

## Appendix A

### State of New Mexico Soil Screening Levels

Table A-1 provides State of New Mexico Soil Screening Levels (SSLs), as developed by the New Mexico Environment Department (NMED) Hazardous Waste Bureau (HWB) and the Ground Water Quality Bureau Voluntary Remediation Program for 219 chemicals most commonly associated with environmental releases within the state. These NMED SSLs are derived using default exposure parameter values (as presented in Table A-2) and chemical- and State of New Mexico-specific physical parameters (as presented in Tables B-1 and B-2 of Appendix B). These default values are assumed to be appropriately conservative in the face of uncertainty and are likely to be protective for the majority of site conditions relevant to soil exposures within New Mexico.

However, the NMED SSLs are not necessarily protective of all known human exposure pathways, reasonable land uses or ecological threats. Thus, before applying NMED SSLs at a site, it is extremely important to compare the conceptual site model (CSM) with the assumptions upon which the NMED SSLs are predicated to ensure that the site conditions and exposure pathways match those used to develop the NMED SSLs. If this comparison indicates that the site at issue is more complex than the corresponding SSL scenarios, or that there are significant exposure pathways not accounted for by the NMED SSLs, then the NMED SSLs are insufficient for use in a defensible assessment of the site. A more detailed site-specific approach will be necessary to evaluate the additional pathways or site conditions.

#### TABLE A-1

Column 1:	The first column in Table A-1 presents the names of the chemicals for which NMED has developed SSLs.
Column 2:	The second column presents NMED SSLs predicated on residential soil exposures.
Column 3, 5, 7, and 10:	These columns present indicator categories for the NMED SSL residential, industrial, construction, and tap water basis, whether predicated on carcinogenic effects (ca), noncarcinogenic effects (nc), soil saturation limits (sat) or a non-risk based “max” determination. NMED SSLs predicated on a carcinogenic endpoint reflect age-adjusted child-to-adult exposures. NMED SSLs predicated on a noncarcinogenic endpoint reflect child-only exposures. Detected concentrations above the “sat” value may indicate the presence of nonaqueous phase liquid (NAPL). For certain inorganic and semivolatile organic compounds (SVOCs) that exhibit relatively low toxicity, a non risk-based maximum concentration of $10^5$ mg/kg is given when the risk-based SSL exceeds that level. These are noted as “max” in the tables.
Columns 4 and 6:	The fourth and sixth columns present NMED SSLs analogous to Column 1, with the exception that these values correspond to Industrial/Occupational and Construction worker (adult-only) exposures, respectively.

- Columns 5 and 7: The fifth and seventh columns present endpoint bases analogous to Column 3 for the Industrial/Occupational and Construction worker receptor populations, respectively. Unlike the Residential population, noncarcinogenic endpoint notes for these receptor populations are predicated on adult-only exposures.
- Column 8: Presents the tap water SSL for the residential scenario.
- Columns 10 and 11: The ninth column presents NMED SSLs for the migration to groundwater pathway developed using a default dilution attenuation factor (DAF) of 1, which assume no effective dilution or attenuation. These values can be considered at sites where little or no dilution or attenuation of soil leachate concentrations is expected (e.g., shallow water tables, karst topography). Column 10 presents NMED SSLs for the migration to groundwater pathway developed using a DAF of 20 to account for natural processes that reduce contaminant concentrations in the subsurface.

As noted above, separate NMED SSLs are presented for use in evaluating three discrete potential receptor populations: Residential, Industrial/Occupational, and Construction. Each NMED SSL considers incidental ingestion of soil, inhalation of volatiles (limited to those chemicals noted as volatile organic compounds [VOCs] within Table B-2) or particulate emissions from impacted soil, and dermal contact with soil.

Generally, if a contaminant is detected at a level in soil exceeding the most relevant NMED SSL, and the site-specific CSM is in general agreement with the underlying assumptions upon which the NMED SSLs are predicated, this result indicates the potential for adverse human health effects to occur. Conversely, if no contaminants are detected above the most relevant NMED SSL, this tends to indicate to the user that environmental conditions may not necessitate remedial action of the surface soil or the vadose zone.

A detection above a NMED SSL does not indicate that unacceptable exposures are, in fact, occurring. The NMED SSLs are predicated on relatively conservative exposure assumptions and an exceedance only tends to indicate the potential for adverse effects. The NMED SSLs do not account for additive exposures, whether for carcinogenic or noncarcinogenic endpoints. Section 5 of Part A addresses a methodology by which an environmental manager may determine whether further site-evaluation is warranted, however, this methodology does not replace the need for defensible risk assessment where indicated.

The NMED SSLs address a basic subset of exposures fundamental to the widest array of environmentally-impacted sites within the State of New Mexico. The NMED SSLs cannot address all relevant exposure pathways associated with all sites. The utility of the NMED SSLs depends heavily upon the understanding of site conditions as accurately reflected in the CSM and nature and extent of contamination determinations. Consideration of the NMED SSLs does not preclude the need for site-specific risk assessment in all instances.

**Table A-1: NMED Soil Screening Levels**  
 (Newly added chemicals are highlighted in green)

Chemical	Residential Soil (mg/kg)	End-point	Industrial/Occupational Soil (mg/kg)	End-point	Construction Worker Soil (mg/kg)	End-point	Tap Water (ug/L)	End-point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Acenaphthene	3.44E+03	ns	3.67E+04	ns	1.86E+04	n	2.19E+03	n	2.05E+01	4.10E+02
Acetaldehyde	2.80E+02	c	1.12E+03	n	1.01E+03	n	1.88E+01	n	3.30E-03	6.60E-02
Acetone	6.75E+04	n	8.51E+05	nls	2.63E+05	nls	2.18E+04	n	3.84E+00	7.69E+01
Acrylonitrile	5.97E+00	c	3.14E+01	c	2.90E+02	n	4.54E-01	c	8.19E-05	1.64E-03
Acetophenone	7.82E+03	ns	1.14E+05	nls	3.10E+04	ns	3.65E+03	n	8.86E-01	1.77E+01
Acrolein	6.46E-01	n	2.06E+00	n	1.83E+00	n	4.16E-02	n	7.41E-06	1.48E-04
Aldrin	2.29E-01	c	1.12E+00	c	7.15E+00	n	3.92E-02	c	6.21E-03	1.24E-01
Aluminum	7.81E+04	n	1.13E+06	nl	4.07E+04	n	3.65E+04	n	5.48E+04	1.10E+06
Anthracene	1.72E+04	ns	1.83E+05	nl	6.68E+04	ns	1.10E+04	n	3.37E+02	6.74E+03
Antimony	3.13E+01	n	4.54E+02	n	1.24E+02	n	1.46E+01	n	6.61E-01	1.32E+01
Arsenic	3.59E+00	c	1.77E+01	c	6.54E+01	n	4.48E-01	c	1.31E-02	2.62E-01
Barium	1.56E+04	n	2.24E+05	nl	4.35E+03	n	7.30E+03	n	3.01E+02	6.03E+03
Benzene	1.55E+01	c	8.54E+01	c	4.71E+02	n	4.13E+00	c	1.85E-03	3.70E-02
Benzidine	1.70E-02	c	8.33E-02	c	7.20E-01	c	2.92E-03	c	1.25E-05	2.50E-04
Benzo(a)anthracene	4.81E+00	c	2.34E+01	c	2.13E+02	c	9.21E-01	c	3.20E-01	6.39E+00
Benzo(a)pyrene	4.81E-01	c	2.34E+00	c	2.13E+01	c	9.21E-02	c	1.09E-01	2.17E+00
Benzo(b)fluoranthene	4.81E+00	c	2.34E+01	c	2.13E+02	c	9.21E-01	c	1.11E+00	2.22E+01
Benzo(k)fluoranthene	4.81E+01	c	2.34E+02	c	2.06E+03	c	9.21E+00	c	1.09E+01	2.17E+02
Beryllium	1.56E+02	n	2.26E+03	n	1.44E+02	n	7.30E+01	n	5.77E+01	1.15E+03
a-BHC (a-Hexachlorocyclohexane, a-HCH)	6.22E-01	c	3.04E+00	c	2.63E+01	c	1.07E-01	c	5.59E-04	1.12E-02
b-BHC (b-Hexachlorocyclohexane, b-HCH)	2.18E+00	c	1.06E+01	c	9.19E+01	c	3.73E-01	c	1.96E-03	3.92E-02
g-BHC (Lindane)	4.64E+00	c	2.29E+01	c	8.30E+01	n	6.11E-01	c	3.20E-03	6.41E-02
1,1-Biphenyl	3.91E+03	ns	5.68E+04	ns	1.55E+04	ns	1.83E+03	n	1.74E+01	3.49E+02
Bis(2-chloroethyl) ether	2.56E+00	c	1.36E+01	c	1.47E+02	c	1.19E-01	c	2.33E-05	4.65E-04
Bis(2-chloroisopropyl) ether	9.15E+01	c	4.54E+02	c	3.10E+03	cs	9.60E+00	c	2.56E-03	5.11E-02
Bis(2-ethylhexyl) phthalate	2.80E+02	c	1.37E+03	c	4.76E+03	n	4.80E+01	c	1.19E+01	2.38E+02
Bis(chloromethyl) ether	6.20E-03	c	3.38E-02	c	4.95E-01	c	6.24E-04	c	1.13E-07	2.26E-06
Boron	1.56E+04	n	2.27E+05	nl	4.65E+04	n	7.30E+03	n	2.40E+01	4.80E+02
Bromodichloromethane	5.25E+00	c	2.92E+01	c	3.50E+03	cs	1.17E+00	c	2.76E-04	5.53E-03

Chemical	Residential Soil (mg/kg)	End-point	Industrial/Occupational Soil (mg/kg)	End-point	Construction Worker Soil (mg/kg)	End-point	Tap Water (ug/L)	End-point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Bromomethane	2.23E+01	n	8.36E+01	n	6.71E+01	n	8.66E+00	n	1.94E-03	3.88E-02
1,3-Butadiene	7.95E-01	c	4.23E+00	c	1.50E+01	n	1.76E-01	c	1.02E-04	2.04E-03
2-Butanone (Methyl ethyl ketone, MEK)	3.96E+04	n	3.69E+05	nl	1.48E+05	nls	7.06E+03	n	1.27E+00	2.53E+01
tert-Butyl methyl ether (MTBE)	8.62E+02	c	4.69E+03	c	6.55E+04	cs	1.25E+02	c	2.29E-02	4.59E-01
Cadmium	7.79E+01	n	1.12E+03	n	3.09E+02	n	1.83E+01	n	1.37E+00	2.75E+01
Carbon disulfide	1.94E+03	ns	7.54E+03	ns	5.89E+03	ns	1.04E+03	n	2.52E-01	5.04E+00
Carbon tetrachloride	4.38E+00	c	2.43E+01	c	1.99E+02	n	1.99E+00	c	7.39E-04	1.48E-02
Chlordane	1.46E+01	c	7.19E+01	c	1.35E+02	n	1.92E+00	c	2.50E-01	5.00E+00
2-Chloroacetophenone	3.10E+05	nl	9.75E+05	nl	2.81E+02	n				
2-Chloro-1,3-butadiene	2.19E+01	n	6.97E+01	n	6.23E+01	n	1.43E+01	n	7.67E-03	1.53E-01
1-Chloro-1,1-difluoroethane	1.57E+05	nls	4.93E+05	nl	4.44E+05	nls	1.04E+05	n	5.41E+01	1.08E+03
Chlorobenzene	5.08E+02	ns	2.14E+03	n	1.58E+03	ns	9.13E+01	n	5.38E-02	1.08E+00
1-Chlorobutane	3.13E+03	ns	4.54E+04	ns	1.24E+04	ns	1.46E+03	n	5.42E-01	1.08E+01
Chlorodifluoromethane	1.50E+05	nls	4.70E+05	nls	4.23E+05	nls	1.04E+05	n	4.36E+01	8.73E+02
Chloroform	5.72E+00	c	3.19E+01	c	6.71E+02	c	1.93E+00	c	4.68E-04	9.36E-03
Chloromethane	3.56E+01	c	1.98E+02	c	1.13E+03	n	1.78E+01	c	4.18E-03	8.36E-02
b-Chloronaphthalene	6.26E+03	ns	9.08E+04	ns	2.48E+04	ns	2.92E+03	n	1.35E+01	2.71E+02
o-Chloronitrobenzene	6.11E+01	n	1.13E+03	n	2.10E+02	n	3.65E+01	n	2.36E-02	4.72E-01
p-Chloronitrobenzene	6.11E+01	n	1.14E+03	n	2.94E+02	n	3.65E+01	n	2.32E-02	4.65E-01
2-Chlorophenol	3.91E+02	n	5.68E+03	n	1.55E+03	n	1.83E+02	n	1.53E-01	3.06E+00
2-Chloropropane	1.11E+03	n	3.50E+03	ns	3.15E+03	ns	2.09E+02	n	5.43E-02	1.09E+00
o-Chlorotoluene	1.56E+03	ns	2.27E+04	ns	6.19E+03	ns	7.30E+02	n	6.24E-01	1.25E+01
Chromium III	1.13E+05	nl	1.57E+06	nl	4.47E+05	nl	5.48E+04	n	9.86E+07	1.97E+09
Chromium VI	2.19E+02	n	2.92E+03	n	4.49E+02	n	1.10E+02	n	2.11E+00	4.22E+01
Chrysene	4.81E+02	c	2.34E+03	c	2.06E+04	c	9.21E+01	c	3.26E+01	6.52E+02
Copper	3.13E+03	n	4.54E+04	n	1.24E+04	n	1.46E+03	n	5.15E+01	1.03E+03
Crotonaldehyde	3.37E+00	c	1.67E+01	c	1.14E+02	c	3.54E-01	c	6.40E-05	1.28E-03
Cumene (isopropylbenzene)	3.21E+03	ns	1.49E+04	ns	1.03E+04	ns	6.79E+02	n	9.86E-01	1.97E+01
Cyanide	1.56E+03	n	2.27E+04	n	6.19E+03	n	7.30E+02	n	7.44E+00	1.49E+02
Cyanogen	3.13E+03	ns	4.54E+04	ns	1.24E+04	ns	1.46E+03	n	2.88E-01	5.76E+00
Cyanogen bromide	7.04E+03	n	1.02E+05	nl	2.79E+04	n	3.29E+03	n	9.42E-01	1.88E+01
Cyanogen chloride	3.91E+03	n	5.68E+04	ns	1.55E+04	ns	1.83E+03	n	3.33E-01	6.65E+00
DDD	1.63E+01	c	7.98E+01	c	6.95E+02	c	2.80E+00	c	6.41E-01	1.28E+01

Chemical	Residential Soil (mg/kg)	End-point	Industrial/Occupational Soil (mg/kg)	End-point	Construction Worker Soil (mg/kg)	End-point	Tap Water (ug/L)	End-point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
DDE	1.15E+01	c	5.63E+01	c	4.90E+02	c	1.98E+00	c	4.52E-01	9.05E+00
DDT	1.58E+01	c	7.81E+01	c	1.42E+02	n	1.98E+00	c	6.53E-01	1.31E+01
Dibenz(a,h)anthracene	4.81E-01	c	2.34E+00	c	2.13E+01	c	9.21E-02	c	3.62E-01	7.24E+00
1,2-Dibromo-3-chloropropane	1.94E-01	c	1.09E+00	c	2.30E+01	c	8.03E-03	c	2.97E-06	5.95E-05
Dibromochloromethane	1.13E+01	c	6.13E+01	c	1.99E+03	c	1.47E+00	c	3.38E-04	6.75E-03
1,2-Dibromoethane	5.74E-01	c	3.14E+00	c	4.86E+01	c	6.53E-02	c	1.58E-05	3.16E-04
1,4-Dichloro-2-butene	4.60E-02	c	2.58E-01	c	5.80E+00	c	1.87E-02	c	8.17E-06	1.63E-04
1,2-Dichlorobenzene	3.01E+03	ns	1.43E+04	ns	9.71E+03	ns	3.70E+02	n	3.13E-01	6.27E+00
1,4-Dichlorobenzene	3.21E+01	c	1.80E+02	c	3.78E+03	cs	4.27E+00	c	3.57E-03	7.14E-02
3,3-Dichlorobenzidine	8.71E+00	c	4.26E+01	c	3.71E+02	c	1.49E+00	c	1.70E-02	3.41E-01
Dichlorodifluoromethane	4.81E+02	n	1.55E+03	ns	1.37E+03	ns	3.95E+02	n	7.23E-01	1.45E+01
1,1-Dichloroethane	6.29E+01	c	3.50E+02	c	6.88E+03	cs	2.42E+01	c	6.09E-03	1.22E-01
1,2-Dichloroethane	7.74E+00	c	4.28E+01	c	7.51E+02	c	1.49E+00	c	3.65E-04	7.30E-03
cis-1,2-Dichloroethene	7.82E+02	n	1.14E+04	ns	3.10E+03	cs	3.65E+02	n	9.43E-02	1.89E+00
trans-1,2-Dichloroethene	2.73E+02	n	9.95E+02	n	8.14E+02	n	1.07E+02	n	3.01E-02	6.03E-01
1,1-Dichloroethene	6.18E+02	n	2.22E+03	ns	1.83E+03	ns	3.40E+02	n	1.19E-01	2.38E+00
2,4-Dichlorophenol	1.83E+02	n	2.05E+03	n	7.15E+02	n	1.10E+02	n	1.37E-01	2.74E+00
1,2-Dichloropropane	1.47E+01	c	8.17E+01	c	1.17E+02	n	3.86E+00	c	1.11E-03	2.23E-02
1,3-Dichloropropene	2.35E+01	c	1.26E+02	c	5.10E+02	n	4.33E+00	c	1.35E-03	2.70E-02
Dicyclopentadiene	5.00E+01	n	1.68E+02	n	1.45E+02	n	1.39E+01	n	4.41E-02	8.81E-01
Dieldrin	2.45E-01	c	1.20E+00	c	1.03E+01	c	4.20E-02	c	6.75E-04	1.35E-02
Diethyl phthalate	4.89E+04	n	5.47E+05	nl	1.91E+05	nl	2.92E+04	n	1.06E+01	2.12E+02
Dimethyl phthalate	6.11E+05	nl	6.84E+06	nl	2.38E+06	nl	3.65E+05	n	8.36E+01	1.67E+03
Di-n-butyl phthalate (Dibutyl phthalate)	6.11E+03	n	6.84E+04	n	2.38E+04	n	3.65E+03	n	8.63E+00	1.73E+02
2,4-Dimethylphenol	1.22E+03	n	1.37E+04	n	4.76E+03	n	7.30E+02	n	9.12E-01	1.82E+01
4,6-Dinitro-o-cresol	6.11E+00	n	6.84E+01	n	2.38E+01	n	3.65E+00	n	3.93E-03	7.85E-02
2,4-Dinitrophenol	1.22E+02	n	1.37E+03	n	4.76E+02	n	7.30E+01	n	5.25E-02	1.05E+00
2,4-Dinitrotoluene	1.26E+01	c	1.03E+02	c	4.76E+02	n	2.17E+00	c	1.56E-03	3.12E-02
2,6-Dinitrotoluene	6.12E+01	n	6.87E+02	n	2.39E+02	n	3.65E+01	n	2.67E-02	5.33E-01
2,4/2,6-Dinitrotoluene Mixture	5.77E+00	c	2.82E+01	c	2.45E+02	c	9.88E-01	c	7.22E-04	1.44E-02
1,4-Dioxane	3.56E+02	c	1.74E+03	c	1.97E+04	c	6.11E+01	c	1.07E-02	2.14E-01
1,2-Diphenylhydrazine	4.90E+00	c	2.39E+01	c	2.07E+02	c	8.40E-01	c	4.53E-03	9.06E-02
Endosulfan	3.67E+02	n	4.10E+03	n	1.43E+03	n	2.19E+02	n	7.26E+00	1.45E+02

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Endrin	1.83E+01	n	2.05E+02	n	7.15E+01	n	1.10E+01	n	1.76E-01	3.52E+00
Epichlorohydrin	5.71E+01	n	1.99E+02	n	1.67E+02	n	2.07E+00	n	3.72E-04	7.45E-03
Ethyl acetate	7.04E+04	ns	1.02E+06	nl	2.79E+05	nls	3.29E+04	n	6.02E+00	1.20E+02
Ethyl acrylate	1.33E+02	c	6.62E+02	c	4.52E+03	cs	1.40E+01	c	2.70E-03	5.40E-02
Ethyl chloride	4.36E+04	ns	1.37E+05	nls	1.23E+05	nls	2.09E+04	n	5.42E+00	1.08E+02
Ethyl ether	1.56E+04	ns	2.27E+05	nls	6.19E+04	ns	7.30E+03	n	1.35E+00	2.71E+01
Ethyl methacrylate	7.04E+03	ns	1.02E+05	nls	2.79E+04	ns	3.29E+03	n	6.70E-01	1.34E+01
Ethylbenzene	6.96E+01	c	3.85E+02	c	6.63E+03	cs	1.48E+01	c	1.46E-02	2.91E-01
Ethylene oxide	3.91E+00	c	2.14E+01	c	3.26E+02	c	4.41E-01	c	7.76E-05	1.55E-03
Fluoranthene	2.29E+03	n	2.44E+04	n	8.91E+03	n	1.46E+03	n	1.55E+02	3.11E+03
Fluorene	2.29E+03	ns	2.44E+04	ns	8.91E+03	ns	1.46E+03	n	2.50E+01	5.00E+02
Fluoride	4.69E+03	n	6.81E+04	n	1.86E+04	n	2.19E+03	n		
Furan	7.82E+01	n	1.14E+03	n	3.10E+02	n	3.65E+01	n	1.21E-02	2.43E-01
Heptachlor	8.71E-01	c	4.26E+00	c	3.68E+01	c	1.49E-01	c	1.18E-02	2.35E-01
Hexachlorobenzene	2.45E+00	c	1.20E+01	c	1.03E+02	c	4.20E-01	c	2.21E-03	4.41E-02
Hexachloro-1,3-butadiene	5.03E+01	c	2.46E+02	c	2.38E+02	n	8.62E+00	c	1.47E-02	2.95E-01
Hexachlorocyclopentadiene	3.67E+02	n	4.10E+03	n	8.11E+02	n	2.19E+02	n	6.13E-01	1.23E+01
Hexachloroethane	6.11E+01	n	6.84E+02	n	2.38E+02	n	3.65E+01	n	1.93E-02	3.86E-01
n-Hexane	1.25E+03	ns	4.99E+03	ns	3.84E+03	ns	8.76E+02	n	7.69E+00	1.54E+02
HMX	3.06E+03	n	3.42E+04	n	1.19E+04	n	1.83E+03	n	5.39E+00	1.08E+02
Hydrazine anhydride	2.13E+00	c	1.06E+01	c	6.85E+01	c	2.24E-01	c	4.35E-05	8.71E-04
Hydrogen cyanide	1.56E+03	n	2.27E+04	n	5.08E+03	n	6.20E+00	n	1.08E-03	2.16E-02
Indeno(1,2,3-c,d)pyrene	4.81E+00	c	2.34E+01	c	2.13E+02	c	9.21E-01	c	3.70E+00	7.39E+01
Iron	5.48E+04	n	7.95E+05	nl	2.17E+05	nl	2.56E+04	n	6.46E+02	1.29E+04
Isobutanol (Isobutyl alcohol)	2.35E+04	ns	3.41E+05	nls	9.29E+04	ns	1.10E+04	n	1.93E+00	3.86E+01
Isophorone	4.13E+03	c	2.02E+04	c	4.75E+04	n	7.07E+02	c	1.85E-01	3.69E+00
Lead	4.00E+02	IEUBK	8.00E+02	IEUBK	8.00E+02	IEUBK				
Lead (tetraethyl-)	6.11E-03	n	6.84E-02	n	2.38E-02	n	3.65E-03	n	1.43E-05	2.86E-04
Maleic hydrazide	3.06E+04	ns	3.42E+05	nl	1.19E+05	nl	1.83E+04	n	3.45E+00	6.89E+01
Manganese	1.07E+04	n	1.45E+05	nl	4.63E+02	n	8.76E+02	n	2.70E-01	5.40E+00
Mercury (elemental)	7.71E+00	ns	4.99E+01	n	6.36E+01	ns	5.62E-01	n	2.93E-02	5.87E-01
Mercury (methyl)	7.82E+00	n	1.14E+02	n	3.10E+01	n	3.65E+00	n		
Methacrylonitrile	6.76E+00	n	6.57E+01	n	2.54E+01	n	1.04E+00	n	2.01E-04	4.02E-03

Chemical	Residential Soil (mg/kg)	End-point	Industrial/Occupational Soil (mg/kg)	End-point	Construction Worker Soil (mg/kg)	End-point	Tap Water (ug/L)	End-point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Methomyl	1.53E+03	n	1.71E+04	n	5.96E+03	n	9.13E+02	n	1.75E-01	3.49E+00
Methyl acetate	7.82E+04	ns	1.14E+06	nls	3.10E+05	nls	3.65E+04	n	6.53E+00	1.31E+02
Methyl acrylate	2.35E+03	n	3.41E+04	ns	9.29E+03	ns	1.10E+03	n	2.01E-01	4.03E+00
Methyl isobutyl ketone	5.95E+03	ns	7.33E+04	ns	2.31E+04	ns	1.99E+03	n	3.79E-01	7.58E+00
Methyl methacrylate	1.52E+04	ns	5.34E+04	ns	4.46E+04	ns	1.42E+03	n	2.70E-01	5.40E+00
Methyl styrene (alpha)	5.48E+03	ns	7.95E+04	ns	2.17E+04	ns	2.56E+03	n	1.85E+00	3.70E+01
Methyl styrene (mixture)	2.58E+02	ns	1.42E+03	ns	8.65E+02	ns	6.04E+01	n	8.67E-02	1.73E+00
Methylcyclohexane	1.20E+04	ns	3.76E+04	ns	3.38E+04	ns	6.26E+03	n	3.45E+01	6.90E+02
Methylene bromide (Dibromomethane)	7.82E+02	n	1.14E+04	ns	3.10E+03	ns	3.65E+02	n	7.77E-02	1.55E+00
Methylene chloride	1.99E+02	c	1.09E+03	c	1.06E+04	ns	4.80E+01	c	1.07E-02	2.15E-01
Molybdenum	3.91E+02	n	5.68E+03	n	1.55E+03	n	1.83E+02	n	3.70E+00	7.40E+01
Naphthalene	4.50E+01	c	2.52E+02	cs	7.02E+02	ns	1.43E+00	c	4.19E-03	8.39E-02
Nickel	1.56E+03	n	2.27E+04	n	6.19E+03	n	7.30E+02	n	4.77E+01	9.53E+02
Nitrate	1.25E+05	nl	1.82E+06	nl	4.96E+05	nl	5.84E+04	n	1.67E+01	3.35E+02
Nitrite	7.82E+03	n	1.14E+05	nl	3.10E+04	n	3.65E+03	n	7.63E-01	1.53E+01
Nitrobenzene	4.94E+01	c	2.77E+02	c	5.20E+02	n	1.49E+01	n	6.86E-03	1.37E-01
Nitroglycerin	6.11E+00	n	6.84E+01	n	2.38E+01	n	3.65E+00	n	1.35E-03	2.70E-02
N-Nitrosodiethylamine	2.61E-02	c	1.28E-01	c	1.10E+00	c	4.48E-03	c	1.74E-06	3.47E-05
N-Nitrosodimethylamine	7.69E-02	c	3.76E-01	c	1.91E+00	n	1.32E-02	c	3.04E-06	6.08E-05
N-Nitrosodi-n-butylamine	6.08E-01	c	3.04E+00	c	2.90E+01	c	2.44E-02	c	6.48E-05	1.30E-03
N-Nitrosodiphenylamine	8.00E+02	c	3.91E+03	c	3.40E+04	c	1.37E+02	c	1.29E+00	2.58E+01
N-Nitrosopyrrolidine	1.87E+00	c	9.12E+00	c	7.88E+01	c	3.20E-01	c	1.32E-04	2.63E-03
m-Nitrotoluene	1.56E+03	n	2.27E+04	ns	6.19E+03	ns	7.30E+02	n	4.65E-01	9.30E+00
o-Nitrotoluene	2.91E+01	c	1.45E+02	c	2.79E+02	n	3.05E+00	c	1.98E-03	3.95E-02
p-Nitrotoluene	2.44E+02	n	1.20E+03	cs	9.53E+02	ns	4.20E+01	c	2.67E-02	5.35E-01
Pentachlorobenzene	4.89E+01	n	5.47E+02	n	1.91E+02	n	2.92E+01	n	9.37E-02	1.87E+00
Pentachlorophenol	2.07E+01	c	1.00E+02	c	1.03E+03	c	5.60E+00	c	2.94E-02	5.87E-01
Perchlorate	5.48E+01	n	7.95E+02	n	2.17E+02	n				
Phenanthrene	1.83E+03	ns	2.05E+04	ns	7.15E+03	ns	1.10E+03	n	8.34E+01	1.67E+03
Phenol	1.83E+04	n	2.05E+05	nl	6.88E+04	n	1.10E+04	n	6.30E+00	1.26E+02
Polychlorinatedbiphenyls	0.00E+00	c			0.00E+00	c				
Aroclor 1016	3.93E+00	n	4.13E+01	n	1.53E+01	n	2.56E+00	n	1.04E-01	2.09E+00
Aroclor 1221	1.42E+00	c	7.06E+00	c	7.13E+01	c	6.81E-02	c	1.07E-03	2.13E-02

Chemical	Residential Soil (mg/kg)	End-point	Industrial/Occupational Soil (mg/kg)	End-point	Construction Worker Soil (mg/kg)	End-point	Tap Water (ug/L)	End-point	Risk-based SSL for a DAF of 1 (mg/kg)	Risk-based SSL for a DAF of 20 (mg/kg)
Aroclor 1232	1.42E+00	c	7.06E+00	c	7.13E+01	c	6.81E-02	c	1.07E-03	2.13E-02
Aroclor 1242	1.70E+00	c	8.26E+00	c	7.58E+01	c	3.36E-01	c	2.26E-02	4.53E-01
Aroclor 1248	1.70E+00	c	8.26E+00	c	7.58E+01	c	3.36E-01	c	2.22E-02	4.44E-01
Aroclor 1254	1.12E+00	n	8.26E+00	c	4.36E+00	n	3.36E-01	c	3.82E-02	7.64E-01
Aroclor 1260	1.70E+00	c	8.26E+00	c	7.58E+01	c	3.36E-01	c	1.04E-01	2.09E+00
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	2.61E-01	c	1.27E+00	c	1.17E+01	c	5.17E-02	c	1.64E-02	3.28E-01
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	2.61E+00	c	1.27E+01	c	1.17E+02	c	5.17E-01	c	1.60E-01	3.21E+00
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	5.35E-02	1.07E+00
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	3.17E-02	6.34E-01
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	3.24E-02	6.47E-01
2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	3.24E-02	6.47E-01
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	8.70E-04	c	4.24E-03	c	3.89E-02	c	1.72E-04	c	3.17E-05	6.34E-04
2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	1.96E-02	3.92E-01
2',3',4,4',5-Pentachlorobiphenyl (PCB 118)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	1.92E-02	3.84E-01
2',3,3',4,4'-Pentachlorobiphenyl (PCB 105)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	1.96E-02	3.92E-01
2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	8.70E-01	c	4.24E+00	c	3.89E+01	c	1.72E-01	c	1.96E-02	3.92E-01
3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	2.61E-04	c	1.27E-03	c	1.17E-02	c	5.17E-05	c	5.75E-06	1.15E-04
3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	2.61E-01	c	1.27E+00	c	1.17E+01	c	5.17E-02	c	3.48E-03	6.97E-02
3,4,4',5-Tetrachlorobiphenyl (PCB 81)	8.70E-02	c	4.24E-01	c	3.89E+00	c	1.72E-02	c	1.16E-03	2.32E-02
Propylene oxide	2.29E+01	c	1.16E+02	c	8.65E+02	c	2.31E+00	c	4.09E-04	8.18E-03
Pyrene	1.72E+03	ns	1.83E+04	ns	6.68E+03	ns	1.10E+03	n	1.12E+02	2.24E+03
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	3.56E+01	c	1.74E+02	c	7.15E+02	n	6.11E+00	c	2.85E-03	5.70E-02
Selenium	3.91E+02	n	5.68E+03	n	1.55E+03	n	1.83E+02	n	9.65E-01	1.93E+01
Silver	3.91E+02	n	5.68E+03	n	1.55E+03	n	1.83E+02	n	1.57E+00	3.13E+01
Strontium	4.69E+04	n	6.81E+05	nl	1.86E+05	nl	2.19E+04	n	7.73E+02	1.55E+04
Styrene	8.97E+03	ns	5.12E+04	ns	3.03E+04	ns	1.62E+03	n	1.56E+00	3.12E+01
2,3,7,8-TCDD	4.14E-05	c	2.04E-04	c	2.84E-04	n	5.17E-06	c	1.14E-06	2.27E-05
2,3,7,8-TCDF	3.02E-04	c	1.47E-03	c	1.27E-02	c	5.17E-05	c	6.29E-06	1.26E-04
1,2,4,5-Tetrachlorobenzene	1.83E+01	n	2.05E+02	n	7.15E+01	n	1.10E+01	n	2.14E-02	4.29E-01
1,1,1,2-Tetrachloroethane	2.92E+01	c	1.61E+02	c	2.78E+03	cs	5.24E+00	c	1.73E-03	3.45E-02

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1,1,2,2-Tetrachloroethane	7.97E+00	c	4.33E+01	c	5.99E+02	c	6.71E-01	c	2.25E-04	4.50E-03
Tetrachloroethene	6.99E+00	c	3.64E+01	c	3.38E+02	cs	1.08E+00	c	4.49E-04	8.98E-03
Tetryl (Trinitrophenylmethylnitramine)	2.44E+02	n	2.74E+03	n	9.53E+02	n	1.46E+02	n	4.94E-01	9.88E+00
Thallium	5.16E+00	n	7.49E+01	n	2.04E+01	n	2.41E+00	n	1.72E-01	3.43E+00
Toluene	5.57E+03	ns	5.79E+04	ns	2.11E+04	ns	2.28E+03	n	1.38E+00	2.77E+01
Toxaphene	3.56E+00	c	1.74E+01	c	1.50E+02	c	6.11E-01	c	9.11E-02	1.82E+00
Tribromomethane (Bromoform)	4.96E+02	c	2.42E+03	c	4.76E+03	n	8.51E+01	c	6.04E-01	1.21E+01
1,1,2-Trichloro-1,2,2-trifluoroethane	1.04E+05	nls	3.39E+05	nls	2.98E+05	nls	5.92E+04	n	1.78E+02	3.56E+03
1,2,4-Trichlorobenzene	1.43E+02	ns	5.25E+02	ns	4.27E+02	ns	8.16E+00	n	1.02E-02	2.05E-01
1,1,1-Trichloroethane	2.18E+04	ns	7.71E+04	ns	6.43E+04	ns	9.13E+03	n	2.98E+00	5.95E+01
1,1,2-Trichloroethane	1.72E+01	c	9.43E+01	c	1.24E+03	ns	2.42E+00	c	6.74E-04	1.35E-02
Trichloroethylene	4.57E+01	c	2.53E+02	c	4.60E+03	cs	1.65E+01	c	5.30E-03	1.06E-01
Trichlorofluoromethane	2.01E+03	ns	6.76E+03	ns	5.82E+03	ns	1.29E+03	n	9.01E-01	1.80E+01
2,4,5-Trichlorophenol	6.11E+03	n	6.84E+04	n	2.38E+04	n	3.65E+03	n	7.13E+00	1.43E+02
2,4,6-Trichlorophenol	6.11E+01	n	6.84E+02	n	2.38E+02	n	3.65E+01	n	7.13E-02	1.43E+00
1,1,2-Trichloropropane	3.91E+02	n	5.68E+03	ns	1.55E+03	ns	1.83E+02	n	6.11E-02	1.22E+00
1,2,3-Trichloropropane	9.15E-01	c	4.54E+00	c	3.10E+01	c	9.60E-02	c	3.56E-05	7.13E-04
Triethylamine	3.70E+02	n	1.16E+03	n	1.05E+03	n	1.46E+01	n	4.89E-03	9.78E-02
2,4,6-Trinitrotoluene	3.59E+01	n	4.69E+02	n	1.41E+02	n	1.83E+01	n	5.34E-02	1.07E+00
Uranium (soluble salts)	2.35E+02	n	3.41E+03	n	9.29E+02	n	1.10E+02	n		
Vanadium	3.91E+02	n	5.68E+03	n	1.55E+03	n	1.83E+02	n	1.83E+02	3.65E+03
Vinyl acetate	3.65E+03	n	1.19E+04	ns	1.05E+04	ns	4.12E+02	n	7.63E-02	1.53E+00
Vinyl bromide	1.42E+01	n	4.46E+01	n	4.01E+01	n	6.26E+00	n	1.66E-03	3.32E-02
Vinyl chloride	8.65E-01	c	2.59E+01	c	2.48E+02	c	8.61E-01	c	2.88E-04	5.76E-03
m-Xylene	8.29E+03	ns	2.72E+04	ns	2.38E+04	ns	1.43E+03	n	1.23E+00	2.45E+01
o-Xylene	9.55E+03	ns	3.15E+04	ns	2.75E+04	ns	1.43E+03	n	1.23E+00	2.47E+01
Xylenes	1.09E+03	ns	3.61E+03	ns	3.13E+03	ns	2.03E+02	n	1.76E-01	3.52E+00
Zinc	2.35E+04	n	3.41E+05	nl	9.29E+04	n	1.10E+04	n	6.82E+02	1.36E+04

c - carcinogen

n - noncarcinogenic

cs - carcinogenic, SSL may exceed saturation

ns - noncarcinogenic, SSL may exceed saturation

nl - noncarcinogen, SSL may exceed ceiling limit

nls - noncarcinogen, SSL may exceed both saturation and ceiling limit