

**Analyte -Specific Soil Concentrations
Portion of Parcel 18-22-0, Granville, MA**

Parameter	Standards		Acceptance Criteria	Comments (refer to notes below)
	Concentration in "Natural" Soil	MCP RCS-1 Reportable Concentrations	Calculated Acceptance Criteria	
GC/MS SEMI VOC/PAHs BY 8270D (mg/kg)				
1,1-Biphenyl	NE	0.05	< 0.005	*
1,2,4-Trichlorobenzene	NE	2	< 0.2	*
1,2-Dichlorobenzene	NE	9	< 0.9	*
1,3-Dichlorobenzene	NE	1	< 0.1	*
1,4-Dichlorobenzene	NE	1	< 0.1	*
2,4,5-Trichlorophenol	NE	4	< 0.4	*
2,4,6-Trichlorophenol	NE	1	< 0.1	*
2,4-Dichlorophenol	NE	1	< 0.1	*
2,4-Dimethylphenol	NE	1	< 0.1	*
2,4-Dinitrophenol	NE	3	< 0.3	*
2,4-Dinitrotoluene	NE	1	< 0.1	*
2,6-Dinitrotoluene	NE	100	< 10	*
2-Chloronaphthalene	NE	1,000	< 100	*
2-Chlorophenol	NE	1	< 0.1	*
2-Methylnaphthalene	0.5	0.7	< <0.7	**
2-Methylphenol	NE	NE	NE	***
2-Nitrophenol	NE	100	< 10	*
3,3'-Dichlorobenzidine	NE	3	< 0.3	*
3+4-Methylphenol	NE	NE	NE	***
4-Bromophenyl phenyl ether	NE	100	< 10	*
4-Chloroaniline	NE	1	< 0.1	*
4-Nitrophenol	NE	100	< 10	*
Acenaphthene	0.5	4	< <4	**
Acenaphthylene	0.5	1	< <1	**
Acetophenone	NE	1,000	< 100	*
Aniline	NE	1,000	< 100	*
Anthracene	1	1,000	< <10	**
Azobenzene	NE	NE	NE	***
Benzo[a]anthracene	2	7	< <7	**
Benzo[a]pyrene	2	2	< <2	**
Benzo[b]fluoranthene	2	7	< <7	**
Benzo[g,h,i]perylene	1	1,000	< <10	**
Benzo[k]fluoranthene	1	70	< <10	**
Bis(2-chloroethoxy)methane	NE	500	< 50	*
Bis(2-chloroethyl)ether	NE	1	< 0.1	*
Bis(2-ethylhexyl) phthalate	NE	90	< 9	*
Butyl benzyl phthalate	NE	100	< 10	*
Chrysene	2	70	< <20	**
Dibenz(a,h)anthracene	0.5	0.7	< <0.7	**

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Dibenzofuran	NE	100	< 10	*
Diethyl phthalate	NE	10	< 1	*
Dimethyl phthalate	NE	0.7	< 0.07	*
Di-n-butyl phthalate	NE	50	< 5	*
Di-n-octyl phthalate	NE	1,000	< 100	*
Fluoranthene	4	1,000	< <40	**
Fluorene	1	1,000	< <10	**
Hexachlorobenzene	NE	1	< 0.1	*
Hexachlorobutadiene	NE	30	< 3	*
Hexachloroethane	NE	1	< 0.1	*
Indeno[1,2,3-cd]pyrene	1	7	< <7	**
Isophorone	NE	100	< 10	*
Naphthalene	0.5	4	< <4	**
Nitrobenzene	NE	500	< 50	*
n-Nitrosodimethylamine	NE	50	< 5	*
Pentachlorophenol	NE	3	< 0.3	*
Phenanthrene	3	10-600	< <10	**
Phenol	NE	1	< 0.1	*
Pyrene	4	1,000	< <40	**
GC/MS VOA BY 8260C (mg/kg)				
1,1,1,2-Tetrachloroethane	NE	0.1	< 0.01	*
1,1,1-Trichloroethane	NE	30	< 3	*
1,1,2,2-Tetrachloroethane	NE	0.005	< 0.0005	*
1,1,2-Trichloroethane	NE	0.1	< 0.01	*
1,1-Dichloroethane	NE	0.4	< 0.04	*
1,1-Dichloroethene	NE	3	< 0.3	*
1,1-Dichloropropene	NE	NE	NE	***
1,2,3-Trichlorobenzene	NE	NE	NE	***
1,2,3-Trichloropropane	NE	100	< 10	*
1,2,4-Trichlorobenzene	NE	2	< 0.2	*
1,2,4-Trimethylbenzene	NE	1,000	< 100	*
1,2-Dibromo-3-Chloropropane	NE	10	< 1	*
1,2-Dibromoethane	NE	0.1	< 0.01	*
1,2-Dichlorobenzene	NE	9	< 0.9	*
1,2-Dichloroethane	NE	0.1	< 0.01	*
1,2-Dichloropropane	NE	0.1	< 0.01	*
1,3,5-Trimethylbenzene	NE	10	< 1	*
1,3-Dichlorobenzene	NE	3	< 0.3	*
1,3-Dichloropropane	NE	500	< 50	*
1,4-Dichlorobenzene	NE	1	< 0.1	*

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	Concentration in "Natural" Soil	MCP RCS-1 Reportable Concentrations	Calculated Acceptance Criteria		
1,4-Dioxane	NE	0.2	<	0.02	*
2,2-Dichloropropane	NE	NE		NE	***
2-Butanone (MEK)	NE	4	<	0.4	*
2-Chlorotoluene	NE	100	<	10	*
2-Hexanone	NE	100	<	10	*
4-Chlorotoluene	NE	NE		NE	***
4-Isopropyltoluene	NE	NE		NE	***
4-Methyl-2-pentanone (MIBK)	NE	NE		NE	***
Acetone	NE	6	<	0.6	*
Acrolein-Screen	NE	NE		NE	***
Benzene	NE	2	<	0.2	*
Bromobenzene	NE	100	<	10	*
Bromochloromethane	NE	0.005	<	0.0005	*
Bromodichloromethane	NE	0.1	<	0.01	*
Bromoform	NE	0.1	<	0.01	*
Bromomethane	NE	1	<	0.1	*
Carbon disulfide	NE	100	<	10	*
Carbon tetrachloride	NE	5	<	0.5	*
Chlorobenzene	NE	1	<	0.1	*
Chlorodibromomethane	NE	0.005	<	0.0005	*
Chloroethane	NE	100	<	10	*
Chloroform	NE	0.2	<	0.02	*
Chloromethane	NE	100	<	10	*
cis-1,2-Dichloroethene	NE	0.1	<	0.01	*
cis-1,3-Dichloropropene	NE	NE		NE	***
Dibromochloromethane	NE	0.005	<	0.0005	*
Dibromomethane	NE	500	<	50	*
Dichlorodifluoromethane	NE	1,000	<	100	*
Diethyl ether	NE	100	<	10	*
Di-Isopropyl ether	NE	NE		NE	***
Ethylbenzene	NE	40	<	4	*
Hexachlorobutadiene	NE	6	<	0.6	*
Isopropylbenzene	NE	1,000	<	100	*
Methyl tert-butyl ether	NE	0.1	<	0.01	*
Methylene Chloride	NE	0.1	<	0.01	*
m-Xylene & p-Xylene	NE	100	<	10	*
Naphthalene	NE	4	<	0.4	*
n-Butylbenzene	NE	NE		NE	***
N-Propylbenzene	NE	100	<	10	*
o-Xylene	NE	100	<	10	*

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sec-Butylbenzene	NE	NA	NE	NE	***
Styrene	NE	3	<	0.3	*
Tert-amyl methyl ether	NE	NE	NE	NE	***
Tert-butyl ethyl ether	NE	NE	NE	NE	***
tert-Butylbenzene	NE	100	<	10	*
Tetrachloroethene	NE	1	<	0.1	*
Tetrahydrofuran	NE	500	<	50	*
Toluene	NE	30	<	3	*
trans-1,2-Dichloroethene	NE	1	<	0.1	*
trans-1,3-Dichloropropene	NE	NE	NE	NE	***
Trichloroethene	NE	0.3	<	0.03	*
Trichlorofluoromethane	NE	1,000	<	100	*
Vinyl chloride	NE	0.7	<	0.07	*
GC SEMI VOA BY 8100 Modified					
TPH	NE	1,000	<	500	1/2 RCS-1 per MADEP
MA EPH Aliphatic/Aromatic Ranges by MADEP CAM IV B					
C9-C18 Aliphatic	NE	1,000	<	500	1/2 RCS-1 per MADEP
C19-C36 Aliphatic	NE	3,000	<	1,500	1/2 RCS-1 per MADEP
C11-C22 Aromatic	NE	1,000	<	500	1/2 RCS-1 per MADEP
Pesticides BY 8081B (mg/kg)					
4,4'-DDD	NE	8	<	0.15	
4,4'-DDE	NE	6	<	0.15	
4,4'-DDT	NE	6	<	0.15	
Aldrin	NE	0.08	<	0.08	
alpha-BHC	NE	50	<	0.15	
beta-BHC	NE	10	<	0.15	
Chlordane (technical)	NE	5	<	0.15	
delta-BHC	NE	10	<	0.15	
Dieldrin	NE	0.08	<	0.08	
Endosulfan I	NE	0.5	<	0.15	
Endosulfan II	NE	0.5	<	0.15	
Endosulfan sulfate	NE	NA	<	0.15	
Endrin	NE	10	<	0.15	
Endrin ketone	NE	NA	<	0.15	
gamma-BHC (Lindane)	NE	0.003	<	0.003	
Heptachlor	NE	0.3	<	0.15	
Heptachlor epoxide	NE	0.1	<	0.1	
Hexachlorobenzene	NE	0.7	<	0.15	
Methoxychlor	NE	200	<	0.15	
PCBs BY 8082A (mg/kg)					

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PCB-1016	NE	1	< 0.1	
PCB-1221	NE	1	< 0.1	
PCB-1232	NE	1	< 0.1	
PCB-1242	NE	1	< 0.1	
PCB-1248	NE	1	< 0.1	
PCB-1254	NE	1	< 0.1	
PCB-1260	NE	1	< 0.1	
PCB-1262	NE	1	< 0.1	
PCB-1268	NE	1	< 0.1	
Herbicides BY 8151A (mg/kg)				
2,4,5-T	NE	NA	< 0.03	
2,4-D	NE	NA	< 0.03	
2,4-DB	NE	NA	< 0.03	
Dalapon	NE	NA	< 0.03	
Dicamba	NE	NA	< 0.03	
Dichlorprop	NE	NA	< 0.03	
Dinoseb	NE	NA	< 0.03	
Silvex (2,4,5-TP)	NE	100	< 0.03	
METALS BY various methods (see notes below) (mg/kg)				
Antimony	1	20	< 10	**
Arsenic	20	20	< 20	**
Barium	50	1,000	< 375	**
Beryllium	0.4	90	< 4	**
Cadmium	2	70	< 20	**
Chromium (Total)	30	100	< <100	**
Chromium (Tri)	30	1,000	< 225	**
Chromium (Hex)	30	100	< <100	**
Copper	40	NE	< 300	**
Lead	100	200	< 200	**
Mercury	0.3	20	< 3	**
Nickel	20	600	< 150	**
Selenium	0.5	400	< 5	**
Silver	0.6	100	< 6	**
Thallium	0.6	8	< 6	**
Vanadium	30	400	< 225	**
Zinc	100	1000	< 500	**
GENERAL CHEMISTRY BY MOISTURE (%)				
Percent Solids	NE	NA	NA	
GENERAL CHEMISTRY BY SM 2510B (umhos/cm)				
Specific Conductance (umhos/cm)	NE	NA	2000	

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Flashpoint (EPA 1010)	NE	NA	> 140	
pH/Corrosivity (EPA 9045)	NE	NA	5.0-9.0	
Reactive Sulfide/Cyanide	NE	NA	500/250	
PID SCREENING	NE	NA	< 10 ppmv	
asbestos fibers	NE	NA	ND	

NOTES:

VOC is volatile organic compounds

PAH is polycyclic aromatic hydrocarbons

VOA is volatile organic analysis

PCB is polychlorinated biphenyls

TPH is total petroleum hydrocarbons

NE is Not Established

VOCs/Pest/Herbs: No VOCs can be accepted. Trace levels of pesticides/herbicides can be accepted on a case by case basis

^ Represents one-half of the laboratory detection limit

* Represents 10% of RCS-1 concentration

** Refer to WSC 13-500, Table 2, Limiting Soil Concentration

*** To be determined on a case by case basis

RCRA 8 Metals (EPA Methods 6010 and 7470 (for mercury))	PP-13 Metals (EPA Methods 6010 and 7470 (for mercury))		MCP-14 Metals (EPA Methods 6010 and 7470 (for mercury) and 7010 for thallium))	
Arsenic	Antimony	Mercury	Antimony	Mercury
Barium	Arsenic	Nickel	Arsenic	Nickel
Cadmium	Beryllium	Selenium	Barium	Selenium
Chromium	Cadmium	Silver	Beryllium	Silver
Mercury	Chromium	Thallium	Cadmium	Thallium
Lead	Copper	Zinc	Chromium	Vanadium
Selenium	Lead		Lead	Zinc
Silver				