

Sample #: Field ID: Lab ID: Date Sampled: Depth(ft):	NJDEP SOIL REMEDIATION STANDARDS						TOPSOIL 2023			
							00696-001			
							02/07/2023			
	CAS	Ingestion-Dermal Residential (mg/Kg)	Inhalation Residential (mg/Kg)	Ingestion-Dermal Nonresidential (mg/Kg)	Inhalation Nonresidential (mg/Kg)	Migration to Ground Water (mg/Kg)	Conc	Q	RL	MDL
Volatiles (mg/Kg)										
Dichlorodifluoromethane	75-71-8	16000	NA1	260000	NA1	38	ND		0.00079	0.00041
Chloromethane	74-87-3	NA	270	NA	1200	NA6 (RL=1700)	ND		0.00158	0.00025
Vinyl chloride	75-01-4	0.97	1.4	5	6.4	0.0067	ND		0.00079	0.000256
Bromomethane	74-83-9	110	18	1800	82	0.043	ND		0.00395	0.000689
Chloroethane	75-00-3	NA	NA2,3	NA	NA2,3	NA6 (RL=1700)	ND		0.00079	0.000235
Trichlorofluoromethane	75-69-4	23000	NA1	390000	NA1	29	ND		0.00079	0.000321
Acrolein	107-02-8	NS	NS	NS	NS	NS	ND		0.016	0.0054
1,1-Dichloroethene	75-35-4	11	52	180	240	0.0069	ND		0.00079	0.000277
Acetone	67-64-1	70000	NA1	NA1	NA1	19	0.00524	J	0.0079	0.00395
Carbon disulfide	75-15-0	NA	NA2,3	NA	NA2,3	3.7	ND		0.00079	0.00031
Methylene chloride	75-09-2	50	1400	260	NA2,3	0.013	ND		0.00395	0.00237
Acrylonitrile	107-13-1	NS	NS	NS	NS	NS	ND		0.040	0.00362
tert-Butyl alcohol (TBA)	75-65-0	1400	NA1	23000	NA1	0.32	0.00339		0.00316	0.000989
trans-1,2-Dichloroethene	156-60-5	1300	NA1	22000	NA1	0.56	ND		0.00158	0.00028
Methyl tert-butyl ether (MTBE)	1634-04-4	780	140	13000	650	0.25	ND		0.00079	0.000172
1,1-Dichloroethane	75-34-3	120	NA1	640	NA1	0.24	ND		0.00079	0.000201
cis-1,2-Dichloroethene	156-59-2	780	NA1	13000	NA1	0.35	ND		0.00079	0.000169
2-Butanone (MEK)	78-93-3	47000	NA2,3	780000	NA2,3	0.98	ND		0.0079	0.00158
Bromochloromethane	74-97-5	NS	NS	NS	NS	NS	ND		0.00079	0.000201
Chloroform	67-66-3	780	590	13000	NA2,3	0.33	ND		0.00079	0.000395
1,1,1-Trichloroethane	71-55-6	160000	NA2,3	NA1	NA2,3	0.2	ND		0.00079	0.000243
Carbon tetrachloride	56-23-5	7.6	1.4	40	6.9	0.0075	ND		0.00079	0.000158
1,2-Dichloroethane (EDC)	107-06-2	5.8	71	30	320	0.0095	ND		0.00079	0.000182
Benzene	71-43-2	3	2.2	16	11	0.0094	ND		0.00079	0.0000679
Trichloroethene	79-01-6	15	3	79	14	0.0065	ND		0.00079	0.000118
1,2-Dichloropropane	78-87-5	19	5.7	98	27	0.0058	ND		0.00079	0.000079
Bromodichloromethane	75-27-4	11	NA1	59	NA1	0.005	ND		0.00079	0.000094
cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	NS	NS	ND		0.00079	0.000121
4-Methyl-2-pentanone (MIBK)	108-10-1	NA	NA2,3	NA	NA2,3	NA6 (RL=3400)	ND		0.00158	0.000413
Toluene	108-88-3	6300	NA2,3	100000	NA2,3	7.8	ND		0.00079	0.000395
trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	NS	NS	ND		0.00079	0.0000877
1,1,2-Trichloroethane	79-00-5	12	NA1	64	NA1	0.017	ND		0.00079	0.000169
Tetrachloroethene	127-18-4	330	47	1700	NA2,3	0.0086	ND		0.00079	0.0000814
2-Hexanone	591-78-6	390	1000	6500	NA2,3	0.15	ND		0.00158	0.00121
Dibromochloromethane	124-48-1	8.3	NA1	43	NA1	0.005	ND		0.00079	0.000131
1,2-Dibromoethane (EDB)	106-93-4	0.35	0.085	1.8	0.41	0.005	ND		0.00079	0.000146
Chlorobenzene	108-90-7	510	NA2,3	8400	NA2,3	0.64	ND		0.00079	0.000137
Ethylbenzene	100-41-4	7800	10	130000	48	15	ND		0.00079	0.0000861
Total Xylenes	1330-20-7	12000	NA2,3	190000	NA2,3	19	ND		0.00158	0.000111

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Styrene	100-42-5	16000	NA2,3	260000	NA2,3	2.1	ND	0.00079	0.00017
Bromoform	75-25-2	88	NA1	460	NA1	0.018	ND	0.00079	0.000246
Isopropylbenzene	98-82-8	7800	NA2,3	130000	NA2,3	22	ND	0.00079	0.000168
1,1,2,2-Tetrachloroethane	79-34-5	3.5	NA1	18	NA1	0.0069	ND	0.00079	0.000413
1,3-Dichlorobenzene	541-73-1	6700	NA1	110000	NA1	11	ND	0.00079	0.000209
1,4-Dichlorobenzene	106-46-7	780	NA2,3	13000	NA2,3	1.4	ND	0.00079	0.000245
1,2-Dichlorobenzene	95-50-1	6700	NA2,3	110000	NA2,3	11	ND	0.00079	0.000198
1,2-Dibromo-3-chloropropane	96-12-8	0.87	0.026	4.5	0.12	0.005	ND	0.00079	0.000651
1,2,4-Trichlorobenzene	120-82-1	780	94	13000	NA2,3	0.52	ND	0.00079	0.000332
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	NS	NS	ND	0.00079	0.000251
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NA	NA2,3	NA	NA2,3	NA1	ND	0.00079	0.000472
Methyl acetate	79-20-9	78000	NA1	NA1	NA1	22	ND	0.00395	0.000638
Cyclohexane	110-82-7	NA	NA2,3	NA	NA2,3	NA6 (RL=65)	ND	0.00079	0.000142
Methylcyclohexane	108-87-2	NS	NS	NS	NS	NS	ND	0.00395	0.000136
1,3-Dichloropropene (cis- and trans-)	542-75-6	7	4.8	36	23	0.0063	ND	0.00079	0.0000877
TOTAL VO's:		NS	NS	NS	NS	NS	0.00863	J	NA
TOTAL TIC's:		NS	NS	NS	NS	NS	0.0045	JN	NA
TOTAL VO's & TIC's:		NS	NS	NS	NS	NS	0.013	J	NA

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	CAS					Conc	Q	RL	MDL	
Semivolatiles - BNA (mg/Kg)										
N-Nitrosodimethylamine	62-75-9	NS	NS	NS	NS	NS		0.043	0.040	
Benzaldehyde	100-52-7	170	NA1	910	NA1	NA6 (RL=0.33)		0.087	0.027	
Phenol	108-95-2	19000	39000	270000	NA2,3	21		0.043	0.033	
Bis(2-chloroethyl) ether	111-44-4	0.63	NA1	3.3	NA1	0.33		0.043	0.032	
2-Chlorophenol	95-57-8	390	NA1	6500	NA1	0.76		0.043	0.025	
2-Methylphenol	95-48-7	320	NA1	4600	NA1	0.77		0.043	0.040	
2,2'-Oxybis(1-Chloropropane)	108-60-1	3100	NA1	52000	NA1	1.9		0.043	0.043	
4-Methylphenol **	106-44-5	630	NA1	9100	NA1	0.75		0.043	0.029	
N-Nitrosodi-n-propylamine	621-64-7	0.17	NA1	0.36	NA1	0.17		0.043	0.038	
Acetophenone	98-86-2	7800	NA1	130000	NA1	3.6		0.043	0.026	
1,4-Dioxane	123-91-1	7	45	36	210	0.067		0.087	0.016	
Hexachloroethane	67-72-1	17	NA2,3	91	NA2,3	0.17		0.043	0.030	
Nitrobenzene	98-95-3	160	7.5	2600	36	0.17		0.043	0.017	
Isophorone	78-59-1	570	NA2,3	2700	NA2,3	0.23		0.043	0.016	
2-Nitrophenol	88-75-5	NS	NS	NS	NS	NS		0.043	0.019	
2,4-Dimethylphenol	105-67-9	1300	NA1	18000	NA1	2.3		0.043	0.034	
Bis(2-chloroethoxy) methane	111-91-1	190	NA1	2700	NA1	NA6 (RL=0.17)		0.043	0.025	
2,4-Dichlorophenol	120-83-2	190	NA1	2700	NA1	0.19		0.043	0.018	
Naphthalene	91-20-3	2500	5.7	34000	27	19		0.043	0.018	
4-Chloroaniline	106-47-8	2.7	NA1	13	NA1	0.23		0.043	0.018	
Hexachlorobutadiene	87-68-3	NS	NS	NS	NS	NS		0.043	0.018	
Caprolactam	105-60-2	32000	290	460000	1300	16		0.043	0.041	
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	NS	NS		0.043	0.017	
2-Methylnaphthalene	91-57-6	240	NA1	3300	NA1	3.1		0.043	0.019	
Hexachlorocyclopentadiene	77-47-4	470	2.7	7800	NA2,3	2.5		0.087	0.028	
2,4,6-Trichlorophenol	88-06-2	49	NA1	230	NA1	0.86		0.043	0.016	
2,4,5-Trichlorophenol	95-95-4	6300	NA1	91000	NA1	68		0.043	0.016	
1,1'-Biphenyl	92-52-4	87	NA1	450	NA1	NA1		0.130	0.093	
2-Chloronaphthalene	91-58-7	4800	NA1	67000	NA1	NA1		0.043	0.015	
2-Nitroaniline	88-74-4	NS	NS	NS	NS	NS		0.043	0.027	
Dimethyl phthalate	131-11-3	NS	NS	NS	NS	NS		0.043	0.017	
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	NS	NS		0.043	0.013	
Acenaphthylene	208-96-8	NS	NS	NS	NS	NS		0.043	0.019	
3-Nitroaniline	99-09-2	NS	NS	NS	NS	NS		0.043	0.020	
Acenaphthene	83-32-9	3600	NA1	50000	NA1	NA1		0.043	0.015	
2,4-Dinitrophenol	51-28-5	130	NA1	1800	NA1	0.33		0.130	0.022	
4-Nitrophenol	100-02-7	NS	NS	NS	NS	NS		0.087	0.033	
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	NS	NS		0.130	0.00786	
Dibenzofuran	132-64-9	NS	NS	NS	NS	NS		0.043	0.021	

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Diethyl phthalate	84-66-2	51000	NA1	730000	NA1	44	ND	0.043	0.015
Fluorene	86-73-7	2400	NA	33000	NA1	NA1	ND	0.043	0.021
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	NS	NS	ND	0.043	0.016
4-Nitroaniline	100-01-6	27	NA2,3	130	NA2,3	NA6 (RL=0.33)	ND	0.043	0.021
1,2,4,5-Tetrachlorobenzene	95-94-3	23	NA1	390	NA1	NA6 (RL=0.17)	ND	0.087	0.065
2,3,4,6-Tetrachlorophenol	58-90-2	1900	NA1	27000	NA1	26	ND	0.043	0.023
4,6-Dinitro-2-methylphenol	534-52-1	NS	NS	NS	NS	NS	ND	0.130	0.022
N-Nitrosodiphenylamine	86-30-6	110	NA1	520	NA1	1.1	ND	0.043	0.013
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	NS	NS	ND	0.043	0.021
4-Bromophenyl phenyl ether	101-55-3	NS	NS	NS	NS	NS	ND	0.043	0.010
Hexachlorobenzene	118-74-1	0.43	NA1	2.3	NA1	0.17	ND	0.043	0.014
Atrazine	1912-24-9	220	NA1	3200	NA1	0.33	ND	0.130	0.109
Pentachlorophenol	87-86-5	1	NA1	4.4	NA1	0.33	ND	0.043	0.026
Phenanthrene	85-01-8	NS	NS	NS	NS	NS	ND	0.043	0.022
Anthracene	120-12-7	18000	NA1	250000	NA1	NA1	ND	0.043	0.017
Carbazole	86-74-8	NS	NS	NS	NS	NS	ND	0.043	0.022
Di-n-butyl phthalate	84-74-2	6300	NA1	91000	NA1	NA1	ND	0.043	0.014
Fluoranthene	206-44-0	2400	NA1	33000	NA1	NA1	ND	0.043	0.021
Benzidine	92-87-5	NS	NS	NS	NS	NS	ND	0.087	0.00647
Pyrene	129-00-0	1800	NA1	25000	NA1	NA1	ND	0.043	0.017
Butyl benzyl phthalate	85-68-7	290	NA1	1300	NA1	29	ND	0.043	0.011
3,3'-Dichlorobenzidine	91-94-1	1.2	NA1	5.7	NA1	3.9	ND	0.043	0.027
Benzo[a]anthracene	56-55-3	5.1	78000	23	370000	0.71	ND	0.043	0.015
Chrysene	218-01-9	510	NA2,3	2300	NA2,3	NA1	ND	0.043	0.016
Bis(2-ethylhexyl) phthalate	117-81-7	39	NA1	180	NA1	14	ND	0.043	0.00778
Di-n-octyl phthalate	117-84-0	630	NA1	9100	NA1	NA1	ND	0.043	0.011
Benzo[b]fluoranthene	205-99-2	5.1	78000	23	370000	NA1	ND	0.043	0.034
Benzo[k]fluoranthene	207-08-9	51	780000	230	NA2,3	NA1	ND	0.043	0.020
Benzo[a]pyrene	50-32-8	0.51	3500	2.3	16000	NA1	ND	0.043	0.016
Indeno[1,2,3-cd]pyrene	193-39-5	5.1	78000	23	370000	NA1	ND	0.043	0.00923
Dibenz[a,h]anthracene	53-70-3	0.51	7800	2.3	37000	NA1	ND	0.043	0.016
Benzo[g,h,i]perylene	191-24-2	NS	NS	NS	NS	NS	ND	0.043	0.018
Dinitrotoluene (2,4- and 2,6-)	25321-14-6	0.8	NA1	3.8	NA1	0.27	ND	0.043	0.00786
TOTAL BNA'S:		NS	NS	NS	NS	NS	ND		NA
TOTAL TIC's:		NS	NS	NS	NS	NS	11.0	JN	NA
TOTAL BNA'S & TIC's:		NS	NS	NS	NS	NS	11.0		NA

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CAS						Conc	Q	RL	MDL	
PCB's (mg/Kg)										
Aroclor-1016	12674-11-2	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1221	11104-28-2	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1232	11141-16-5	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1242	53469-21-9	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1248	12672-29-6	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1254	11097-69-1	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1260	11096-82-5	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1262	37324-23-5	NS	NS	NS	NS	NS		0.00433	0.0013	
Aroclor-1268	11100-14-4	NS	NS	NS	NS	NS		0.00433	0.0013	
PCBs	1336-36-3	0.25	NA1	1.1	NA1	1.6		0.00433	0.0013	

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Pesticides (mg/Kg)										
alpha-BHC	319-84-6	0.086	NA1	0.41	NA1	0.0023	ND		0.000866	0.000155
beta-BHC	319-85-7	0.3	NA1	1.4	NA1	0.0046	ND		0.000866	0.000202
gamma-BHC (Lindane)	58-89-9	0.57	NA1	2.8	NA1	0.0035	ND		0.000866	0.000193
delta-BHC	319-86-8	NS	NS	NS	NS	NS	ND		0.000866	0.000168
Heptachlor	76-44-8	0.15	NA1	0.81	NA1	0.083	ND		0.000866	0.000206
Aldrin	309-00-2	0.041	NA1	0.21	NA1	0.13	ND		0.000866	0.000181
Heptachlor epoxide	1024-57-3	0.076	NA1	0.4	NA1	0.081	ND		0.000866	0.000188
Endosulfan I	959-98-8	NS	NS	NS	NS	NS	ND		0.000866	0.000194
4,4'-DDE	72-55-9	2	NA1	11	NA1	0.47	ND		0.000866	0.000177
Dieldrin	60-57-1	0.034	NA1	0.16	NA1	0.024	ND		0.000866	0.000176
Endrin	72-20-8	19	NA1	270	NA1	1.6	ND		0.000866	0.000219
Endosulfan II	33213-65-9	NS	NS	NS	NS	NS	ND		0.000866	0.000198
4,4'-DDD	72-54-8	2.3	NA1	11	NA1	0.47	ND		0.000866	0.000231
Endrin aldehyde	7421-93-4	NS	NS	NS	NS	NS	ND		0.000866	0.000181
Endosulfan sulfate	1031-07-8	NS	NS	NS	NS	NS	ND		0.000866	0.000215
4,4'-DDT	50-29-3	1.9	NA1	9.5	NA1	0.67	ND		0.000866	0.000161
Endrin ketone	53494-70-5	NS	NS	NS	NS	NS	ND		0.000866	0.000169
Methoxychlor	72-43-5	320	NA1	4600	NA1	NA1	ND		0.000866	0.000232
alpha-Chlordane	5103-71-9	NS	NS	NS	NS	NS	ND		0.000866	0.000191
gamma-Chlordane	5103-74-2	NS	NS	NS	NS	NS	ND		0.000866	0.00017
Toxaphene	8001-35-2	0.49	NA1	2.3	NA1	6.2	ND		0.011	0.00433
Endosulfan (I and II)	115-29-7	470	NA1	7800	NA1	NA1	ND		0.000866	0.000194
Chlordane (alpha and gamma)	57-74-9	0.27	NA2,3	1.4	NA2,3	1.4	ND		0.000866	0.00017

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Metals (mg/Kg)										
Aluminum	7429-90-5	78000	NA2	NA1	NA2	NA2	6910		6.50	3.25
Antimony	7440-36-0	31	NA1	520	NA1	5.4	ND		0.650	0.260
Arsenic	7440-38-2	19	1100	19	5200	19	3.68		0.650	0.062
Barium	7440-39-3	16000	870000	260000	NA2	2100	36.0		0.650	0.325
Beryllium	7440-41-7	160	2000	2600	9300	0.7	0.393	J	0.650	0.118
Cadmium	7440-43-9	71	2600	1100	12000	1.9	0.159	J	0.650	0.051
Calcium	7440-70-2	NS	NS	NS	NS	NS	42300		65.0	23.7
Chromium	7440-47-3	NS	NS	NS	NS	NS	10.5		0.650	0.573
Cobalt	7440-48-4	23	520	390	2500	90	5.36		0.650	0.195
Copper	7440-50-8	3100	NA1	52000	NA1	910	14.6		0.650	0.464
Iron	7439-89-6	NS	NS	NS	NS	NS	12600		65.0	19.5
Lead	7439-92-1	400	NA1	800	NA1	90	7.95		0.650	0.325
Magnesium	7439-95-4	NS	NS	NS	NS	NS	21400		65.0	19.5
Manganese	7439-96-5	1900	87000	31000	400000	NA2	394		0.650	0.536
Mercury	7439-97-6	23	520000	390	NA2,3	0.1	ND		0.033	0.013
Nickel	7440-02-0	1600	20000	26000	93000	48	9.99		0.650	0.455
Potassium	7440-09-7	NS	NS	NS	NS	NS	1800		65.0	29.5
Selenium	7782-49-2	390	NA1	6500	NA1	11	ND		4.55	1.95
Silver	7440-22-4	390	NA1	6500	NA1	0.5	ND		0.520	0.347
Sodium	7440-23-5	NS	NS	NS	NS	NS	190		65.0	45.1
Thallium	7440-28-0	NS	NS	NS	NS	NS	ND		0.650	0.325
Vanadium	7440-62-2	390	170000	6500	800000	NA6 (RL=2.5)	17.0		0.650	0.306
Zinc	7440-66-6	23000	NA1	390000	NA1	930	58.8		6.50	1.72

REFERENCE MATERIAL ONLY
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 IAL assumes no responsibility for the accuracy of these values.

Sample #:	Field ID:	NJDEP SOIL REMEDIATION STANDARDS					TOPSOIL 2023						
		Ingestion-Dermal Residential (mg/Kg)	Inhalation Residential (mg/Kg)	Ingestion-Dermal Nonresidential (mg/Kg)	Inhalation Nonresidential (mg/Kg)	Migration to Ground Water (mg/Kg)	Conc	Q	RL	MDL			
Date Sampled:	Depth(ft):	CAS											
General Analytical													
Hexavalent Chromium-mg/Kg	18540-29-9	NS	NS	NS	NS	NS	NS	NS	ND		1.30	0.492	
Cyanide, Total-mg/Kg	57-12-5	47	NA2	780	NA2	20	ND		ND		1.30	0.260	
Trivalent (III) Chromium	16065-83-1	NS	NS	NS	NS	NS	?				NA		
NJDEP Soil Remediation Standards: Remediation Standards N.J.A.C. 7:26D, May 2012; Amended May 17, 2021													
BOLD Conc	Indicates a concentration that exceeds applicable criteria.												
BOLD RL	Indicates RL that exceeds applicable criteria.												
BOLD MDL	Indicates MDL that exceeds applicable criteria.												
NS = No Standard Available													
ND = Analyzed for but Not Detected at the MDL													
J = Indicates an estimated value either when the concentration in the sample is greater than MDL and less than RL, or for qualification of TICs													
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.													
N = Presumptive evidence of a compound from the use of GC/MS library search.													

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