NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

Effective Date: April 1, 2016

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte [1,2]	Conc Range			Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]
							a	b	c	d	
			Trace Metals	mg/kg							mg/kg
SOLIDS		1000	Aluminum	1000	to	25000	Study Mean		0.1082	753.6118	100
SOLIDS		1005	Antimony	80	to	300	Study Mean		0.4385	8.1700	8.0
SOLIDS		1010	Arsenic	40	to	400	Study Mean		0.0915	1.0653	4.0
SOLIDS		1015	Barium	100	to	1000	Study Mean		0.0823	1.3346	10
SOLIDS		1020	Beryllium	40	to	400	Study Mean		0.0782	0.6438	4.0
SOLIDS		1025	Boron	80	to	800	Study Mean ± 40%				48
SOLIDS		1030	Cadmium	40	to	400	Study Mean		0.0884	0.0629	4.0
SOLIDS		1035	Calcium	1500	to	25000	Study Mean		0.0730	87.3802	150
SOLIDS		1040	Chromium	40	to	400	Study Mean		0.0937	0.8163	4.0
SOLIDS		1045	Chromium VI	40	to	300	Study Mean		0.1547	8.5460	4.0
SOLIDS		1050	Cobalt	40	to	400	Study Mean		0.0851	0.0292	4.0
SOLIDS		1055	Copper	40	to	400	Study Mean		0.0770	0.8423	4.0
SOLIDS		1070	Iron	1000	to	50000	Study Mean		0.1102	1500.6038	100
SOLIDS		1075	Lead	40	to	400	Study Mean		0.0725	2.4410	4.0
SOLIDS		1085	Magnesium	1200	to	25000	Study Mean		0.0685	134.2111	120
SOLIDS		1090	Manganese	100	to	2000	Study Mean		0.0639	6.3268	10
SOLIDS		1095	Mercury	1	to	35	Study Mean		0.1615	0.0077	0.10
SOLIDS		1100	Molybdenum	30	to	300	Study Mean		0.0893	1.1242	3.0
SOLIDS		1105	Nickel	40	to	500	Study Mean		0.0819	1.0454	4.0
SOLIDS		1125	Potassium	1400	to	25000	Study Mean		0.0938	92.7318	140
SOLIDS		1140	Selenium	40	to	400	Study Mean		0.0935	2.2902	4.0
SOLIDS		1150	Silver	20	to	100	Study Mean		0.1047	0.3423	2.0
SOLIDS		1155	Sodium	150	to	15000	Study Mean		0.1028	30.5312	15
SOLIDS		1160	Strontium	40	to	400	Study Mean		0.0961	0.2863	4.0
SOLIDS		1165	Thallium	40	to	400	Study Mean		0.0961	1.4134	4.0
SOLIDS		1175	Tin	75	to	250	Study Mean		0.1134	3.0560	7.5
SOLIDS		1185	Vanadium	40	to	400	Study Mean		0.0624	5.2391	4.0
SOLIDS		1190	Zinc	100	to	1000	Study Mean		0.0823	3.6814	10

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte [1,2]	Conc Range			Acceptance Criteria [3,4,5,6] a	b	c	d	NELAC PTRL [7]
			Minerals	mg/kg							mg/kg
SOLIDS		1540	Bromide	10	to	100	Study Mean		0.0848	0.3989	1.0
SOLIDS		1575	Chloride	200	to	1000	Study Mean		0.0892	5.3941	20
SOLIDS		1730	Fluoride	25	to	500	Study Mean		0.1781	2.0366	2.5
SOLIDS		1810	Nitrate as N	25	to	500	Study Mean		0.0676	2.4605	2.5
SOLIDS		2000	Sulfate	25	to	2000	Study Mean		0.1354	5.1265	2.5
			Nutrients	mg/kg							mg/kg
SOLIDS		1515	Ammonia as N	300	to	3000	Study Mean		0.0931	39.0256	30
SOLIDS		1795	Total Kjeldahl-Nitrogen	400	to	4000	Study Mean		0.1361	21.2081	40
SOLIDS		1910	Total Phosphorus	300	to	3000	Study Mean		0.2208	29.9538	30
			Misc Analytes	mg/kg							mg/kg
SOLIDS		1625	Corrosivity (pH)	2	to	12 units	± 0.6 units fixed acceptance limit				not applicable
SOLIDS		1635	Cyanide, total	20	to	200	Study Mean		0.1701	2.0819	2.0
SOLVENT		1780	Ignitability (Flashpoint)	100	to	200 ^{o}F	± 17 ^{o}F fixed acceptance limit				not applicable

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte [1,2]	Conc Range			Acceptance Criteria [3,4,5,6] a	b	c	d	NELAC PTRL [7]
			Volatile Aromatics [1]	µg/kg							µg/kg
SOLIDS		4375	Benzene	20	to	200	0.9843	-0.0327	0.1213	0.7969	10
SOLIDS		4475	Chlorobenzene	20	to	200	0.9824	-1.0850	0.1352	0.1644	10
SOLIDS		4610	1,2-Dichlorobenzene	20	to	200	0.9478	0.0184	0.1525	0.3201	8.9
SOLIDS		4615	1,3-Dichlorobenzene	20	to	200	0.9433	-1.4720	0.1774	0.5523	5.1
SOLIDS		4620	1,4-Dichlorobenzene	20	to	200	0.8787	0.3763	0.1785	0.0606	7.0
SOLIDS		4765	Ethylbenzene	20	to	200	0.9855	0.9188	0.1372	0.9866	9.4
SOLIDS		5005	Naphthalene	40	to	200	1.0558	-9.3018	0.1517	2.9019	6.0
SOLIDS		5100	Styrene	40	to	200	1.0038	3.5363	0.1011	2.6252	24
SOLIDS		5140	Toluene	20	to	200	0.9904	-0.0276	0.1360	0.2781	11
SOLIDS		5155	1,2,4-Trichlorobenzene	40	to	200	±60% fixed acceptance limit				16
SOLIDS		5260	Xylenes, total [8]	40	to	400	0.9759	1.1119	0.1573	1.2105	18
			Volatile Halocarbons [1]	µg/kg							µg/kg
SOLIDS		4395	Bromodichloromethane	20	to	200	1.0230	-0.8783	0.1138	0.9049	10
SOLIDS		4400	Bromoform	20	to	200	0.9970	-0.2793	0.1610	0.2331	9.3
SOLIDS		4455	Carbon tetrachloride	20	to	200	0.9788	0.3589	0.1641	0.0671	9.9
SOLIDS		4505	Chloroform	20	to	200	0.9977	0.2795	0.1277	0.4518	11
SOLIDS		4575	Dibromochloromethane	20	to	200	0.9933	-0.0908	0.1210	0.8668	9.9
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	40	to	200	1.0582	-4.4614	0.0811	9.2288	4.0
SOLIDS		4585	1,2-Dibromoethane (EDB)	40	to	200	0.9336	3.6498	0.1367	0.0886	24
SOLIDS		4630	1,1-Dichloroethane	20	to	200	1.0044	0.0864	0.1432	0.3262	11
SOLIDS		4635	1,2-Dichloroethane	20	to	200	0.9702	1.6554	0.1329	0.2153	12
SOLIDS		4640	1,1-Dichloroethene	40	to	200	1.0782	-4.9329	0.1530	2.1375	13
SOLIDS		4645	cis-1,2-Dichloroethene	40	to	200	1.0354	-1.9589	0.1115	1.9514	20
SOLIDS		4700	trans-1,2-Dichloroethene	40	to	200	1.0396	-1.4694	0.1268	0.7058	23
SOLIDS		4975	Dichloromethane (Methylene chloride)	20	to	200	0.9423	1.9720	0.1572	0.8097	9.0
SOLIDS		4655	1,2-Dichloropropane	20	to	200	0.9502	1.5066	0.1231	0.3127	12
SOLIDS		5105	1,1,1,2-Tetrachloroethane	20	to	200	0.9919	1.6156	0.1107	0.8555	12
SOLIDS		5110	1,1,2,2-Tetrachloroethane	20	to	200	0.9798	0.8429	0.1490	0.8794	8.9
SOLIDS		5115	Tetrachloroethene	20	to	200	0.9537	-0.7165	0.1658	0.0414	8.3
SOLIDS		5160	1,1,1-Trichloroethane	20	to	200	1.0123	-1.7849	0.1404	0.3598	9.0
SOLIDS		5165	1,1,2-Trichloroethane	20	to	200	0.9589	2.7115	0.1285	0.3804	13
SOLIDS		5170	Trichloroethene	20	to	200	0.9711	-0.1873	0.1506	0.1712	9.7
SOLIDS		5180	1,2,3-Trichloropropane	40	to	200	0.9283	2.9471	0.1580	4.2576	8.3

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			Volatile Ketone/Ethers [1]	µg/kg							µg/kg
SOLIDS		4315	Acetone	200	to	1000	0.8050	15.8965	0.2255	11.6574	20
SOLIDS		4410	2-Butanone (Methyl ethyl ketone)	100	to	500	0.9457	-5.6053	0.1832	7.9158	10
SOLIDS		4860	2-Hexanone	80	to	400	0.9485	0.2397	0.1489	6.9077	20
SOLIDS		4995	4-Methyl-2-pentanone (MIBK)	80	to	400	0.9389	1.6739	0.1594	2.1583	32
SOLIDS		5000	Methyl-tert-butyl ether (MTBE)	20	to	200	0.9175	4.5363	0.1633	1.7722	7.8
			Medium Level Volatile Aromatics [1]	µg/kg							µg/kg
SOLIDS		4375	Benzene	1000	to	10000	1.0144	-23.1327	0.0910	20.8707	656
SOLIDS		4475	Chlorobenzene	1000	to	10000	0.9950	123.9983	0.0752	81.8833	648
SOLIDS		4610	1,2-Dichlorobenzene	1000	to	10000	1.0058	33.2037	0.0835	56.7766	618
SOLIDS		4615	1,3-Dichlorobenzene	1000	to	10000	0.9994	68.8728	0.0807	108.8153	500
SOLIDS		4620	1,4-Dichlorobenzene	1000	to	10000	0.9796	84.9657	0.0741	82.1266	596
SOLIDS		4765	Ethylbenzene	1000	to	10000	1.0062	72.8042	0.1069	20.5270	697
SOLIDS		5005	Naphthalene	2000	to	10000	1.0092	-147.4204	0.0896	204.0207	721
SOLIDS		5100	Styrene	2000	to	10000	±40% fixed acceptance limit				1200
SOLIDS		5140	Toluene	1000	to	10000	1.0099	-3.1595	0.0985	15.5403	665
SOLIDS		5155	1,2,4-Trichlorobenzene	2000	to	10000	±40% fixed acceptance limit				1200
SOLIDS		5260	Xylenes, total [8]	2000	to	20000	1.0208	26.6333	0.0852	208.6440	931

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			Medium Level Volatile Halocarbons [1]	µg/kg							µg/kg
SOLIDS		4395	Bromodichloromethane	1000	to	10000	1.0554	-51.4544	0.1066	68.3365	479
SOLIDS		4400	Bromoform	1000	to	10000	1.0036	1.4468	0.0966	99.9464	415
SOLIDS		4455	Carbon tetrachloride	1000	to	10000	0.9879	26.1250	0.1091	69.0570	480
SOLIDS		4505	Chloroform	1000	to	10000	0.9904	78.8032	0.0932	79.8174	550
SOLIDS		4575	Dibromochloromethane	1000	to	10000	0.9616	108.0123	0.0993	43.3661	642
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	2000	to	10000	±40% fixed acceptance limit				1200
SOLIDS		4585	1,2-Dibromoethane (EDB)	2000	to	10000	±40% fixed acceptance limit				1200
SOLIDS		4595	Dibromomethane	2000	to	10000	±40% fixed acceptance limit				1200
SOLIDS		4630	1,1-Dichloroethane	1000	to	10000	1.0141	46.0177	0.1187	9.3983	676
SOLIDS		4635	1,2-Dichloroethane	1500	to	10000	0.9833	197.4423	0.0590	248.0448	663
SOLIDS		4640	1,1-Dichloroethene	2000	to	10000	±50% fixed acceptance limit				1000
SOLIDS		4645	cis-1,2-Dichloroethene	2000	to	10000	±40% fixed acceptance limit				1200
SOLIDS		4700	trans-1,2-Dichloroethene	2000	to	10000	±40% fixed acceptance limit				1200
SOLIDS		4975	Dichloromethane (Methylene chloride)	1000	to	10000	0.9750	45.6827	0.1353	59.8427	435
SOLIDS		4655	1,2-Dichloropropane	2000	to	10000	±30% fixed acceptance limit				1400
SOLIDS		5105	1,1,1,2-Tetrachloroethane	1000	to	10000	0.9905	84.3577	0.0715	113.3756	520
SOLIDS		5110	1,1,2,2-Tetrachloroethane	1500	to	10000	0.9884	-45.8370	0.0927	188.2879	455
SOLIDS		5115	Tetrachloroethene	1000	to	10000	1.0083	36.6090	0.1108	56.3068	543
SOLIDS		5160	1,1,1-Trichloroethane	1000	to	10000	1.0197	-56.4801	0.0837	60.6064	530
SOLIDS		5165	1,1,2-Trichloroethane	1000	to	10000	0.9983	47.7354	0.1018	2.8755	732
SOLIDS		5170	Trichloroethene	1000	to	10000	0.9890	161.3820	0.0939	76.8331	638
SOLIDS		5180	1,2,3-Trichloropropane	1500	to	10000	0.9225	230.3408	0.1215	220.1008	407
			Medium Level Volatile Ketone/Ethers [1]	µg/kg							µg/kg
SOLIDS		4315	Acetone	4000	to	20000	0.9105	-72.7923	0.2023	70.9627	929
SOLIDS		4410	2-Butanone (Methyl ethyl ketone)	4000	to	20000	0.8688	472.7627	0.1877	295.7230	808
SOLIDS		4860	2-Hexanone	4000	to	20000	±50% fixed acceptance limit				2000
SOLIDS		4995	4-Methyl-2-pentanone (MIBK)	4000	to	20000	0.9537	-38.8138	0.1005	313.1912	1630
SOLIDS		5000	Methyl-tert-butyl ether (MTBE)	2000	to	10000	±30% fixed acceptance limit				1400
			Volatile Petroleum Hydrocarbons	mg/kg							mg/kg
SOLIDS		9408	Gasoline Range Organics (GRO) [9]	100	to	2000	Study Mean		0.1900	74.9808	10

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			Base/Neutrals [1]	µg/kg							µg/kg
SOLIDS		5500	Acenaphthene	1000	to	12000	Study Mean		0.1939	82.0756	100
SOLIDS		5505	Acenaphthylene	1000	to	12000	Study Mean		0.2146	52.0258	100
SOLIDS		5555	Anthracene	1000	to	12000	Study Mean		0.2128	52.3606	100
SOLIDS		5575	Benzo(a)anthracene	1000	to	12000	Study Mean		0.1849	46.0241	100
SOLIDS		5585	Benzo(b)fluoranthene	1000	to	12000	Study Mean		0.2067	52.9500	100
SOLIDS		5600	Benzo(k)fluoranthene	1000	to	12000	Study Mean		0.2151	10.4830	100
SOLIDS		5590	Benzo(g,h,i)perylene	1000	to	12000	Study Mean		0.2267	48.8759	100
SOLIDS		5580	Benzo(a)pyrene	1000	to	12000	Study Mean		0.2302	4.8021	100
SOLIDS		5660	4-Bromophenyl-phenylether	1500	to	15000	Study Mean		0.2017	11.8630	150
SOLIDS		5670	Butylbenzylphthalate	1500	to	15000	Study Mean		0.2391	6.4663	150
SOLIDS		5765	bis(2-Chloroethyl)ether	1500	to	15000	Study Mean		0.2158	173.8570	150
SOLIDS		5760	bis(2-Chloroethoxy)methane	1500	to	15000	Study Mean		0.2273	63.6276	150
SOLIDS		4659	2,2'-Oxybis(1-Chloropropane)[13]	1500	to	15000	Study Mean		0.2525	76.2913	150
SOLIDS		5795	2-Chloronaphthalene	1000	to	10000	Study Mean		0.2180	50.7155	100
SOLIDS		5825	4-Chlorophenyl-phenylether	1500	to	15000	Study Mean		0.2151	1.3807	150
SOLIDS		5855	Chrysene	1000	to	12000	Study Mean		0.2101	6.5663	100
SOLIDS		5895	Dibenz(a,h)anthracene	1000	to	12000	Study Mean		0.1827	143.3845	100
SOLIDS		5905	Dibenzofuran	1500	to	15000	Study Mean		0.2144	0.1463	150
SOLIDS		4610	1,2-Dichlorobenzene	1500	to	15000	Study Mean		0.2786	81.9879	150
SOLIDS		4615	1,3-Dichlorobenzene	1500	to	15000	Study Mean		0.3292	69.8039	150
SOLIDS		4620	1,4-Dichlorobenzene	1500	to	15000	Study Mean		0.3249	28.1719	150
SOLIDS		6070	Diethylphthalate	1500	to	15000	Study Mean		0.2275	72.8630	150
SOLIDS		6135	Dimethylphthalate	1500	to	15000	Study Mean		0.1905	111.0505	150
SOLIDS		5925	Di-n-butylphthalate	1500	to	15000	Study Mean		0.2134	119.6955	150
SOLIDS		6185	2,4-Dinitrotoluene	1500	to	15000	Study Mean		0.2227	149.6818	150
SOLIDS		6190	2,6-Dinitrotoluene	1500	to	15000	Study Mean		0.1778	110.7244	150
SOLIDS		6200	Di-n-octylphthalate	1500	to	15000	Study Mean		0.2694	5.8412	150
SOLIDS		6065	bis(2-Ethylhexyl)phthalate	1500	to	15000	Study Mean		0.2109	100.6288	150
SOLIDS		6265	Fluoranthene	1000	to	12000	Study Mean		0.1909	27.4902	100
SOLIDS		6270	Fluorene	1000	to	12000	Study Mean		0.1766	94.1915	100
SOLIDS		4840	Hexachloroethane	1500	to	15000	Study Mean		0.3365	0.7453	150
SOLIDS		6275	Hexachlorobenzene	1500	to	15000	Study Mean		0.1964	22.0540	150
SOLIDS		4835	Hexachlorobutadiene	1500	to	15000	Study Mean		0.2462	56.7559	150
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	1000	to	12000	Study Mean		0.2932	26.1594	100

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			Base/Neutrals cont' [1]	µg/kg							µg/kg
SOLIDS		6320	Isophorone	1500	to	15000	Study Mean		0.2107	52.3126	150
SOLIDS		6385	2-Methylnaphthalene	1000	to	12000	Study Mean		0.2027	28.7219	100
SOLIDS		5005	Naphthalene	1000	to	12000	Study Mean		0.2202	62.1009	100
SOLIDS		5015	Nitrobenzene	1500	to	15000	Study Mean		0.2248	129.9507	150
SOLIDS		6545	N-Nitroso-di-n-propylamine	1500	to	15000	Study Mean		0.2547	131.2031	150
SOLIDS		6615	Phenanthrene	1000	to	12000	Study Mean		0.1792	84.2501	100
SOLIDS		6665	Pyrene	1000	to	12000	Study Mean		0.2025	15.1287	100
SOLIDS		5155	1,2,4-Trichlorobenzene	1500	to	15000	Study Mean		0.2316	64.0672	150
			Acids [1]	µg/kg							µg/kg
SOLIDS		5700	4-Chloro-3-methylphenol	1500	to	15000	Study Mean		0.1750	190.6510	150
SOLIDS		5800	2-Chlorophenol	1500	to	15000	Study Mean		0.2278	113.9250	150
SOLIDS		6000	2,4-Dichlorophenol	1500	to	15000	Study Mean		0.2247	128.6393	150
SOLIDS		6400	2-Methylphenol (o-Cresol)	3000	to	15000	Study Mean		0.2519	144.2852	300
SOLIDS		6410	4-Methylphenol (p-Cresol) [10]	3000	to	15000	Study Mean ±3SD				300
SOLIDS		6490	2-Nitrophenol	3000	to	15000	Study Mean		0.2552	113.0546	300
SOLIDS		6500	4-Nitrophenol	3000	to	15000	Study Mean		0.3639	171.2300	300
SOLIDS		6625	Phenol	1500	to	15000	Study Mean		0.2844	6.5466	150
SOLIDS		6605	Pentachlorophenol	3000	to	15000	Study Mean		0.2714	282.8578	300
SOLIDS		6835	2,4,5-Trichlorophenol	1500	to	15000	Study Mean		0.2530	36.2289	150
SOLIDS		6840	2,4,6-Trichlorophenol	1500	to	15000	Study Mean		0.2110	136.9847	150
			PCBs [2]	mg/kg							mg/kg
SOLIDS		8880	Aroclor 1016	1	to	50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8885	Aroclor 1221	1	to	50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8890	Aroclor 1232	1	to	50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8895	Aroclor 1242	1	to	50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8900	Aroclor 1248	1	to	50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8905	Aroclor 1254	1	to	50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8910	Aroclor 1260	1	to	50	Study Mean		0.2239	0.1196	0.1
			PCBs in Oil [2]	mg/kg							mg/kg
OIL		8880	Aroclor 1016	17	to	50	0.7208	1.6866	0.1569	1.4646	1.7
OIL		8895	Aroclor 1242	17	to	50	0.7208	1.6866	0.1569	1.4646	1.7
OIL	0100	8905	Aroclor 1254	16	to	50	0.7936	0.5516	0.1759	1.6115	1.6
OIL	0101	8910	Aroclor 1260	12	to	50	0.7803	0.5911	0.2019	0.1025	2.4

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Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

Effective Date: April 1, 2016

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte [1,2]	Conc Range			Acceptance Criteria [3,4,5,6] a	b	c	d	NELAC PTRL [7]
			Organochlorine Pesticides [1]	µg/kg							µg/kg
SOLIDS		7025	Aldrin	50	to	500	Study Mean		0.2024	1.8529	5.0
SOLIDS		7110	alpha-BHC	50	to	500	Study Mean		0.2004	3.1776	5.0
SOLIDS		7115	beta-BHC	50	to	500	Study Mean		0.2354	4.2243	5.0
SOLIDS		7105	delta-BHC	50	to	500	Study Mean		0.2126	4.8258	5.0
SOLIDS		7120	gamma-BHC(Lindane)	50	to	500	Study Mean		0.1955	6.0037	5.0
SOLIDS		7240	alpha-Chlordane	50	to	500	Study Mean		0.1925	1.2537	5.0
SOLIDS		7245	gamma-Chlordane	50	to	500	Study Mean		0.1575	3.5240	5.0
SOLIDS		7250	Chlordane, Technical	200	to	1000	Study Mean		0.2403	2.8078	20
SOLIDS		7355	4,4'-DDD	50	to	500	Study Mean		0.1697	8.1705	5.0
SOLIDS		7360	4,4'-DDE	50	to	500	Study Mean		0.1818	4.4461	5.0
SOLIDS		7365	4,4'-DDT	50	to	500	Study Mean		0.2243	2.6522	5.0
SOLIDS		7470	Dieldrin	50	to	500	Study Mean		0.1685	6.1922	5.0
SOLIDS		7510	Endosulfan I	50	to	500	Study Mean		0.1824	5.0749	5.0
SOLIDS		7515	Endosulfan II	50	to	500	Study Mean		0.2026	3.2251	5.0
SOLIDS		7520	Endosulfan sulfate	50	to	500	Study Mean		0.2361	2.5159	5.0
SOLIDS		7540	Endrin	50	to	500	Study Mean		0.1435	7.1706	5.0
SOLIDS		7530	Endrin aldehyde	50	to	500	Study Mean		0.2309	10.0975	5.0
SOLIDS		7535	Endrin ketone	50	to	500	Study Mean		0.2190	2.7268	5.0
SOLIDS		7685	Heptachlor	50	to	500	Study Mean		0.2078	1.2126	5.0
SOLIDS		7690	Heptachlor epoxide (beta)	50	to	500	Study Mean		0.1893	1.3493	5.0
SOLIDS		7810	Methoxychlor	50	to	500	Study Mean		0.2696	6.0889	5.0
SOLIDS		8250	Toxaphene	200	to	2000	Study Mean ±3SD				20
			Herbicides [1]	µg/kg							µg/kg
SOLIDS		8545	2,4-D	100	to	1000	Study Mean ±3SD				10
SOLIDS		8560	2,4-DB	100	to	1000	Study Mean ±3SD				10
SOLIDS		8595	Dicamba	100	to	1000	Study Mean ±3SD				10
SOLIDS		8620	Dinoseb	100	to	1000	Study Mean ±3SD				10
SOLIDS		6605	Pentachlorophenol	100	to	1000	Study Mean ±3SD				10
SOLIDS		8655	2,4,5-T	100	to	1000	Study Mean ±3SD				10
SOLIDS		8650	2,4,5-TP (Silvex)	100	to	1000	Study Mean ±3SD				10

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte [1,2]	Conc Range			Acceptance Criteria [3,4,5,6] a	b	c	d	NELAC PTRL [7]
			Petroleum Hydrocarbons	mg/kg							mg/kg
SOLIDS		9369	Diesel Range Organics (DRO) [11]	300	to	3000	Study Mean		0.1798	26.8656	30
SOLIDS		1803	n-Hexane Extractable Material (O&G) [12]	300	to	3000	Study Mean		0.1567	88.0394	30
			Low Level Polyaromatic Hydrocarbons (PAHs) [1]	µg/kg							µg/kg
SOLIDS		5500	Acenaphthene	150	to	1000	Study Mean		0.2408	8.6652	15
SOLIDS		5505	Acenaphthylene	150	to	1000	Study Mean		0.3181	4.1175	15
SOLIDS		5555	Anthracene	100	to	1000	Study Mean		0.2614	2.3255	10
SOLIDS		5575	Benzo(a)anthracene	50	to	500	Study Mean		0.1945	1.6079	5.0
SOLIDS		5585	Benzo(b)fluoranthene	50	to	500	Study Mean		0.1674	3.4472	5.0
SOLIDS		5600	Benzo(k)fluoranthene	50	to	500	Study Mean		0.1991	1.2729	5.0
SOLIDS		5590	Benzo(g,h,i)perylene	100	to	1000	Study Mean		0.2950	0.1219	10
SOLIDS		5580	Benzo(a)pyrene	50	to	500	Study Mean		0.2387	1.8146	5.0
SOLIDS		5855	Chrysene	50	to	500	Study Mean		0.2397	0.4085	5.0
SOLIDS		5895	Dibenz(a,h)anthracene	50	to	500	Study Mean		0.2311	1.2126	5.0
SOLIDS		6265	Fluoranthene	100	to	1000	Study Mean		0.2082	0.8504	10
SOLIDS		6270	Fluorene	50	to	500	Study Mean		0.2226	6.2469	5.0
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	50	to	500	Study Mean		0.2551	0.9514	5.0
SOLIDS		5005	Naphthalene	150	to	1000	Study Mean		0.3151	3.1969	15
SOLIDS		6615	Phenanthrene	100	to	1000	Study Mean		0.2136	0.6253	10
SOLIDS		6665	Pyrene	50	to	500	Study Mean		0.2116	1.4722	5.0

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Solid and Chemical Materials

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6] a	b	c	d	NELAC PTRL [7]
1) For volatiles, base/neutrals, acids, organochlorine pesticides, herbicides and low level PAHs standards, providers must include a minimum number of analytes using the criteria described below:									
PT samples that are to be scored for one to ten analytes must include all of these analytes.									
PT samples that are to be scored for ten to twenty analytes must include at least ten of these analytes or 80% ot the total, whichever number is greater.									
PT samples that are to be scored for more than twenty analytes must include at least sixteen of these analytes or 60% ot the total, whichever number is greater.									
If the calculated percentage of the total number of analytes in the PT sample is a fraction, the fraction shall be rounded up to the next whole number.									
2) One sample in every study, containing one Aroclor, selected at random from among the Aroclors listed above.									
3) Acceptance limits are set at the Mean ± 3 Standard Deviations (SD).									
Where the a, b, c and d factors are presented, Mean = a*T + b; SD = c*T + d where T is the assigned value.									
Where the c and d factors are presented, Mean = Robust Study Mean; SD = c*X + d where X is the Robust Study Mean.									
Where no factors are presented (Study Mean ±3SD), Mean = Robust Study Mean, SD = Robust Study Standard Deviation.									
Robust Study Mean and Standard Deviation are generated using statistical analysis of study data set. (ie. Bi-weight, Grubbs, Dixon, etc.)									
4) If the lower acceptance limit generated using the criteria contained in this table is less than 10% of the assigned value or the PTRL, the lower acceptance limits are set at 10% of the assigned value or the PTRL whichever is higher.									
5) If the lower acceptance limit generated using the criteria contained in this table is greater than 90% of the assigned value, the lower acceptance limits are set at 90% of the assigned value except where fixed limits are used.									
6) If the upper acceptance limit generated using the criteria contained in this table is less than 110% of the assigned value, the upper acceptance limits are set at 110% of the assigned value except where fixed limits are used.									
7) NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRLs shown. NELAC PTRLs are also provided as guidance to PT Providers. At a minimum for all analytes with an assigned value equal to <PTRL, the PT Provider should verify that the PT sample does not contain the analyte at a concentration greater than or equal to the PTRL.									
8) Volatiles Aromatics must contain all three Xylene isomers. The concentration range of o-Xylene and m&p-Xylene is 20-200 ug/kg or 1000-10000 (Medium Level) each.									
9) Gasoline Range Organics (GRO) per purge-and-trap extraction followed by chromatographic analysis. GRO is defined as the carbon range between n-C_5 and n-C_{10}.									
10) Laboratories seeking to report data for Solid and Chemical Material analyte 4-Methylphenol or the coeluting isomer pair of 3-Methylphenol and 4-Methylphenol must report the data as 4-Methylphenol.									
11) Diesel Range Organics (DRO) per solvent extraction followed by chromatographic analysis. DRO is defined as the carbon range between n-C_{10} and n-C_{28}.									

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Solid and Chemical Materials

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte [1,2]	Conc Range			Acceptance Criteria [3,4,5,6] a	b	c	d	NELAC PTRL [7]
12) n-Hexane Extractable Material (HEM) per solvent extraction followed by gravimetric or infrared spectrometric analysis (Oil & Grease).											
13) Also known as Bis(2-chloro-1-methylethyl) Ether; formerly inaccurately labeled as Bis(2-chloroisopropyl) Ether.											