

Table C-1
RIDEM Direct Exposure Criteria
Remedial Action Work Plan
Parcels C and C-1
Former Gorham Manufacturing Site
Providence, RI

Parameter	Residential Direct Exposure Criteria
Volatile Organics (mg/Kg)	
1,1,1,2-Tetrachloroethane	2.2
1,1,1-Trichloroethane	540
1,1,2,2-Tetrachloroethane	1.3
1,1,2-Trichloroethane	3.6
1,1-Dichloroethane	920
1,1-Dichloroethene	0.2
1,2-Dibromo-3-chloropropane	0.5
1,2-Dichloroethane	0.9
1,2-Dichloropropane	1.9
4-Methyl-2-pentanone	1200
Acetone	7800
Benzene	2.5
Bromodichloromethane	10
Bromoform	81
Bromomethane	0.8
Carbon tetrachloride	1.5
Chlorobenzene	210
Chloroform	1.2
cis-1,2-Dichloroethylene	630
Dibromochloromethane	7.6
Ethylbenzene	71
Ethylene dibromide (EDB)	0.01
Isopropyl benzene	27
Methyl ethyl ketone	10000
Methyl tert butyl ether (MTBE)	390
Methylene chloride	45
Styrene	13
Tetrachloroethylene	12
Toluene	190
trans-1,2-Dichloroethylene	1100
Trichloroethene	13
Vinyl Chloride	0.02
Xylene	110
Semivolatile Organics (mg/Kg)	
1,1'-Biphenyl	0.8
1,2,4-Trichlorobenzene	96
1,2-Dichlorobenzene	510
1,3-Dichlorobenzene	430
1,4-Dichlorobenzene	27
2-Methylnaphthalene	123
2,4,5-Trichlorophenol	330
2,4,6-Trichlorophenol	58
2,4-Dichlorophenol	30
2,4-Dimethylphenol	1400
2,4-Dinitrophenol	160
2,4-Dinitrotoluene	0.9
2-Chlorophenol	50
3,3-Dichlorobenzidine	1.4
4-Chloroaniline	310
Acenaphthene	43
Acenaphthylene	23
Anthracene	35
Benzo(a)anthracene	0.9
Benzo(a)pyrene (cPAH)	0.4
Benzo(b)fluoranthene	0.9

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Benzo(g,h,i)perylene	0.8
Benzo(k)fluoranthene	0.9
bis(2-Chloroethyl)ether	0.6
bis(2-Chloroisopropyl)ether	9.1
Bis(2-ethylhexyl) phthalate	46
Chrysene	0.4
Dibenzo(a,h)anthracene	0.4
Diethyl phthalate (PAE)	340
Dimethylphthalate	1900
Fluoranthene	20
Fluorene	28
Hexachlorobenzene	0.4
Hexachlorobutadiene	8.2
Hexachloroethane	46
Indeno(1,2,3-cd)pyrene	0.9
Napthalene (PAH)	54
Pentachlorophenol	5.3
Phenanthrene	40
Phenol	6000
Pyrene	13
Pesticides/PCBs (mg/Kg)	
Chlordane	0.5
Dieldrin	0.04
PCBs	10
Inorganics (mg/Kg)	
Antimony	10
Arsenic	7
Barium	5500
Beryllium	1.5
Cadmium	39
Chromium (+6)	390
Chromium (Trivalent)	1400
Copper	3100
Cyanide	200
Lead	150
Manganese	390
Mercury (inorganic; mercuric salts)	23
Nickel (soluble salts)	1000
Selenium	390
Silver	200
Thallium (chloride)	5.5
Vanadium	550
Zinc	6000

mg/Kg = milligram per kilogram

Rhode Island Department of Environmental Management (RIDEM), 2011. Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases. DEM-DSR-01-93. November.

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