04	NC	2.06E+05 *	NC	1.07E+01 +	NC	1.11E+06 #	NC	1.43E+04	NC
Paraquat	3.07E-02	NC	6.97E+03	NC	4.60E+03	NC	1.09E+08 *	NC	2.77E+03	NC	2.92E+07	NC	1.29E+01 +	NC	3.18E+05	NC	5.01E+05	NC
ethyl-Parathion	4.09E-02	NC	9.29E+03 *	NC	6.13E+03 *	NC	1.45E+08 *	NC	3.69E+03 *	NC	7.92E+06 *	NC	5.56E+03 +	NC	2.38E+05 #	NC	2.69E+00	NC
methyl-Parathion	1.70E-03	NC	3.87E+02	NC	2.56E+02	NC	6.05E+06 *	NC	1.54E+02	NC	2.26E+05 *	NC	3.01E+01 +	NC	7.45E+03 #	NC	4.80E-01	NC
Pendimethalin	2.73E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	9.68E+08 *	NC	2.46E+04 *	NC	1.61E+09 *	NC	4.93E+04 +	NC	1.42E+06 #	NC	1.72E+00 #	NC
Phenylmercuric acetate	5.45E-04	NC	1.24E+02	NC	8.18E+01	NC	1.94E+06 *	NC	4.93E+01	NC	1.36E+03	NC	5.82E-02 +	NC	2.54E+03	NC	4.44E+00	NC
Phorate	1.36E-03	NC	3.10E+02 *	NC	2.04E+02	NC	4.84E+06 *	NC	1.23E+02	NC	6.07E+03 *	NC	3.49E+02 +	NC	1.50E+03 #	NC	1.46E-01	NC
Picloram	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	5.14E+05 *	NC	3.98E+04 *	NC	3.62E+01	NC	2.33E+05 +	NC	1.54E+00	NC	8.56E+01	NC
Prometon	1.02E-01	NC	2.32E+04 *	NC	1.53E+04 *	NC	3.63E+08 *	NC	9.23E+03 *	NC	2.21E+06 *	NC	5.46E+01 +	NC	6.82E+05 #	NC	1.81E+01	NC
Pronamide	5.11E-01	NC	1.16E+05 *	NC	7.67E+04 *	NC	1.81E+09 *	NC	4.62E+04 *	NC	1.51E+06 *	NC	8.85E+04 +	NC	1.15E+06 #	NC	3.88E+01 #	NC
Propachlor	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	6.52E+05 *	NC	1.69E+03	NC	3.84E+05 #	NC	NA	--
Propanil	3.41E-02	NC	7.74E+03 *	NC	5.11E+03 *	NC	1.21E+08 *	NC	3.08E+03 *	NC	1.05E+06 *	NC	3.47E+01 +	NC	1.91E+05 #	NC	4.99E+00	NC
Propazine	4.24E-03	C	9.64E+02 *	C	6.36E+02 *	C	1.51E+07 *	C	3.83E+02 *	C	2.90E+04 *	C	5.12E+00 +	C	2.75E+04 #	C	4.40E-01	C
Propham	1.36E-01	NC	3.10E+04 *	NC	2.04E+04 *	NC	1.47E+05 *	NC	1.14E+04 *	NC	5.23E+05 *	NC	1.22E+03 +	NC	7.86E+05 #	NC	2.46E+01	NC
Silvex (2,4,5-TP)	5.45E-02	NC	1.24E+04 *	NC	8.18E+03 *	NC	1.94E+08 *	NC	4.93E+03 *	NC	1.63E+05 *	NC	1.27E+02 +	NC	3.47E+05 #	NC	3.89E+00	NC
Simazine	1.59E-03	C	3.61E+02 *	C	2.38E+02 *	C	5.65E+06 *	C	1.44E+02 *	C	8.80E+03 *	C	1.26E+00 +	C	9.22E+03 #	C	3.45E-01	C
Strychnine	2.04E-03	NC	4.65E+02 *	NC	3.07E+02 *	NC	7.26E+06 *	NC	1.85E+02 *	NC	4.13E+05 *	NC	2.07E-03 +	NC	6.69E+05 #	NC	3.75E+00	NC
Tebuthiuron	4.77E-01	NC	1.08E+05 *	NC	7.15E+04 *	NC	1.69E+09 *	NC	4.31E+04 *	NC	4.11E+06 *	NC	6.25E-01 +	NC	1.26E+07 #	NC	4.52E+02	NC
Terbacil	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	3.15E+08 *	NC	8.00E+03 *	NC	1.95E+05 *	NC	2.49E+00	NC	5.13E+05 #	NC	NA	--
Terbufos	1.70E-04	NC	3.87E+01 *	NC	2.56E+01 *	NC	1.84E+02 *	NC	1.42E+01	NC	4.20E+02 *	NC	1.01E+02	NC	1.04E+02 #	NC	6.40E-03	NC
Terbutryn	6.82E-03	NC	1.55E+03 *	NC	1.02E+03 *	NC	2.42E+07 *	NC	6.16E+02 *	NC	4.03E+05 *	NC	5.29E+01 +	NC	4.13E+04 #	NC	3.62E-01	NC
Toxaphene	1.70E-04	C	3.94E+01	C	2.60E+01	C	6.05E+05 *	C	1.57E+01	C	1.17E+06 *	C	1.86E+02 +	C	7.67E+02 #	C	6.28E-03	C
Triallate	8.86E-02	NC	2.01E+04 *	NC	1.33E+04 *	NC	1.31E+05 *	NC	7.54E+03 *	NC	8.13E+05 *	NC	4.74E+04 +	NC	6.07E+04 #	NC	2.12E+00	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	6.82E-02	NC	1.55E+04 *	NC	1.02E+04 *	NC	2.42E+08 *	NC	6.16E+03 *	NC	1.42E+05 *	NC	1.12E+02 +	NC	3.13E+05 #	NC	8.18E+00	NC
Trifluralin	2.48E-02	C	5.63E+03 *	C	3.72E+03 *	C	1.29E+05 *	C	2.20E+03 *	C	2.82E+06 *	C	3.68E+04 +	C	3.45E+04 #	C	2.47E-01	C
Warfarin	1.95E-04	NC	4.65E+02 *	NC	3.07E+02 *	NC	6.91E+05 *	NC	1.85E+02 *	NC	9.12E+03 *	NC	1.83E-01 +	NC	1.64E+03 #	NC	3.93E-01	NC
Metals																		
Aluminum	9.74E-03	NC	1.55E+07	NC	1.02E+06	NC	3.46E+07	NC	9.33E+05	NC	NA	--	NA	NC	NA	--	3.10E+04	NC
Antimony	9.74E-05	NC	6.19E+03	NC	4.09E+02	NC	3.46E+05	NC	3.83E+02	NC	NA	--	NA	NC	NA	--	1.24E+01	NC
Arsenic	1.27E-05	C	9.64E+01	C	1.91E+01	C	4.52E+04	C	1.59E+01	C	NA	--	NA	C	NA	--	5.78E-01	C
Barium	9.54E-04	NC	3.10E+06	NC	2.04E+05	NC	3.39E+06	NC	1.81E+05	NC	NA	--	NA	NC	NA	--	6.19E+03	NC
Beryllium	2.27E-05	C	5.16E+01	C	3.41E+00	C	8.06E+04	C	3.19E+00	C	NA	--	NA	C	NA	--	1.03E-01	C
Cadmium	3.03E-05	C	1.14E+04	C	7.53E+01	C	1.08E+05	C	7.48E+01	C	NA	--	NA	C	NA	--	2.28E+00	C
Chromium (III) total chromium	1.98E-04	NC	2.32E+07	NC	1.53E+06	NC	7.02E+05	NC	4.72E+05	NC	NA	--	NA	NC	NA	--	4.65E+04	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-7
Tier 1 Risk-Based Target Levels
Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL		SOILVAPOR		GROUNDWATER			
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Indoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]		[mg/m^3-air]		[mg/L]			
Chromium (VI)	4.54E-06	C	1.03E+01	C	6.81E-01	C	1.61E+04	C	6.39E-01	C	NA	--	NA	C	NA	--	1.03E-02	C
Copper	1.95E-03	NC	6.19E+05	NC	4.09E+04	NC	6.91E+06	NC	3.81E+04	NC	NA	--	NA	NC	NA	--	1.24E+03	NC
Lead	NA	--	NA	--	NA	--	NA	--	6.60E+02	--	6.60E+02	--	NA	--	NA	--	NA	--
Manganese	9.75E-05	NC	2.17E+06	NC	1.43E+05	NC	3.46E+05	NC	9.67E+04	NC	NA	--	NA	NC	NA	--	4.34E+03	NC
Mercury	5.84E-04	NC	NA	--	NA	--	6.30E+02 *	NC	6.30E+02 *	NC	5.72E+01 *	NC	5.12E+02 +	NC	1.16E+00 #	NC	NA	--
Molybdenum	9.74E-03	NC	7.74E+04	NC	5.11E+03	NC	3.46E+07	NC	4.79E+03	NC	NA	--	NA	NC	NA	--	1.55E+02	NC
Nickel	1.75E-04	NC	3.10E+05	NC	2.04E+04	NC	6.22E+05	NC	1.86E+04	NC	NA	--	NA	NC	NA	--	3.10E+03	NC
Selenium	3.89E-04	NC	7.74E+04	NC	5.11E+03	NC	1.38E+06	NC	4.78E+03	NC	NA	--	NA	NC	NA	--	1.55E+02	NC
Silver	1.95E-05	NC	7.74E+04	NC	5.11E+03	NC	6.91E+04	NC	4.48E+03	NC	NA	--	NA	NC	NA	--	2.58E+02	NC
Strontium	NA	--	9.29E+06	NC	6.13E+05	NC	NA	--	5.75E+05	NC	NA	--	NA	--	NA	--	1.86E+04	NC
Thallium chloride	1.95E-04	NC	1.24E+03	NC	8.18E+01	NC	6.91E+05 *	NC	7.67E+01	NC	NA	--	NA	NC	NA	--	2.48E+00	NC
Vanadium	9.74E-05	NC	1.08E+05	NC	7.15E+03	NC	3.46E+05	NC	6.58E+03	NC	NA	--	NA	NC	NA	--	2.17E+02	NC
Zinc	NA	--	4.65E+06	NC	3.07E+05	NC	NA	--	2.88E+05	NC	NA	--	NA	--	NA	--	1.55E+04	NC
Inorganics																		
Ammonia	1.95E-01	NC	NA	--	NA	--	2.10E+05 *	NC	2.10E+05 *	NC	2.36E+02	NC	2.00E+04	NC	1.49E+03	NC	NA	--
Cyanide	9.74E-03	NC	3.10E+04	NC	2.04E+04	NC	3.46E+07 *	NC	1.23E+04	NC	NA	--	NA	NC	NA	--	6.19E+02	NC
Cyanide (as Sodium Cyanide)	NA	--	6.19E+04	NC	4.09E+04	NC	NA	--	2.46E+04	NC	NA	--	NA	--	NA	--	1.24E+03	NC
Cyanogen bromide	6.13E-01	NC	1.39E+05 *	NC	9.20E+04 *	NC	6.61E+05 *	NC	5.11E+04 *	NC	2.75E+02	NC	1.72E+05	NC	8.89E+02	NC	2.79E+03	NC
Fluoride (as Sodium Fluoride)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Perchlorate	NA	--	1.08E+03	NC	7.15E+02	NC	NA	--	4.31E+02	NC	NA	--	NA	--	NA	--	2.17E+01	NC
White phosphorus	1.95E-04	NC	3.10E+01 *	NC	2.04E+01	NC	2.10E+02 *	NC	1.16E+01	NC	3.45E+00	NC	2.83E+01	NC	5.20E-01	NC	6.19E-01	NC
Total Petroleum Hydrocarbons																		
TPH-GRO																		
Aliphatics - > C6-C8	3.61E+01	NC	NA	--	5.11E+06 *	NC	3.89E+07 *	NC	4.52E+06 *	NC	6.16E+03 *	NC	9.72E+06 +	NC	2.13E+02 #	NC	NA	--
Aliphatics - > C8-C10	1.98E+00	NC	NA	--	1.02E+05 *	NC	2.13E+06 *	NC	9.75E+04 *	NC	1.34E+03 *	NC	5.32E+05 +	NC	7.28E+00 #	NC	NA	--
Aromatics - >C8-C10	3.89E-01	NC	NA	--	4.09E+04 *	NC	4.19E+05 *	NC	3.72E+04 *	NC	2.11E+03 *	NC	1.05E+05 +	NC	2.34E+02 #	NC	NA	--
TPH-DRO																		
Aliphatics - >C10-C12	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	6.76E+03 *	NC	5.32E+05 +	NC	4.85E+00 #	NC	NA	--
Aliphatics - >C12-C16	1.98E+00	NC	1.55E+05 *	NC	1.02E+05 *	NC	2.13E+06 *	NC	5.98E+04 *	NC	3.08E+04 *	NC	5.32E+05 +	NC	1.12E+00 #	NC	NA	--
Aliphatics - >C16-C21	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C10-C12	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	1.14E+04 *	NC	1.04E+05 +	NC	7.86E+02 #	NC	NA	--
Aromatics - >C12-C16	3.89E-01	NC	6.19E+04 *	NC	4.09E+04 *	NC	4.19E+05 *	NC	2.33E+04 *	NC	5.95E+04 *	NC	1.04E+05 +	NC	2.04E+03 #	NC	NA	--
Aromatics - >C16-C21	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--
TPH-ORO																		
Aliphatics - >C21-C35	NA	--	3.10E+06 *	NC	2.04E+06 *	NC	NA	--	1.23E+06 *	NC	NA	--	NA	--	NA	--	NA	--
Aromatics - >C21-C35	NA	--	3.57E+04 *	NC	3.07E+04 *	NC	NA	--	1.65E+04 *	NC	NA	--	NA	--	NA	--	NA	--

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
VOCs and SVOCs														
Acenaphthene	1.05E+00	NC	1.32E+05 *	NC	1.70E+05 *	NC	3.93E+04 *	NC	2.57E+04 *	NC	7.91E+05 #	NC	2.08E+01 #	NC
Acenaphthylene	1.05E+00	NC	NA	--	1.70E+05 *	NC	4.40E+04 *	NC	3.50E+04 *	NC	9.76E+05 #	NC	2.47E+01 #	NC
Acetone	1.58E+01	NC	NA	--	2.56E+06 *	NC	2.27E+05 *	NC	2.08E+05 *	NC	1.39E+07 #	NC	1.02E+05	NC
Acetonitrile	3.00E-01	NC	NA	--	4.83E+04	NC	4.32E+03	NC	3.96E+03	NC	2.68E+05	NC	1.94E+03	NC
Acrylamide	2.70E-03	C	4.46E+02	C	4.42E+02	C	3.76E+02	C	1.40E+02	C	2.46E+06 #	C	3.97E+01	C
Acrylic acid	5.01E-03	NC	1.43E+06 *	NC	1.42E+06 *	NC	1.53E+02	NC	1.53E+02	NC	1.30E+06 #	NC	2.29E+04	NC
Acrylonitrile	1.00E-02	NC	NA	--	2.84E+03	NC	1.44E+02	NC	1.37E+02	NC	3.57E+03	NC	5.05E+01	NC
Allyl alcohol	8.76E-02	NC	1.43E+04	NC	1.42E+04	NC	1.26E+03	NC	1.07E+03	NC	5.61E+05 #	NC	3.07E+02	NC
Allyl chloride	5.01E-03	NC	8.32E+02	NC	8.23E+02	NC	1.56E+02	NC	1.13E+02	NC	2.31E+05	NC	2.95E+00	NC
Aniline	5.01E-03	NC	2.01E+04 *	NC	1.99E+04 *	NC	7.56E+01	NC	7.50E+01	NC	1.77E+05 #	NC	1.86E+02	NC
Anthracene	5.26E+00	NC	6.62E+05 *	NC	8.52E+05 *	NC	2.12E+05 *	NC	1.35E+05 *	NC	1.82E+06 #	NC	4.89E+01 #	NC
Aroclor 1016	1.23E-03	NC	1.43E+02	NC	1.99E+02	NC	2.50E+02	NC	6.25E+01	NC	1.08E+03 #	NC	4.99E-03	NC
Aroclor 1221	3.50E-04	NC	4.10E+01 *	NC	5.68E+01 *	NC	5.04E+00	NC	4.16E+00	NC	7.11E+01 #	NC	3.68E-03	NC
Aroclor 1242	3.50E-04	NC	4.10E+01 *	NC	5.68E+01 *	NC	1.02E+01	NC	7.15E+00	NC	2.15E+02 #	NC	1.56E-03	NC
Aroclor 1248	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	3.19E+01	NC	1.36E+01	NC	1.07E+02 #	NC	8.46E-04	NC
Aroclor 1254	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	5.18E+01	NC	1.63E+01	NC	1.37E+02 #	NC	7.31E-04	NC
Aroclor 1260	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	1.42E+02	NC	2.04E+01	NC	9.99E+01 #	NC	8.07E-04	NC
Azobenzene	1.13E-01	C	NA	--	1.81E+04 *	C	1.95E+04 *	C	9.39E+03 *	C	2.05E+05 #	C	9.67E-01	C
Benzene	1.51E-01	NC	NA	--	1.14E+04 *	NC	2.17E+03 *	NC	1.82E+03 *	NC	1.16E+04 #	NC	1.48E+01	NC
Benzidine	5.23E-05	C	8.73E+00	C	8.64E+00	C	3.68E+02	C	4.29E+00	C	4.18E+04 #	C	8.03E-02	C
Benzo(a)anthracene	3.15E-02	C	2.12E+03 *	C	2.72E+03 *	C	3.72E+07 *	C	1.19E+03 *	C	6.56E+05 #	C	4.42E-02 #	C
Benzo(a)pyrene	3.15E-03	C	2.12E+02 *	C	2.72E+02 *	C	3.72E+06 *	C	1.19E+02 *	C	2.20E+05 #	C	2.59E-03 #	C
Benzo(b)fluoranthene	3.15E-02	C	2.12E+03 *	C	2.72E+03 *	C	2.50E+04 *	C	1.14E+03 *	C	5.39E+04 #	C	2.55E-02 #	C
Benzo(g,h,i)perylene	5.26E-01	NC	6.62E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	3.72E+04 *	NC	7.89E+07 #	NC	5.83E-01 #	NC
Benzo(k)fluoranthene	3.15E-02	C	2.12E+04 *	C	2.72E+04 *	C	3.72E+07 *	C	1.19E+04 *	C	5.53E+06 #	C	2.64E-01 #	C
Benzoic acid	7.01E+01	NC	1.15E+07 *	NC	1.14E+07 *	NC	1.01E+06 *	NC	8.57E+05 *	NC	2.97E+09 #	NC	3.04E+04 #	NC
Benzyl alcohol	5.26E+00	NC	8.60E+05 *	NC	8.52E+05 *	NC	1.48E+05 *	NC	1.10E+05 *	NC	5.55E+08 #	NC	7.06E+03	NC
1,1-Biphenyl	8.76E-01	NC	NA	--	1.42E+05 *	NC	1.26E+04 *	NC	1.16E+04 *	NC	3.53E+05 #	NC	2.74E+01 #	NC
Bis(2-chloroethyl)ether	1.06E-02	C	NA	--	1.81E+03	C	1.53E+02	C	1.41E+02	C	3.28E+04 #	C	1.34E+01	C
Bis(2-chloroisopropyl)ether	3.50E-01	C	NA	--	2.84E+04 *	C	5.04E+03 *	C	4.28E+03 *	C	2.63E+05 #	C	3.69E+01	C
Bis(chloromethyl)ether	5.65E-05	C	NA	--	9.03E+00	C	8.13E-01	C	7.46E-01	C	2.03E+01	C	1.69E-01	C
Bis(2-ethylhexyl)phthalate	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04	NC	2.69E+08 #	NC	7.63E+00 #	NC
Bromochloromethane	2.50E-01	NC	NA	--	1.14E+05 *	NC	3.60E+03	NC	3.49E+03	NC	4.00E+04 #	NC	7.51E+02	NC
Bromodichloromethane	9.47E-02	C	NA	--	3.21E+04 *	C	1.36E+03	C	1.31E+03	C	1.99E+04 #	C	8.13E+01	C
Bromoform	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	5.04E+03 *	NC	4.28E+03 *	NC	2.11E+05 #	NC	1.69E+02	NC
Bromomethane	2.50E-02	NC	NA	--	3.97E+03 *	NC	3.60E+02	NC	3.30E+02	NC	1.83E+03	NC	2.50E+01	NC
4-Bromophenyl phenyl ether	1.06E-03	C	1.34E+02	C	1.32E+02	C	6.66E+01	C	3.33E+01	C	9.50E+02 #	C	5.36E-03	C
n-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	3.50E+04 #	NC	8.26E+00	NC
sec-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	2.62E+04 #	NC	1.12E+01	NC
tert-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	3.72E+04 #	NC	9.76E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER				
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
Butyl benzyl phthalate	3.50E+00	NC	5.74E+05 *	NC	5.68E+05 *	NC	4.15E+09 *	NC	2.85E+05 *	NC	5.38E+08 #	NC	6.44E+01 #	NC
Carbazole	6.13E-01	C	1.00E+05 *	C	9.94E+04 *	C	7.81E+05 *	C	4.69E+04 *	C	8.14E+08 #	C	4.65E+01 #	C
Carbon disulfide	3.50E+00	NC	NA	--	2.84E+05 *	NC	5.04E+04 *	NC	4.28E+04 *	NC	6.28E+04 #	NC	3.21E+02	NC
Carbon tetrachloride	2.00E-01	NC	NA	--	1.99E+03 *	NC	2.88E+03 *	NC	1.18E+03 *	NC	4.69E+03 #	NC	1.55E+00	NC
p-Chloroaniline	7.01E-02	NC	1.15E+04 *	NC	1.14E+04 *	NC	4.99E+03 *	NC	2.66E+03 *	NC	1.32E+07 #	NC	4.04E+01	NC
Chlorobenzene	2.98E-01	NC	NA	--	5.68E+04 *	NC	4.28E+03 *	NC	3.98E+03 *	NC	3.38E+04 #	NC	3.29E+01	NC
Chloroethane	4.23E+00	C	NA	--	6.85E+05 *	C	6.08E+04 *	C	5.59E+04 *	C	1.76E+05 #	C	2.30E+03	C
Chloroform	1.52E-01	C	NA	--	2.84E+04 *	NC	2.19E+03	C	2.12E+03	C	1.34E+04 #	C	6.49E+01	NC
Chloromethane	4.51E-01	NC	NA	--	7.30E+04 *	NC	6.48E+03 *	NC	5.95E+03 *	NC	9.89E+03 #	NC	4.78E+02	NC
2-Chloronaphthalene	1.40E+00	NC	NA	--	2.27E+05 *	NC	2.26E+04 *	NC	2.06E+04 *	NC	8.83E+05 #	NC	4.18E+01 #	NC
2-Chlorophenol	8.76E-02	NC	NA	--	1.42E+04	NC	1.26E+03	NC	1.16E+03	NC	3.02E+04 #	NC	2.60E+01	NC
4-Chlorophenyl phenyl ether	1.06E-03	C	1.34E+02 *	C	1.32E+02 *	C	3.50E+01	C	2.29E+01	C	5.04E+02 #	C	5.25E-03	C
2-Chlorotoluene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	4.49E+04 #	NC	2.12E+01	NC
4-Chlorotoluene	1.30E-03	NC	NA	--	5.68E+04 *	NC	1.87E+01	NC	1.87E+01	NC	1.71E+02 #	NC	1.80E+01	NC
Chrysene	3.15E-01	C	2.12E+05 *	C	2.72E+05 *	C	1.47E+05 *	C	6.57E+04 *	C	5.60E+05 #	C	4.42E+00 #	C
Dibenzo(a,h)anthracene	2.99E-03	C	2.12E+02 *	C	2.72E+02 *	C	3.54E+06 *	C	1.19E+02 *	C	5.80E+06 #	C	1.67E-03	C
Dibenzofuran	3.50E-02	NC	NA	--	5.68E+03 *	NC	9.79E+02 *	NC	8.35E+02 *	NC	1.52E+04 #	NC	8.42E-01	NC
Dibromochloromethane	1.30E-01	C	2.39E+04 *	C	2.37E+04 *	C	1.87E+03 *	C	1.61E+03 *	C	4.94E+04 #	C	6.47E+01	C
1,2-Dibromo-3-chloropropane	1.00E-03	NC	1.63E+02	NC	1.62E+02	NC	1.24E+02	NC	4.91E+01	NC	1.15E+06 #	NC	2.84E-01	NC
Dibutyl phthalate	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.07E+09 *	NC	1.43E+05 *	NC	2.62E+09 #	NC	7.33E+01 #	NC
1,2-Dichlorobenzene	9.99E-01	NC	NA	--	2.56E+05 *	NC	1.44E+04 *	NC	1.36E+04 *	NC	1.67E+05 #	NC	8.10E+01	NC
1,3-Dichlorobenzene	5.26E-01	NC	NA	--	8.52E+04 *	NC	7.56E+03 *	NC	6.94E+03 *	NC	8.80E+04 #	NC	1.91E+01	NC
1,4-Dichlorobenzene	5.58E-01	C	NA	--	3.68E+05 *	C	8.02E+03 *	C	7.85E+03 *	C	8.38E+04 #	C	1.14E+02 #	C
3,3-Dichlorobenzidine	1.02E-02	C	4.46E+03 *	C	4.42E+03 *	C	1.21E+07 *	C	2.22E+03 *	C	1.75E+07 #	C	2.23E+00	C
Dichlorodifluoromethane	9.99E-01	NC	NA	--	5.68E+05 *	NC	1.44E+04 *	NC	1.40E+04 *	NC	7.47E+03 #	NC	9.71E+02 #	NC
1,1-Dichloroethane	2.45E-01	NC	NA	--	2.84E+05 *	NC	3.53E+03 *	NC	3.48E+03 *	NC	1.98E+04 #	NC	7.30E+02	NC
1,1-Dichloroethylene	1.00E+00	NC	NA	--	1.42E+05 *	NC	1.44E+04 *	NC	1.31E+04 *	NC	2.32E+04 #	NC	2.07E+02	NC
cis-1,2-Dichloroethylene	1.75E-01	NC	NA	--	2.84E+04 *	NC	2.52E+03 *	NC	2.31E+03 *	NC	1.66E+04 #	NC	6.50E+01	NC
trans-1,2-Dichloroethylene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	2.07E+04 #	NC	9.45E+01	NC
2,4-Dichlorophenol	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	2.22E+03	NC	1.46E+03	NC	1.69E+06 #	NC	4.76E+00	NC
1,2-Dichloropropane	2.00E-02	NC	NA	--	3.12E+03 *	NC	2.88E+02	NC	2.64E+02	NC	2.52E+03	NC	6.48E+00	NC
1,3-Dichloropropene	1.00E-01	NC	NA	--	1.99E+04 *	C	1.44E+03 *	NC	1.42E+03 *	NC	4.33E+03 #	NC	7.58E+01	C
Di(2-ethylhexyl)adipate	1.02E+01	C	1.67E+06 *	C	1.66E+06 *	C	2.45E+05 *	C	1.89E+05 *	C	6.55E+05 #	C	1.70E+02 #	C
Diethyl phthalate	1.40E+01	NC	2.29E+06 *	NC	2.27E+06 *	NC	1.66E+10 *	NC	1.14E+06 *	NC	3.74E+09 #	NC	4.66E+03 #	NC
Diisopropyl ether (DIPE)	1.93E+00	NC	NA	--	2.84E+05 *	NC	2.77E+04 *	NC	2.52E+04 *	NC	2.39E+05 #	NC	5.36E+02	NC
2,4-Dimethylphenol	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	1.70E+04 *	NC	1.06E+04 *	NC	1.06E+07 #	NC	7.88E+01	NC
2,6-Dimethylphenol	1.05E-02	NC	1.72E+03	NC	1.70E+03	NC	7.65E+02	NC	4.04E+02	NC	9.82E+04 #	NC	NA	--
Dimethyl phthalate	1.75E+02	NC	2.87E+07 *	NC	2.84E+07 *	NC	1.57E+07 *	NC	7.47E+06 *	NC	8.00E+10 #	NC	1.95E+05 #	NC
1,3-Dinitrobenzene	1.75E-03	NC	2.87E+02 *	NC	2.84E+02 *	NC	6.51E+01 *	NC	4.47E+01 *	NC	5.90E+04 #	NC	1.53E+00	NC
2,4-Dinitrophenol	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	9.75E+02 *	NC	7.27E+02 *	NC	8.48E+06 #	NC	3.87E+01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact		C/NC	Ingestion		C/NC	Inhalation		C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact		C/NC	Outdoor Inhalation of Vapor Emissions		C/NC	Dermal Contact		C/NC
	[mg/m^3-air]		[mg/kg]												[mg/L]					
2,4-Dinitrotoluene	3.50E-02	NC	5.74E+03	*	NC	5.68E+03	*	NC	2.81E+03	*	NC	1.42E+03	*	NC	6.01E+06	#	NC	1.90E+01		NC
2,6-Dinitrotoluene	1.75E-02	NC	2.87E+03	*	NC	2.84E+03	*	NC	1.08E+03	*	NC	6.14E+02	*	NC	2.36E+06	#	NC	1.40E+01		NC
4-Amino-2,6-dinitrotoluene	5.01E-04	NC	4.87E+02	*	NC	4.83E+02	*	NC	2.23E+02	*	NC	1.16E+02	*	NC	7.40E+05	#	NC	7.06E-01		NC
2-Amino-4,6-dinitrotoluene	5.01E-04	NC	4.87E+02	*	NC	4.83E+02	*	NC	2.81E+02	*	NC	1.30E+02	*	NC	7.64E+05	#	NC	5.37E-01		NC
Di-n-octylphthalate	7.01E-01	NC	1.15E+05	*	NC	1.14E+05	*	NC	3.87E+04	*	NC	2.31E+04	*	NC	2.80E+06	#	NC	6.72E+00	#	NC
1,4-Dioxane	4.55E-01	C	1.82E+05	*	C	1.81E+05	*	C	6.54E+03		C	6.10E+03		C	1.55E+06	#	C	9.97E+03		C
Diphenylamine	5.01E-02	NC	7.17E+04	*	NC	7.10E+04	*	NC	3.07E+03	*	NC	2.83E+03	*	NC	8.75E+05	#	NC	3.09E+01		NC
1,2-Diphenylhydrazine	1.59E-02	C	2.51E+03		C	2.48E+03		C	1.07E+04	*	C	1.12E+03		C	3.00E+07	#	C	1.95E+00		C
Ethanol	9.46E+00	NC	NA		--	9.37E+07	*	NC	1.36E+05	*	NC	1.36E+05	*	NC	4.46E+07	#	NC	3.81E+06	#	NC
Ethylbenzene	5.08E+00	NC	NA		--	2.84E+05	*	NC	7.31E+04	*	NC	5.81E+04	*	NC	3.73E+05	#	NC	9.76E+01		NC
Ethylene dibromide (EDB)	5.84E-03	C	NA		--	9.94E+02		C	8.40E+01		C	7.74E+01		C	1.83E+03		C	3.58E+00		C
Ethylene dichloride (EDC)	2.45E-02	NC	NA		--	2.18E+04	*	C	3.53E+02		NC	3.51E+02		NC	3.98E+03		NC	8.95E+01		C
Ethylene glycol	2.00E+00	NC	5.74E+06	*	NC	5.68E+06	*	NC	8.09E+04	*	NC	7.87E+04	*	NC	7.06E+08	#	NC	1.02E+06	#	NC
Ethylene thiourea	1.40E-03	NC	2.29E+02		NC	2.27E+02		NC	1.25E+02		NC	5.96E+01		NC	1.63E+06	#	NC	2.33E+01		NC
Ethyl-tert-butyl-ether (ETBE)	1.51E+00	NC	NA		--	2.84E+03	*	NC	2.17E+04	*	NC	2.51E+03	*	NC	2.35E+05	#	NC	7.70E+00		NC
Fluoranthene	7.01E-01	NC	8.82E+04	*	NC	1.14E+05	*	NC	3.72E+05	*	NC	4.38E+04	*	NC	5.32E+06	#	NC	4.62E+00	#	NC
Fluorene	7.01E-01	NC	8.82E+04	*	NC	1.14E+05	*	NC	6.14E+04	*	NC	2.75E+04	*	NC	1.23E+06	#	NC	9.66E+00	#	NC
Formaldehyde	1.50E-02	NC	4.42E+04	*	C	4.37E+04	*	C	2.20E+02		NC	2.19E+02		NC	8.08E+05	#	NC	5.61E+02		C
n-Hexane	3.50E+00	NC	NA		--	3.12E+07	*	NC	5.04E+04	*	NC	5.03E+04	*	NC	6.09E+02	#	NC	7.68E+03	#	NC
Hexachlorobenzene	7.64E-03	C	1.25E+03		C	1.24E+03		C	2.40E+02		C	1.74E+02		C	1.95E+03	#	C	5.67E-02		C
Hexachlorobutadiene	5.26E-03	NC	8.60E+02		NC	8.52E+02		NC	7.56E+01		NC	6.42E+01		NC	4.95E+02	#	NC	7.28E-02		NC
Hexachlorocyclopentadiene	1.00E-03	NC	1.72E+04	*	NC	1.70E+04	*	NC	2.43E+01		NC	2.43E+01		NC	9.27E+01	#	NC	1.97E+00	#	NC
Hexachloroethane	1.75E-02	NC	2.87E+03	*	NC	2.84E+03	*	NC	2.70E+02		NC	2.27E+02		NC	1.04E+04	#	NC	6.89E-01		NC
Hexachlorophene	5.26E-03	NC	8.60E+02		NC	8.52E+02		NC	6.22E+06	*	NC	4.28E+02		NC	8.10E+06	#	NC	1.35E-02		NC
HMX	1.35E-02	NC	1.43E+05	*	NC	1.42E+05	*	NC	1.60E+07	*	NC	7.10E+04	*	NC	2.51E+07	#	NC	1.57E+05	#	NC
Indeno(1,2,3-cd)pyrene	3.15E-02	C	1.29E+03	*	C	1.66E+03	*	C	3.72E+07	*	C	7.24E+02	*	C	3.52E+06	#	C	1.56E-02	#	C
Isophorone	1.00E+01	NC	5.74E+05	*	NC	5.68E+05	*	NC	1.44E+05	*	NC	9.56E+04	*	NC	8.86E+07	#	NC	2.30E+03		NC
Isopropylbenzene (Cumene)	2.00E+00	NC	NA		--	2.84E+05	*	NC	2.88E+04	*	NC	2.61E+04	*	NC	1.85E+04	#	NC	6.95E+01	#	NC
4-Isopropyltoluene	5.26E+00	NC	NA		--	8.52E+05	*	NC	7.56E+04	*	NC	6.94E+04	*	NC	3.75E+05	#	NC	7.99E+01	#	NC
Maleic anhydride	3.50E-03	NC	2.87E+05	*	NC	2.84E+05	*	NC	5.04E+01		NC	5.04E+01		NC	3.38E+04	#	NC	9.42E+02		NC
Methanol	1.93E+01	NC	NA		--	1.42E+06	*	NC	2.77E+05	*	NC	2.32E+05	*	NC	1.02E+08	#	NC	1.02E+05		NC
Methyl butyl ketone	2.00E-02	NC	NA		--	1.70E+05	*	NC	2.88E+02		NC	2.87E+02		NC	1.66E+04		NC	7.06E+02		NC
Methyl ethyl ketone	2.50E+01	NC	NA		--	1.70E+06	*	NC	3.60E+05	*	NC	2.97E+05	*	NC	2.16E+07	#	NC	3.50E+04		NC
2-Methyl-4,6-dinitrophenol	1.50E-03	NC	2.87E+02	*	NC	2.84E+02	*	NC	1.06E+02		NC	6.08E+01		NC	2.33E+06	#	NC	8.56E-01		NC
Methylene chloride	2.00E+00	NC	NA		--	1.70E+05	*	NC	2.88E+04	*	NC	2.46E+04	*	NC	2.14E+05	#	NC	9.03E+02		NC
Methyl iodide	6.01E-02	NC	NA		--	3.97E+03		NC	8.64E+02		NC	7.10E+02		NC	4.07E+03		NC	2.14E+01		NC
Methyl isobutyl ketone	1.50E+01	NC	NA		--	2.27E+05	*	NC	2.16E+05	*	NC	1.11E+05	*	NC	8.18E+06	#	NC	1.44E+03		NC
2-Methylnaphthalene	7.01E-02	NC	NA		--	1.14E+04	*	NC	1.01E+03	*	NC	9.26E+02	*	NC	2.30E+04	#	NC	2.18E+00		NC
2-Methylphenol	8.76E-01	NC	1.43E+05	*	NC	1.42E+05	*	NC	3.29E+04	*	NC	2.25E+04	*	NC	3.45E+07	#	NC	3.08E+02		NC
3-Methylphenol	8.76E-01	NC	1.43E+05	*	NC	1.42E+05	*	NC	2.53E+04	*	NC	1.87E+04	*	NC	4.70E+07	#	NC	3.04E+02		NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
4-Methylphenol	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	2.72E+03	NC	1.97E+03	NC	4.09E+06 #	NC	3.08E+01	NC
Methyl teriary butyl ether (MTBE)	1.35E+01	C	NA	--	1.10E+06 *	C	1.94E+05 *	C	1.65E+05 *	C	2.95E+06 #	C	5.96E+03	C
Methyl-2,4,6-trinitrophenylnitramine	5.01E-04	NC	2.87E+04 *	NC	2.84E+04 *	NC	5.93E+05 *	NC	1.39E+04 *	NC	9.43E+05 #	NC	1.83E+02 #	NC
Naphthalene	1.51E-02	NC	1.29E+04 *	C	1.66E+04 *	C	2.17E+02	NC	2.15E+02	NC	4.82E+03 #	NC	5.21E+00	C
2-Nitroaniline	5.26E-04	NC	8.60E+03 *	NC	8.52E+03 *	NC	1.98E+01	NC	1.97E+01	NC	5.80E+04 #	NC	2.05E+01	NC
3-Nitroaniline	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	7.64E+02 *	NC	2.74E+02 *	NC	6.39E+06 #	NC	3.77E+00	NC
4-Nitroaniline	1.75E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	1.74E+03 *	NC	1.24E+03 *	NC	2.39E+07 #	NC	8.70E+01	NC
Nitrobenzene	9.99E-03	NC	NA	--	1.42E+03 *	NC	1.44E+02	NC	1.30E+02	NC	2.14E+04 #	NC	4.28E+00	NC
Nitroglycerin	1.23E-03	NC	2.01E+02	NC	1.99E+02	NC	1.45E+06 *	NC	9.99E+01	NC	6.48E+05 #	NC	9.04E-01	NC
2-Nitrophenol	2.00E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	6.23E+02	NC	5.12E+02	NC	1.82E+06 #	NC	1.94E+01	NC
4-Nitrophenol	5.01E-03	NC	5.74E+03 *	NC	5.68E+03 *	NC	3.84E+02 *	NC	3.39E+02 *	NC	6.78E+06 #	NC	1.62E+01	NC
n-Nitrosodimethylamine	1.40E-04	NC	2.29E+01	NC	2.27E+01	NC	2.02E+00	NC	1.71E+00	NC	2.06E+03	NC	1.77E+00	NC
n-Nitrosodi-n-propylamine	1.75E-03	C	2.87E+02	C	2.84E+02	C	3.00E+01	C	2.48E+01	C	4.99E+04 #	C	1.79E+00	C
n-Nitrosodiphenylamine	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	3.60E+04 *	NC	1.59E+04 *	NC	8.04E+06 #	NC	3.54E+01 #	NC
n-Nitrosopyrrolidine	5.75E-03	C	9.56E+02	C	9.46E+02	C	3.25E+02	C	1.93E+02	C	5.34E+06 #	C	2.62E+01	C
2-Nitrotoluene	5.33E-02	C	NA	--	8.64E+03 *	C	7.67E+02 *	C	7.04E+02 *	C	7.55E+04 #	C	1.24E+01	C
3-Nitrotoluene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	4.29E+05 #	NC	8.15E+01	NC
4-Nitrotoluene	1.75E-01	NC	NA	--	2.84E+04 *	NC	2.52E+03 *	NC	2.31E+03 *	NC	2.12E+05 #	NC	4.07E+01	NC
Pentachlorobenzene	1.40E-02	NC	2.29E+03 *	NC	2.27E+03 *	NC	4.61E+02 *	NC	3.28E+02 *	NC	4.02E+03 #	NC	9.29E-02	NC
Pentachloronitrobenzene	4.72E-02	C	7.72E+03 *	C	7.64E+03 *	C	7.73E+03 *	C	2.57E+03 *	C	1.45E+05 #	C	1.01E+00 #	C
Pentachlorophenol	5.26E-01	NC	6.69E+03	C	1.66E+04 *	C	6.22E+08 *	NC	4.77E+03	C	5.90E+08 #	NC	2.84E-01	C
Pentaerythritol tetranitrate	7.01E+00	NC	1.15E+06 *	NC	1.14E+06 *	NC	8.30E+09 *	NC	5.71E+05 *	NC	3.99E+08 #	NC	5.51E+02 #	NC
Phenanthrene	5.26E-01	NC	NA	--	8.52E+04 *	NC	3.38E+04 *	NC	2.42E+04 *	NC	5.40E+05 #	NC	6.47E+00 #	NC
Phenol	1.00E+00	NC	8.60E+05 *	NC	8.52E+05 *	NC	3.71E+04 *	NC	3.41E+04 *	NC	1.02E+08 #	NC	3.50E+03	NC
m-Phenylenediamine	1.05E-01	NC	1.72E+04 *	NC	1.70E+04 *	NC	6.93E+03	NC	3.83E+03	NC	1.27E+08 #	NC	1.32E+03	NC
Polychlorinated biphenyls (PCBs)	3.50E-02	C	7.17E+02 *	C	9.94E+02 *	C	4.07E+03 *	C	3.78E+02 *	C	9.48E+03 #	C	1.61E-02	C
n-Propylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	4.17E+04 #	NC	1.82E+01	NC
Pyrene	5.26E-01	NC	6.62E+04 *	NC	8.52E+04 *	NC	3.52E+05 *	NC	3.37E+04 *	NC	6.36E+06 #	NC	2.52E+00 #	NC
RDX	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	6.76E+03 *	NC	2.62E+03 *	NC	3.35E+07 #	NC	1.50E+02	NC
Styrene	5.01E+00	NC	NA	--	5.68E+05 *	NC	7.20E+04 *	NC	6.39E+04 *	NC	6.96E+05 #	NC	2.57E+02	NC
1,1,1,2-Tetrachloroethane	4.74E-01	C	NA	--	7.64E+04 *	C	6.81E+03 *	C	6.25E+03 *	C	7.04E+04 #	C	5.63E+01	C
1,1,2,2-Tetrachloroethane	6.04E-02	C	NA	--	9.94E+03 *	C	8.69E+02	C	7.99E+02	C	2.02E+04 #	C	1.64E+01	C
1,2,4,5-Tetrachlorobenzene	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	7.56E+01 *	NC	6.42E+01 *	NC	1.62E+03 #	NC	7.40E-02	NC
Tetrachloroethylene	5.84E-01	C	NA	--	3.68E+03 *	C	8.40E+03 *	C	2.56E+03 *	C	2.28E+04 #	C	1.28E+00	C
Tetrahydrofuran	1.51E+00	NC	NA	--	2.61E+05 *	C	2.17E+04	NC	2.09E+04	NC	9.97E+05	NC	3.20E+03	C
Tertiary-amyl-methyl-ether (TAME)	4.03E-01	NC	NA	--	1.14E+05 *	NC	5.79E+03 *	NC	5.51E+03 *	NC	5.49E+04 #	NC	2.86E+02	NC
Tertiary-butyl-alcohol (TBA)	1.51E+00	NC	NA	--	2.56E+05 *	NC	2.17E+04 *	NC	2.00E+04 *	NC	5.04E+06 #	NC	2.35E+03	NC
Toluene	2.45E+01	NC	NA	--	2.27E+05 *	NC	3.53E+05 *	NC	1.38E+05 *	NC	1.77E+06 #	NC	1.32E+02	NC
1,2,4-Trichlorobenzene	1.75E-02	NC	NA	--	2.84E+04 *	NC	2.52E+02	NC	2.50E+02	NC	4.49E+03 #	NC	4.48E+00	NC
1,3,5-Trichlorobenzene	2.00E-01	NC	NA	--	8.52E+03 *	NC	2.88E+03 *	NC	2.15E+03 *	NC	3.35E+04 #	NC	1.04E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
1,1,1-Trichloroethane	1.10E+01	NC	NA	--	7.95E+05 *	NC	1.58E+05 *	NC	1.32E+05 *	NC	4.20E+05 #	NC	8.68E+02	NC
1,1,2-Trichloroethane	7.01E-02	NC	NA	--	1.14E+04 *	NC	1.01E+03	NC	9.26E+02	NC	1.40E+04 #	NC	2.52E+01	NC
Trichloroethylene	1.75E+00	C	NA	--	1.53E+05 *	C	2.52E+04 *	C	2.16E+04 *	C	9.79E+04 #	C	1.83E+02	C
Trichlorofluoromethane	3.50E+00	NC	NA	--	8.52E+05 *	NC	5.04E+04 *	NC	4.76E+04 *	NC	2.47E+04 #	NC	9.06E+02	NC
2,4,5-Trichlorophenol	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.23E+05 *	NC	8.70E+04 *	NC	4.94E+07 #	NC	1.17E+02	NC
2,4,6-Trichlorophenol	1.75E-03	NC	2.87E+02	NC	2.84E+02	NC	7.85E+01	NC	5.07E+01	NC	2.56E+04 #	NC	7.61E-02	NC
1,2,3-Trichloropropane	6.13E-03	C	NA	--	9.94E+02 *	C	8.82E+01	C	8.10E+01	C	2.05E+03 #	C	1.22E+00	C
1,1,2-Trichlorotrifluoroethane	1.51E+02	NC	NA	--	8.52E+07 *	NC	2.17E+06 *	NC	2.11E+06 *	NC	6.11E+05 #	NC	5.72E+04 #	NC
1,2,4-Trimethylbenzene	3.00E-02	NC	NA	--	1.42E+05 *	NC	4.32E+02	NC	4.31E+02	NC	2.69E+03 #	NC	2.56E+01	NC
1,3,5-Trimethylbenzene	3.00E-02	NC	NA	--	1.42E+05 *	NC	4.32E+02 *	NC	4.31E+02 *	NC	2.09E+03 #	NC	2.38E+01	NC
1,3,5-Trinitrobenzene	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	4.28E+04 *	NC	7.78E+08 #	NC	8.14E+02 #	NC
2,4,6-Trinitrotoluene (TNT)	8.76E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	1.04E+07 *	NC	7.13E+02 *	NC	1.18E+06 #	NC	6.46E+00	NC
Vinyl chloride (for residential scenario)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Vinyl chloride (for occupational scenatio)	3.98E-01	C	NA	--	1.42E+03 *	C	5.73E+03 *	C	1.14E+03 *	C	8.59E+03 #	C	5.23E+00	C
Xylenes (total)	5.08E-01	NC	NA	--	5.68E+05 *	NC	7.31E+03 *	NC	7.21E+03 *	NC	4.10E+04 #	NC	3.28E+02 #	NC
Pesticides														
Acetochlor	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04 *	NC	2.37E+08 #	NC	1.65E+02	NC
Acifluorfen	5.01E-02	NC	3.73E+04	NC	3.69E+04	NC	5.93E+07 *	NC	1.85E+04	NC	1.97E+08 #	NC	5.11E+03	NC
Acrolein	1.00E-04	NC	NA	--	1.42E+03	NC	1.44E+00	NC	1.44E+00	NC	4.03E+01	NC	4.60E+01	NC
Alachlor	1.53E-01	C	2.87E+04 *	NC	2.84E+04 *	NC	1.81E+08 *	C	1.43E+04 *	NC	2.88E+08 #	C	2.23E+01	NC
Aldicarb	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.12E+03 *	NC	8.53E+02	NC	2.86E+07 #	NC	2.67E+01	NC
Aldicarb sulfone	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.07E+07 *	NC	1.43E+03 *	NC	3.27E+07 #	NC	7.35E+02	NC
Aldrin	5.26E-04	NC	8.60E+01	NC	8.52E+01	NC	6.22E+02	NC	4.00E+01	NC	1.01E+03 #	NC	1.93E-01 #	NC
Ametryn	1.58E-01	NC	2.58E+04 *	NC	2.56E+04 *	NC	1.87E+08 *	NC	1.28E+04 *	NC	2.98E+08 #	NC	3.04E+01	NC
Atrazine	5.58E-02	C	8.73E+03 *	C	8.64E+03 *	C	6.60E+07 *	C	4.34E+03 *	C	1.04E+08 #	C	1.07E+01	C
Baygon	7.01E-02	NC	1.15E+04 *	NC	1.14E+04 *	NC	8.30E+07 *	NC	5.71E+03 *	NC	1.01E+07 #	NC	NA	--
Butylate	8.76E-01	NC	1.43E+05 *	NC	1.42E+05 *	NC	1.26E+04 *	NC	1.07E+04 *	NC	1.02E+06 #	NC	3.59E+01	NC
Captan	2.28E+00	NC	3.73E+05 *	NC	3.69E+05 *	NC	2.70E+09 *	NC	1.85E+05 *	NC	6.21E+07 #	NC	1.49E+03 #	NC
Carbaryl	1.93E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.77E+04 *	NC	2.32E+04 *	NC	6.60E+05 #	NC	6.36E+02 #	NC
Carbofuran	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	1.04E+08 *	NC	7.13E+03 *	NC	1.76E+08 #	NC	3.90E+01 #	NC
Carboxin	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.52E+04 *	NC	2.14E+04 *	NC	8.60E+03 #	NC	2.89E+02 #	NC
Chloramben	2.63E-01	NC	4.30E+04 *	NC	4.26E+04 *	NC	3.11E+08 *	NC	2.14E+04 *	NC	3.87E+07 #	NC	8.09E+01	NC
Chlordane (technical)	3.50E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	1.82E+03 *	NC	5.12E+02 *	NC	2.31E+04 #	NC	3.40E-02	NC
Chlordane, gamma	3.50E-03	NC	3.58E+03 *	NC	1.42E+03 *	NC	1.37E+03 *	NC	5.83E+02 *	NC	4.96E+03 #	NC	1.27E-01 #	NC
Chlorothalonil	2.63E-01	NC	1.08E+05 *	NC	4.26E+04 *	NC	3.11E+08 *	NC	3.05E+04 *	NC	9.48E+06 #	NC	1.50E+01 #	NC
Chlorpyrifos	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	6.22E+07 *	NC	4.28E+03 *	NC	1.33E+06 #	NC	1.63E+00 #	NC
Coumaphos	1.23E-01	NC	2.01E+04 *	NC	1.99E+04 *	NC	1.45E+08 *	NC	9.99E+03 *	NC	2.70E+08 #	NC	7.71E+00 #	NC
Cyanazine	1.46E-02	C	2.39E+03 *	C	2.37E+03 *	C	2.10E+02	C	1.78E+02	C	8.07E+01	C	1.80E+01	C
Dacthal	1.75E-01	NC	2.87E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.43E+04 *	NC	1.04E+03 #	NC	4.46E+00 #	NC
Dalapon, sodium salt	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	2.37E+04 *	NC	1.53E+04 *	NC	2.66E+08 #	NC	4.01E+02	NC
DDD	5.11E-02	C	8.36E+03 *	C	8.28E+03 *	C	6.05E+07 *	C	4.16E+03 *	C	2.67E+06 #	C	2.45E-01 #	C

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
DDE	3.61E-02	C	5.90E+03 *	C	5.84E+03 *	C	1.56E+05 *	C	2.88E+03	C	4.35E+05 #	C	1.97E-01 #	C
DDT	8.76E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	1.04E+07 *	NC	7.13E+02 *	NC	2.82E+05 #	NC	2.55E-02 #	NC
DEF	5.26E-04	NC	2.87E+02	NC	8.52E+01	NC	6.22E+05 *	NC	6.57E+01	NC	3.13E+05 #	NC	2.81E-03	NC
Demeton	7.01E-04	NC	1.15E+03	NC	1.14E+03	NC	1.01E+01	NC	9.90E+00	NC	5.39E+02	NC	1.45E+00	NC
Diazinon	1.58E-02	NC	2.58E+03 *	NC	2.56E+03 *	NC	1.87E+07 *	NC	1.28E+03 *	NC	1.61E+07 #	NC	1.19E+00	NC
Dicamba	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	4.28E+04 *	NC	8.83E+08 #	NC	2.98E+02	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	1.75E-01	NC	2.87E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.43E+04 *	NC	2.47E+08 #	NC	4.82E+01	NC
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	1.40E-01	NC	5.74E+04 *	NC	2.27E+04 *	NC	1.66E+08 *	NC	1.63E+04 *	NC	2.60E+08 #	NC	7.88E+00	NC
Dichloroprop (2,4-DP)	1.75E-01	NC	5.74E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.90E+04 *	NC	2.12E+08 #	NC	1.99E+01	NC
Dieldrin	7.64E-04	C	1.25E+02 *	C	1.24E+02 *	C	2.91E+02 *	C	5.14E+01 *	C	1.46E+04 #	C	3.71E-02	C
Dimethoate	3.50E-03	NC	5.74E+02	NC	5.68E+02	NC	4.15E+06 *	NC	2.85E+02	NC	5.23E+06 #	NC	3.59E+01	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.07E+07 *	NC	1.43E+03 *	NC	5.18E+06 #	NC	1.11E+00	NC
Diquat	3.86E-02	NC	6.31E+03	NC	6.25E+03	NC	4.56E+07 *	NC	3.14E+03	NC	9.03E+07 #	NC	9.67E+04 #	NC
Disulfoton	7.01E-04	NC	1.15E+02 *	NC	1.14E+02 *	NC	8.30E+05 *	NC	5.71E+01 *	NC	7.94E+03 #	NC	4.24E-02	NC
Diuron	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	4.15E+07 *	NC	2.85E+03 *	NC	8.62E+05 #	NC	9.66E+00	NC
Endosulfan	1.05E-01	NC	1.72E+04 *	NC	1.70E+04 *	NC	1.53E+04 *	NC	5.49E+03 *	NC	2.93E+06 #	NC	1.83E+01 #	NC
Endothall	3.50E-01	NC	5.74E+04	NC	5.68E+04	NC	9.66E+04 *	NC	2.20E+04	NC	2.92E+09 #	NC	2.30E+02	NC
Endrin	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	6.22E+06 *	NC	4.28E+02 *	NC	1.99E+05 #	NC	2.54E-01 #	NC
Endrin aldehyde	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	2.41E+03 *	NC	3.64E+02 *	NC	3.46E+03 #	NC	1.75E-02 #	NC
Endrin ketone	5.01E-04	NC	8.60E+02	NC	8.52E+02	NC	5.93E+05 *	NC	4.28E+02	NC	6.20E+04 #	NC	7.74E-02	NC
Eptam	4.38E-01	NC	NA	--	7.10E+04 *	NC	6.30E+03 *	NC	5.79E+03 *	NC	3.84E+05 #	NC	5.29E+01	NC
Ethoprop	1.75E-03	NC	2.87E+02	NC	2.84E+02	NC	2.07E+06 *	NC	1.43E+02	NC	7.39E+05 #	NC	2.52E-01	NC
Fenamiphos	4.38E-03	NC	7.17E+02 *	NC	7.10E+02 *	NC	5.18E+06 *	NC	3.57E+02	NC	1.06E+07 #	NC	NA	--
Fenthion	1.23E-03	NC	2.01E+02 *	NC	1.99E+02 *	NC	1.45E+06 *	NC	9.99E+01	NC	1.82E+05 #	NC	2.57E-01	NC
Fluometuron	2.28E-01	NC	3.73E+04 *	NC	3.69E+04 *	NC	2.70E+08 *	NC	1.85E+04 *	NC	4.61E+08 #	NC	NA	--
Fonofos	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	4.15E+07 *	NC	2.85E+03 *	NC	5.07E+05 #	NC	1.40E+00	NC
alpha-Hexachlorocyclohexane	1.95E-03	C	3.19E+02 *	C	3.15E+02 *	C	1.99E+02 *	C	8.82E+01 *	C	4.61E+04 #	C	7.36E-02	C
beta-Hexachlorocyclohexane	3.50E-03	NC	5.74E+02 *	NC	5.68E+02 *	NC	4.15E+06 *	NC	2.85E+02 *	NC	9.85E+05 #	NC	1.28E-01	NC
delta-Hexachlorocyclohexane	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	6.22E+06 *	NC	4.28E+02	NC	8.91E+05 #	NC	2.86E-01	NC
gamma-Hexachlorocyclohexane	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	4.37E+02 *	NC	2.16E+02 *	NC	9.48E+04 #	NC	4.41E-01	NC
Glyphosate	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.41E+06 *	NC	1.35E+05	NC	1.05E+14 #	NC	2.07E+05 #	NC
Guthion	2.63E-02	NC	4.30E+03 *	NC	4.26E+03 *	NC	3.11E+07 *	NC	2.14E+03 *	NC	5.92E+07 #	NC	1.69E+01 #	NC
Heptachlor	2.70E-03	C	4.46E+02	C	4.42E+02	C	3.88E+01	C	3.30E+01	C	1.00E+01 #	C	1.93E-01 #	C
Heptachlor epoxide	2.28E-04	NC	3.73E+01	NC	3.69E+01	NC	2.70E+05 *	NC	1.85E+01	NC	6.53E+03 #	NC	6.52E-03	NC
Hexazinone	5.78E-01	NC	9.46E+04 *	NC	9.37E+04 *	NC	6.84E+08 *	NC	4.71E+04 *	NC	1.39E+09 #	NC	3.98E+02	NC
Malathion	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04 *	NC	7.49E+08 #	NC	3.46E+02 #	NC
Maleic hydrazide	8.76E+00	NC	1.43E+06 *	NC	1.42E+06 *	NC	1.23E+06 *	NC	4.51E+05 *	NC	9.45E+09 #	NC	2.40E+05 #	NC
Maneb	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	1.04E+08 *	NC	7.13E+03 *	NC	2.91E+07 #	NC	NA	--
Methomyl	4.38E-01	NC	7.17E+04 *	NC	7.10E+04 *	NC	4.44E+04 *	NC	1.98E+04 *	NC	5.22E+08 #	NC	1.72E+03	NC
Methoxychlor	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	6.24E+04 *	NC	6.40E+03 *	NC	1.30E+06 #	NC	6.23E-01 #	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact		C/NC	Ingestion		C/NC	Inhalation		C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact		C/NC	Outdoor Inhalation of Vapor Emissions		C/NC	Dermal Contact		C/NC
	[mg/m^3-air]		[mg/kg]												[mg/L]					
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	8.76E-03	NC	1.43E+03	*	NC	1.42E+03	*	NC	1.04E+07	*	NC	7.13E+02	*	NC	1.49E+07	#	NC	6.53E-01		NC
MCPP	1.75E-02	NC	2.87E+03	*	NC	2.84E+03	*	NC	2.07E+07	*	NC	1.43E+03	*	NC	2.06E+07	#	NC	2.13E+00		NC
Metolachlor	2.63E+00	NC	4.30E+05	*	NC	4.26E+05	*	NC	3.11E+09	*	NC	2.14E+05	*	NC	5.09E+09	#	NC	7.31E+02	#	NC
Metribuzin	4.38E-01	NC	7.17E+04	*	NC	7.10E+04	*	NC	5.18E+08	*	NC	3.57E+04	*	NC	8.83E+08	#	NC	3.53E+03	#	NC
Mirex	6.81E-04	C	1.12E+02	*	C	1.10E+02	*	C	1.36E+01		C	1.09E+01		C	3.75E+02	#	C	NA		--
Naled	3.50E-02	NC	5.74E+03	*	NC	5.68E+03	*	NC	4.15E+07	*	NC	2.85E+03	*	NC	5.23E+06	#	NC	1.44E+02		NC
o,o,o-Triethylphosphorothioate	1.45E-04	NC	NA		--	2.36E+01		NC	2.09E+00		NC	1.92E+00		NC	5.31E+01		NC	3.37E-02		NC
Oxamyl	4.38E-01	NC	7.17E+04	*	NC	7.10E+04	*	NC	5.18E+08	*	NC	3.57E+04	*	NC	9.05E+08	#	NC	3.97E+04		NC
Paraquat	7.89E-02	NC	1.29E+04		NC	1.28E+04		NC	9.33E+07	*	NC	6.42E+03		NC	2.56E+08	#	NC	1.39E+06	#	NC
ethyl-Parathion	1.05E-01	NC	1.72E+04	*	NC	1.70E+04	*	NC	1.24E+08	*	NC	8.56E+03	*	NC	3.26E+07	#	NC	7.47E+00		NC
methyl-Parathion	4.38E-03	NC	7.17E+02		NC	7.10E+02		NC	5.18E+06	*	NC	3.57E+02		NC	1.51E+06	#	NC	1.33E+00		NC
Pendimethalin	7.01E-01	NC	1.15E+05	*	NC	1.14E+05	*	NC	8.30E+08	*	NC	5.71E+04	*	NC	7.36E+07	#	NC	4.77E+00	#	NC
Phenylmercuric acetate	1.40E-03	NC	2.29E+02		NC	2.27E+02		NC	1.66E+06	*	NC	1.14E+02		NC	2.06E+06	#	NC	1.23E+01		NC
Phorate	3.50E-03	NC	5.74E+02	*	NC	5.68E+02	*	NC	4.15E+06	*	NC	2.85E+02	*	NC	2.78E+04	#	NC	4.05E-01		NC
Picloram	1.23E+00	NC	2.01E+05	*	NC	1.99E+05	*	NC	1.76E+04	*	NC	1.50E+04	*	NC	3.44E+02		NC	2.38E+02		NC
Prometon	2.63E-01	NC	4.30E+04	*	NC	4.26E+04	*	NC	3.11E+08	*	NC	2.14E+04	*	NC	5.41E+08	#	NC	5.03E+01		NC
Pronamide	1.31E+00	NC	2.15E+05	*	NC	2.13E+05	*	NC	1.56E+09	*	NC	1.07E+05	*	NC	3.06E+07	#	NC	1.08E+02	#	NC
Propachlor	2.28E-01	NC	3.73E+04	*	NC	3.69E+04	*	NC	2.70E+08	*	NC	1.85E+04	*	NC	7.32E+07	#	NC	NA		--
Propanil	8.76E-02	NC	1.43E+04	*	NC	1.42E+04	*	NC	1.04E+08	*	NC	7.13E+03	*	NC	1.43E+08	#	NC	1.39E+01		NC
Propazine	2.73E-01	C	4.46E+04	*	C	4.42E+04	*	C	3.23E+08	*	C	2.22E+04	*	C	5.13E+08	#	C	3.06E+01	#	C
Propham	3.50E-01	NC	5.74E+04	*	NC	5.68E+04	*	NC	6.16E+04	*	NC	1.95E+04	*	NC	3.08E+08	#	NC	6.82E+01	#	NC
Silvex (2,4,5-TP)	1.40E-01	NC	2.29E+04	*	NC	2.27E+04	*	NC	1.66E+08	*	NC	1.14E+04	*	NC	2.63E+08	#	NC	1.08E+01		NC
Simazine	3.50E-02	NC	1.43E+04	*	NC	1.42E+04	*	NC	4.15E+07	*	NC	7.13E+03	*	NC	6.06E+07	#	NC	2.05E+01	#	NC
Strychnine	5.26E-03	NC	8.60E+02	*	NC	8.52E+02	*	NC	6.22E+06	*	NC	4.28E+02	*	NC	9.57E+06	#	NC	1.04E+01		NC
Tebuthiuron	1.23E+00	NC	2.01E+05	*	NC	1.99E+05	*	NC	1.45E+09	*	NC	9.99E+04	*	NC	2.53E+09	#	NC	1.25E+03		NC
Terbacil	2.28E-01	NC	3.73E+04	*	NC	3.69E+04	*	NC	2.70E+08	*	NC	1.85E+04	*	NC	4.11E+08	#	NC	NA		--
Terbufos	4.38E-04	NC	7.17E+01	*	NC	7.10E+01	*	NC	1.28E+01		NC	9.43E+00		NC	1.70E+03	#	NC	1.78E-02		NC
Terbutryn	1.75E-02	NC	2.87E+03	*	NC	2.84E+03	*	NC	2.07E+07	*	NC	1.43E+03	*	NC	1.76E+07	#	NC	1.01E+00		NC
Toxaphene	1.10E-02	C	1.82E+03	*	C	1.81E+03	*	C	1.30E+07	*	C	9.08E+02		C	5.57E+05	#	C	4.36E-01		C
Triallate	2.28E-01	NC	3.73E+04	*	NC	3.69E+04	*	NC	1.30E+04	*	NC	7.65E+03	*	NC	9.97E+05	#	NC	5.88E+00	#	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1.75E-01	NC	2.87E+04	*	NC	2.84E+04	*	NC	2.07E+08	*	NC	1.43E+04	*	NC	2.03E+08	#	NC	2.27E+01		NC
Trifluralin	1.31E-01	NC	2.15E+04	*	NC	2.13E+04	*	NC	2.79E+04	*	NC	7.73E+03	*	NC	1.24E+06	#	NC	1.42E+00		NC
Warfarin	5.01E-04	NC	8.60E+02	*	NC	8.52E+02	*	NC	5.93E+05	*	NC	4.28E+02	*	NC	1.32E+06	#	NC	1.09E+00		NC
Metals			-															-		
Aluminum	2.50E-02	NC	2.87E+07		NC	2.84E+06		NC	2.96E+07		NC	2.38E+06		NC	NA		--	8.60E+04		NC
Antimony	2.50E-04	NC	1.15E+04		NC	1.14E+03		NC	2.96E+05		NC	1.03E+03		NC	NA		--	3.44E+01		NC
Arsenic	1.51E-04	NC	2.87E+03		NC	8.52E+02		NC	1.78E+05		NC	6.54E+02		NC	NA		--	2.58E+01		NC
Barium	2.45E-03	NC	5.74E+06		NC	5.68E+05		NC	2.90E+06		NC	4.39E+05		NC	NA		--	1.72E+04		NC
Beryllium	1.00E-04	NC	2.39E+03		C	2.36E+02		C	1.18E+05		NC	2.15E+02		C	NA		--	7.17E+00		C
Cadmium	1.95E-03	C	2.87E+05		NC	2.84E+03		NC	2.30E+06		C	2.81E+03		NC	NA		--	8.60E+01		NC
Chromium (III) total chromium	5.08E-04	NC	4.30E+07		NC	4.26E+06		NC	6.01E+05		NC	5.21E+05		NC	NA		--	1.29E+05		NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-8
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 1 (Sandy)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
Chromium (VI)	4.03E-05	NC	4.78E+02	C	4.73E+01	C	4.77E+04	NC	4.30E+01	C	NA	--	7.17E-01	C
Copper	5.01E-03	NC	1.15E+06	NC	1.14E+05	NC	5.93E+06	NC	1.02E+05	NC	NA	--	3.44E+03	NC
Lead	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Manganese	2.51E-04	NC	4.01E+06	NC	3.97E+05	NC	2.97E+05	NC	1.63E+05	NC	NA	--	1.20E+04	NC
Mercury	1.50E-03	NC	NA	--	NA	--	2.16E+01 *	NC	2.16E+01 *	NC	1.68E+02 #	NC	NA	--
Molybdenum	2.50E-02	NC	1.43E+05	NC	1.42E+04	NC	2.96E+07	NC	1.29E+04	NC	NA	--	4.30E+02	NC
Nickel	4.51E-04	NC	5.74E+05	NC	5.68E+04	NC	5.33E+05	NC	4.71E+04	NC	NA	--	8.60E+03	NC
Selenium	9.99E-04	NC	1.43E+05	NC	1.42E+04	NC	1.18E+06	NC	1.28E+04	NC	NA	--	4.30E+02	NC
Silver	5.01E-05	NC	1.43E+05	NC	1.42E+04	NC	5.93E+04	NC	1.06E+04	NC	NA	--	7.17E+02	NC
Strontium	NA	--	1.72E+07	NC	1.70E+06	NC	NA	--	1.55E+06	NC	NA	--	5.16E+04	NC
Thallium chloride	5.01E-04	NC	2.29E+03	NC	2.27E+02	NC	5.93E+05 *	NC	2.07E+02	NC	NA	--	6.88E+00	NC
Vanadium	2.50E-04	NC	2.01E+05	NC	1.99E+04	NC	2.96E+05	NC	1.70E+04	NC	NA	--	6.02E+02	NC
Zinc	NA	--	8.60E+06	NC	8.52E+05	NC	NA	--	7.75E+05	NC	NA	--	4.30E+04	NC
Inorganics														
Ammonia	5.01E-01	NC	NA	--	NA	--	7.21E+03	NC	7.21E+03	NC	3.21E+04	NC	NA	--
Cyanide	2.50E-02	NC	5.74E+04	NC	5.68E+04	NC	2.96E+07 *	NC	2.85E+04	NC	NA	--	1.72E+03	NC
Cyanide (as Sodium Cyanide)	NA	--	1.15E+05 *	NC	1.14E+05 *	NC	NA	--	5.71E+04 *	NC	NA	--	3.44E+03	NC
Cyanogen bromide	1.58E+00	NC	2.58E+05 *	NC	2.56E+05 *	NC	2.27E+04 *	NC	1.93E+04 *	NC	1.22E+05 #	NC	7.74E+03	NC
Fluoride (as Sodium Fluoride)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Perchlorate	NA	--	2.01E+03	NC	1.99E+03	NC	NA	--	9.99E+02	NC	NA	--	6.02E+01	NC
White phosphorus	5.01E-04	NC	5.74E+01 *	NC	5.68E+01 *	NC	7.20E+00	NC	5.75E+00	NC	4.09E+01 #	NC	1.72E+00	NC
Total Petroleum Hydrocarbons														
TPH-GRO														
Aliphatics - > C6-C8	9.29E+01	NC	NA	--	1.42E+07 *	NC	1.34E+06 *	NC	1.22E+06 *	NC	4.76E+04 #	NC	NA	--
Aliphatics - > C8-C10	5.08E+00	NC	NA	--	2.84E+05 *	NC	7.31E+04 *	NC	5.81E+04 *	NC	1.63E+03 #	NC	NA	--
Aromatics - >C8-C10	9.99E-01	NC	NA	--	1.14E+05 *	NC	1.44E+04 *	NC	1.27E+04 *	NC	4.14E+04 #	NC	NA	--
TPH-DRO														
Aliphatics - >C10-C12	5.08E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	7.31E+04 *	NC	4.83E+04 *	NC	1.09E+03 #	NC	NA	--
Aliphatics - >C12-C16	5.08E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	7.31E+04 *	NC	4.83E+04 *	NC	2.51E+02 #	NC	NA	--
Aliphatics - >C16-C21	NA	--	5.74E+06 *	NC	5.68E+06 *	NC	NA	--	2.85E+06 *	NC	NA	--	NA	--
Aromatics - >C10-C12	9.99E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	1.44E+04 *	NC	1.15E+04 *	NC	9.37E+04 #	NC	NA	--
Aromatics - >C12-C16	9.99E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	1.44E+04 *	NC	1.15E+04 *	NC	1.46E+05 #	NC	NA	--
Aromatics - >C16-C21	NA	--	6.62E+04 *	NC	8.52E+04 *	NC	NA	--	3.72E+04 *	NC	NA	--	NA	--
TPH-ORO														
Aliphatics - >C21-C35	NA	--	5.74E+06 *	NC	5.68E+06 *	NC	NA	--	2.85E+06 *	NC	NA	--	NA	--
Aromatics - >C21-C35	NA	--	6.62E+04 *	NC	8.52E+04 *	NC	NA	--	3.72E+04 *	NC	NA	--	NA	--

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
VOCs and SVOCs														
Acenaphthene	1.05E+00	NC	1.32E+05 *	NC	1.70E+05 *	NC	5.41E+04 *	NC	3.13E+04 *	NC	1.27E+06 #	NC	2.08E+01 #	NC
Acenaphthylene	1.05E+00	NC	NA	--	1.70E+05 *	NC	6.06E+04 *	NC	4.47E+04 *	NC	1.60E+06 #	NC	2.47E+01 #	NC
Acetone	1.58E+01	NC	NA	--	2.56E+06 *	NC	2.27E+05 *	NC	2.08E+05 *	NC	2.39E+07 #	NC	1.02E+05	NC
Acetonitrile	3.00E-01	NC	NA	--	4.83E+04	NC	4.32E+03	NC	3.96E+03	NC	4.71E+05	NC	1.94E+03	NC
Acrylamide	2.70E-03	C	4.46E+02	C	4.42E+02	C	1.36E+02	C	8.42E+01	C	2.75E+05	C	3.97E+01	C
Acrylic acid	5.01E-03	NC	1.43E+06 *	NC	1.42E+06 *	NC	1.37E+02	NC	1.37E+02	NC	5.18E+05	NC	2.29E+04	NC
Acrylonitrile	1.00E-02	NC	NA	--	2.84E+03	NC	1.44E+02	NC	1.37E+02	NC	5.52E+03	NC	5.05E+01	NC
Allyl alcohol	8.76E-02	NC	1.43E+04	NC	1.42E+04	NC	1.26E+03	NC	1.07E+03	NC	9.64E+05 #	NC	3.07E+02	NC
Allyl chloride	5.01E-03	NC	8.32E+02	NC	8.23E+02	NC	1.80E+02	NC	1.25E+02	NC	2.61E+05	NC	2.95E+00	NC
Aniline	5.01E-03	NC	2.01E+04 *	NC	1.99E+04 *	NC	1.10E+02	NC	1.09E+02	NC	2.40E+05 #	NC	1.86E+02	NC
Anthracene	5.26E+00	NC	6.62E+05 *	NC	8.52E+05 *	NC	2.92E+05 *	NC	1.64E+05 *	NC	2.36E+06 #	NC	4.89E+01 #	NC
Aroclor 1016	1.23E-03	NC	1.43E+02	NC	1.99E+02	NC	3.44E+02	NC	6.71E+01	NC	1.73E+03 #	NC	4.99E-03	NC
Aroclor 1221	3.50E-04	NC	4.10E+01 *	NC	5.68E+01 *	NC	5.04E+00	NC	4.16E+00	NC	7.23E+01 #	NC	3.68E-03	NC
Aroclor 1242	3.50E-04	NC	4.10E+01 *	NC	5.68E+01 *	NC	1.41E+01 *	NC	8.85E+00	NC	3.19E+02 #	NC	1.56E-03	NC
Aroclor 1248	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	4.40E+01	NC	1.54E+01	NC	1.19E+02 #	NC	8.46E-04	NC
Aroclor 1254	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	7.15E+01	NC	1.79E+01	NC	1.56E+02 #	NC	7.31E-04	NC
Aroclor 1260	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	1.96E+02	NC	2.12E+01	NC	1.08E+02 #	NC	8.07E-04	NC
Azobenzene	1.13E-01	C	NA	--	1.81E+04 *	C	2.68E+04 *	C	1.08E+04 *	C	3.55E+05 #	C	9.67E-01	C
Benzene	1.51E-01	NC	NA	--	1.14E+04 *	NC	2.17E+03 *	NC	1.82E+03 *	NC	1.07E+04 #	NC	1.48E+01	NC
Benzidine	5.23E-05	C	8.73E+00	C	8.64E+00	C	1.22E+02	C	4.19E+00	C	4.59E+03 #	C	8.03E-02	C
Benzo(a)anthracene	3.15E-02	C	2.12E+03 *	C	2.72E+03 *	C	3.72E+07 *	C	1.19E+03 *	C	9.91E+05 #	C	4.42E-02 #	C
Benzo(a)pyrene	3.15E-03	C	2.12E+02 *	C	2.72E+02 *	C	3.72E+06 *	C	1.19E+02 *	C	2.25E+05 #	C	2.59E-03 #	C
Benzo(b)fluoranthene	3.15E-02	C	2.12E+03 *	C	2.72E+03 *	C	3.42E+04 *	C	1.15E+03 *	C	9.19E+04 #	C	2.55E-02 #	C
Benzo(g,h,i)perylene	5.26E-01	NC	6.62E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	3.72E+04 *	NC	1.19E+07 #	NC	5.83E-01 #	NC
Benzo(k)fluoranthene	3.15E-02	C	2.12E+04 *	C	2.72E+04 *	C	3.72E+07 *	C	1.19E+04 *	C	4.49E+06 #	C	2.64E-01 #	C
Benzoic acid	7.01E+01	NC	1.15E+07 *	NC	1.14E+07 *	NC	1.37E+06 *	NC	1.11E+06 *	NC	3.86E+09 #	NC	3.04E+04 #	NC
Benzyl alcohol	5.26E+00	NC	8.60E+05 *	NC	8.52E+05 *	NC	1.69E+05 *	NC	1.21E+05 *	NC	4.89E+08 #	NC	7.06E+03	NC
1,1-Biphenyl	8.76E-01	NC	NA	--	1.42E+05 *	NC	1.27E+04 *	NC	1.17E+04 *	NC	4.96E+05 #	NC	2.74E+01 #	NC
Bis(2-chloroethyl)ether	1.06E-02	C	NA	--	1.81E+03	C	1.53E+02	C	1.41E+02	C	5.84E+04 #	C	1.34E+01	C
Bis(2-chloroisopropyl)ether	3.50E-01	C	NA	--	2.84E+04 *	C	5.04E+03 *	C	4.28E+03 *	C	4.07E+05 #	C	3.69E+01	C
Bis(chloromethyl)ether	5.65E-05	C	NA	--	9.03E+00	C	8.13E-01	C	7.46E-01	C	2.86E+01	C	1.69E-01	C
Bis(2-ethylhexyl)phthalate	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04	NC	1.05E+08 #	NC	7.63E+00 #	NC
Bromochloromethane	2.50E-01	NC	NA	--	1.14E+05 *	NC	3.60E+03	NC	3.49E+03	NC	4.41E+04 #	NC	7.51E+02	NC
Bromodichloromethane	9.47E-02	C	NA	--	3.21E+04 *	C	1.36E+03	C	1.31E+03	C	2.41E+04 #	C	8.13E+01	C
Bromoform	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	5.04E+03 *	NC	4.28E+03 *	NC	3.42E+05 #	NC	1.69E+02	NC
Bromomethane	2.50E-02	NC	NA	--	3.97E+03 *	NC	3.60E+02	NC	3.30E+02	NC	1.71E+03	NC	2.50E+01	NC
4-Bromophenyl phenyl ether	1.06E-03	C	1.34E+02	C	1.32E+02	C	9.17E+01	C	3.86E+01	C	1.51E+03 #	C	5.36E-03	C
n-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	3.16E+04 #	NC	8.26E+00	NC
sec-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	2.35E+04 #	NC	1.12E+01	NC
tert-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	3.36E+04 #	NC	9.76E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
Butyl benzyl phthalate	3.50E+00	NC	5.74E+05 *	NC	5.68E+05 *	NC	4.15E+09 *	NC	2.85E+05 *	NC	5.08E+08 #	NC	6.44E+01 #	NC
Carbazole	6.13E-01	C	1.00E+05 *	C	9.94E+04 *	C	2.90E+05 *	C	4.26E+04 *	C	1.12E+08 #	C	4.65E+01 #	C
Carbon disulfide	3.50E+00	NC	NA	--	2.84E+05 *	NC	5.04E+04 *	NC	4.28E+04 *	NC	5.60E+04 #	NC	3.21E+02	NC
Carbon tetrachloride	2.00E-01	NC	NA	--	1.99E+03 *	NC	2.88E+03 *	NC	1.18E+03 *	NC	4.19E+03 #	NC	1.55E+00	NC
p-Chloroaniline	7.01E-02	NC	1.15E+04 *	NC	1.14E+04 *	NC	3.86E+03 *	NC	2.30E+03	NC	6.96E+06 #	NC	4.04E+01	NC
Chlorobenzene	2.98E-01	NC	NA	--	5.68E+04 *	NC	4.28E+03 *	NC	3.98E+03 *	NC	3.21E+04 #	NC	3.29E+01	NC
Chloroethane	4.23E+00	C	NA	--	6.85E+05 *	C	6.08E+04 *	C	5.59E+04 *	C	1.60E+05 #	C	2.30E+03	C
Chloroform	1.52E-01	C	NA	--	2.84E+04 *	NC	2.19E+03	C	2.12E+03	C	1.25E+04 #	C	6.49E+01	NC
Chloromethane	4.51E-01	NC	NA	--	7.30E+04 *	NC	6.48E+03 *	NC	5.95E+03 *	NC	8.80E+03 #	NC	4.78E+02	NC
2-Chloronaphthalene	1.40E+00	NC	NA	--	2.27E+05 *	NC	3.13E+04 *	NC	2.75E+04 *	NC	1.40E+06 #	NC	4.18E+01 #	NC
2-Chlorophenol	8.76E-02	NC	NA	--	1.42E+04	NC	1.26E+03	NC	1.16E+03	NC	4.21E+04 #	NC	2.60E+01	NC
4-Chlorophenyl phenyl ether	1.06E-03	C	1.34E+02 *	C	1.32E+02 *	C	4.83E+01	C	2.80E+01	C	6.79E+02 #	C	5.25E-03	C
2-Chlorotoluene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	4.28E+04 #	NC	2.12E+01	NC
4-Chlorotoluene	1.30E-03	NC	NA	--	5.68E+04 *	NC	1.87E+01	NC	1.87E+01	NC	1.64E+02 #	NC	1.80E+01	NC
Chrysene	3.15E-01	C	2.12E+05 *	C	2.72E+05 *	C	2.01E+05 *	C	7.48E+04 *	C	9.68E+05 #	C	4.42E+00 #	C
Dibenzo(a,h)anthracene	2.99E-03	C	2.12E+02 *	C	2.72E+02 *	C	3.54E+06 *	C	1.19E+02 *	C	7.46E+05 #	C	1.67E-03	C
Dibenzofuran	3.50E-02	NC	NA	--	5.68E+03 *	NC	1.35E+03 *	NC	1.09E+03 *	NC	2.31E+04 #	NC	8.42E-01	NC
Dibromochloromethane	1.30E-01	C	2.39E+04 *	C	2.37E+04 *	C	1.87E+03 *	C	1.61E+03 *	C	7.32E+04 #	C	6.47E+01	C
1,2-Dibromo-3-chloropropane	1.00E-03	NC	1.63E+02	NC	1.62E+02	NC	5.55E+01	NC	3.30E+01	NC	1.82E+05 #	NC	2.84E-01	NC
Dibutyl phthalate	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.07E+09 *	NC	1.43E+05 *	NC	2.91E+08 #	NC	7.33E+01 #	NC
1,2-Dichlorobenzene	9.99E-01	NC	NA	--	2.56E+05 *	NC	1.44E+04 *	NC	1.36E+04 *	NC	1.67E+05 #	NC	8.10E+01	NC
1,3-Dichlorobenzene	5.26E-01	NC	NA	--	8.52E+04 *	NC	7.56E+03 *	NC	6.94E+03 *	NC	8.79E+04 #	NC	1.91E+01	NC
1,4-Dichlorobenzene	5.58E-01	C	NA	--	3.68E+05 *	C	8.02E+03 *	C	7.85E+03 *	C	8.19E+04 #	C	1.14E+02 #	C
3,3-Dichlorobenzidine	1.02E-02	C	4.46E+03 *	C	4.42E+03 *	C	1.21E+07 *	C	2.22E+03 *	C	1.98E+06 #	C	2.23E+00	C
Dichlorodifluoromethane	9.99E-01	NC	NA	--	5.68E+05 *	NC	1.44E+04 *	NC	1.40E+04 *	NC	6.63E+03 #	NC	9.71E+02 #	NC
1,1-Dichloroethane	2.45E-01	NC	NA	--	2.84E+05 *	NC	3.53E+03 *	NC	3.48E+03 *	NC	1.86E+04 #	NC	7.30E+02	NC
1,1-Dichloroethylene	1.00E+00	NC	NA	--	1.42E+05 *	NC	1.44E+04 *	NC	1.31E+04 *	NC	2.07E+04 #	NC	2.07E+02	NC
cis-1,2-Dichloroethylene	1.75E-01	NC	NA	--	2.84E+04 *	NC	2.52E+03 *	NC	2.31E+03 *	NC	1.59E+04 #	NC	6.50E+01	NC
trans-1,2-Dichloroethylene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	1.91E+04 #	NC	9.45E+01	NC
2,4-Dichlorophenol	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	2.69E+03	NC	1.65E+03	NC	2.32E+06 #	NC	4.76E+00	NC
1,2-Dichloropropane	2.00E-02	NC	NA	--	3.12E+03 *	NC	2.88E+02	NC	2.64E+02	NC	2.43E+03	NC	6.48E+00	NC
1,3-Dichloropropene	1.00E-01	NC	NA	--	1.99E+04 *	C	1.44E+03	NC	1.42E+03	NC	3.91E+03 #	NC	7.58E+01	C
Di(2-ethylhexyl)adipate	1.02E+01	C	1.67E+06 *	C	1.66E+06 *	C	3.38E+05 *	C	2.41E+05 *	C	5.85E+05 #	C	1.70E+02 #	C
Diethyl phthalate	1.40E+01	NC	2.29E+06 *	NC	2.27E+06 *	NC	1.66E+10 *	NC	1.14E+06 *	NC	2.14E+09 #	NC	4.66E+03 #	NC
Diisopropyl ether (DIPE)	1.93E+00	NC	NA	--	2.84E+05 *	NC	2.77E+04 *	NC	2.52E+04 *	NC	2.24E+05 #	NC	5.36E+02	NC
2,4-Dimethylphenol	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	2.06E+04 *	NC	1.20E+04 *	NC	1.48E+07 #	NC	7.88E+01	NC
2,6-Dimethylphenol	1.05E-02	NC	1.72E+03	NC	1.70E+03	NC	1.01E+03	NC	4.62E+02	NC	1.67E+05 #	NC	NA	--
Dimethyl phthalate	1.75E+02	NC	2.87E+07 *	NC	2.84E+07 *	NC	1.07E+07 *	NC	6.11E+06 *	NC	3.08E+10 #	NC	1.95E+05 #	NC
1,3-Dinitrobenzene	1.75E-03	NC	2.87E+02 *	NC	2.84E+02 *	NC	8.07E+01 *	NC	5.15E+01 *	NC	8.30E+04 #	NC	1.53E+00	NC
2,4-Dinitrophenol	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	9.79E+02 *	NC	7.29E+02 *	NC	4.02E+06 #	NC	3.87E+01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
2,4-Dinitrotoluene	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	2.49E+03 *	NC	1.33E+03 *	NC	4.30E+06 #	NC	1.90E+01	NC
2,6-Dinitrotoluene	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	1.03E+03 *	NC	5.99E+02 *	NC	1.92E+06 #	NC	1.40E+01	NC
4-Amino-2,6-dinitrotoluene	5.01E-04	NC	4.87E+02 *	NC	4.83E+02 *	NC	7.82E+01	NC	5.91E+01	NC	8.89E+04 #	NC	7.06E-01	NC
2-Amino-4,6-dinitrotoluene	5.01E-04	NC	4.87E+02 *	NC	4.83E+02 *	NC	9.66E+01 *	NC	6.91E+01 *	NC	8.92E+04 #	NC	5.37E-01	NC
Di-n-octylphthalate	7.01E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	5.31E+04 *	NC	2.75E+04 *	NC	4.91E+06 #	NC	6.72E+00 #	NC
1,4-Dioxane	4.55E-01	C	1.82E+05	C	1.81E+05	C	6.54E+03	C	6.10E+03	C	2.74E+06 #	C	9.97E+03	C
Diphenylamine	5.01E-02	NC	7.17E+04 *	NC	7.10E+04 *	NC	3.99E+03 *	NC	3.59E+03 *	NC	1.44E+06 #	NC	3.09E+01	NC
1,2-Diphenylhydrazine	1.59E-02	C	2.51E+03	C	2.48E+03	C	3.75E+03	C	9.37E+02	C	3.62E+06 #	C	1.95E+00	C
Ethanol	9.46E+00	NC	NA	--	9.37E+07 *	NC	1.36E+05 *	NC	1.36E+05 *	NC	7.78E+07 #	NC	3.81E+06 #	NC
Ethylbenzene	5.08E+00	NC	NA	--	2.84E+05 *	NC	7.31E+04 *	NC	5.81E+04 *	NC	3.40E+05 #	NC	9.76E+01	NC
Ethylene dibromide (EDB)	5.84E-03	C	NA	--	9.94E+02	C	8.40E+01	C	7.74E+01	C	2.95E+03	C	3.58E+00	C
Ethylene dichloride (EDC)	2.45E-02	NC	NA	--	2.18E+04 *	C	3.53E+02	NC	3.51E+02	NC	4.21E+03	NC	8.95E+01	C
Ethylene glycol	2.00E+00	NC	5.74E+06 *	NC	5.68E+06 *	NC	5.65E+04	NC	5.54E+04	NC	1.94E+08 #	NC	1.02E+06 #	NC
Ethylene thiourea	1.40E-03	NC	2.29E+02	NC	2.27E+02	NC	5.11E+01	NC	3.53E+01	NC	1.80E+05 #	NC	2.33E+01	NC
Ethyl-tert-butyl-ether (ETBE)	1.51E+00	NC	NA	--	2.84E+03 *	NC	2.17E+04 *	NC	2.51E+03 *	NC	2.28E+05 #	NC	7.70E+00	NC
Fluoranthene	7.01E-01	NC	8.82E+04 *	NC	1.14E+05 *	NC	4.98E+05 *	NC	4.51E+04 *	NC	9.35E+06 #	NC	4.62E+00 #	NC
Fluorene	7.01E-01	NC	8.82E+04 *	NC	1.14E+05 *	NC	8.41E+04 *	NC	3.12E+04 *	NC	2.15E+06 #	NC	9.66E+00 #	NC
Formaldehyde	1.50E-02	NC	4.42E+04	C	4.37E+04	C	2.66E+02	NC	2.65E+02	NC	6.21E+05 #	NC	5.61E+02	C
n-Hexane	3.50E+00	NC	NA	--	3.12E+07 *	NC	5.04E+04 *	NC	5.03E+04 *	NC	5.39E+02 #	NC	7.68E+03 #	NC
Hexachlorobenzene	7.64E-03	C	1.25E+03	C	1.24E+03	C	3.32E+02	C	2.17E+02	C	2.02E+03 #	C	5.67E-02	C
Hexachlorobutadiene	5.26E-03	NC	8.60E+02	NC	8.52E+02	NC	8.92E+01	NC	7.38E+01	NC	4.52E+02 #	NC	7.28E-02	NC
Hexachlorocyclopentadiene	1.00E-03	NC	1.72E+04 *	NC	1.70E+04 *	NC	3.36E+01	NC	3.35E+01	NC	8.52E+01 #	NC	1.97E+00 #	NC
Hexachloroethane	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	3.73E+02	NC	2.96E+02	NC	1.55E+04 #	NC	6.89E-01	NC
Hexachlorophene	5.26E-03	NC	8.60E+02	NC	8.52E+02	NC	6.22E+06 *	NC	4.28E+02	NC	1.09E+06 #	NC	1.35E-02	NC
HMX	1.35E-02	NC	1.43E+05 *	NC	1.42E+05 *	NC	1.60E+07 *	NC	7.10E+04 *	NC	2.78E+06 #	NC	1.57E+05 #	NC
Indeno(1,2,3-cd)pyrene	3.15E-02	C	1.29E+03 *	C	1.66E+03 *	C	3.72E+07 *	C	7.24E+02 *	C	3.58E+06 #	C	1.56E-02 #	C
Isophorone	1.00E+01	NC	5.74E+05 *	NC	5.68E+05 *	NC	1.89E+05 *	NC	1.14E+05 *	NC	1.54E+08 #	NC	2.30E+03	NC
Isopropylbenzene (Cumene)	2.00E+00	NC	NA	--	2.84E+05 *	NC	2.88E+04 *	NC	2.61E+04 *	NC	1.64E+04 #	NC	6.95E+01 #	NC
4-Isopropyltoluene	5.26E+00	NC	NA	--	8.52E+05 *	NC	7.56E+04 *	NC	6.94E+04 *	NC	3.40E+05 #	NC	7.99E+01 #	NC
Maleic anhydride	3.50E-03	NC	2.87E+05 *	NC	2.84E+05 *	NC	5.58E+01	NC	5.58E+01	NC	5.58E+04 #	NC	9.42E+02	NC
Methanol	1.93E+01	NC	NA	--	1.42E+06 *	NC	2.77E+05 *	NC	2.32E+05 *	NC	1.72E+08 #	NC	1.02E+05	NC
Methyl butyl ketone	2.00E-02	NC	NA	--	1.70E+05 *	NC	2.88E+02	NC	2.87E+02	NC	2.70E+04 #	NC	7.06E+02	NC
Methyl ethyl ketone	2.50E+01	NC	NA	--	1.70E+06 *	NC	3.60E+05 *	NC	2.97E+05 *	NC	3.65E+07 #	NC	3.50E+04	NC
2-Methyl-4,6-dinitrophenol	1.50E-03	NC	2.87E+02	NC	2.84E+02	NC	5.24E+01	NC	3.83E+01	NC	2.69E+05 #	NC	8.56E-01	NC
Methylene chloride	2.00E+00	NC	NA	--	1.70E+05 *	NC	2.88E+04 *	NC	2.46E+04 *	NC	2.11E+05 #	NC	9.03E+02	NC
Methyl iodide	6.01E-02	NC	NA	--	3.97E+03	NC	8.64E+02	NC	7.10E+02	NC	3.78E+03	NC	2.14E+01	NC
Methyl isobutyl ketone	1.50E+01	NC	NA	--	2.27E+05 *	NC	2.16E+05 *	NC	1.11E+05 *	NC	1.23E+07 #	NC	1.44E+03	NC
2-Methylnaphthalene	7.01E-02	NC	NA	--	1.14E+04 *	NC	1.36E+03 *	NC	1.21E+03 *	NC	2.84E+04 #	NC	2.18E+00	NC
2-Methylphenol	8.76E-01	NC	1.43E+05 *	NC	1.42E+05 *	NC	3.96E+04 *	NC	2.55E+04 *	NC	4.53E+07 #	NC	3.08E+02	NC
3-Methylphenol	8.76E-01	NC	1.43E+05 *	NC	1.42E+05 *	NC	2.94E+04 *	NC	2.08E+04 *	NC	5.15E+07 #	NC	3.04E+02	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
4-Methylphenol	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	3.18E+03	NC	2.20E+03	NC	4.74E+06 #	NC	3.08E+01	NC
Methyl teriary butyl ether (MTBE)	1.35E+01	C	NA	--	1.10E+06 *	C	1.94E+05 *	C	1.65E+05 *	C	3.53E+06 #	C	5.96E+03	C
Methyl-2,4,6-trinitrophenylnitramine	5.01E-04	NC	2.87E+04 *	NC	2.84E+04 *	NC	5.93E+05 *	NC	1.39E+04 *	NC	1.08E+05 #	NC	1.83E+02 #	NC
Naphthalene	1.51E-02	NC	1.29E+04 *	C	1.66E+04 *	C	2.17E+02	NC	2.15E+02	NC	6.01E+03 #	NC	5.21E+00	C
2-Nitroaniline	5.26E-04	NC	8.60E+03 *	NC	8.52E+03 *	NC	2.14E+01	NC	2.13E+01	NC	5.29E+04 #	NC	2.05E+01	NC
3-Nitroaniline	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	2.95E+02 *	NC	1.75E+02 *	NC	7.93E+05 #	NC	3.77E+00	NC
4-Nitroaniline	1.75E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	7.10E+02 *	NC	6.09E+02 *	NC	2.66E+06 #	NC	8.70E+01	NC
Nitrobenzene	9.99E-03	NC	NA	--	1.42E+03 *	NC	1.44E+02	NC	1.30E+02	NC	3.80E+04 #	NC	4.28E+00	NC
Nitroglycerin	1.23E-03	NC	2.01E+02	NC	1.99E+02	NC	1.45E+06 *	NC	9.99E+01	NC	1.95E+05 #	NC	9.04E-01	NC
2-Nitrophenol	2.00E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	6.94E+02	NC	5.58E+02	NC	1.68E+06 #	NC	1.94E+01	NC
4-Nitrophenol	5.01E-03	NC	5.74E+03 *	NC	5.68E+03 *	NC	1.73E+02	NC	1.63E+02	NC	7.54E+05 #	NC	1.62E+01	NC
n-Nitrosodimethylamine	1.40E-04	NC	2.29E+01	NC	2.27E+01	NC	2.25E+00	NC	1.88E+00	NC	3.26E+03	NC	1.77E+00	NC
n-Nitrosodi-n-propylamine	1.75E-03	C	2.87E+02	C	2.84E+02	C	4.18E+01	C	3.24E+01	C	7.18E+04 #	C	1.79E+00	C
n-Nitrosodiphenylamine	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.56E+04 *	NC	1.76E+04 *	NC	1.27E+07 #	NC	3.54E+01 #	NC
n-Nitrosopyrrolidine	5.75E-03	C	9.56E+02	C	9.46E+02	C	1.91E+02	C	1.36E+02	C	9.06E+05 #	C	2.62E+01	C
2-Nitrotoluene	5.33E-02	C	NA	--	8.64E+03 *	C	7.67E+02 *	C	7.04E+02 *	C	1.30E+05 #	C	1.24E+01	C
3-Nitrotoluene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	7.32E+05 #	NC	8.15E+01	NC
4-Nitrotoluene	1.75E-01	NC	NA	--	2.84E+04 *	NC	2.52E+03 *	NC	2.31E+03 *	NC	3.61E+05 #	NC	4.07E+01	NC
Pentachlorobenzene	1.40E-02	NC	2.29E+03 *	NC	2.27E+03 *	NC	6.36E+02 *	NC	4.08E+02 *	NC	4.45E+03 #	NC	9.29E-02	NC
Pentachloronitrobenzene	4.72E-02	C	7.72E+03 *	C	7.64E+03 *	C	1.05E+04 *	C	2.82E+03 *	C	2.57E+05 #	C	1.01E+00 #	C
Pentachlorophenol	5.26E-01	NC	6.69E+03	C	1.66E+04 *	C	6.22E+08 *	NC	4.77E+03	C	1.08E+08 #	NC	2.84E-01	C
Pentaerythritol tetranitrate	7.01E+00	NC	1.15E+06 *	NC	1.14E+06 *	NC	8.30E+09 *	NC	5.71E+05 *	NC	5.12E+08 #	NC	5.51E+02 #	NC
Phenanthrene	5.26E-01	NC	NA	--	8.52E+04 *	NC	4.65E+04 *	NC	3.01E+04 *	NC	9.02E+05 #	NC	6.47E+00 #	NC
Phenol	1.00E+00	NC	8.60E+05 *	NC	8.52E+05 *	NC	3.82E+04 *	NC	3.51E+04 *	NC	8.53E+07 #	NC	3.50E+03	NC
m-Phenylenediamine	1.05E-01	NC	1.72E+04	NC	1.70E+04	NC	3.24E+03	NC	2.35E+03	NC	1.39E+07 #	NC	1.32E+03	NC
Polychlorinated biphenyls (PCBs)	3.50E-02	C	7.17E+02 *	C	9.94E+02 *	C	5.62E+03 *	C	3.88E+02 *	C	1.24E+04 #	C	1.61E-02	C
n-Propylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	3.78E+04 #	NC	1.82E+01	NC
Pyrene	5.26E-01	NC	6.62E+04 *	NC	8.52E+04 *	NC	4.59E+05 *	NC	3.44E+04 *	NC	1.07E+07 #	NC	2.52E+00 #	NC
RDX	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	3.87E+03 *	NC	2.03E+03 *	NC	9.67E+06 #	NC	1.50E+02	NC
Styrene	5.01E+00	NC	NA	--	5.68E+05 *	NC	7.20E+04 *	NC	6.39E+04 *	NC	6.72E+05 #	NC	2.57E+02	NC
1,1,1,2-Tetrachloroethane	4.74E-01	C	NA	--	7.64E+04 *	C	6.81E+03 *	C	6.25E+03 *	C	6.86E+04 #	C	5.63E+01	C
1,1,2,2-Tetrachloroethane	6.04E-02	C	NA	--	9.94E+03 *	C	8.69E+02	C	7.99E+02	C	2.61E+04 #	C	1.64E+01	C
1,2,4,5-Tetrachlorobenzene	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	7.56E+01 *	NC	6.42E+01 *	NC	2.13E+03 #	NC	7.40E-02	NC
Tetrachloroethylene	5.84E-01	C	NA	--	3.68E+03 *	C	8.40E+03 *	C	2.56E+03 *	C	2.05E+04 #	C	1.28E+00	C
Tetrahydrofuran	1.51E+00	NC	NA	--	2.61E+05 *	C	2.17E+04	NC	2.09E+04	NC	1.65E+06 #	NC	3.20E+03	C
Tertiary-amyl-methyl-ether (TAME)	4.03E-01	NC	NA	--	1.14E+05 *	NC	5.79E+03 *	NC	5.51E+03 *	NC	5.22E+04 #	NC	2.86E+02	NC
Tertiary-butyl-alcohol (TBA)	1.51E+00	NC	NA	--	2.56E+05 *	NC	2.17E+04	NC	2.00E+04	NC	8.97E+06 #	NC	2.35E+03	NC
Toluene	2.45E+01	NC	NA	--	2.27E+05 *	NC	3.53E+05 *	NC	1.38E+05 *	NC	1.62E+06 #	NC	1.32E+02	NC
1,2,4-Trichlorobenzene	1.75E-02	NC	NA	--	2.84E+04 *	NC	2.52E+02	NC	2.50E+02	NC	5.29E+03 #	NC	4.48E+00	NC
1,3,5-Trichlorobenzene	2.00E-01	NC	NA	--	8.52E+03 *	NC	2.88E+03 *	NC	2.15E+03 *	NC	3.32E+04 #	NC	1.04E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
1,1,1-Trichloroethane	1.10E+01	NC	NA	--	7.95E+05 *	NC	1.58E+05 *	NC	1.32E+05 *	NC	3.77E+05 #	NC	8.68E+02	NC
1,1,2-Trichloroethane	7.01E-02	NC	NA	--	1.14E+04 *	NC	1.01E+03	NC	9.26E+02	NC	1.53E+04 #	NC	2.52E+01	NC
Trichloroethylene	1.75E+00	C	NA	--	1.53E+05 *	C	2.52E+04 *	C	2.16E+04 *	C	8.89E+04 #	C	1.83E+02	C
Trichlorofluoromethane	3.50E+00	NC	NA	--	8.52E+05 *	NC	5.04E+04 *	NC	4.76E+04 *	NC	2.20E+04 #	NC	9.06E+02	NC
2,4,5-Trichlorophenol	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.74E+05 *	NC	9.38E+04 *	NC	7.37E+07 #	NC	1.17E+02	NC
2,4,6-Trichlorophenol	1.75E-03	NC	2.87E+02	NC	2.84E+02	NC	1.04E+02	NC	6.00E+01	NC	4.30E+04 #	NC	7.61E-02	NC
1,2,3-Trichloropropane	6.13E-03	C	NA	--	9.94E+02 *	C	8.82E+01	C	8.10E+01	C	2.66E+03 #	C	1.22E+00	C
1,1,2-Trichlorotrifluoroethane	1.51E+02	NC	NA	--	8.52E+07 *	NC	2.17E+06 *	NC	2.11E+06 *	NC	5.41E+05 #	NC	5.72E+04 #	NC
1,2,4-Trimethylbenzene	3.00E-02	NC	NA	--	1.42E+05 *	NC	4.32E+02	NC	4.31E+02	NC	2.46E+03 #	NC	2.56E+01	NC
1,3,5-Trimethylbenzene	3.00E-02	NC	NA	--	1.42E+05 *	NC	4.32E+02 *	NC	4.31E+02 *	NC	1.90E+03 #	NC	2.38E+01	NC
1,3,5-Trinitrobenzene	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	4.28E+04 *	NC	8.58E+07 #	NC	8.14E+02 #	NC
2,4,6-Trinitrotoluene (TNT)	8.76E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	1.04E+07 *	NC	7.13E+02 *	NC	1.01E+06 #	NC	6.46E+00	NC
Vinyl chloride (for residential scenario)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Vinyl chloride (for occupational scenatio)	3.98E-01	C	NA	--	1.42E+03 *	C	5.73E+03 *	C	1.14E+03	C	7.60E+03 #	C	5.23E+00	C
Xylenes (total)	5.08E-01	NC	NA	--	5.68E+05 *	NC	7.31E+03 *	NC	7.21E+03 *	NC	3.76E+04 #	NC	3.28E+02 #	NC
Pesticides														
Acetochlor	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04 *	NC	6.86E+07 #	NC	1.65E+02	NC
Acifluorfen	5.01E-02	NC	3.73E+04	NC	3.69E+04	NC	5.93E+07 *	NC	1.85E+04	NC	7.51E+07 #	NC	5.11E+03	NC
Acrolein	1.00E-04	NC	NA	--	1.42E+03	NC	1.44E+00	NC	1.44E+00	NC	6.24E+01	NC	4.60E+01	NC
Alachlor	1.53E-01	C	2.87E+04 *	NC	2.84E+04 *	NC	1.81E+08 *	C	1.43E+04 *	NC	3.42E+07 #	C	2.23E+01	NC
Aldicarb	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	8.35E+02	NC	5.27E+02	NC	3.17E+06 #	NC	2.67E+01	NC
Aldicarb sulfone	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.07E+07 *	NC	1.43E+03 *	NC	3.93E+06 #	NC	7.35E+02	NC
Aldrin	5.26E-04	NC	8.60E+01	NC	8.52E+01	NC	8.54E+02	NC	4.08E+01	NC	1.72E+03 #	NC	1.93E-01 #	NC
Ametryn	1.58E-01	NC	2.58E+04 *	NC	2.56E+04 *	NC	1.87E+08 *	NC	1.28E+04 *	NC	3.59E+07 #	NC	3.04E+01	NC
Atrazine	5.58E-02	C	8.73E+03 *	C	8.64E+03 *	C	6.60E+07 *	C	4.34E+03 *	C	1.29E+07 #	C	1.07E+01	C
Baygon	7.01E-02	NC	1.15E+04 *	NC	1.14E+04 *	NC	8.30E+07 *	NC	5.71E+03 *	NC	7.80E+06 #	NC	NA	--
Butylate	8.76E-01	NC	1.43E+05 *	NC	1.42E+05 *	NC	1.26E+04 *	NC	1.07E+04 *	NC	1.64E+06 #	NC	3.59E+01	NC
Captan	2.28E+00	NC	3.73E+05 *	NC	3.69E+05 *	NC	2.70E+09 *	NC	1.85E+05 *	NC	9.94E+07 #	NC	1.49E+03 #	NC
Carbaryl	1.93E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.77E+04 *	NC	2.32E+04 *	NC	7.48E+05 #	NC	6.36E+02 #	NC
Carbofuran	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	1.04E+08 *	NC	7.13E+03 *	NC	2.11E+07 #	NC	3.90E+01 #	NC
Carboxin	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.52E+04 *	NC	2.14E+04 *	NC	7.62E+03 #	NC	2.89E+02 #	NC
Chloramben	2.63E-01	NC	4.30E+04 *	NC	4.26E+04 *	NC	3.11E+08 *	NC	2.14E+04 *	NC	2.94E+07 #	NC	8.09E+01	NC
Chlordane (technical)	3.50E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	2.46E+03 *	NC	5.53E+02 *	NC	4.11E+04 #	NC	3.40E-02	NC
Chlordane, gamma	3.50E-03	NC	3.58E+03 *	NC	1.42E+03 *	NC	1.88E+03 *	NC	6.60E+02 *	NC	8.11E+03 #	NC	1.27E-01 #	NC
Chlorothalonil	2.63E-01	NC	1.08E+05 *	NC	4.26E+04 *	NC	3.11E+08 *	NC	3.05E+04 *	NC	1.36E+07 #	NC	1.50E+01 #	NC
Chlorpyrifos	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	6.22E+07 *	NC	4.28E+03 *	NC	2.14E+06 #	NC	1.63E+00 #	NC
Coumaphos	1.23E-01	NC	2.01E+04 *	NC	1.99E+04 *	NC	1.45E+08 *	NC	9.99E+03 *	NC	3.30E+07 #	NC	7.71E+00 #	NC
Cyanazine	1.46E-02	C	2.39E+03 *	C	2.37E+03 *	C	2.10E+02	C	1.78E+02	C	7.15E+01	C	1.80E+01	C
Dacthal	1.75E-01	NC	2.87E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.43E+04 *	NC	1.30E+02 #	NC	4.46E+00 #	NC
Dalapon, sodium salt	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	1.70E+04 *	NC	1.21E+04 *	NC	7.18E+07 #	NC	4.01E+02	NC
DDD	5.11E-02	C	8.36E+03 *	C	8.28E+03 *	C	6.05E+07 *	C	4.16E+03 *	C	3.78E+06 #	C	2.45E-01 #	C

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact		C/NC	Ingestion		C/NC	Inhalation		C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact		C/NC	Outdoor Inhalation of Vapor Emissions		C/NC	Dermal Contact		C/NC
	[mg/m^3-air]		[mg/kg]												[mg/L]					
DDE	3.61E-02	C	5.90E+03	*	C	5.84E+03	*	C	2.06E+05	*	C	2.90E+03		C	7.47E+05	#	C	1.97E-01	#	C
DDT	8.76E-03	NC	1.43E+03	*	NC	1.42E+03	*	NC	1.04E+07	*	NC	7.13E+02	*	NC	4.39E+05	#	NC	2.55E-02	#	NC
DEF	5.26E-04	NC	2.87E+02		NC	8.52E+01		NC	6.22E+05	*	NC	6.57E+01		NC	1.02E+05	#	NC	2.81E-03		NC
Demeton	7.01E-04	NC	1.15E+03		NC	1.14E+03		NC	1.01E+01		NC	9.90E+00		NC	8.08E+02	#	NC	1.45E+00		NC
Diazinon	1.58E-02	NC	2.58E+03	*	NC	2.56E+03	*	NC	1.87E+07	*	NC	1.28E+03	*	NC	3.89E+06	#	NC	1.19E+00		NC
Dicamba	5.26E-01	NC	8.60E+04	*	NC	8.52E+04	*	NC	6.22E+08	*	NC	4.28E+04	*	NC	1.02E+08	#	NC	2.98E+02		NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	1.75E-01	NC	2.87E+04	*	NC	2.84E+04	*	NC	2.07E+08	*	NC	1.43E+04	*	NC	3.46E+07	#	NC	4.82E+01		NC
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	1.40E-01	NC	5.74E+04	*	NC	2.27E+04	*	NC	1.66E+08	*	NC	1.63E+04	*	NC	2.98E+07	#	NC	7.88E+00		NC
Dichloroprop (2,4-DP)	1.75E-01	NC	5.74E+04	*	NC	2.84E+04	*	NC	2.07E+08	*	NC	1.90E+04	*	NC	3.45E+07	#	NC	1.99E+01		NC
Dieldrin	7.64E-04	C	1.25E+02	*	C	1.24E+02	*	C	3.79E+02	*	C	5.36E+01	*	C	2.46E+04	#	C	3.71E-02		C
Dimethoate	3.50E-03	NC	5.74E+02		NC	5.68E+02		NC	4.15E+06	*	NC	2.85E+02		NC	5.73E+05	#	NC	3.59E+01		NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	1.75E-02	NC	2.87E+03	*	NC	2.84E+03	*	NC	2.07E+07	*	NC	1.43E+03	*	NC	2.79E+06	#	NC	1.11E+00		NC
Diquat	3.86E-02	NC	6.31E+03		NC	6.25E+03		NC	4.56E+07	*	NC	3.14E+03		NC	1.57E+07	#	NC	9.67E+04	#	NC
Disulfoton	7.01E-04	NC	1.15E+02	*	NC	1.14E+02	*	NC	8.30E+05	*	NC	5.71E+01	*	NC	1.34E+04	#	NC	4.24E-02		NC
Diuron	3.50E-02	NC	5.74E+03	*	NC	5.68E+03	*	NC	4.15E+07	*	NC	2.85E+03	*	NC	1.39E+06	#	NC	9.66E+00		NC
Endosulfan	1.05E-01	NC	1.72E+04	*	NC	1.70E+04	*	NC	1.96E+04	*	NC	5.96E+03	*	NC	4.73E+06	#	NC	1.83E+01	#	NC
Endothall	3.50E-01	NC	5.74E+04		NC	5.68E+04		NC	3.30E+04		NC	1.53E+04		NC	2.42E+09	#	NC	2.30E+02		NC
Endrin	5.26E-03	NC	8.60E+02	*	NC	8.52E+02	*	NC	6.22E+06	*	NC	4.28E+02	*	NC	3.03E+05	#	NC	2.54E-01	#	NC
Endrin aldehyde	5.26E-03	NC	8.60E+02	*	NC	8.52E+02	*	NC	3.33E+03	*	NC	3.79E+02	*	NC	4.41E+03	#	NC	1.75E-02	#	NC
Endrin ketone	5.01E-04	NC	8.60E+02		NC	8.52E+02		NC	5.93E+05	*	NC	4.28E+02		NC	6.71E+04	#	NC	7.74E-02		NC
Eptam	4.38E-01	NC	NA		--	7.10E+04	*	NC	6.30E+03	*	NC	5.79E+03	*	NC	5.98E+05	#	NC	5.29E+01		NC
Ethoprop	1.75E-03	NC	2.87E+02		NC	2.84E+02		NC	2.07E+06	*	NC	1.43E+02		NC	3.34E+05	#	NC	2.52E-01		NC
Fenamiphos	4.38E-03	NC	7.17E+02	*	NC	7.10E+02	*	NC	5.18E+06	*	NC	3.57E+02		NC	1.17E+06	#	NC	NA		--
Fenthion	1.23E-03	NC	2.01E+02	*	NC	1.99E+02	*	NC	1.45E+06	*	NC	9.99E+01		NC	1.65E+05	#	NC	2.57E-01		NC
Fluometuron	2.28E-01	NC	3.73E+04	*	NC	3.69E+04	*	NC	2.70E+08	*	NC	1.85E+04	*	NC	5.24E+07	#	NC	NA		--
Fonofos	3.50E-02	NC	5.74E+03	*	NC	5.68E+03	*	NC	4.15E+07	*	NC	2.85E+03	*	NC	8.62E+05	#	NC	1.40E+00		NC
alpha-Hexachlorocyclohexane	1.95E-03	C	3.19E+02	*	C	3.15E+02	*	C	2.48E+02	*	C	9.67E+01	*	C	7.07E+04	#	C	7.36E-02		C
beta-Hexachlorocyclohexane	3.50E-03	NC	5.74E+02	*	NC	5.68E+02	*	NC	4.15E+06	*	NC	2.85E+02	*	NC	4.89E+05	#	NC	1.28E-01		NC
delta-Hexachlorocyclohexane	5.26E-03	NC	8.60E+02	*	NC	8.52E+02	*	NC	6.22E+06	*	NC	4.28E+02		NC	6.94E+05	#	NC	2.86E-01		NC
gamma-Hexachlorocyclohexane	5.26E-03	NC	8.60E+02	*	NC	8.52E+02	*	NC	5.58E+02	*	NC	2.42E+02	*	NC	1.52E+05	#	NC	4.41E-01		NC
Glyphosate	1.75E+00	NC	2.87E+05	*	NC	2.84E+05	*	NC	7.96E+05	*	NC	1.21E+05		NC	1.05E+14	#	NC	2.07E+05	#	NC
Guthion	2.63E-02	NC	4.30E+03	*	NC	4.26E+03	*	NC	3.11E+07	*	NC	2.14E+03	*	NC	6.72E+06	#	NC	1.69E+01	#	NC
Heptachlor	2.70E-03	C	4.46E+02		C	4.42E+02		C	3.89E+01		C	3.31E+01		C	8.88E+00	#	C	1.93E-01	#	C
Heptachlor epoxide	2.28E-04	NC	3.73E+01		NC	3.69E+01		NC	2.70E+05	*	NC	1.85E+01		NC	1.06E+04	#	NC	6.52E-03		NC
Hexazinone	5.78E-01	NC	9.46E+04	*	NC	9.37E+04	*	NC	6.84E+08	*	NC	4.71E+04	*	NC	1.82E+08	#	NC	3.98E+02		NC
Malathion	3.50E-01	NC	5.74E+04	*	NC	5.68E+04	*	NC	4.15E+08	*	NC	2.85E+04	*	NC	1.02E+08	#	NC	3.46E+02	#	NC
Maleic hydrazide	8.76E+00	NC	1.43E+06	*	NC	1.42E+06	*	NC	4.43E+05	*	NC	2.73E+05	*	NC	1.04E+09	#	NC	2.40E+05	#	NC
Maneb	8.76E-02	NC	1.43E+04	*	NC	1.42E+04	*	NC	1.04E+08	*	NC	7.13E+03	*	NC	1.46E+07	#	NC	NA		--
Methomyl	4.38E-01	NC	7.17E+04	*	NC	7.10E+04	*	NC	1.75E+04	*	NC	1.17E+04		NC	5.73E+07	#	NC	1.72E+03		NC
Methoxychlor	8.76E-02	NC	1.43E+04	*	NC	1.42E+04	*	NC	8.25E+04	*	NC	6.57E+03	*	NC	2.24E+06	#	NC	6.23E-01	#	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact		C/NC	Ingestion		C/NC	Inhalation		C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact		C/NC	Outdoor Inhalation of Vapor Emissions		C/NC	Dermal Contact		C/NC
	[mg/m^3-air]		[mg/kg]												[mg/L]					
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	8.76E-03	NC	1.43E+03	*	NC	1.42E+03	*	NC	1.04E+07	*	NC	7.13E+02		NC	1.67E+06	#	NC	6.53E-01		NC
MCPP	1.75E-02	NC	2.87E+03	*	NC	2.84E+03	*	NC	2.07E+07	*	NC	1.43E+03	*	NC	3.48E+06	#	NC	2.13E+00		NC
Metolachlor	2.63E+00	NC	4.30E+05	*	NC	4.26E+05	*	NC	3.11E+09	*	NC	2.14E+05	*	NC	6.65E+08	#	NC	7.31E+02	#	NC
Metribuzin	4.38E-01	NC	7.17E+04	*	NC	7.10E+04	*	NC	5.18E+08	*	NC	3.57E+04	*	NC	1.02E+08	#	NC	3.53E+03	#	NC
Mirex	6.81E-04	C	1.12E+02	*	C	1.10E+02	*	C	1.88E+01		C	1.40E+01		C	4.55E+02	#	C	NA		--
Naled	3.50E-02	NC	5.74E+03	*	NC	5.68E+03	*	NC	4.15E+07	*	NC	2.85E+03	*	NC	4.16E+06	#	NC	1.44E+02		NC
o,o,o-Triethylphosphorothioate	1.45E-04	NC	NA		--	2.36E+01		NC	2.09E+00		NC	1.92E+00		NC	6.47E+01		NC	3.37E-02		NC
Oxamyl	4.38E-01	NC	7.17E+04	*	NC	7.10E+04	*	NC	5.18E+08	*	NC	3.57E+04		NC	9.95E+07	#	NC	3.97E+04		NC
Paraquat	7.89E-02	NC	1.29E+04		NC	1.28E+04		NC	9.33E+07	*	NC	6.42E+03		NC	2.88E+07	#	NC	1.39E+06	#	NC
ethyl-Parathion	1.05E-01	NC	1.72E+04	*	NC	1.70E+04	*	NC	1.24E+08	*	NC	8.56E+03	*	NC	1.79E+07	#	NC	7.47E+00		NC
methyl-Parathion	4.38E-03	NC	7.17E+02		NC	7.10E+02		NC	5.18E+06	*	NC	3.57E+02		NC	6.00E+05	#	NC	1.33E+00		NC
Pendimethalin	7.01E-01	NC	1.15E+05	*	NC	1.14E+05	*	NC	8.30E+08	*	NC	5.71E+04	*	NC	7.97E+07	#	NC	4.77E+00	#	NC
Phenylmercuric acetate	1.40E-03	NC	2.29E+02		NC	2.27E+02		NC	1.66E+06	*	NC	1.14E+02		NC	2.29E+05	#	NC	1.23E+01		NC
Phorate	3.50E-03	NC	5.74E+02	*	NC	5.68E+02	*	NC	4.15E+06	*	NC	2.85E+02	*	NC	4.81E+04	#	NC	4.05E-01		NC
Picloram	1.23E+00	NC	2.01E+05	*	NC	1.99E+05	*	NC	1.76E+04	*	NC	1.50E+04	*	NC	3.05E+02		NC	2.38E+02		NC
Prometon	2.63E-01	NC	4.30E+04	*	NC	4.26E+04	*	NC	3.11E+08	*	NC	2.14E+04	*	NC	6.18E+07	#	NC	5.03E+01		NC
Pronamide	1.31E+00	NC	2.15E+05	*	NC	2.13E+05	*	NC	1.56E+09	*	NC	1.07E+05	*	NC	4.63E+07	#	NC	1.08E+02	#	NC
Propachlor	2.28E-01	NC	3.73E+04	*	NC	3.69E+04	*	NC	2.70E+08	*	NC	1.85E+04	*	NC	3.07E+07	#	NC	NA		--
Propanil	8.76E-02	NC	1.43E+04	*	NC	1.42E+04	*	NC	1.04E+08	*	NC	7.13E+03	*	NC	1.73E+07	#	NC	1.39E+01		NC
Propazine	2.73E-01	C	4.46E+04	*	C	4.42E+04	*	C	3.23E+08	*	C	2.22E+04	*	C	6.21E+07	#	C	3.06E+01	#	C
Propham	3.50E-01	NC	5.74E+04	*	NC	5.68E+04	*	NC	3.05E+04	*	NC	1.47E+04	*	NC	6.83E+07	#	NC	6.82E+01	#	NC
Silvex (2,4,5-TP)	1.40E-01	NC	2.29E+04	*	NC	2.27E+04	*	NC	1.66E+08	*	NC	1.14E+04	*	NC	3.14E+07	#	NC	1.08E+01		NC
Simazine	3.50E-02	NC	1.43E+04	*	NC	1.42E+04	*	NC	4.15E+07	*	NC	7.13E+03	*	NC	7.15E+06	#	NC	2.05E+01	#	NC
Strychnine	5.26E-03	NC	8.60E+02	*	NC	8.52E+02	*	NC	6.22E+06	*	NC	4.28E+02	*	NC	2.55E+06	#	NC	1.04E+01		NC
Tebuthiuron	1.23E+00	NC	2.01E+05	*	NC	1.99E+05	*	NC	1.45E+09	*	NC	9.99E+04	*	NC	2.98E+08	#	NC	1.25E+03		NC
Terbacil	2.28E-01	NC	3.73E+04	*	NC	3.69E+04	*	NC	2.70E+08	*	NC	1.85E+04	*	NC	4.50E+07	#	NC	NA		--
Terbufos	4.38E-04	NC	7.17E+01	*	NC	7.10E+01	*	NC	1.76E+01		NC	1.18E+01		NC	3.01E+03	#	NC	1.78E-02		NC
Terbutryn	1.75E-02	NC	2.87E+03	*	NC	2.84E+03	*	NC	2.07E+07	*	NC	1.43E+03	*	NC	3.61E+06	#	NC	1.01E+00		NC
Toxaphene	1.10E-02	C	1.82E+03	*	C	1.81E+03	*	C	1.30E+07	*	C	9.08E+02		C	8.13E+05	#	C	4.36E-01		C
Triallate	2.28E-01	NC	3.73E+04	*	NC	3.69E+04	*	NC	1.78E+04	*	NC	9.07E+03	*	NC	1.77E+06	#	NC	5.88E+00	#	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1.75E-01	NC	2.87E+04	*	NC	2.84E+04	*	NC	2.07E+08	*	NC	1.43E+04	*	NC	2.81E+07	#	NC	2.27E+01		NC
Trifluralin	1.31E-01	NC	2.15E+04	*	NC	2.13E+04	*	NC	3.74E+04	*	NC	8.32E+03	*	NC	2.18E+06	#	NC	1.42E+00		NC
Warfarin	5.01E-04	NC	8.60E+02	*	NC	8.52E+02	*	NC	5.93E+05	*	NC	4.28E+02	*	NC	1.48E+05	#	NC	1.09E+00		NC
Metals			-															-		
Aluminum	2.50E-02	NC	2.87E+07		NC	2.84E+06		NC	2.96E+07		NC	2.38E+06		NC	NA		--	8.60E+04		NC
Antimony	2.50E-04	NC	1.15E+04		NC	1.14E+03		NC	2.96E+05		NC	1.03E+03		NC	NA		--	3.44E+01		NC
Arsenic	1.51E-04	NC	2.87E+03		NC	8.52E+02		NC	1.78E+05		NC	6.54E+02		NC	NA		--	2.58E+01		NC
Barium	2.45E-03	NC	5.74E+06		NC	5.68E+05		NC	2.90E+06		NC	4.39E+05		NC	NA		--	1.72E+04		NC
Beryllium	1.00E-04	NC	2.39E+03		C	2.36E+02		C	1.18E+05		NC	2.15E+02		C	NA		--	7.17E+00		C
Cadmium	1.95E-03	C	2.87E+05		NC	2.84E+03		NC	2.30E+06		C	2.81E+03		NC	NA		--	8.60E+01		NC
Chromium (III) total chromium	5.08E-04	NC	4.30E+07		NC	4.26E+06		NC	6.01E+05		NC	5.21E+05		NC	NA		--	1.29E+05		NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-9
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 2 (Silty)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
Chromium (VI)	4.03E-05	NC	4.78E+02	C	4.73E+01	C	4.77E+04	NC	4.30E+01	C	NA	--	7.17E-01	C
Copper	5.01E-03	NC	1.15E+06	NC	1.14E+05	NC	5.93E+06	NC	1.02E+05	NC	NA	--	3.44E+03	NC
Lead	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Manganese	2.51E-04	NC	4.01E+06	NC	3.97E+05	NC	2.97E+05	NC	1.63E+05	NC	NA	--	1.20E+04	NC
Mercury	1.50E-03	NC	NA	--	NA	--	2.16E+01 *	NC	2.16E+01 *	NC	1.55E+02 #	NC	NA	--
Molybdenum	2.50E-02	NC	1.43E+05	NC	1.42E+04	NC	2.96E+07	NC	1.29E+04	NC	NA	--	4.30E+02	NC
Nickel	4.51E-04	NC	5.74E+05	NC	5.68E+04	NC	5.33E+05	NC	4.71E+04	NC	NA	--	8.60E+03	NC
Selenium	9.99E-04	NC	1.43E+05	NC	1.42E+04	NC	1.18E+06	NC	1.28E+04	NC	NA	--	4.30E+02	NC
Silver	5.01E-05	NC	1.43E+05	NC	1.42E+04	NC	5.93E+04	NC	1.06E+04	NC	NA	--	7.17E+02	NC
Strontium	NA	--	1.72E+07	NC	1.70E+06	NC	NA	--	1.55E+06	NC	NA	--	5.16E+04	NC
Thallium chloride	5.01E-04	NC	2.29E+03	NC	2.27E+02	NC	5.93E+05 *	NC	2.07E+02	NC	NA	--	6.88E+00	NC
Vanadium	2.50E-04	NC	2.01E+05	NC	1.99E+04	NC	2.96E+05	NC	1.70E+04	NC	NA	--	6.02E+02	NC
Zinc	NA	--	8.60E+06	NC	8.52E+05	NC	NA	--	7.75E+05	NC	NA	--	4.30E+04	NC
Inorganics														
Ammonia	5.01E-01	NC	NA	--	NA	--	7.21E+03	NC	7.21E+03	NC	4.89E+04	NC	NA	--
Cyanide	2.50E-02	NC	5.74E+04	NC	5.68E+04	NC	2.96E+07 *	NC	2.85E+04	NC	NA	--	1.72E+03	NC
Cyanide (as Sodium Cyanide)	NA	--	1.15E+05 *	NC	1.14E+05 *	NC	NA	--	5.71E+04	NC	NA	--	3.44E+03	NC
Cyanogen bromide	1.58E+00	NC	2.58E+05 *	NC	2.56E+05 *	NC	2.27E+04 *	NC	1.93E+04 *	NC	1.13E+05 #	NC	7.74E+03	NC
Fluoride (as Sodium Fluoride)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Perchlorate	NA	--	2.01E+03	NC	1.99E+03	NC	NA	--	9.99E+02	NC	NA	--	6.02E+01	NC
White phosphorus	5.01E-04	NC	5.74E+01 *	NC	5.68E+01 *	NC	7.20E+00	NC	5.75E+00	NC	4.13E+01 #	NC	1.72E+00	NC
Total Petroleum Hydrocarbons														
TPH-GRO														
Aliphatics - > C6-C8	9.29E+01	NC	NA	--	1.42E+07 *	NC	1.34E+06 *	NC	1.22E+06 *	NC	4.21E+04 #	NC	NA	--
Aliphatics - > C8-C10	5.08E+00	NC	NA	--	2.84E+05 *	NC	7.31E+04 *	NC	5.81E+04 *	NC	1.44E+03 #	NC	NA	--
Aromatics - >C8-C10	9.99E-01	NC	NA	--	1.14E+05 *	NC	1.44E+04 *	NC	1.27E+04 *	NC	3.74E+04 #	NC	NA	--
TPH-DRO														
Aliphatics - >C10-C12	5.08E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	7.31E+04 *	NC	4.83E+04 *	NC	9.61E+02 #	NC	NA	--
Aliphatics - >C12-C16	5.08E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	7.31E+04 *	NC	4.83E+04 *	NC	2.22E+02 #	NC	NA	--
Aliphatics - >C16-C21	NA	--	5.74E+06 *	NC	5.68E+06 *	NC	NA	--	2.85E+06 *	NC	NA	--	NA	--
Aromatics - >C10-C12	9.99E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	1.44E+04 *	NC	1.15E+04 *	NC	8.84E+04 #	NC	NA	--
Aromatics - >C12-C16	9.99E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	1.44E+04 *	NC	1.15E+04 *	NC	1.50E+05 #	NC	NA	--
Aromatics - >C16-C21	NA	--	6.62E+04 *	NC	8.52E+04 *	NC	NA	--	3.72E+04 *	NC	NA	--	NA	--
TPH-ORO														
Aliphatics - >C21-C35	NA	--	5.74E+06 *	NC	5.68E+06 *	NC	NA	--	2.85E+06 *	NC	NA	--	NA	--
Aromatics - >C21-C35	NA	--	6.62E+04 *	NC	8.52E+04 *	NC	NA	--	3.72E+04 *	NC	NA	--	NA	--

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
VOCs and SVOCs														
Acenaphthene	1.05E+00	NC	1.32E+05 *	NC	1.70E+05 *	NC	7.02E+04 *	NC	3.61E+04 *	NC	2.01E+06 #	NC	2.08E+01 #	NC
Acenaphthylene	1.05E+00	NC	NA	--	1.70E+05 *	NC	7.85E+04 *	NC	5.37E+04 *	NC	2.54E+06 #	NC	2.47E+01 #	NC
Acetone	1.58E+01	NC	NA	--	2.56E+06 *	NC	2.27E+05 *	NC	2.08E+05 *	NC	3.84E+07 #	NC	1.02E+05	NC
Acetonitrile	3.00E-01	NC	NA	--	4.83E+04	NC	4.32E+03	NC	3.96E+03	NC	7.52E+05	NC	1.94E+03	NC
Acrylamide	2.70E-03	C	4.46E+02	C	4.42E+02	C	9.84E+01	C	6.82E+01	C	1.36E+05	C	3.97E+01	C
Acrylic acid	5.01E-03	NC	1.43E+06 *	NC	1.42E+06 *	NC	1.13E+02	NC	1.13E+02	NC	2.89E+05	NC	2.29E+04	NC
Acrylonitrile	1.00E-02	NC	NA	--	2.84E+03	NC	1.44E+02	NC	1.37E+02	NC	8.65E+03	NC	5.05E+01	NC
Allyl alcohol	8.76E-02	NC	1.43E+04	NC	1.42E+04	NC	1.49E+03	NC	1.23E+03	NC	1.34E+06 #	NC	3.07E+02	NC
Allyl chloride	5.01E-03	NC	8.32E+02	NC	8.23E+02	NC	1.69E+02	NC	1.20E+02	NC	2.17E+05	NC	2.95E+00	NC
Aniline	5.01E-03	NC	2.01E+04 *	NC	1.99E+04 *	NC	1.17E+02	NC	1.16E+02	NC	2.35E+05 #	NC	1.86E+02	NC
Anthracene	5.26E+00	NC	6.62E+05 *	NC	8.52E+05 *	NC	3.81E+05 *	NC	1.88E+05 *	NC	3.44E+06 #	NC	4.89E+01 #	NC
Aroclor 1016	1.23E-03	NC	1.43E+02	NC	1.99E+02	NC	4.46E+02	NC	7.02E+01	NC	2.75E+03 #	NC	4.99E-03	NC
Aroclor 1221	3.50E-04	NC	4.10E+01 *	NC	5.68E+01 *	NC	5.52E+00	NC	4.48E+00	NC	8.95E+01 #	NC	3.68E-03	NC
Aroclor 1242	3.50E-04	NC	4.10E+01 *	NC	5.68E+01 *	NC	1.83E+01 *	NC	1.04E+01	NC	4.91E+02 #	NC	1.56E-03	NC
Aroclor 1248	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	5.74E+01	NC	1.68E+01	NC	1.58E+02 #	NC	8.46E-04	NC
Aroclor 1254	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	9.32E+01	NC	1.90E+01	NC	2.10E+02 #	NC	7.31E-04	NC
Aroclor 1260	3.50E-04	NC	4.10E+01	NC	5.68E+01	NC	2.56E+02	NC	2.18E+01	NC	1.40E+02 #	NC	8.07E-04	NC
Azobenzene	1.13E-01	C	NA	--	1.81E+04 *	C	3.44E+04 *	C	1.18E+04 *	C	5.71E+05 #	C	9.67E-01	C
Benzene	1.51E-01	NC	NA	--	1.14E+04 *	NC	2.17E+03 *	NC	1.82E+03 *	NC	1.22E+04 #	NC	1.48E+01	NC
Benzidine	5.23E-05	C	8.73E+00	C	8.64E+00	C	8.57E+01	C	4.13E+00	C	2.29E+03 #	C	8.03E-02	C
Benzo(a)anthracene	3.15E-02	C	2.12E+03 *	C	2.72E+03 *	C	3.72E+07 *	C	1.19E+03 *	C	1.10E+06 #	C	4.42E-02 #	C
Benzo(a)pyrene	3.15E-03	C	2.12E+02 *	C	2.72E+02 *	C	3.72E+06 *	C	1.19E+02 *	C	1.74E+05 #	C	2.59E-03 #	C
Benzo(b)fluoranthene	3.15E-02	C	2.12E+03 *	C	2.72E+03 *	C	4.41E+04 *	C	1.16E+03 *	C	1.48E+05 #	C	2.55E-02 #	C
Benzo(g,h,i)perylene	5.26E-01	NC	6.62E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	3.72E+04 *	NC	5.98E+06 #	NC	5.83E-01 #	NC
Benzo(k)fluoranthene	3.15E-02	C	2.12E+04 *	C	2.72E+04 *	C	3.72E+07 *	C	1.19E+04 *	C	3.08E+06 #	C	2.64E-01 #	C
Benzoic acid	7.01E+01	NC	1.15E+07 *	NC	1.14E+07 *	NC	1.47E+06 *	NC	1.17E+06 *	NC	3.62E+09 #	NC	3.04E+04 #	NC
Benzyl alcohol	5.26E+00	NC	8.60E+05 *	NC	8.52E+05 *	NC	1.52E+05 *	NC	1.12E+05 *	NC	3.49E+08 #	NC	7.06E+03	NC
1,1-Biphenyl	8.76E-01	NC	NA	--	1.42E+05 *	NC	1.66E+04 *	NC	1.48E+04 *	NC	7.47E+05 #	NC	2.74E+01 #	NC
Bis(2-chloroethyl)ether	1.06E-02	C	NA	--	1.81E+03	C	1.53E+02	C	1.41E+02	C	9.15E+04 #	C	1.34E+01	C
Bis(2-chloroisopropyl)ether	3.50E-01	C	NA	--	2.84E+04 *	C	5.04E+03 *	C	4.28E+03 *	C	6.38E+05 #	C	3.69E+01	C
Bis(chloromethyl)ether	5.65E-05	C	NA	--	9.03E+00	C	8.13E-01	C	7.46E-01	C	4.32E+01	C	1.69E-01	C
Bis(2-ethylhexyl)phthalate	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04	NC	5.87E+07 #	NC	7.63E+00 #	NC
Bromochloromethane	2.50E-01	NC	NA	--	1.14E+05 *	NC	3.60E+03	NC	3.49E+03	NC	5.79E+04 #	NC	7.51E+02	NC
Bromodichloromethane	9.47E-02	C	NA	--	3.21E+04 *	C	1.36E+03	C	1.31E+03	C	3.35E+04 #	C	8.13E+01	C
Bromoform	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	5.04E+03 *	NC	4.28E+03 *	NC	5.44E+05 #	NC	1.69E+02	NC
Bromomethane	2.50E-02	NC	NA	--	3.97E+03 *	NC	3.60E+02	NC	3.30E+02	NC	1.97E+03	NC	2.50E+01	NC
4-Bromophenyl phenyl ether	1.06E-03	C	1.34E+02	C	1.32E+02	C	1.19E+02	C	4.27E+01	C	2.40E+03 #	C	5.36E-03	C
n-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	3.50E+04 #	NC	8.26E+00	NC
sec-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	2.59E+04 #	NC	1.12E+01	NC
tert-Butylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	3.73E+04 #	NC	9.76E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
Butyl benzyl phthalate	3.50E+00	NC	5.74E+05 *	NC	5.68E+05 *	NC	4.15E+09 *	NC	2.85E+05 *	NC	3.75E+08 #	NC	6.44E+01 #	NC
Carbazole	6.13E-01	C	1.00E+05 *	C	9.94E+04 *	C	2.05E+05 *	C	4.02E+04 *	C	5.62E+07 #	C	4.65E+01 #	C
Carbon disulfide	3.50E+00	NC	NA	--	2.84E+05 *	NC	5.04E+04 *	NC	4.28E+04 *	NC	6.13E+04 #	NC	3.21E+02	NC
Carbon tetrachloride	2.00E-01	NC	NA	--	1.99E+03 *	NC	2.88E+03 *	NC	1.18E+03 *	NC	4.59E+03 #	NC	1.55E+00	NC
p-Chloroaniline	7.01E-02	NC	1.15E+04 *	NC	1.14E+04 *	NC	3.05E+03 *	NC	1.99E+03	NC	4.13E+06 #	NC	4.04E+01	NC
Chlorobenzene	2.98E-01	NC	NA	--	5.68E+04 *	NC	4.28E+03 *	NC	3.98E+03 *	NC	3.74E+04 #	NC	3.29E+01	NC
Chloroethane	4.23E+00	C	NA	--	6.85E+05 *	C	6.08E+04 *	C	5.59E+04 *	C	1.78E+05 #	C	2.30E+03	C
Chloroform	1.52E-01	C	NA	--	2.84E+04 *	NC	2.19E+03	C	2.12E+03	C	1.44E+04 #	C	6.49E+01	NC
Chloromethane	4.51E-01	NC	NA	--	7.30E+04 *	NC	6.48E+03 *	NC	5.95E+03 *	NC	9.63E+03 #	NC	4.78E+02	NC
2-Chloronaphthalene	1.40E+00	NC	NA	--	2.27E+05 *	NC	4.06E+04 *	NC	3.45E+04 *	NC	2.22E+06 #	NC	4.18E+01 #	NC
2-Chlorophenol	8.76E-02	NC	NA	--	1.42E+04	NC	1.26E+03	NC	1.16E+03	NC	6.33E+04 #	NC	2.60E+01	NC
4-Chlorophenyl phenyl ether	1.06E-03	C	1.34E+02 *	C	1.32E+02 *	C	6.29E+01	C	3.24E+01	C	1.00E+03 #	C	5.25E-03	C
2-Chlorotoluene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	5.01E+04 #	NC	2.12E+01	NC
4-Chlorotoluene	1.30E-03	NC	NA	--	5.68E+04 *	NC	1.87E+01	NC	1.87E+01	NC	1.92E+02 #	NC	1.80E+01	NC
Chrysene	3.15E-01	C	2.12E+05 *	C	2.72E+05 *	C	2.59E+05 *	C	8.15E+04 *	C	1.55E+06 #	C	4.42E+00 #	C
Dibenzo(a,h)anthracene	2.99E-03	C	2.12E+02 *	C	2.72E+02 *	C	3.54E+06 *	C	1.19E+02 *	C	3.72E+05 #	C	1.67E-03	C
Dibenzofuran	3.50E-02	NC	NA	--	5.68E+03 *	NC	1.75E+03 *	NC	1.34E+03 *	NC	3.59E+04 #	NC	8.42E-01	NC
Dibromochloromethane	1.30E-01	C	2.39E+04 *	C	2.37E+04 *	C	1.87E+03 *	C	1.61E+03 *	C	1.13E+05 #	C	6.47E+01	C
1,2-Dibromo-3-chloropropane	1.00E-03	NC	1.63E+02	NC	1.62E+02	NC	4.12E+01	NC	2.73E+01	NC	9.18E+04 #	NC	2.84E-01	NC
Dibutyl phthalate	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.07E+09 *	NC	1.43E+05 *	NC	1.44E+08 #	NC	7.33E+01 #	NC
1,2-Dichlorobenzene	9.99E-01	NC	NA	--	2.56E+05 *	NC	1.44E+04 *	NC	1.36E+04 *	NC	2.04E+05 #	NC	8.10E+01	NC
1,3-Dichlorobenzene	5.26E-01	NC	NA	--	8.52E+04 *	NC	7.56E+03 *	NC	6.94E+03 *	NC	1.07E+05 #	NC	1.91E+01	NC
1,4-Dichlorobenzene	5.58E-01	C	NA	--	3.68E+05 *	C	8.02E+03 *	C	7.85E+03 *	C	9.78E+04 #	C	1.14E+02 #	C
3,3-Dichlorobenzidine	1.02E-02	C	4.46E+03 *	C	4.42E+03 *	C	1.21E+07 *	C	2.22E+03 *	C	9.80E+05 #	C	2.23E+00	C
Dichlorodifluoromethane	9.99E-01	NC	NA	--	5.68E+05 *	NC	1.44E+04 *	NC	1.40E+04 *	NC	7.23E+03 #	NC	9.71E+02 #	NC
1,1-Dichloroethane	2.45E-01	NC	NA	--	2.84E+05 *	NC	3.53E+03 *	NC	3.48E+03 *	NC	2.14E+04 #	NC	7.30E+02	NC
1,1-Dichloroethylene	1.00E+00	NC	NA	--	1.42E+05 *	NC	1.44E+04 *	NC	1.31E+04 *	NC	2.28E+04 #	NC	2.07E+02	NC
cis-1,2-Dichloroethylene	1.75E-01	NC	NA	--	2.84E+04 *	NC	2.52E+03 *	NC	2.31E+03 *	NC	1.87E+04 #	NC	6.50E+01	NC
trans-1,2-Dichloroethylene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	2.16E+04 #	NC	9.45E+01	NC
2,4-Dichlorophenol	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	2.71E+03	NC	1.66E+03	NC	2.29E+06 #	NC	4.76E+00	NC
1,2-Dichloropropane	2.00E-02	NC	NA	--	3.12E+03 *	NC	2.88E+02	NC	2.64E+02	NC	2.87E+03 #	NC	6.48E+00	NC
1,3-Dichloropropene	1.00E-01	NC	NA	--	1.99E+04 *	C	1.44E+03	NC	1.42E+03	NC	4.35E+03 #	NC	7.58E+01	C
Di(2-ethylhexyl)adipate	1.02E+01	C	1.67E+06 *	C	1.66E+06 *	C	4.42E+05 *	C	2.89E+05 *	C	6.43E+05 #	C	1.70E+02 #	C
Diethyl phthalate	1.40E+01	NC	2.29E+06 *	NC	2.27E+06 *	NC	1.66E+10 *	NC	1.14E+06 *	NC	1.30E+09 #	NC	4.66E+03 #	NC
Diisopropyl ether (DIPE)	1.93E+00	NC	NA	--	2.84E+05 *	NC	2.77E+04 *	NC	2.52E+04 *	NC	2.58E+05 #	NC	5.36E+02	NC
2,4-Dimethylphenol	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	2.09E+04 *	NC	1.21E+04 *	NC	1.50E+07 #	NC	7.88E+01	NC
2,6-Dimethylphenol	1.05E-02	NC	1.72E+03	NC	1.70E+03	NC	1.17E+03	NC	4.95E+02	NC	2.26E+05 #	NC	NA	--
Dimethyl phthalate	1.75E+02	NC	2.87E+07 *	NC	2.84E+07 *	NC	8.25E+06 *	NC	5.23E+06 *	NC	1.71E+10 #	NC	1.95E+05 #	NC
1,3-Dinitrobenzene	1.75E-03	NC	2.87E+02 *	NC	2.84E+02 *	NC	8.29E+01 *	NC	5.24E+01 *	NC	8.46E+04 #	NC	1.53E+00	NC
2,4-Dinitrophenol	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	8.27E+02 *	NC	6.41E+02 *	NC	2.33E+06 #	NC	3.87E+01	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
2,4-Dinitrotoluene	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	2.04E+03 *	NC	1.19E+03 *	NC	2.80E+06 #	NC	1.90E+01	NC
2,6-Dinitrotoluene	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	8.75E+02 *	NC	5.42E+02 *	NC	1.32E+06 #	NC	1.40E+01	NC
4-Amino-2,6-dinitrotoluene	5.01E-04	NC	4.87E+02 *	NC	4.83E+02 *	NC	5.54E+01	NC	4.51E+01	NC	4.42E+04 #	NC	7.06E-01	NC
2-Amino-4,6-dinitrotoluene	5.01E-04	NC	4.87E+02 *	NC	4.83E+02 *	NC	6.83E+01 *	NC	5.33E+01	NC	4.43E+04 #	NC	5.37E-01	NC
Di-n-octylphthalate	7.01E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	6.79E+04 *	NC	3.10E+04 *	NC	7.85E+06 #	NC	6.72E+00 #	NC
1,4-Dioxane	4.55E-01	C	1.82E+05	C	1.81E+05	C	6.54E+03	C	6.10E+03	C	4.18E+06 #	C	9.97E+03	C
Diphenylamine	5.01E-02	NC	7.17E+04 *	NC	7.10E+04 *	NC	4.52E+03 *	NC	4.01E+03 *	NC	1.83E+06 #	NC	3.09E+01	NC
1,2-Diphenylhydrazine	1.59E-02	C	2.51E+03	C	2.48E+03	C	2.65E+03	C	8.49E+02	C	1.80E+06 #	C	1.95E+00	C
Ethanol	9.46E+00	NC	NA	--	9.37E+07 *	NC	1.36E+05 *	NC	1.36E+05 *	NC	1.11E+08 #	NC	3.81E+06 #	NC
Ethylbenzene	5.08E+00	NC	NA	--	2.84E+05 *	NC	7.31E+04 *	NC	5.81E+04 *	NC	3.81E+05 #	NC	9.76E+01	NC
Ethylene dibromide (EDB)	5.84E-03	C	NA	--	9.94E+02	C	8.40E+01	C	7.74E+01	C	4.68E+03 #	C	3.58E+00	C
Ethylene dichloride (EDC)	2.45E-02	NC	NA	--	2.18E+04 *	C	3.53E+02	NC	3.51E+02	NC	5.36E+03	NC	8.95E+01	C
Ethylene glycol	2.00E+00	NC	5.74E+06 *	NC	5.68E+06 *	NC	4.49E+04	NC	4.42E+04	NC	1.03E+08 #	NC	1.02E+06 #	NC
Ethylene thiourea	1.40E-03	NC	2.29E+02	NC	2.27E+02	NC	3.86E+01	NC	2.88E+01	NC	8.90E+04 #	NC	2.33E+01	NC
Ethyl-tert-butyl-ether (ETBE)	1.51E+00	NC	NA	--	2.84E+03 *	NC	2.17E+04 *	NC	2.51E+03 *	NC	2.70E+05 #	NC	7.70E+00	NC
Fluoranthene	7.01E-01	NC	8.82E+04 *	NC	1.14E+05 *	NC	6.05E+05 *	NC	4.59E+04 *	NC	1.37E+07 #	NC	4.62E+00 #	NC
Fluorene	7.01E-01	NC	8.82E+04 *	NC	1.14E+05 *	NC	1.08E+05 *	NC	3.40E+04 *	NC	3.44E+06 #	NC	9.66E+00 #	NC
Formaldehyde	1.50E-02	NC	4.42E+04	C	4.37E+04	C	2.39E+02	NC	2.39E+02	NC	4.16E+05 #	NC	5.61E+02	C
n-Hexane	3.50E+00	NC	NA	--	3.12E+07 *	NC	5.04E+04 *	NC	5.03E+04 *	NC	5.86E+02 #	NC	7.68E+03 #	NC
Hexachlorobenzene	7.64E-03	C	1.25E+03	C	1.24E+03	C	4.33E+02	C	2.56E+02	C	2.53E+03 #	C	5.67E-02	C
Hexachlorobutadiene	5.26E-03	NC	8.60E+02	NC	8.52E+02	NC	1.17E+02	NC	9.16E+01	NC	5.07E+02 #	NC	7.28E-02	NC
Hexachlorocyclopentadiene	1.00E-03	NC	1.72E+04 *	NC	1.70E+04 *	NC	4.39E+01	NC	4.37E+01	NC	9.63E+01 #	NC	1.97E+00 #	NC
Hexachloroethane	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	4.85E+02	NC	3.62E+02	NC	2.40E+04 #	NC	6.89E-01	NC
Hexachlorophene	5.26E-03	NC	8.60E+02	NC	8.52E+02	NC	6.22E+06 *	NC	4.28E+02	NC	6.59E+05 #	NC	1.35E-02	NC
HMX	1.35E-02	NC	1.43E+05 *	NC	1.42E+05 *	NC	1.60E+07 *	NC	7.10E+04 *	NC	1.38E+06 #	NC	1.57E+05 #	NC
Indeno(1,2,3-cd)pyrene	3.15E-02	C	1.29E+03 *	C	1.66E+03 *	C	3.72E+07 *	C	7.24E+02 *	C	2.77E+06 #	C	1.56E-02 #	C
Isophorone	1.00E+01	NC	5.74E+05 *	NC	5.68E+05 *	NC	2.34E+05 *	NC	1.29E+05 *	NC	2.19E+08 #	NC	2.30E+03	NC
Isopropylbenzene (Cumene)	2.00E+00	NC	NA	--	2.84E+05 *	NC	2.88E+04 *	NC	2.61E+04 *	NC	1.79E+04 #	NC	6.95E+01 #	NC
4-Isopropyltoluene	5.26E+00	NC	NA	--	8.52E+05 *	NC	7.56E+04 *	NC	6.94E+04 *	NC	3.78E+05 #	NC	7.99E+01 #	NC
Maleic anhydride	3.50E-03	NC	2.87E+05 *	NC	2.84E+05 *	NC	6.63E+01	NC	6.62E+01	NC	7.15E+04 #	NC	9.42E+02	NC
Methanol	1.93E+01	NC	NA	--	1.42E+06 *	NC	2.77E+05 *	NC	2.32E+05 *	NC	2.30E+08 #	NC	1.02E+05	NC
Methyl butyl ketone	2.00E-02	NC	NA	--	1.70E+05 *	NC	2.88E+02	NC	2.87E+02	NC	4.29E+04 #	NC	7.06E+02	NC
Methyl ethyl ketone	2.50E+01	NC	NA	--	1.70E+06 *	NC	3.60E+05 *	NC	2.97E+05 *	NC	5.86E+07 #	NC	3.50E+04	NC
2-Methyl-4,6-dinitrophenol	1.50E-03	NC	2.87E+02	NC	2.84E+02	NC	4.10E+01	NC	3.19E+01	NC	1.34E+05 #	NC	8.56E-01	NC
Methylene chloride	2.00E+00	NC	NA	--	1.70E+05 *	NC	2.88E+04 *	NC	2.46E+04 *	NC	2.55E+05 #	NC	9.03E+02	NC
Methyl iodide	6.01E-02	NC	NA	--	3.97E+03	NC	8.64E+02	NC	7.10E+02	NC	4.32E+03	NC	2.14E+01	NC
Methyl isobutyl ketone	1.50E+01	NC	NA	--	2.27E+05 *	NC	2.16E+05 *	NC	1.11E+05 *	NC	1.91E+07 #	NC	1.44E+03	NC
2-Methylnaphthalene	7.01E-02	NC	NA	--	1.14E+04 *	NC	1.77E+03 *	NC	1.53E+03 *	NC	4.02E+04 #	NC	2.18E+00	NC
2-Methylphenol	8.76E-01	NC	1.43E+05 *	NC	1.42E+05 *	NC	3.93E+04 *	NC	2.53E+04 *	NC	4.29E+07 #	NC	3.08E+02	NC
3-Methylphenol	8.76E-01	NC	1.43E+05 *	NC	1.42E+05 *	NC	2.76E+04 *	NC	1.99E+04 *	NC	4.18E+07 #	NC	3.04E+02	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
4-Methylphenol	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	3.02E+03	NC	2.12E+03	NC	4.02E+06 #	NC	3.08E+01	NC
Methyl teriary butyl ether (MTBE)	1.35E+01	C	NA	--	1.10E+06 *	C	1.94E+05 *	C	1.65E+05 *	C	4.90E+06 #	C	5.96E+03	C
Methyl-2,4,6-trinitrophenylnitramine	5.01E-04	NC	2.87E+04 *	NC	2.84E+04 *	NC	5.93E+05 *	NC	1.39E+04 *	NC	5.66E+04 #	NC	1.83E+02 #	NC
Naphthalene	1.51E-02	NC	1.29E+04 *	C	1.66E+04 *	C	2.59E+02	NC	2.56E+02	NC	8.53E+03 #	NC	5.21E+00	C
2-Nitroaniline	5.26E-04	NC	8.60E+03 *	NC	8.52E+03 *	NC	1.91E+01	NC	1.90E+01	NC	3.84E+04 #	NC	2.05E+01	NC
3-Nitroaniline	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	2.16E+02 *	NC	1.44E+02	NC	3.95E+05 #	NC	3.77E+00	NC
4-Nitroaniline	1.75E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	5.35E+02 *	NC	4.76E+02 *	NC	1.32E+06 #	NC	8.70E+01	NC
Nitrobenzene	9.99E-03	NC	NA	--	1.42E+03 *	NC	1.44E+02	NC	1.30E+02	NC	6.02E+04 #	NC	4.28E+00	NC
Nitroglycerin	1.23E-03	NC	2.01E+02	NC	1.99E+02	NC	1.45E+06 *	NC	9.99E+01	NC	1.04E+05 #	NC	9.04E-01	NC
2-Nitrophenol	2.00E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	6.25E+02	NC	5.13E+02	NC	1.23E+06 #	NC	1.94E+01	NC
4-Nitrophenol	5.01E-03	NC	5.74E+03 *	NC	5.68E+03 *	NC	1.33E+02	NC	1.27E+02	NC	3.74E+05 #	NC	1.62E+01	NC
n-Nitrosodimethylamine	1.40E-04	NC	2.29E+01	NC	2.27E+01	NC	2.63E+00	NC	2.14E+00	NC	3.91E+03	NC	1.77E+00	NC
n-Nitrosodi-n-propylamine	1.75E-03	C	2.87E+02	C	2.84E+02	C	4.52E+01	C	3.44E+01	C	7.53E+04 #	C	1.79E+00	C
n-Nitrosodiphenylamine	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.99E+04 *	NC	1.82E+04 *	NC	1.51E+07 #	NC	3.54E+01 #	NC
n-Nitrosopyrrolidine	5.75E-03	C	9.56E+02	C	9.46E+02	C	1.51E+02	C	1.14E+02	C	4.60E+05	C	2.62E+01	C
2-Nitrotoluene	5.33E-02	C	NA	--	8.64E+03 *	C	7.93E+02 *	C	7.27E+02 *	C	2.09E+05 #	C	1.24E+01	C
3-Nitrotoluene	3.50E-01	NC	NA	--	5.68E+04 *	NC	5.04E+03 *	NC	4.63E+03 *	NC	1.18E+06 #	NC	8.15E+01	NC
4-Nitrotoluene	1.75E-01	NC	NA	--	2.84E+04 *	NC	2.52E+03 *	NC	2.31E+03 *	NC	5.79E+05 #	NC	4.07E+01	NC
Pentachlorobenzene	1.40E-02	NC	2.29E+03 *	NC	2.27E+03 *	NC	8.30E+02 *	NC	4.81E+02 *	NC	5.86E+03 #	NC	9.29E-02	NC
Pentachloronitrobenzene	4.72E-02	C	7.72E+03 *	C	7.64E+03 *	C	1.34E+04 *	C	2.98E+03 *	C	4.07E+05 #	C	1.01E+00 #	C
Pentachlorophenol	5.26E-01	NC	6.69E+03	C	1.66E+04 *	C	6.22E+08 *	NC	4.77E+03	C	5.51E+07 #	NC	2.84E-01	C
Pentaerythritol tetranitrate	7.01E+00	NC	1.15E+06 *	NC	1.14E+06 *	NC	8.30E+09 *	NC	5.71E+05 *	NC	4.73E+08 #	NC	5.51E+02 #	NC
Phenanthrene	5.26E-01	NC	NA	--	8.52E+04 *	NC	6.01E+04 *	NC	3.52E+04 *	NC	1.44E+06 #	NC	6.47E+00 #	NC
Phenol	1.00E+00	NC	8.60E+05 *	NC	8.52E+05 *	NC	3.33E+04 *	NC	3.09E+04 *	NC	5.94E+07 #	NC	3.50E+03	NC
m-Phenylenediamine	1.05E-01	NC	1.72E+04	NC	1.70E+04	NC	2.52E+03	NC	1.94E+03	NC	6.90E+06 #	NC	1.32E+03	NC
Polychlorinated biphenyls (PCBs)	3.50E-02	C	7.17E+02 *	C	9.94E+02 *	C	7.32E+03 *	C	3.94E+02 *	C	1.81E+04 #	C	1.61E-02	C
n-Propylbenzene	7.01E-01	NC	NA	--	1.14E+05 *	NC	1.01E+04 *	NC	9.26E+03 *	NC	4.21E+04 #	NC	1.82E+01	NC
Pyrene	5.26E-01	NC	6.62E+04 *	NC	8.52E+04 *	NC	5.31E+05 *	NC	3.48E+04 *	NC	1.43E+07 #	NC	2.52E+00 #	NC
RDX	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	2.90E+03 *	NC	1.73E+03 *	NC	5.16E+06 #	NC	1.50E+02	NC
Styrene	5.01E+00	NC	NA	--	5.68E+05 *	NC	7.20E+04 *	NC	6.39E+04 *	NC	7.95E+05 #	NC	2.57E+02	NC
1,1,1,2-Tetrachloroethane	4.74E-01	C	NA	--	7.64E+04 *	C	6.81E+03 *	C	6.25E+03 *	C	8.18E+04 #	C	5.63E+01	C
1,1,2,2-Tetrachloroethane	6.04E-02	C	NA	--	9.94E+03 *	C	8.69E+02	C	7.99E+02	C	3.79E+04 #	C	1.64E+01	C
1,2,4,5-Tetrachlorobenzene	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	8.52E+01 *	NC	7.11E+01 *	NC	3.10E+03 #	NC	7.40E-02	NC
Tetrachloroethylene	5.84E-01	C	NA	--	3.68E+03 *	C	8.40E+03 *	C	2.56E+03 *	C	2.26E+04 #	C	1.28E+00	C
Tetrahydrofuran	1.51E+00	NC	NA	--	2.61E+05 *	C	2.17E+04	NC	2.09E+04	NC	2.64E+06 #	NC	3.20E+03	C
Tertiary-amyl-methyl-ether (TAME)	4.03E-01	NC	NA	--	1.14E+05 *	NC	5.79E+03 *	NC	5.51E+03 *	NC	6.09E+04 #	NC	2.86E+02	NC
Tertiary-butyl-alcohol (TBA)	1.51E+00	NC	NA	--	2.56E+05 *	NC	2.17E+04	NC	2.00E+04	NC	1.38E+07 #	NC	2.35E+03	NC
Toluene	2.45E+01	NC	NA	--	2.27E+05 *	NC	3.53E+05 *	NC	1.38E+05 *	NC	1.83E+06 #	NC	1.32E+02	NC
1,2,4-Trichlorobenzene	1.75E-02	NC	NA	--	2.84E+04 *	NC	2.52E+02	NC	2.50E+02	NC	7.26E+03 #	NC	4.48E+00	NC
1,3,5-Trichlorobenzene	2.00E-01	NC	NA	--	8.52E+03 *	NC	2.88E+03 *	NC	2.15E+03 *	NC	4.03E+04 #	NC	1.04E+00	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
1,1,1-Trichloroethane	1.10E+01	NC	NA	--	7.95E+05 *	NC	1.58E+05 *	NC	1.32E+05 *	NC	4.17E+05 #	NC	8.68E+02	NC
1,1,2-Trichloroethane	7.01E-02	NC	NA	--	1.14E+04 *	NC	1.01E+03	NC	9.26E+02	NC	2.01E+04 #	NC	2.52E+01	NC
Trichloroethylene	1.75E+00	C	NA	--	1.53E+05 *	C	2.52E+04 *	C	2.16E+04 *	C	9.92E+04 #	C	1.83E+02	C
Trichlorofluoromethane	3.50E+00	NC	NA	--	8.52E+05 *	NC	5.04E+04 *	NC	4.76E+04 *	NC	2.40E+04 #	NC	9.06E+02	NC
2,4,5-Trichlorophenol	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.87E+05 *	NC	9.53E+04 *	NC	8.10E+07 #	NC	1.17E+02	NC
2,4,6-Trichlorophenol	1.75E-03	NC	2.87E+02	NC	2.84E+02	NC	1.20E+02	NC	6.52E+01	NC	5.69E+04 #	NC	7.61E-02	NC
1,2,3-Trichloropropane	6.13E-03	C	NA	--	9.94E+02 *	C	8.82E+01	C	8.10E+01	C	3.86E+03 #	C	1.22E+00	C
1,1,2-Trichlorotrifluoroethane	1.51E+02	NC	NA	--	8.52E+07 *	NC	2.17E+06 *	NC	2.11E+06 *	NC	5.89E+05 #	NC	5.72E+04 #	NC
1,2,4-Trimethylbenzene	3.00E-02	NC	NA	--	1.42E+05 *	NC	4.32E+02	NC	4.31E+02	NC	2.78E+03 #	NC	2.56E+01	NC
1,3,5-Trimethylbenzene	3.00E-02	NC	NA	--	1.42E+05 *	NC	4.32E+02 *	NC	4.31E+02 *	NC	2.12E+03 #	NC	2.38E+01	NC
1,3,5-Trinitrobenzene	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	4.28E+04 *	NC	4.25E+07 #	NC	8.14E+02 #	NC
2,4,6-Trinitrotoluene (TNT)	8.76E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	1.04E+07 *	NC	7.13E+02 *	NC	7.14E+05 #	NC	6.46E+00	NC
Vinyl chloride (for residential scenario)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Vinyl chloride (for occupational scenatio)	3.98E-01	C	NA	--	1.42E+03 *	C	5.73E+03 *	C	1.14E+03	C	8.27E+03 #	C	5.23E+00	C
Xylenes (total)	5.08E-01	NC	NA	--	5.68E+05 *	NC	7.31E+03 *	NC	7.21E+03 *	NC	4.23E+04 #	NC	3.28E+02 #	NC
Pesticides														
Acetochlor	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04 *	NC	3.66E+07 #	NC	1.65E+02	NC
Acifluorfen	5.01E-02	NC	3.73E+04	NC	3.69E+04	NC	5.93E+07 *	NC	1.85E+04	NC	6.76E+07 #	NC	5.11E+03	NC
Acrolein	1.00E-04	NC	NA	--	1.42E+03	NC	1.44E+00	NC	1.44E+00	NC	9.79E+01	NC	4.60E+01	NC
Alachlor	1.53E-01	C	2.87E+04 *	NC	2.84E+04 *	NC	1.81E+08 *	C	1.43E+04 *	NC	1.70E+07 #	C	2.23E+01	NC
Aldicarb	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	6.24E+02	NC	4.34E+02	NC	1.57E+06 #	NC	2.67E+01	NC
Aldicarb sulfone	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.07E+07 *	NC	1.43E+03 *	NC	1.95E+06 #	NC	7.35E+02	NC
Aldrin	5.26E-04	NC	8.60E+01	NC	8.52E+01	NC	1.10E+03	NC	4.12E+01	NC	2.76E+03 #	NC	1.93E-01 #	NC
Ametryn	1.58E-01	NC	2.58E+04 *	NC	2.56E+04 *	NC	1.87E+08 *	NC	1.28E+04 *	NC	1.79E+07 #	NC	3.04E+01	NC
Atrazine	5.58E-02	C	8.73E+03 *	C	8.64E+03 *	C	6.60E+07 *	C	4.34E+03 *	C	6.45E+06 #	C	1.07E+01	C
Baygon	7.01E-02	NC	1.15E+04 *	NC	1.14E+04 *	NC	8.30E+07 *	NC	5.71E+03 *	NC	5.23E+06 #	NC	NA	--
Butylate	8.76E-01	NC	1.43E+05 *	NC	1.42E+05 *	NC	1.26E+04 *	NC	1.07E+04 *	NC	2.61E+06 #	NC	3.59E+01	NC
Captan	2.28E+00	NC	3.73E+05 *	NC	3.69E+05 *	NC	2.70E+09 *	NC	1.85E+05 *	NC	1.21E+08 #	NC	1.49E+03 #	NC
Carbaryl	1.93E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.77E+04 *	NC	2.32E+04 *	NC	1.00E+06 #	NC	6.36E+02 #	NC
Carbofuran	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	1.04E+08 *	NC	7.13E+03 *	NC	1.05E+07 #	NC	3.90E+01 #	NC
Carboxin	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	2.52E+04 *	NC	2.14E+04 *	NC	8.29E+03 #	NC	2.89E+02 #	NC
Chloramben	2.63E-01	NC	4.30E+04 *	NC	4.26E+04 *	NC	3.11E+08 *	NC	2.14E+04 *	NC	1.96E+07 #	NC	8.09E+01	NC
Chlordane (technical)	3.50E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	3.07E+03 *	NC	5.79E+02 *	NC	6.35E+04 #	NC	3.40E-02	NC
Chlordane, gamma	3.50E-03	NC	3.58E+03 *	NC	1.42E+03 *	NC	2.43E+03 *	NC	7.17E+02 *	NC	1.29E+04 #	NC	1.27E-01 #	NC
Chlorothalonil	2.63E-01	NC	1.08E+05 *	NC	4.26E+04 *	NC	3.11E+08 *	NC	3.05E+04 *	NC	1.42E+07 #	NC	1.50E+01 #	NC
Chlorpyrifos	5.26E-02	NC	8.60E+03 *	NC	8.52E+03 *	NC	6.22E+07 *	NC	4.28E+03 *	NC	2.62E+06 #	NC	1.63E+00 #	NC
Coumaphos	1.23E-01	NC	2.01E+04 *	NC	1.99E+04 *	NC	1.45E+08 *	NC	9.99E+03 *	NC	1.64E+07 #	NC	7.71E+00 #	NC
Cyanazine	1.46E-02	C	2.39E+03 *	C	2.37E+03 *	C	2.10E+02	C	1.78E+02	C	7.78E+01	C	1.80E+01	C
Dacthal	1.75E-01	NC	2.87E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.43E+04 *	NC	7.40E+01 #	NC	4.46E+00 #	NC
Dalapon, sodium salt	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	1.36E+04 *	NC	1.03E+04 *	NC	3.80E+07 #	NC	4.01E+02	NC
DDD	5.11E-02	C	8.36E+03 *	C	8.28E+03 *	C	6.05E+07 *	C	4.16E+03 *	C	3.89E+06 #	C	2.45E-01 #	C

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
DDE	3.61E-02	C	5.90E+03 *	C	5.84E+03 *	C	2.43E+05 *	C	2.90E+03	C	1.04E+06 #	C	1.97E-01 #	C
DDT	8.76E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	1.04E+07 *	NC	7.13E+02 *	NC	5.11E+05 #	NC	2.55E-02 #	NC
DEF	5.26E-04	NC	2.87E+02	NC	8.52E+01	NC	6.22E+05 *	NC	6.57E+01	NC	5.54E+04 #	NC	2.81E-03	NC
Demeton	7.01E-04	NC	1.15E+03	NC	1.14E+03	NC	1.01E+01	NC	9.90E+00	NC	1.25E+03 #	NC	1.45E+00	NC
Diazinon	1.58E-02	NC	2.58E+03 *	NC	2.56E+03 *	NC	1.87E+07 *	NC	1.28E+03 *	NC	2.03E+06 #	NC	1.19E+00	NC
Dicamba	5.26E-01	NC	8.60E+04 *	NC	8.52E+04 *	NC	6.22E+08 *	NC	4.28E+04 *	NC	5.08E+07 #	NC	2.98E+02	NC
2,4-Dichlorophenoxy acetic acid (2,4-D)	1.75E-01	NC	2.87E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.43E+04 *	NC	1.73E+07 #	NC	4.82E+01	NC
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	1.40E-01	NC	5.74E+04 *	NC	2.27E+04 *	NC	1.66E+08 *	NC	1.63E+04 *	NC	1.48E+07 #	NC	7.88E+00	NC
Dichloroprop (2,4-DP)	1.75E-01	NC	5.74E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.90E+04 *	NC	1.75E+07 #	NC	1.99E+01	NC
Dieldrin	7.64E-04	C	1.25E+02 *	C	1.24E+02 *	C	4.37E+02 *	C	5.46E+01 *	C	3.26E+04 #	C	3.71E-02	C
Dimethoate	3.50E-03	NC	5.74E+02	NC	5.68E+02	NC	4.15E+06 *	NC	2.85E+02	NC	2.84E+05 #	NC	3.59E+01	NC
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.07E+07 *	NC	1.43E+03 *	NC	1.66E+06 #	NC	1.11E+00	NC
Diquat	3.86E-02	NC	6.31E+03	NC	6.25E+03	NC	4.56E+07 *	NC	3.14E+03	NC	1.11E+07 #	NC	9.67E+04 #	NC
Disulfoton	7.01E-04	NC	1.15E+02 *	NC	1.14E+02 *	NC	8.30E+05 *	NC	5.71E+01 *	NC	1.77E+04 #	NC	4.24E-02	NC
Diuron	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	4.15E+07 *	NC	2.85E+03 *	NC	1.70E+06 #	NC	9.66E+00	NC
Endosulfan	1.05E-01	NC	1.72E+04 *	NC	1.70E+04 *	NC	2.18E+04 *	NC	6.14E+03 *	NC	5.83E+06 #	NC	1.83E+01 #	NC
Endothall	3.50E-01	NC	5.74E+04	NC	5.68E+04	NC	2.36E+04	NC	1.29E+04	NC	2.39E+09 #	NC	2.30E+02	NC
Endrin	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	6.22E+06 *	NC	4.28E+02 *	NC	3.42E+05 #	NC	2.54E-01 #	NC
Endrin aldehyde	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	4.34E+03 *	NC	3.90E+02 *	NC	6.33E+03 #	NC	1.75E-02 #	NC
Endrin Ketone	5.01E-04	NC	8.60E+02	NC	8.52E+02	NC	5.93E+05 *	NC	4.28E+02	NC	5.40E+04 #	NC	7.74E-02	NC
Eptam	4.38E-01	NC	NA	--	7.10E+04 *	NC	6.30E+03 *	NC	5.79E+03 *	NC	9.40E+05 #	NC	5.29E+01	NC
Ethoprop	1.75E-03	NC	2.87E+02	NC	2.84E+02	NC	2.07E+06 *	NC	1.43E+02	NC	1.91E+05 #	NC	2.52E-01	NC
Fenamiphos	4.38E-03	NC	7.17E+02 *	NC	7.10E+02 *	NC	5.18E+06 *	NC	3.57E+02	NC	5.81E+05 #	NC	NA	--
Fenthion	1.23E-03	NC	2.01E+02 *	NC	1.99E+02 *	NC	1.45E+06 *	NC	9.99E+01	NC	1.19E+05 #	NC	2.57E-01	NC
Fluometuron	2.28E-01	NC	3.73E+04 *	NC	3.69E+04 *	NC	2.70E+08 *	NC	1.85E+04 *	NC	2.60E+07 #	NC	NA	--
Fonofos	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	4.15E+07 *	NC	2.85E+03 *	NC	1.17E+06 #	NC	1.40E+00	NC
alpha-Hexachlorocyclohexane	1.95E-03	C	3.19E+02 *	C	3.15E+02 *	C	2.65E+02 *	C	9.92E+01 *	C	8.05E+04 #	C	7.36E-02	C
beta-Hexachlorocyclohexane	3.50E-03	NC	5.74E+02 *	NC	5.68E+02 *	NC	4.15E+06 *	NC	2.85E+02 *	NC	2.86E+05 #	NC	1.28E-01	NC
delta-Hexachlorocyclohexane	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	6.22E+06 *	NC	4.28E+02	NC	4.68E+05 #	NC	2.86E-01	NC
gamma-Hexachlorocyclohexane	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	6.18E+02 *	NC	2.53E+02 *	NC	1.86E+05 #	NC	4.41E-01	NC
Glyphosate	1.75E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	5.60E+05 *	NC	1.14E+05	NC	1.05E+14 #	NC	2.07E+05 #	NC
Guthion	2.63E-02	NC	4.30E+03 *	NC	4.26E+03 *	NC	3.11E+07 *	NC	2.14E+03 *	NC	3.48E+06 #	NC	1.69E+01 #	NC
Heptachlor	2.70E-03	C	4.46E+02	C	4.42E+02	C	5.08E+01	C	4.13E+01	C	9.65E+00 #	C	1.93E-01 #	C
Heptachlor epoxide	2.28E-04	NC	3.73E+01	NC	3.69E+01	NC	2.70E+05 *	NC	1.85E+01	NC	1.32E+04 #	NC	6.52E-03	NC
Hexazinone	5.78E-01	NC	9.46E+04 *	NC	9.37E+04 *	NC	6.84E+08 *	NC	4.71E+04 *	NC	1.08E+08 #	NC	3.98E+02	NC
Malathion	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	4.15E+08 *	NC	2.85E+04 *	NC	5.13E+07 #	NC	3.46E+02 #	NC
Maleic hydrazide	8.76E+00	NC	1.43E+06 *	NC	1.42E+06 *	NC	3.23E+05 *	NC	2.22E+05 *	NC	5.19E+08 #	NC	2.40E+05 #	NC
Maneb	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	1.04E+08 *	NC	7.13E+03 *	NC	8.59E+06 #	NC	NA	--
Methomyl	4.38E-01	NC	7.17E+04 *	NC	7.10E+04 *	NC	1.31E+04	NC	9.56E+03	NC	2.84E+07 #	NC	1.72E+03	NC
Methoxychlor	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	9.79E+04 *	NC	6.65E+03 *	NC	3.14E+06 #	NC	6.23E-01 #	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION										GROUNDWATER					
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	8.76E-03	NC	1.43E+03 *	NC	1.42E+03 *	NC	1.04E+07 *	NC	7.13E+02	NC	8.31E+05 #	NC	6.53E-01	NC
MCPP	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.07E+07 *	NC	1.43E+03 *	NC	1.76E+06 #	NC	2.13E+00	NC
Metolachlor	2.63E+00	NC	4.30E+05 *	NC	4.26E+05 *	NC	3.11E+09 *	NC	2.14E+05 *	NC	3.32E+08 #	NC	7.31E+02 #	NC
Metribuzin	4.38E-01	NC	7.17E+04 *	NC	7.10E+04 *	NC	5.18E+08 *	NC	3.57E+04 *	NC	5.33E+07 #	NC	3.53E+03 #	NC
Mirex	6.81E-04	C	1.12E+02 *	C	1.10E+02 *	C	2.45E+01	C	1.70E+01	C	6.35E+02 #	C	NA	--
Naled	3.50E-02	NC	5.74E+03 *	NC	5.68E+03 *	NC	4.15E+07 *	NC	2.85E+03 *	NC	2.83E+06 #	NC	1.44E+02	NC
o,o,o-Triethylphosphorothioate	1.45E-04	NC	NA	--	2.36E+01	NC	2.09E+00	NC	1.92E+00	NC	9.07E+01	NC	3.37E-02	NC
Oxamyl	4.38E-01	NC	7.17E+04 *	NC	7.10E+04 *	NC	5.18E+08 *	NC	3.57E+04	NC	4.93E+07 #	NC	3.97E+04	NC
Paraquat	7.89E-02	NC	1.29E+04	NC	1.28E+04	NC	9.33E+07 *	NC	6.42E+03	NC	1.43E+07 #	NC	1.39E+06 #	NC
ethyl-Parathion	1.05E-01	NC	1.72E+04 *	NC	1.70E+04 *	NC	1.24E+08 *	NC	8.56E+03 *	NC	1.07E+07 #	NC	7.47E+00	NC
methyl-Parathion	4.38E-03	NC	7.17E+02	NC	7.10E+02	NC	5.18E+06 *	NC	3.57E+02	NC	3.36E+05 #	NC	1.33E+00	NC
Pendimethalin	7.01E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	8.30E+08 *	NC	5.71E+04 *	NC	6.42E+07 #	NC	4.77E+00 #	NC
Phenylmercuric acetate	1.40E-03	NC	2.29E+02	NC	2.27E+02	NC	1.66E+06 *	NC	1.14E+02	NC	1.13E+05 #	NC	1.23E+01	NC
Phorate	3.50E-03	NC	5.74E+02 *	NC	5.68E+02 *	NC	4.15E+06 *	NC	2.85E+02 *	NC	6.79E+04 #	NC	4.05E-01	NC
Picloram	1.23E+00	NC	2.01E+05 *	NC	1.99E+05 *	NC	1.76E+04 *	NC	1.50E+04 *	NC	3.31E+02	NC	2.38E+02	NC
Prometon	2.63E-01	NC	4.30E+04 *	NC	4.26E+04 *	NC	3.11E+08 *	NC	2.14E+04 *	NC	3.07E+07 #	NC	5.03E+01	NC
Pronamide	1.31E+00	NC	2.15E+05 *	NC	2.13E+05 *	NC	1.56E+09 *	NC	1.07E+05 *	NC	5.17E+07 #	NC	1.08E+02 #	NC
Propachlor	2.28E-01	NC	3.73E+04 *	NC	3.69E+04 *	NC	2.70E+08 *	NC	1.85E+04 *	NC	1.73E+07 #	NC	NA	--
Propanil	8.76E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	1.04E+08 *	NC	7.13E+03 *	NC	8.58E+06 #	NC	1.39E+01	NC
Propazine	2.73E-01	C	4.46E+04 *	C	4.42E+04 *	C	3.23E+08 *	C	2.22E+04 *	C	3.09E+07 #	C	3.06E+01 #	C
Propham	3.50E-01	NC	5.74E+04 *	NC	5.68E+04 *	NC	2.24E+04 *	NC	1.25E+04 *	NC	3.54E+07 #	NC	6.82E+01 #	NC
Silvex (2,4,5-TP)	1.40E-01	NC	2.29E+04 *	NC	2.27E+04 *	NC	1.66E+08 *	NC	1.14E+04 *	NC	1.56E+07 #	NC	1.08E+01	NC
Simazine	3.50E-02	NC	1.43E+04 *	NC	1.42E+04 *	NC	4.15E+07 *	NC	7.13E+03 *	NC	3.55E+06 #	NC	2.05E+01 #	NC
Strychnine	5.26E-03	NC	8.60E+02 *	NC	8.52E+02 *	NC	6.22E+06 *	NC	4.28E+02 *	NC	2.12E+06 #	NC	1.04E+01	NC
Tebuthiuron	1.23E+00	NC	2.01E+05 *	NC	1.99E+05 *	NC	1.45E+09 *	NC	9.99E+04 *	NC	1.60E+08 #	NC	1.25E+03	NC
Terbacil	2.28E-01	NC	3.73E+04 *	NC	3.69E+04 *	NC	2.70E+08 *	NC	1.85E+04 *	NC	2.23E+07 #	NC	NA	--
Terbufos	4.38E-04	NC	7.17E+01 *	NC	7.10E+01 *	NC	2.24E+01 *	NC	1.38E+01	NC	4.77E+03 #	NC	1.78E-02	NC
Terbutryn	1.75E-02	NC	2.87E+03 *	NC	2.84E+03 *	NC	2.07E+07 *	NC	1.43E+03 *	NC	1.86E+06 #	NC	1.01E+00	NC
Toxaphene	1.10E-02	C	1.82E+03 *	C	1.81E+03 *	C	1.30E+07 *	C	9.08E+02	C	8.65E+05 #	C	4.36E-01	C
Triallate	2.28E-01	NC	3.73E+04 *	NC	3.69E+04 *	NC	2.25E+04 *	NC	1.02E+04 *	NC	2.79E+06 #	NC	5.88E+00 #	NC
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1.75E-01	NC	2.87E+04 *	NC	2.84E+04 *	NC	2.07E+08 *	NC	1.43E+04 *	NC	1.41E+07 #	NC	2.27E+01	NC
Trifluralin	1.31E-01	NC	2.15E+04 *	NC	2.13E+04 *	NC	4.57E+04 *	NC	8.67E+03 *	NC	3.23E+06 #	NC	1.42E+00	NC
Warfarin	5.01E-04	NC	8.60E+02 *	NC	8.52E+02 *	NC	5.93E+05 *	NC	4.28E+02 *	NC	7.36E+04 #	NC	1.09E+00	NC
Metals			-										-	
Aluminum	2.50E-02	NC	2.87E+07	NC	2.84E+06	NC	2.96E+07	NC	2.38E+06	NC	NA	--	8.60E+04	NC
Antimony	2.50E-04	NC	1.15E+04	NC	1.14E+03	NC	2.96E+05	NC	1.03E+03	NC	NA	--	3.44E+01	NC
Arsenic	1.51E-04	NC	2.87E+03	NC	8.52E+02	NC	1.78E+05	NC	6.54E+02	NC	NA	--	2.58E+01	NC
Barium	2.45E-03	NC	5.74E+06	NC	5.68E+05	NC	2.90E+06	NC	4.39E+05	NC	NA	--	1.72E+04	NC
Beryllium	1.00E-04	NC	2.39E+03	C	2.36E+02	C	1.18E+05	NC	2.15E+02	C	NA	--	7.17E+00	C
Cadmium	1.95E-03	C	2.87E+05	NC	2.84E+03	NC	2.30E+06	C	2.81E+03	NC	NA	--	8.60E+01	NC
Chromium (III) total chromium	5.08E-04	NC	4.30E+07	NC	4.26E+06	NC	6.01E+05	NC	5.21E+05	NC	NA	--	1.29E+05	NC

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

*: Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-10
Tier 1 Risk-Based Target Levels
Construction Worker
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SOIL UPTO DEPTH OF CONSTRUCTION								GROUNDWATER			
	Outdoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Outdoor Inhalation of Vapor Emissions	C/NC	Dermal Contact	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/L]			
Chromium (VI)	4.03E-05	NC	4.78E+02	C	4.73E+01	C	4.77E+04	NC	4.30E+01	C	NA	--	7.17E-01	C
Copper	5.01E-03	NC	1.15E+06	NC	1.14E+05	NC	5.93E+06	NC	1.02E+05	NC	NA	--	3.44E+03	NC
Lead	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Manganese	2.51E-04	NC	4.01E+06	NC	3.97E+05	NC	2.97E+05	NC	1.63E+05	NC	NA	--	1.20E+04	NC
Mercury	1.50E-03	NC	NA	--	NA	--	2.16E+01 *	NC	2.16E+01 *	NC	1.75E+02 #	NC	NA	--
Molybdenum	2.50E-02	NC	1.43E+05	NC	1.42E+04	NC	2.96E+07	NC	1.29E+04	NC	NA	--	4.30E+02	NC
Nickel	4.51E-04	NC	5.74E+05	NC	5.68E+04	NC	5.33E+05	NC	4.71E+04	NC	NA	--	8.60E+03	NC
Selenium	9.99E-04	NC	1.43E+05	NC	1.42E+04	NC	1.18E+06	NC	1.28E+04	NC	NA	--	4.30E+02	NC
Silver	5.01E-05	NC	1.43E+05	NC	1.42E+04	NC	5.93E+04	NC	1.06E+04	NC	NA	--	7.17E+02	NC
Strontium	NA	--	1.72E+07	NC	1.70E+06	NC	NA	--	1.55E+06	NC	NA	--	5.16E+04	NC
Thallium chloride	5.01E-04	NC	2.29E+03	NC	2.27E+02	NC	5.93E+05 *	NC	2.07E+02	NC	NA	--	6.88E+00	NC
Vanadium	2.50E-04	NC	2.01E+05	NC	1.99E+04	NC	2.96E+05	NC	1.70E+04	NC	NA	--	6.02E+02	NC
Zinc	NA	--	8.60E+06	NC	8.52E+05	NC	NA	--	7.75E+05	NC	NA	--	4.30E+04	NC
Inorganics														
Ammonia	5.01E-01	NC	NA	--	NA	--	7.21E+03	NC	7.21E+03	NC	7.61E+04	NC	NA	--
Cyanide	2.50E-02	NC	5.74E+04	NC	5.68E+04	NC	2.96E+07 *	NC	2.85E+04	NC	NA	--	1.72E+03	NC
Cyanide (as Sodium Cyanide)	NA	--	1.15E+05 *	NC	1.14E+05 *	NC	NA	--	5.71E+04	NC	NA	--	3.44E+03	NC
Cyanogen bromide	1.58E+00	NC	2.58E+05 *	NC	2.56E+05 *	NC	2.27E+04 *	NC	1.93E+04 *	NC	1.29E+05 #	NC	7.74E+03	NC
Fluoride (as Sodium Fluoride)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Perchlorate	NA	--	2.01E+03	NC	1.99E+03	NC	NA	--	9.99E+02	NC	NA	--	6.02E+01	NC
White phosphorus	5.01E-04	NC	5.74E+01 *	NC	5.68E+01 *	NC	7.20E+00	NC	5.75E+00	NC	5.07E+01 #	NC	1.72E+00	NC
Total Petroleum Hydrocarbons														
TPH-GRO														
Aliphatics - > C6-C8	9.29E+01	NC	NA	--	1.42E+07 *	NC	1.34E+06 *	NC	1.22E+06 *	NC	4.57E+04 #	NC	NA	--
Aliphatics - > C8-C10	5.08E+00	NC	NA	--	2.84E+05 *	NC	7.31E+04 *	NC	5.81E+04 *	NC	1.57E+03 #	NC	NA	--
Aromatics - >C8-C10	9.99E-01	NC	NA	--	1.14E+05 *	NC	1.44E+04 *	NC	1.27E+04 *	NC	4.15E+04 #	NC	NA	--
TPH-DRO														
Aliphatics - >C10-C12	5.08E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	7.31E+04 *	NC	4.83E+04 *	NC	1.04E+03 #	NC	NA	--
Aliphatics - >C12-C16	5.08E+00	NC	2.87E+05 *	NC	2.84E+05 *	NC	7.31E+04 *	NC	4.83E+04 *	NC	2.41E+02 #	NC	NA	--
Aliphatics - >C16-C21	NA	--	5.74E+06 *	NC	5.68E+06 *	NC	NA	--	2.85E+06 *	NC	NA	--	NA	--
Aromatics - >C10-C12	9.99E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	1.44E+04 *	NC	1.15E+04 *	NC	1.02E+05 #	NC	NA	--
Aromatics - >C12-C16	9.99E-01	NC	1.15E+05 *	NC	1.14E+05 *	NC	1.44E+04 *	NC	1.15E+04 *	NC	1.87E+05 #	NC	NA	--
Aromatics - >C16-C21	NA	--	6.62E+04 *	NC	8.52E+04 *	NC	NA	--	3.72E+04 *	NC	NA	--	NA	--
TPH-ORO														
Aliphatics - >C21-C35	NA	--	5.74E+06 *	NC	5.68E+06 *	NC	NA	--	2.85E+06 *	NC	NA	--	NA	--
Aromatics - >C21-C35	NA	--	6.62E+04 *	NC	8.52E+04 *	NC	NA	--	3.72E+04 *	NC	NA	--	NA	--

Notes:

C: Carcinogenic NC: Non-carcinogenic M: MCL NA: Not available

***:** Calculated target level exceeded saturated soil concentration. Calculated value is shown.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

#: Calculated target level exceeded water solubility. Calculated value is shown.

+: Calculated target level exceeded saturated vapor concentration. Calculated value is shown.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
VOCs and SVOCs					
Acenaphthene	1.65E-01	NC	1.74E+02	1.75E+02	1.75E+02
Acenaphthylene	1.70E-01	NC	1.75E+02	1.75E+02	1.75E+02
Acetone	2.97E+00	NC	4.20E+00	8.61E+00	1.06E+01
Acetonitrile	5.64E-02	NC	2.06E-01	2.90E-01	3.27E-01
Acrylamide	1.49E-04	C	1.31E-03	1.53E-03	1.63E-03
Acrylic acid	7.77E+00	NC	1.16E+01	2.32E+01	2.83E+01
Acrylonitrile	4.68E-04	C	6.92E-04	1.39E-03	1.70E-03
Allyl alcohol	7.78E-02	NC	4.45E-01	5.61E-01	6.12E-01
Allyl chloride	4.40E-03	NC	3.86E-02	4.52E-02	4.81E-02
Aniline	1.08E-01	NC	2.90E-01	4.51E-01	5.23E-01
Anthracene	6.96E-01	NC	3.06E+03	3.06E+03	3.06E+03
Aroclor 1016	1.96E-04	NC	5.26E+00	5.26E+00	5.27E+00
Aroclor 1221	1.13E-04	C	9.75E-02	9.77E-02	9.77E-02
Aroclor 1242	5.93E-05	C	5.57E-02	5.58E-02	5.58E-02
Aroclor 1248	3.50E-05	C	1.44E+00	1.44E+00	1.44E+00
Aroclor 1254	3.06E-05	C	2.42E+00	2.42E+00	2.42E+00
Aroclor 1260	3.35E-05	C	3.34E+01	3.34E+01	3.34E+01
Azobenzene	8.61E-04	C	6.82E+00	6.82E+00	6.82E+00
Benzene	5.00E-03	M	5.61E-02	6.30E-02	6.55E-02
Benzidine	2.88E-06	C	7.47E-02	7.47E-02	7.47E-02
Benzo(a)anthracene	1.03E-04	C	6.12E+00	6.12E+00	6.12E+00
Benzo(a)pyrene	2.00E-04	M	3.04E+01	3.04E+01	3.04E+01
Benzo(b)fluoranthene	6.27E-05	C	1.15E+01	1.15E+01	1.15E+01
Benzo(g,h,i)perylene	2.64E-02	NC	6.21E+03	6.21E+03	6.21E+03
Benzo(k)fluoranthene	6.46E-04	C	1.18E+02	1.18E+02	1.18E+02
Benzoic acid	6.00E+01	NC	8.48E+01	1.74E+02	2.14E+02
Benzyl alcohol	4.63E+00	NC	1.44E+01	2.13E+01	2.44E+01
1,1-Biphenyl	1.46E-01	NC	3.07E+01	3.10E+01	3.10E+01
Bis(2-chloroethyl)ether	1.23E-04	C	4.49E-04	6.32E-04	7.14E-04
Bis(2-chloroisopropyl)ether	3.23E-03	C	3.18E-02	3.66E-02	3.87E-02
Bis(chloromethyl)ether	6.50E-07	C	1.00E-06	1.97E-06	2.39E-06
Bis(2-ethylhexyl)phthalate	6.00E-03	M	1.35E+04	1.35E+04	1.35E+04
Bromochloromethane	5.44E-02	NC	3.05E-01	3.85E-01	4.20E-01
Bromodichloromethane	8.00E-02	M	7.87E-01	9.03E-01	9.53E-01
Bromoform	8.00E-02	M	1.15E+00	1.27E+00	1.32E+00
Bromomethane	4.67E-03	NC	1.85E-02	2.48E-02	2.71E-02
4-Bromophenyl phenyl ether	1.07E-05	C	2.72E-02	2.72E-02	2.72E-02
n-Butylbenzene	9.89E-02	NC	4.16E+01	4.18E+01	4.18E+01
sec-Butylbenzene	1.06E-01	NC	3.52E+01	3.53E+01	3.54E+01
tert-Butylbenzene	1.03E-01	NC	3.41E+01	3.42E+01	3.43E+01

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
Butyl benzyl phthalate	1.55E+00	NC	1.33E+04	1.33E+04	1.33E+04
Carbazole	2.64E-02	C	1.33E+01	1.34E+01	1.34E+01
Carbon disulfide	5.27E-01	NC	7.53E+00	7.99E+00	7.90E+00
Carbon tetrachloride	5.00E-03	M	1.67E-01	1.71E-01	1.71E-01
p-Chloroaniline	6.06E-02	NC	6.77E-01	7.67E-01	8.07E-01
Chlorobenzene	5.58E-02	NC	1.94E+00	2.02E+00	2.05E+00
Chloroethane	4.85E-02	C	2.81E-01	3.42E-01	3.60E-01
Chloroform	8.00E-02	M	6.40E-01	7.53E-01	7.98E-01
Chloromethane	1.83E-02	C	2.08E-01	2.26E-01	2.27E-01
2-Chloronaphthalene	2.33E-01	NC	5.58E+01	5.62E+01	5.63E+01
2-Chlorophenol	1.63E-02	NC	9.63E-01	9.87E-01	9.97E-01
4-Chlorophenyl phenyl ether	1.06E-05	C	2.06E-02	2.06E-02	2.06E-02
2-Chlorotoluene	6.19E-02	NC	3.88E+00	3.97E+00	4.00E+00
4-Chlorotoluene	3.10E-04	NC	2.35E-02	2.40E-02	2.41E-02
Chrysene	1.03E-02	C	6.12E+02	6.12E+02	6.12E+02
Dibenzo(a,h)anthracene	4.21E-06	C	2.38E+00	2.38E+00	2.38E+00
Dibenzofuran	5.67E-03	NC	6.56E+00	6.56E+00	6.57E+00
Dibromochloromethane	8.00E-02	M	8.70E-01	9.88E-01	1.04E+00
1,2-Dibromo-3-chloropropane	2.00E-04	M	1.10E-03	1.40E-03	1.53E-03
Dibutyl phthalate	1.08E+00	NC	5.46E+03	5.47E+03	5.47E+03
1,2-Dichlorobenzene	6.00E-01	M	5.61E+01	5.70E+01	5.74E+01
1,3-Dichlorobenzene	8.93E-02	NC	8.39E+00	8.52E+00	8.58E+00
1,4-Dichlorobenzene	7.50E-02	M	7.02E+00	7.13E+00	7.18E+00
3,3-Dichlorobenzidine	1.19E-03	C	1.30E-01	1.32E-01	1.32E-01
Dichlorodifluoromethane	2.20E-01	NC	6.67E+00	6.55E+00	6.10E+00
1,1-Dichloroethane	2.49E-02	C	1.80E-01	2.15E-01	2.27E-01
1,1-Dichloroethylene	7.00E-03	M	1.08E-01	1.15E-01	1.14E-01
cis-1,2-Dichloroethylene	7.00E-02	M	5.21E-01	6.19E-01	6.58E-01
trans-1,2-Dichloroethylene	1.00E-01	M	1.10E+00	1.23E+00	1.28E+00
2,4-Dichlorophenol	3.89E-02	NC	9.03E-01	9.61E-01	9.87E-01
1,2-Dichloropropane	5.00E-03	M	4.20E-02	4.91E-02	5.21E-02
1,3-Dichloropropene	4.31E-03	C	5.06E-02	5.55E-02	5.63E-02
Di(2-ethylhexyl)adipate	4.00E-01	M	2.26E+04	2.26E+04	2.26E+04
Diethyl phthalate	1.19E+01	NC	5.24E+02	5.41E+02	5.49E+02
Diisopropyl ether (DIPE)	3.51E-01	NC	4.12E+00	4.61E+00	4.81E+00
2,4-Dimethylphenol	2.89E-01	NC	9.37E+00	9.80E+00	9.99E+00
2,6-Dimethylphenol	9.39E-03	NC	2.25E+00	2.26E+00	2.27E+00
Dimethyl phthalate	1.54E+02	NC	1.12E+03	1.35E+03	1.45E+03
1,3-Dinitrobenzene	1.53E-03	NC	2.62E-02	2.85E-02	2.95E-02
2,4-Dinitrophenol	3.08E-02	NC	4.08E-02	8.66E-02	1.07E-01

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
2,4-Dinitrotoluene	2.09E-03	C	3.25E-02	3.56E-02	3.69E-02
2,6-Dinitrotoluene	9.64E-04	C	1.12E-02	1.26E-02	1.33E-02
4-Amino-2,6-dinitrotoluene	2.47E-03	NC	1.37E-01	1.40E-01	1.42E-01
2-Amino-4,6-dinitrotoluene	2.41E-03	NC	2.05E-01	2.09E-01	2.10E-01
Di-n-octylphthalate	2.13E-01	NC	7.58E+01	7.61E+01	7.63E+01
1,4-Dioxane	6.10E-02	C	2.35E-01	3.26E-01	3.66E-01
Diphenylamine	3.09E-01	NC	2.80E+01	2.85E+01	2.87E+01
1,2-Diphenylhydrazine	7.22E-04	C	7.20E-02	7.31E-02	7.36E-02
Ethanol	5.15E+02	NC	7.73E+02	1.54E+03	1.88E+03
Ethylbenzene	7.00E-01	M	3.99E+01	4.08E+01	4.11E+01
Ethylene dibromide (EDB)	5.00E-05	M	4.73E-04	5.47E-04	5.79E-04
Ethylene dichloride (EDC)	5.00E-03	M	2.06E-02	2.79E-02	3.11E-02
Ethylene glycol	3.13E+01	NC	6.00E+01	1.07E+02	1.27E+02
Ethylene thiourea	1.25E-03	NC	3.51E-03	5.38E-03	6.20E-03
Ethyl-tert-butyl-ether (ETBE)	1.44E-02	NC	1.06E-01	1.27E-01	1.35E-01
Fluoranthene	1.64E-01	NC	2.61E+03	2.61E+03	2.61E+03
Fluorene	1.03E-01	NC	2.11E+02	2.11E+02	2.11E+02
Formaldehyde	1.47E-02	C	2.42E-02	4.60E-02	5.57E-02
n-Hexane	8.30E-01	NC	4.15E+02	3.86E+02	3.46E+02
Hexachlorobenzene	1.00E-03	M	8.19E+00	8.19E+00	8.19E+00
Hexachlorobutadiene	2.00E-03	NC	1.60E+01	1.60E+01	1.60E+01
Hexachlorocyclopentadiene	5.00E-02	M	1.49E+03	1.49E+03	1.49E+03
Hexachloroethane	1.06E-02	NC	2.84E+00	2.85E+00	2.86E+00
Hexachlorophene	5.70E-04	NC	4.25E-01	4.26E-01	4.26E-01
HMX	7.82E-01	NC	5.34E+00	6.51E+00	7.02E+00
Indeno(1,2,3-cd)pyrene	3.82E-05	C	1.97E+01	1.97E+01	1.97E+01
Isophorone	6.86E-01	C	5.69E+00	6.71E+00	7.16E+00
Isopropylbenzene (Cumene)	3.30E-01	NC	2.85E+01	2.85E+01	2.79E+01
4-Isopropyltoluene	7.86E-01	NC	2.71E+02	2.72E+02	2.72E+02
Maleic anhydride	1.51E+00	NC	7.79E+00	1.00E+01	1.10E+01
Methanol	7.81E+00	NC	2.08E+01	3.24E+01	3.76E+01
Methyl butyl ketone	4.75E-03	NC	1.90E-02	2.61E-02	2.92E-02
Methyl ethyl ketone	3.64E+00	NC	7.30E+00	1.27E+01	1.51E+01
2-Methyl-4,6-dinitrophenol	1.51E-03	NC	2.00E-03	4.24E-03	5.24E-03
Methylene chloride	5.00E-03	M	1.76E-02	2.48E-02	2.78E-02
Methyl iodide	8.59E-03	NC	2.23E-01	2.34E-01	2.39E-01
Methyl isobutyl ketone	9.15E-01	NC	1.95E+01	2.09E+01	2.15E+01
2-Methylnaphthalene	1.17E-02	NC	7.55E+00	7.56E+00	7.57E+00
2-Methylphenol	7.43E-01	NC	1.11E+01	1.22E+01	1.27E+01
3-Methylphenol	7.42E-01	NC	4.81E+00	5.91E+00	6.40E+00

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
4-Methylphenol	7.43E-02	NC	6.40E-01	7.51E-01	8.00E-01
Methyl teriary butyl ether (MTBE)	1.28E-01	C	3.98E-01	5.87E-01	6.70E-01
Methyl-2,4,6-trinitrophenylnitramine	1.54E-01	NC	5.57E+00	5.80E+00	5.90E+00
Naphthalene	1.09E-03	C	3.25E-01	3.27E-01	3.27E-01
2-Nitroaniline	4.48E-02	NC	2.39E-01	3.05E-01	3.35E-01
3-Nitroaniline	4.57E-03	NC	3.29E-02	3.97E-02	4.27E-02
4-Nitroaniline	3.16E-02	C	9.46E-02	1.42E-01	1.63E-01
Nitrobenzene	1.81E-03	NC	1.98E-02	2.25E-02	2.37E-02
Nitroglycerin	1.07E-03	NC	1.61E-02	1.77E-02	1.84E-02
2-Nitrophenol	3.03E-02	NC	1.34E-01	1.79E-01	1.99E-01
4-Nitrophenol	3.01E-02	NC	5.39E-02	9.87E-02	1.19E-01
n-Nitrosodimethylamine	1.32E-05	C	4.09E-05	6.05E-05	6.92E-05
n-Nitrosodi-n-propylamine	9.41E-05	C	4.04E-04	5.44E-04	6.07E-04
n-Nitrosodiphenylamine	1.14E-01	C	2.20E+01	2.22E+01	2.22E+01
n-Nitrosopyrrolidine	3.19E-04	C	4.53E-04	9.27E-04	1.14E-03
2-Nitrotoluene	6.04E-04	C	1.35E-02	1.44E-02	1.48E-02
3-Nitrotoluene	6.49E-02	NC	1.44E+00	1.54E+00	1.58E+00
4-Nitrotoluene	8.18E-03	C	1.82E-01	1.94E-01	2.00E-01
Pentachlorobenzene	3.28E-03	NC	1.96E+01	1.96E+01	1.96E+01
Pentachloronitrobenzene	1.31E-03	C	5.19E+00	5.19E+00	5.19E+00
Pentachlorophenol	1.00E-03	M	8.94E-02	9.09E-02	9.16E-02
Pentaerythritol tetranitrate	5.06E+00	NC	4.74E+03	4.75E+03	4.75E+03
Phenanthrene	7.50E-02	NC	1.58E+02	1.58E+02	1.58E+02
Phenol	4.57E+00	NC	2.56E+01	3.24E+01	3.55E+01
m-Phenylenediamine	9.37E-02	NC	1.39E-01	2.79E-01	3.41E-01
Polychlorinated biphenyls (PCBs)	3.76E-05	C	2.30E+01	2.30E+01	2.30E+01
n-Propylbenzene	1.15E-01	NC	1.30E+01	1.32E+01	1.32E+01
Pyrene	9.61E-02	NC	1.50E+03	1.50E+03	1.50E+03
RDX	6.07E-03	C	6.50E-02	7.41E-02	7.81E-02
Styrene	1.00E-01	M	1.17E+01	1.19E+01	1.19E+01
1,1,1,2-Tetrachloroethane	5.27E-03	C	7.15E-02	7.91E-02	8.23E-02
1,1,2,2-Tetrachloroethane	6.89E-04	C	1.05E-02	1.15E-02	1.20E-02
1,2,4,5-Tetrachlorobenzene	2.02E-03	NC	4.84E-01	4.87E-01	4.89E-01
Tetrachloroethylene	5.00E-03	M	1.41E-01	1.46E-01	1.47E-01
Tetrahydrofuran	2.03E-02	C	3.00E-02	6.02E-02	7.35E-02
Tertiary-amyl-methyl-ether (TAME)	8.28E-02	NC	6.77E-01	7.95E-01	8.43E-01
Tertiary-butyl-alcohol (TBA)	2.86E-01	NC	5.58E-01	9.83E-01	1.17E+00
Toluene	1.00E+00	M	2.98E+01	3.11E+01	3.16E+01
1,2,4-Trichlorobenzene	7.00E-02	M	1.87E+01	1.88E+01	1.88E+01
1,3,5-Trichlorobenzene	1.60E-02	NC	1.72E+00	1.74E+00	1.75E+00

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
1,1,1-Trichloroethane	2.00E-01	M	4.24E+00	4.47E+00	4.51E+00
1,1,2-Trichloroethane	5.00E-03	M	4.48E-02	5.22E-02	5.54E-02
Trichloroethylene	5.00E-03	M	1.41E-01	1.47E-01	1.49E-01
Trichlorofluoromethane	6.98E-01	NC	3.13E+01	3.10E+01	2.96E+01
2,4,5-Trichlorophenol	1.22E+00	NC	2.93E+02	2.95E+02	2.96E+02
2,4,6-Trichlorophenol	1.10E-03	NC	6.36E-02	6.52E-02	6.59E-02
1,2,3-Trichloropropane	6.93E-05	C	6.23E-04	7.25E-04	7.70E-04
1,1,2-Trichlorotrifluoroethane	3.30E+01	NC	5.40E+03	5.10E+03	4.65E+03
1,2,4-Trimethylbenzene	7.06E-03	NC	3.93E+00	3.94E+00	3.94E+00
1,3,5-Trimethylbenzene	7.05E-03	NC	8.82E-01	8.91E-01	8.94E-01
1,3,5-Trinitrobenzene	4.64E-01	NC	1.59E+00	2.28E+00	2.59E+00
2,4,6-Trinitrotoluene (TNT)	7.63E-03	NC	3.60E-01	3.71E-01	3.76E-01
Vinyl chloride (for residential scenario)	2.00E-03	M	1.92E-02	2.10E-02	2.09E-02
Vinyl chloride (for occupational scenatio)	NA		NA	NA	NA
Xylenes (total)	1.00E+01	M	6.34E+02	6.47E+02	6.52E+02
Pesticides					
Acetochlor	3.01E-01	NC	9.36E+00	9.81E+00	1.00E+01
Acifluorfen	2.03E-01	NC	3.69E+00	3.99E+00	4.12E+00
Acrolein	2.38E-05	NC	1.06E-04	1.42E-04	1.58E-04
Alachlor	2.00E-03	M	5.95E-02	6.25E-02	6.38E-02
Aldicarb	3.00E-03	M	1.11E-02	1.56E-02	1.76E-02
Aldicarb sulfone	3.00E-03	M	5.31E-03	9.77E-03	1.18E-02
Aldrin	3.74E-05	C	1.37E+01	1.37E+01	1.37E+01
Ametryn	1.28E-01	NC	7.60E+00	7.79E+00	7.88E+00
Atrazine	3.00E-03	M	2.22E-01	2.27E-01	2.29E-01
Baygon	6.26E-02	NC	1.57E+00	1.67E+00	1.71E+00
Butylate	5.38E-01	NC	1.08E+01	1.16E+01	1.20E+01
Captan	2.83E-01	C	8.73E+00	9.15E+00	9.33E+00
Carbaryl	1.49E+00	NC	2.50E+01	2.71E+01	2.81E+01
Carbofuran	4.00E-02	M	3.39E-01	3.98E-01	4.25E-01
Carboxin	1.41E+00	NC	2.59E+02	2.53E+02	2.43E+02
Chloramben	2.21E-01	NC	6.55E+00	6.88E+00	7.03E+00
Chlordane (technical)	3.02E-04	C	5.40E+00	5.40E+00	5.40E+00
Chlordane, gamma	2.00E-03	M	1.17E+02	1.17E+02	1.17E+02
Chlorothalonil	1.59E-01	C	1.37E+02	1.37E+02	1.37E+02
Chlorpyrifos	2.93E-02	NC	8.16E+00	8.20E+00	8.22E+00
Coumaphos	8.45E-02	NC	2.01E+02	2.01E+02	2.01E+02
Cyanazine	7.87E-04	C	6.56E-02	6.27E-02	5.77E-02
Dacthal	9.03E-02	NC	6.29E+02	6.29E+02	6.29E+02
Dalapon, sodium salt	2.00E-01	M	3.33E-01	6.31E-01	7.63E-01
DDD	5.24E-04	C	7.79E+01	7.79E+01	7.80E+01

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

NA: Not available

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
DDE	4.11E-04	C	2.73E+02	2.73E+02	2.73E+02
DDT	2.42E-04	C	9.49E+01	9.49E+01	9.49E+01
DEF	1.05E-04	NC	4.92E+00	4.92E+00	4.92E+00
Demeton	5.74E-03	NC	2.38E-01	2.46E-01	2.50E-01
Diazinon	1.13E-02	NC	4.00E-01	4.17E-01	4.24E-01
Dicamba	4.54E-01	NC	8.38E+00	9.06E+00	9.36E+00
2,4-Dichlorophenoxy acetic acid (2,4-D)	7.00E-02	M	9.38E+00	9.48E+00	9.53E+00
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	9.40E-02	NC	7.54E+00	7.68E+00	7.74E+00
Dichloroprop (2,4-DP)	1.34E-01	NC	1.78E-01	3.79E-01	4.68E-01
Dieldrin	2.94E-05	C	9.36E-02	9.37E-02	9.37E-02
Dimethoate	3.12E-03	NC	1.67E-02	2.13E-02	2.34E-02
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	7.00E-03	M	1.38E-01	1.49E-01	1.54E-01
Diquat	2.00E-02	M	6.34E-01	6.64E-01	6.77E-01
Disulfoton	4.78E-04	NC	7.48E-04	1.46E-03	1.78E-03
Diuron	2.93E-02	NC	1.70E+00	1.74E+00	1.76E+00
Endosulfan	8.48E-02	NC	2.71E+01	2.72E+01	2.73E+01
Endothall	1.00E-01	M	1.96E+00	2.11E+00	2.18E+00
Endrin	2.00E-03	M	3.66E+00	3.67E+00	3.67E+00
Endrin aldehyde	7.13E-04	NC	2.27E+02	2.27E+02	2.27E+02
Endrin ketone	2.07E-03	NC	5.36E+01	5.36E+01	5.36E+01
Eptam	7.98E-02	NC	2.96E+00	3.08E+00	3.13E+00
Ethoprop	1.39E-03	NC	2.53E-01	2.55E-01	2.56E-01
Fenamiphos	3.91E-03	NC	1.98E-01	2.04E-01	2.06E-01
Fenthion	1.01E-03	NC	1.66E-01	1.68E-01	1.68E-01
Fluometuron	2.03E-01	NC	5.57E+00	5.87E+00	6.00E+00
Fonofos	2.13E-02	NC	1.14E+01	1.14E+01	1.14E+01
alpha-Hexachlorocyclohexane	6.88E-05	C	1.27E-02	1.28E-02	1.28E-02
beta-Hexachlorocyclohexane	2.38E-04	C	4.50E-02	4.53E-02	4.55E-02
delta-Hexachlorocyclohexane	2.70E-04	C	1.72E-01	1.72E-01	1.72E-01
gamma-Hexachlorocyclohexane	2.00E-04	M	3.21E-02	3.24E-02	3.26E-02
Glyphosate	7.00E-01	M	3.79E+02	3.80E+02	3.81E+02
Guthion	2.28E-02	NC	8.83E-01	9.17E-01	9.32E-01
Heptachlor	4.00E-04	M	8.41E+01	8.41E+01	8.40E+01
Heptachlor epoxide	2.00E-04	M	2.48E+00	2.48E+00	2.48E+00
Hexazinone	5.03E-01	NC	3.44E+00	4.19E+00	4.53E+00
Malathion	3.07E-01	NC	8.25E+01	8.30E+01	8.32E+01
Maleic hydrazide	7.82E+00	NC	5.86E+01	7.03E+01	7.54E+01
Maneb	7.82E-02	NC	6.51E+00	6.62E+00	6.68E+00
Methomyl	3.89E-01	NC	1.38E+00	1.96E+00	2.22E+00
Methoxychlor	4.00E-02	M	5.82E+02	5.82E+02	5.82E+02

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	6.26E-03	NC	9.12E-02	1.01E-01	1.05E-01
MCPP	1.36E-02	NC	1.80E-02	3.82E-02	4.72E-02
Metolachlor	2.20E+00	NC	2.33E+02	2.36E+02	2.38E+02
Metribuzin	3.90E-01	NC	6.03E+00	6.61E+00	6.87E+00
Mirex	3.74E-05	C	3.10E-02	3.11E-02	3.11E-02
Naled	3.11E-02	NC	6.58E-01	7.04E-01	7.25E-01
o,o,o-Triethylphosphorothioate	2.69E-05	NC	2.00E-03	2.04E-03	2.06E-03
Oxamyl	2.00E-01	M	5.03E-01	8.01E-01	9.33E-01
Paraquat	7.04E-02	NC	1.62E+02	1.62E+02	1.63E+02
ethyl-Parathion	7.44E-02	NC	6.21E+01	6.22E+01	6.22E+01
methyl-Parathion	3.69E-03	NC	2.80E+00	2.81E+00	2.81E+00
Pendimethalin	1.67E-01	NC	4.75E+03	4.75E+03	4.75E+03
Phenylmercuric acetate	1.25E-03	NC	1.41E-02	1.60E-02	1.68E-02
Phorate	2.69E-03	NC	2.69E-01	2.73E-01	2.74E-01
Picloram	9.99E-01	NC	4.15E+02	3.74E+02	3.20E+02
Prometon	2.14E-01	NC	1.70E+01	1.73E+01	1.75E+01
Pronamide	9.56E-01	NC	2.97E+01	3.12E+01	3.18E+01
Propachlor	2.03E-01	NC	8.23E+00	8.53E+00	8.67E+00
Propanil	7.00E-02	NC	9.50E+00	9.60E+00	9.65E+00
Propazine	1.26E-02	C	3.07E-01	3.26E-01	3.35E-01
Propham	2.86E-01	NC	4.16E+00	4.59E+00	4.77E+00
Silvex (2,4,5-TP)	5.00E-02	M	4.83E-01	5.57E-01	5.90E-01
Simazine	4.00E-03	M	8.75E-02	9.34E-02	9.61E-02
Strychnine	4.65E-03	NC	6.11E-02	6.80E-02	7.11E-02
Tebuthiuron	1.08E+00	NC	6.44E+00	8.04E+00	8.75E+00
Terbacil	2.03E-01	NC	1.51E+00	1.81E+00	1.95E+00
Terbufos	2.68E-04	NC	2.67E-02	2.71E-02	2.73E-02
Terbutryn	1.18E-02	NC	2.88E+00	2.90E+00	2.90E+00
Toxaphene	3.00E-03	M	1.15E+02	1.15E+02	1.15E+02
Triallate	1.18E-01	NC	3.95E+01	3.97E+01	3.98E+01
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1.37E-01	NC	1.26E+00	1.46E+00	1.55E+00
Trifluralin	2.98E-02	C	6.12E+01	6.13E+01	6.13E+01
Warfarin	4.31E-03	NC	5.95E-01	6.01E-01	6.04E-01
Metals					
Aluminum	1.56E+01	NC	1.37E+05	1.37E+05	1.37E+05
Antimony	6.00E-03	M	6.66E+00	6.67E+00	6.67E+00
Arsenic	1.00E-02	M	7.21E+00	7.22E+00	7.23E+00
Barium	2.00E+00	M	2.04E+03	2.04E+03	2.04E+03
Beryllium	4.00E-03	M	7.84E+01	7.84E+01	7.84E+01
Cadmium	5.00E-03	M	9.31E+00	9.32E+00	9.32E+00
Chromium (III) total chromium	1.00E-01	M	4.47E+06	4.47E+06	4.47E+06

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-11
Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway

Chemicals of Concern	Groudwater Target Concentrations at Point of Exposure (mg/L)		Soil Concentrations Protective of Domestic Use of Groundwater Pathway (mg/kg)		
			Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
Chromium (VI)	3.37E-06	C	1.59E-03	1.60E-03	1.60E-03
Copper	6.24E-01	NC	6.17E+02	6.18E+02	6.19E+02
Lead	1.50E-02	M	3.74E+00	3.76E+00	3.77E+00
Manganese	2.19E+00	NC	2.72E+03	2.72E+03	2.72E+03
Mercury	NA	--	NA	NA	NA
Molybdenum	7.80E-02	NC	3.87E+01	3.88E+01	3.89E+01
Nickel	3.13E-01	NC	5.05E+02	5.05E+02	5.05E+02
Selenium	5.00E-02	M	6.27E+00	6.34E+00	6.38E+00
Silver	7.81E-02	NC	1.62E+01	1.63E+01	1.64E+01
Strontium	9.37E+00	NC	4.77E+02	4.91E+02	4.97E+02
Thallium chloride	1.25E-03	NC	2.20E+00	2.20E+00	2.20E+00
Vanadium	1.09E-01	NC	2.71E+03	2.71E+03	2.71E+03
Zinc	4.69E+00	NC	7.22E+03	7.22E+03	7.23E+03
Inorganics					
Ammonia	1.19E-01	NC	2.21E-01	3.98E-01	4.76E-01
Cyanide	3.12E-01	NC	7.71E+01	7.76E+01	7.78E+01
Cyanide (as Sodium Cyanide)	2.00E-01	M	2.65E-01	5.62E-01	6.95E-01
Cyanogen bromide	2.97E-01	NC	1.84E+00	2.25E+00	2.41E+00
Fluoride (as Sodium Fluoride)	4.00E+00	M	5.29E+00	1.12E+01	1.39E+01
Perchlorate	1.09E-02	NC	1.45E-02	3.07E-02	3.80E-02
White phosphorus	8.64E-05	NC	1.46E-02	1.47E-02	1.47E-02
Total Petroleum Hydrocarbons					
TPH-GRO					
Aliphatics - > C6-C8	1.73E+01	NC	1.45E+04	1.41E+04	1.36E+04
Aliphatics - > C8-C10	6.83E-01	NC	3.48E+03	3.46E+03	3.42E+03
Aromatics - >C8-C10	1.72E-01	NC	4.12E+01	4.14E+01	4.15E+01
TPH-DRO					
Aliphatics - >C10-C12	6.83E-01	NC	2.59E+04	2.59E+04	2.58E+04
Aliphatics - >C12-C16	1.56E+00	NC	1.17E+06	1.17E+06	1.17E+06
Aliphatics - >C16-C21	3.13E+01	NC	2.94E+09	2.94E+09	2.94E+09
Aromatics - >C10-C12	1.72E-01	NC	6.49E+01	6.51E+01	6.52E+01
Aromatics - >C12-C16	1.72E-01	NC	1.29E+02	1.29E+02	1.29E+02
Aromatics - >C16-C21	4.69E-01	NC	1.11E+03	1.11E+03	1.11E+03
TPH-ORO					
Aliphatics - >C21-C35	3.13E+01	NC	2.94E+09	2.94E+09	2.94E+09
Aromatics - >C21-C35	4.69E-01	NC	8.79E+03	8.79E+03	8.79E+03

Notes:

M: Maximum contaminant level (MCL)

C: Value was calculated based on carcinogenic effect.

NC: Value was calculated based on non-carcinogenic effect.

For chemicals without EPA standard method for analysis or for chemicals without PQL listed, refer to Table B-12.

Table B-12
Chemicals without EPA Standard Method for Analysis and Chemicals without Practical Quantitation Limit Listed

Chemicals without EPA Standard Method for Analysis	
Soil Matrix	**Groundwater Matrix**
1,1-Biphenyl	1,1-Biphenyl
Bis(2-chloromethyl) ether	Bis(2-chloromethyl) ether
Fluorotrichloromethane	Fluorotrichloromethane
Hexane	Hexane
Methanol	Methyl bromide
Methyl bromide	Methyl chloride
Methyl chloride	Methyl butyl ketone
Methyl butyl ketone	Acrylic acid
Acrylic acid	Bis(chloromethyl)ether
Bis(chloromethyl)ether	Carbazole
Carbazole	Di(2-ethylhexyl)adipate
Di(2-ethylhexyl)adipate	Ethylene thiourea
Ethylene thiourea	Freon 113
Freon 113	Maleic anhydride
Maleic anhydride	Methyl-2,4,6-trinitrophenylnitramine
Methyl-2,4,6-trinitrophenylnitramine	m-Phenylenediamine
m-Phenylenediamine	Pentaerythritol tetranitrate
Pentaerythritol tetranitrate	Acetochlor
Acetochlor	Ametryn
Alachlor	Carboxin
Aldicarb	Dacthal
Aldicarb sulfone	DEF
Ametryn	Diquat
Atrazine	Endothall
Butylate	Eptam
Carboxin	Fenamiphos
Cyanazine	Guthion
Dacthal	Hexazinon
DEF	Maneb
Diquat	Mirex
Endothall	Paraquat
Eptam	Phenylmercuric acetate
Fenamiphos	Prometon
Glyphosate	Propanil
Guthion	Propazine
Hexazinon	Terbacil
Maneb	Terbutryn
Methomyl	Triallate
Metolachlor	Warfarin
Metribuzin	
Mirex	
Oxamyl	
Paraquat	
Pendimethalin	
Phenylmercuric Acetate	
Prometon	
Propachlor	
Propanil	
Propazine	
Simazine	
Terbacil	
Terbutryn	
Triallate	
Warfarin	

Table B-12
Chemicals without EPA Standard Method for Analysis and Chemicals without Practical Quantitation Limit Listed

Chemicals without Pratical Quantifitation Limit Listed	
Soil Matrix	**Groundwater Matrix**
Acrylamide	Ethylene glycol
1,3-Dinitrobenzene	Acifluorfen
Ethylene glycol	Chlorothalonil
4-Nitroaniline	Floumeturon
Nitroglycerin	Fonofos
n-Nitrosopyrrolidine	Propham
Pentachlorobenzene	Tebuthiron
Pentachloronitrobenzene	
Acifluorfen	
Chlorothalonil	
Floumeturon	
Fonofos	
Picloram	
Propham	
Tebuthiron	

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
VOCs and SVOCs				
Acenaphthene	83-32-9	1.80E+02	1.81E+02	1.81E+02
Acenaphthylene	208-96-8	1.63E+02	1.64E+02	1.64E+02
Acetone	67-64-1	5.71E+04	1.17E+05	1.44E+05
Acetonitrile	75-05-8	1.47E+05	2.07E+05	2.34E+05
Acrylamide	79-06-1	2.26E+05	2.65E+05	2.82E+05
Acrylic acid	79-10-7	6.01E+04	1.20E+05	1.47E+05
Acrylonitrile	107-13-1	4.44E+03	8.90E+03	1.09E+04
Allyl alcohol	107-18-6	7.30E+04	9.20E+04	1.00E+05
Allyl chloride	107-05-1	3.53E+05	4.13E+05	4.40E+05
Aniline	62-53-3	3.89E+03	6.05E+03	7.01E+03
Anthracene	120-12-7	7.68E+00	7.69E+00	7.69E+00
Aroclor 1016	12674-11-2	4.54E+02	4.54E+02	4.54E+02
Aroclor 1221	11104-28-2	2.06E+01	2.06E+01	2.06E+01
Aroclor 1242	53469-21-9	1.29E+01	1.29E+01	1.29E+01
Aroclor 1248	12672-29-6	9.97E+01	9.97E+01	9.97E+01
Aroclor 1254	11097-69-1	1.81E+02	1.81E+02	1.81E+02
Aroclor 1260	11096-82-5	3.22E+03	3.22E+03	3.22E+03
Azobenzene	103-33-3	5.11E+02	5.11E+02	5.11E+02
Benzene	71-43-2	7.92E+02	8.89E+02	9.25E+02
Benzidine	92-87-5	3.36E+05	3.36E+05	3.36E+05
Benzo(a)anthracene	56-55-3	2.24E+01	2.24E+01	2.24E+01
Benzo(a)pyrene	50-32-8	9.91E+00	9.91E+00	9.91E+00
Benzo(b)fluoranthene	205-99-2	1.11E+01	1.11E+01	1.11E+01
Benzo(g,h,i)perylene	191-24-2	2.46E+00	2.46E+00	2.46E+00
Benzo(k)fluoranthene	207-08-9	5.91E+00	5.91E+00	5.91E+00
Benzoic acid	65-85-0	1.99E+02	4.09E+02	5.03E+02
Benzyl alcohol	100-51-6	5.02E+03	7.42E+03	8.48E+03
1,1-Biphenyl	92-52-4	5.87E+01	5.91E+01	5.93E+01
Bis(2-chloroethyl) ether	111-44-4	2.52E+03	3.55E+03	4.01E+03
Bis(2-chloroisopropyl)ether	108-60-1	6.74E+02	7.75E+02	8.21E+02
Bis(chloromethyl)ether	542-88-1	1.37E+03	2.69E+03	3.27E+03
Bis(2-ethylhexyl)phthalate	117-81-7	3.08E+04	3.08E+04	3.08E+04
Bromochloromethane	74-97-5	5.42E+03	6.85E+03	7.46E+03
Bromodichloromethane	75-27-4	2.67E+03	3.07E+03	3.24E+03
Bromoform	75-25-2	1.80E+03	1.98E+03	2.06E+03
Bromomethane	74-83-9	2.39E+03	3.21E+03	3.51E+03
4-Bromophenyl phenyl ether	101-55-3	1.48E+02	1.48E+02	1.48E+02
n-Butylbenzene	104-51-8	2.37E+02	2.38E+02	2.38E+02
sec-Butylbenzene	135-98-8	2.28E+02	2.29E+02	2.29E+02
tert-Butylbenzene	98-06-6	4.01E+02	4.02E+02	4.03E+02

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
Butyl benzyl phthalate	85-68-7	9.28E+02	9.28E+02	9.28E+02
Carbazole	86-74-8	1.53E+02	1.53E+02	1.53E+02
Carbon disulfide	75-15-0	6.85E+02	7.27E+02	7.20E+02
Carbon tetrachloride	56-23-5	1.07E+03	1.10E+03	1.09E+03
p-Chloroaniline	106-47-8	2.38E+03	2.70E+03	2.84E+03
Chlorobenzene	108-90-7	6.60E+02	6.87E+02	6.97E+02
Chloroethane	75-00-3	1.33E+03	1.62E+03	1.70E+03
Chloroform	67-66-3	2.55E+03	3.01E+03	3.18E+03
Chloromethane	74-87-3	3.77E+03	4.10E+03	4.10E+03
2-Chloronaphthalene	91-58-7	1.16E+02	1.17E+02	1.17E+02
2-Chlorophenol	95-57-8	5.25E+04	5.38E+04	5.43E+04
4-Chlorophenyl phenyl ether	7005-72-3	1.12E+02	1.13E+02	1.13E+02
2-Chlorotoluene	95-49-8	3.89E+02	3.98E+02	4.01E+02
4-Chlorotoluene	106-43-4	3.60E+02	3.66E+02	3.69E+02
Chrysene	218-01-9	3.82E+00	3.82E+00	3.82E+00
Dibenzo(a,h)anthracene	53-70-3	5.68E+01	5.68E+01	5.68E+01
Dibenzofuran	132-64-9	1.97E+02	1.97E+02	1.97E+02
Dibromochloromethane	124-48-1	1.14E+03	1.29E+03	1.36E+03
1,2-Dibromo-3-chloropropane	96-12-8	2.74E+02	3.47E+02	3.80E+02
Dibutyl phthalate	84-74-2	2.28E+03	2.28E+03	2.28E+03
1,2-Dichlorobenzene	95-50-1	5.88E+02	5.97E+02	6.01E+02
1,3-Dichlorobenzene	541-73-1	6.06E+02	6.16E+02	6.20E+02
1,4-Dichlorobenzene	106-46-7	2.79E+02	2.83E+02	2.85E+02
3,3-Dichlorobenzidine	91-94-1	1.37E+01	1.39E+01	1.39E+01
Dichlorodifluoromethane	75-71-8	3.42E+02	3.36E+02	3.13E+02
1,1-Dichloroethane	75-34-3	1.49E+03	1.77E+03	1.87E+03
1,1-Dichloroethylene	75-35-4	1.40E+03	1.48E+03	1.48E+03
cis-1,2-Dichloroethylene	156-59-2	1.05E+03	1.25E+03	1.33E+03
trans-1,2-Dichloroethylene	156-60-5	2.81E+03	3.13E+03	3.24E+03
2,4-Dichlorophenol	120-83-2	4.21E+03	4.48E+03	4.60E+03
1,2-Dichloropropane	78-87-5	9.48E+02	1.11E+03	1.18E+03
1,3-Dichloropropene	542-75-6	1.32E+03	1.45E+03	1.47E+03
Di(2-ethylhexyl)adipate	103-23-1	3.90E+00	3.90E+00	3.90E+00
Diethyl phthalate	84-66-2	1.92E+03	1.99E+03	2.02E+03
Diisopropyl ether (DIPE)	108-20-3	1.26E+03	1.42E+03	1.48E+03
2,4-Dimethylphenol	105-67-9	1.03E+04	1.08E+04	1.10E+04
2,6-Dimethylphenol	576-26-1	5.84E+04	5.88E+04	5.89E+04
Dimethyl phthalate	131-11-3	1.17E+03	1.41E+03	1.52E+03
1,3-Dinitrobenzene	99-65-0	3.67E+01	3.99E+01	4.14E+01
2,4-Dinitrophenol	51-28-5	1.49E+02	3.16E+02	3.91E+02

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
2,4-Dinitrotoluene	121-14-2	1.69E+02	1.85E+02	1.93E+02
2,6-Dinitrotoluene	606-20-2	8.53E+01	9.62E+01	1.01E+02
4-Amino-2,6-dinitrotoluene	19406-51-0	8.12E+01	8.34E+01	8.43E+01
2-Amino-4,6-dinitrotoluene	35572-78-2	5.93E+01	6.03E+01	6.08E+01
Di-n-octylphthalate	117-84-0	2.87E-01	2.88E-01	2.89E-01
1,4-Dioxane	123-91-1	1.55E+05	2.15E+05	2.42E+05
Diphenylamine	122-39-4	1.94E+02	1.97E+02	1.98E+02
1,2-Diphenylhydrazine	122-66-7	7.39E+03	7.50E+03	7.55E+03
Ethanol	64-17-5	1.79E+04	3.57E+04	4.36E+04
Ethylbenzene	100-41-4	3.88E+02	3.97E+02	4.00E+02
Ethylene dibromide (EDB)	106-93-4	1.65E+03	1.90E+03	2.02E+03
Ethylene dichloride (EDC)	107-06-2	1.41E+03	1.92E+03	2.13E+03
Ethylene glycol	107-21-1	7.73E+04	1.37E+05	1.64E+05
Ethylene thiourea	96-45-7	2.27E+03	3.47E+03	4.00E+03
Ethyl-tert-butyl-ether (ETBE)	637-92-3	1.49E+03	1.78E+03	1.90E+03
Fluoranthene	206-44-0	1.32E+02	1.32E+02	1.32E+02
Fluorene	86-73-7	1.64E+02	1.64E+02	1.64E+02
Formaldehyde	50-00-0	2.66E+04	5.06E+04	6.13E+04
n-Hexane	110-54-3	1.91E+02	1.78E+02	1.60E+02
Hexachlorobenzene	118-74-1	2.05E+03	2.05E+03	2.05E+03
Hexachlorobutadiene	87-68-3	1.04E+03	1.04E+03	1.04E+03
Hexachlorocyclopentadiene	77-47-4	2.16E+03	2.16E+03	2.16E+03
Hexachloroethane	67-72-1	5.38E+02	5.41E+02	5.42E+02
Hexachlorophene	70-30-4	4.21E+03	4.22E+03	4.22E+03
HMX	2691-41-0	3.85E+01	4.69E+01	5.07E+01
Indeno(1,2,3-cd)pyrene	193-39-5	4.58E-01	4.58E-01	4.58E-01
Isophorone	78-59-1	4.01E+03	4.73E+03	5.05E+03
Isopropylbenzene (Cumene)	98-82-8	2.14E+02	2.13E+02	2.09E+02
4-Isopropyltoluene	99-87-6	2.38E+02	2.39E+02	2.39E+02
Maleic anhydride	108-31-6	1.02E+03	1.31E+03	1.44E+03
Methanol	67-56-1	1.07E+05	1.67E+05	1.94E+05
Methyl butyl ketone	591-78-6	2.90E+03	3.97E+03	4.45E+03
Methyl ethyl ketone	78-93-3	1.80E+04	3.14E+04	3.73E+04
2-Methyl-4,6-dinitrophenol	534-52-1	1.61E+02	3.41E+02	4.21E+02
Methylene chloride	75-09-2	1.84E+03	2.60E+03	2.91E+03
Methyl iodide	74-88-4	1.45E+04	1.53E+04	1.56E+04
Methyl isobutyl ketone	108-10-1	1.63E+04	1.74E+04	1.80E+04
2-Methylnaphthalene	91-57-6	6.60E+02	6.61E+02	6.62E+02
2-Methylphenol	95-48-7	1.56E+04	1.72E+04	1.79E+04
3-Methylphenol	108-39-4	5.92E+03	7.29E+03	7.89E+03

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
4-Methylphenol	106-44-5	7.47E+03	8.76E+03	9.33E+03
Methyl teriary butyl ether (MTBE)	1634-04-4	6.39E+03	9.43E+03	1.08E+04
Methyl-2,4,6-trinitrophenylnitramine	479-45-8	1.09E+02	1.14E+02	1.16E+02
Naphthalene	91-20-3	3.74E+02	3.76E+02	3.76E+02
2-Nitroaniline	88-74-4	2.71E+02	3.46E+02	3.80E+02
3-Nitroaniline	99-09-2	1.32E+02	1.59E+02	1.72E+02
4-Nitroaniline	100-01-6	7.83E+01	1.17E+02	1.35E+02
Nitrobenzene	98-95-3	9.22E+02	1.05E+03	1.10E+03
Nitroglycerin	55-63-0	4.08E+04	4.48E+04	4.66E+04
2-Nitrophenol	88-75-5	3.09E+03	4.13E+03	4.59E+03
4-Nitrophenol	100-02-7	3.25E+02	5.94E+02	7.14E+02
n-Nitrosodimethylamine	62-75-9	1.25E+05	1.85E+05	2.12E+05
n-Nitrosodi-n-propylamine	621-64-7	1.71E+03	2.30E+03	2.57E+03
n-Nitrosodiphenylamine	86-30-6	2.74E+02	2.76E+02	2.77E+02
n-Nitrosopyrrolidine*	930-55-2	4.46E+04	9.14E+04	1.12E+05
2-Nitrotoluene	88-72-2	5.38E+02	5.74E+02	5.90E+02
3-Nitrotoluene	99-08-1	4.47E+02	4.77E+02	4.90E+02
4-Nitrotoluene	99-99-0	3.59E+02	3.83E+02	3.94E+02
Pentachlorobenzene	608-93-5	3.19E+02	3.19E+02	3.19E+02
Pentachloronitrobenzene	82-68-8	8.78E+01	8.78E+01	8.79E+01
Pentachlorophenol	87-86-5	7.03E+03	7.15E+03	7.20E+03
Pentaerythritol tetranitrate	78-11-5	1.01E+03	1.01E+03	1.01E+03
Phenanthrene	85-01-8	8.43E+01	8.44E+01	8.44E+01
Phenol	108-95-2	1.87E+04	2.37E+04	2.59E+04
m-Phenylenediamine	108-45-2	1.43E+04	2.85E+04	3.49E+04
Polychlorinated biphenyls (PCBs)	1336-36-3	7.97E+01	7.97E+01	7.97E+01
n-Propylbenzene	103-65-1	2.39E+02	2.42E+02	2.43E+02
Pyrene	129-00-0	8.51E+01	8.51E+01	8.51E+01
RDX	121-82-4	4.03E+02	4.59E+02	4.84E+02
Styrene	100-42-5	1.47E+03	1.48E+03	1.49E+03
1,1,1,2-Tetrachloroethane	630-20-6	6.02E+02	6.66E+02	6.92E+02
1,1,2,2-Tetrachloroethane	79-34-5	1.83E+03	2.01E+03	2.08E+03
1,2,4,5-Tetrachlorobenzene	95-94-3	2.90E+00	2.92E+00	2.92E+00
Tetrachloroethylene	127-18-4	2.27E+02	2.36E+02	2.37E+02
Tetrahydrofuran	109-99-9	5.96E+04	1.20E+05	1.46E+05
Tertiary-amyl-methyl-ether (TAME)	994-05-8	1.41E+03	1.66E+03	1.76E+03
Tertiary-butyl-alcohol (TBA)	75-65-0	1.85E+04	3.26E+04	3.89E+04
Toluene	108-88-3	6.31E+02	6.60E+02	6.70E+02
1,2,4-Trichlorobenzene	120-82-1	3.22E+03	3.24E+03	3.25E+03
1,3,5-Trichlorobenzene	108-70-3	2.60E+01	2.63E+01	2.65E+01

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
1,1,1-Trichloroethane	71-55-6	1.14E+03	1.20E+03	1.21E+03
1,1,2-Trichloroethane	79-00-5	1.60E+03	1.86E+03	1.97E+03
Trichloroethylene	79-01-6	1.25E+03	1.30E+03	1.32E+03
Trichlorofluoromethane	75-69-4	3.71E+03	3.67E+03	3.50E+03
2,4,5-Trichlorophenol	95-95-4	1.16E+04	1.17E+04	1.17E+04
2,4,6-Trichlorophenol	88-06-2	1.87E+03	1.92E+03	1.94E+03
1,2,3-Trichloropropane	96-18-4	6.34E+02	7.38E+02	7.84E+02
1,1,2-Trichlorotrifluoroethane	76-13-1	1.12E+03	1.06E+03	9.66E+02
1,2,4-Trimethylbenzene	95-63-6	1.28E+03	1.28E+03	1.28E+03
1,3,5-Trimethylbenzene	108-67-8	2.43E+02	2.45E+02	2.46E+02
1,3,5-Trinitrobenzene	99-35-4	3.84E+01	5.51E+01	6.25E+01
2,4,6-Trinitrotoluene (TNT)	118-96-7	2.47E+02	2.55E+02	2.58E+02
Vinyl chloride (for residential scenario)	75-01-4	1.07E+03	1.17E+03	1.16E+03
Vinyl chloride (for occupational scenatio)	75-01-4	1.07E+03	1.17E+03	1.16E+03
Xylenes (total)	1330-20-7	4.11E+02	4.20E+02	4.23E+02
Pesticides				
Acetochlor	34256-82-1	2.79E+02	2.93E+02	2.99E+02
Acifluorfen	62476-59-9	1.83E+05	1.98E+05	2.05E+05
Acrolein	107-02-8	3.79E+04	5.04E+04	5.60E+04
Alachlor	15972-60-8	2.88E+02	3.02E+02	3.09E+02
Aldicarb	116-06-3	9.00E+02	1.26E+03	1.42E+03
Aldicarb sulfone	1646-88-4	5.56E+02	1.02E+03	1.23E+03
Aldrin	309-00-2	2.65E+03	2.65E+03	2.65E+03
Ametryn	834-12-8	4.42E+02	4.53E+02	4.58E+02
Atrazine	1912-24-9	8.36E+01	8.53E+01	8.61E+01
Baygon	114-26-1	1.88E+03	2.00E+03	2.05E+03
Butylate	2008-41-5	3.73E+01	4.00E+01	4.12E+01
Captan	133-06-2	4.10E+00	4.29E+00	4.38E+00
Carbaryl	63-25-2	5.58E+01	6.07E+01	6.28E+01
Carbofuran	1563-66-2	1.09E+01	1.28E+01	1.37E+01
Carboxin	5234-68-4	1.48E+03	1.44E+03	1.39E+03
Chloramben	133-90-4	8.35E+02	8.77E+02	8.96E+02
Chlordane (technical)	12789-03-6	4.03E+01	4.03E+01	4.03E+01
Chlordane, gamma	57-74-9	5.38E+01	5.38E+01	5.38E+01
Chlorothalonil	1897-45-6	2.08E+01	2.09E+01	2.09E+01
Chlorpyrifos	2921-88-2	4.49E+00	4.51E+00	4.52E+00
Coumaphos	56-72-4	3.70E+01	3.70E+01	3.70E+01
Cyanazine	21725-46-2	5.71E+02	5.46E+02	5.02E+02
Dacthal	1861-32-1	6.18E+01	6.18E+01	6.18E+01
Dalapon, sodium salt	75-99-0	4.99E+02	9.45E+02	1.14E+03
DDD	72-54-8	5.40E+02	5.40E+02	5.40E+02

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
DDE	72-55-9	3.22E+03	3.22E+03	3.22E+03
DDT	50-29-3	3.95E+02	3.95E+02	3.95E+02
DEF	78-48-8	4.36E+03	4.36E+03	4.36E+03
Demeton	8065-48-3	1.20E+03	1.25E+03	1.26E+03
Diazinon	333-41-5	5.71E+01	5.95E+01	6.06E+01
Dicamba	1918-00-9	3.35E+03	3.62E+03	3.74E+03
2,4-Dichlorophenoxy acetic acid (2,4-D)	94-75-7	3.66E+03	3.70E+03	3.71E+03
4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	94-82-6	1.71E+02	1.75E+02	1.76E+02
Dichloroprop (2,4-DP)	120-36-5	1.23E+01	2.61E+01	3.22E+01
Dieldrin	60-57-1	2.50E+01	2.51E+01	2.51E+01
Dimethoate	60-51-5	5.12E+03	6.55E+03	7.19E+03
2,4-Dinitro-6-sec-butylphenol (Dinoseb)	88-85-7	4.15E+01	4.46E+01	4.60E+01
Diquat	85-00-7	9.05E+04	9.48E+04	9.67E+04
Disulfoton	298-04-4	1.03E+00	2.00E+00	2.44E+00
Diuron	330-54-1	9.80E+01	1.01E+02	1.02E+02
Endosulfan	115-29-7	6.58E+00	6.61E+00	6.62E+00
Endothall	145-73-3	7.91E+04	8.51E+04	8.78E+04
Endrin	72-20-8	1.85E+01	1.85E+01	1.85E+01
Endrin aldehyde	7421-93-4	2.16E+02	2.16E+02	2.16E+02
Endrin ketone	53494-70-5	8.97E+02	8.97E+02	8.97E+02
Eptam	759-94-4	5.53E+02	5.75E+02	5.85E+02
Ethoprop	13194-48-4	5.51E+03	5.56E+03	5.58E+03
Fenamiphos	22224-92-6	6.71E+02	6.91E+02	6.99E+02
Fenthion	55-38-9	1.45E+02	1.46E+02	1.47E+02
Fluometuron	2164-17-2	1.21E+02	1.28E+02	1.31E+02
Fonofos	944-22-9	3.45E+02	3.45E+02	3.46E+02
alpha-Hexachlorocyclohexane	319-84-6	1.49E+01	1.50E+01	1.50E+01
beta-Hexachlorocyclohexane	319-85-7	1.83E+00	1.84E+00	1.85E+00
delta-Hexachlorocyclohexane	319-86-8	8.04E+02	8.06E+02	8.07E+02
gamma-Hexachlorocyclohexane	58-89-9	4.40E+01	4.44E+01	4.46E+01
Glyphosate	1071-83-6	2.62E+05	2.63E+05	2.63E+05
Guthion	86-50-0	1.40E-01	1.46E-01	1.48E-01
Heptachlor	76-44-8	1.53E+03	1.52E+03	1.52E+03
Heptachlor epoxide	1024-57-3	9.99E+01	9.99E+01	9.99E+01
Hexazinone	51235-04-2	9.12E+03	1.11E+04	1.20E+04
Malathion	121-75-5	1.55E+03	1.56E+03	1.56E+03
Maleic hydrazide	123-33-1	1.81E+03	2.17E+03	2.33E+03
Maneb	12427-38-2	2.01E+01	2.05E+01	2.06E+01
Methomyl	16752-77-5	8.31E+03	1.18E+04	1.33E+04
Methoxychlor	72-43-5	2.64E+01	2.64E+01	2.64E+01

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	6.87E+02	7.57E+02	7.89E+02
MCPP	93-65-2	1.50E+01	3.18E+01	3.92E+01
Metolachlor	51218-45-2	2.26E+03	2.30E+03	2.31E+03
Metribuzin	21087-64-9	7.60E+02	8.34E+02	8.66E+02
Mirex	2385-85-5	1.10E+02	1.10E+02	1.10E+02
Naled	300-76-5	1.70E+03	1.82E+03	1.88E+03
o,o,o-Triethylphosphorothioate	126-68-1	2.53E+03	2.58E+03	2.60E+03
Oxamyl	23135-22-0	2.84E+04	4.52E+04	5.26E+04
Paraquat	4685-14-7	5.76E+07	5.77E+07	5.77E+07
ethyl-Parathion	56-38-2	3.95E+02	3.96E+02	3.96E+02
methyl-Parathion	298-00-0	1.13E+03	1.14E+03	1.14E+03
Pendimethalin	40487-42-1	3.14E+02	3.14E+02	3.14E+02
Phenylmercuric acetate	62-38-4	2.14E+03	2.42E+03	2.55E+03
Phorate	298-02-2	2.01E+02	2.04E+02	2.05E+02
Picloram	1918-02-1	1.44E+04	1.30E+04	1.11E+04
Prometon	1610-18-0	2.40E+03	2.45E+03	2.47E+03
Pronamide	23950-58-5	1.88E+01	1.97E+01	2.01E+01
Propachlor	1918-16-7	1.00E+03	1.04E+03	1.05E+03
Propanil	709-98-8	1.23E+03	1.24E+03	1.25E+03
Propazine	139-40-2	8.46E+00	8.97E+00	9.20E+00
Propham	122-42-9	1.88E+01	2.07E+01	2.16E+01
Silvex (2,4,5-TP)	93-72-1	5.45E+01	6.29E+01	6.66E+01
Simazine	122-34-9	5.02E+00	5.37E+00	5.52E+00
Strychnine	57-24-9	8.48E+01	9.44E+01	9.87E+01
Tebuthiuron	34014-18-1	6.03E+02	7.53E+02	8.20E+02
Terbacil	5902-51-2	2.13E+02	2.55E+02	2.74E+02
Terbufos	13071-79-9	2.04E+01	2.07E+01	2.08E+01
Terbutryn	886-50-0	2.46E+02	2.47E+02	2.48E+02
Toxaphene	8001-35-2	1.14E+03	1.14E+03	1.14E+03
Triallate	2303-17-5	5.39E+01	5.42E+01	5.43E+01
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	93-76-5	1.03E+02	1.20E+02	1.27E+02
Trifluralin	1582-09-8	6.72E+02	6.73E+02	6.73E+02
Warfarin	81-81-2	9.46E+01	9.57E+01	9.61E+01
Metals				
Aluminum	7429-90-5	NA	NA	NA
Antimony	7440-36-0	NA	NA	NA
Arsenic	7440-38-2	NA	NA	NA
Barium	7440-39-3	NA	NA	NA
Beryllium	7440-41-7	NA	NA	NA
Cadmium	7440-43-9	NA	NA	NA
Chromium (III) total chromium	7440-47-3	NA	NA	NA

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

NA: Not available

Table B-13
Saturated Soil Concentrations

Chemicals of Concern	CAS #	Saturated Soil Concentrations (mg/kg)		
		Soil Type 1 (Sandy)	Soil Type 2 (Silty)	Soil Type 3 (Clayey)
Chromium (VI)	18540-29-9	NA	NA	NA
Copper	7440-50-8	NA	NA	NA
Lead	7439-92-1	NA	NA	NA
Manganese	7439-96-5	NA	NA	NA
Mercury	7439-97-6	1.56E+00	1.57E+00	1.57E+00
Molybdenum	7439-98-7	NA	NA	NA
Nickel	7440-02-0	NA	NA	NA
Selenium	7782-49-2	NA	NA	NA
Silver	7440-22-4	NA	NA	NA
Strontium	7440-24-6	NA	NA	NA
Thallium chloride	7791-12-0	2.06E+05	2.06E+05	2.06E+05
Vanadium	7440-62-2	NA	NA	NA
Zinc	7440-66-6	NA	NA	NA
Inorganics				
Ammonia	7664-41-7	3.96E+04	7.13E+04	8.53E+04
Cyanide	57-12-5	9.95E+05	1.00E+06	1.00E+06
Cyanide (as Sodium Cyanide)	143-33-9	3.09E+04	6.57E+04	8.12E+04
Cyanogen bromide	506-68-3	2.13E+03	2.60E+03	2.78E+03
Fluoride (as Sodium Fluoride)	7681-49-4	2.13E+03	4.53E+03	5.60E+03
Perchlorate	14797-73-0	1.07E+04	2.27E+04	2.80E+04
White phosphorus	7723-14-0	2.04E+01	2.06E+01	2.06E+01
Total Petroleum Hydrocarbons				
TPH-GR0				
Aliphatics - > C6-C8	NA	1.83E+02	1.78E+02	1.71E+02
Aliphatics - > C8-C10	NA	8.84E+01	8.78E+01	8.69E+01
Aromatics - >C8-C10	NA	6.26E+02	6.29E+02	6.30E+02
TPH-DR0				
Aliphatics - >C10-C12	NA	5.20E+01	5.20E+01	5.19E+01
Aliphatics - >C12-C16	NA	2.29E+01	2.29E+01	2.29E+01
Aliphatics - >C16-C21	NA	9.47E+00	9.47E+00	9.47E+00
Aromatics - >C10-C12	NA	3.79E+02	3.80E+02	3.81E+02
Aromatics - >C12-C16	NA	1.75E+02	1.75E+02	1.75E+02
Aromatics - >C16-C21	NA	6.18E+01	6.19E+01	6.19E+01
TPH-ORO				
Aliphatics - >C21-C35	NA	9.47E+00	9.47E+00	9.47E+00
Aromatics - >C21-C35	NA	4.98E+00	4.98E+00	4.98E+00

Notes:

Soil type 1 (sandy) includes sand, loamy sand, and sandy loam.

Soil type 2 (silty) includes clay loam, silt, loam, silty clay loam, sandy clay loam, and silt loam.

Soil type 3 (clayey) includes clay, silty clay, and sandy clay.

NA: Not available