NELAC PT for Experimental
Fields of Proficiency Testing with PTRLs
Solid and Chemical Materials
Effective July 1, 2007

Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte[1]	Conc Range[1]	Acceptance Criteria [2,3,4,5] a	b	c	d	NELAC PTRL[6]
			Trace Metals	mg/kg					mg/kg
SOLIDS		1025	Boron	80 to 200	Study Mean		0.0715	6.9490	8.0
			Minerals	mg/kg					mg/kg
SOLIDS		1540	Bromide	10 to 200	Study Mean ±3SD				2
SOLIDS		1575	Chloride	25 to 2000	Study Mean ±3SD				5
SOLIDS		1730	Fluoride	25 to 500	Study Mean ±3SD				5
SOLIDS		1810	Nitrate as N	25 to 500	Study Mean ±3SD				5
SOLIDS		1870	Orthophosphate as P	25 to 500	Study Mean ±3SD				5
SOLIDS		2000	Sulfate	25 to 2000	Study Mean ±3SD				5
			Nutrients	mg/kg					mg/kg
SOLIDS		1515	Ammonia as N	100 to 5000	Study Mean ±3SD				20
SOLIDS		1795	Total Kjeldahl-Nitrogen	100 to 5000	Study Mean ±3SD				20
SOLIDS		1910	Total Phosphorus	100 to 5000	Study Mean ±3SD				20
			Misc Analytes						
SOLIDS		2040	Total Organic Carbon (TOC)	1000 to 15000	Study Mean ±3SD				100

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte[1]	Conc Range[1]	Acceptance Criteria [2,3,4,5] a	b	c	d	NELAC PTRL[6]
			Volatile Aromatics[1]	µg/kg					µg/kg
SOLIDS		4900	Isopropylbenzene	40 to 200	Study Mean ±3SD				10
SOLIDS		5100	Styrene	40 to 200	Study Mean ±3SD				10
			Volatile Halocarbons[1]	µg/kg					µg/kg
SOLIDS		4385	Bromobenzene	40 to 200	Study Mean ±3SD				10
SOLIDS		4950	Bromomethane	80 to 200	Study Mean ±3SD				20
SOLIDS		4485	Chloroethane	80 to 200	Study Mean ±3SD				20
SOLIDS		4960	Chloromethane	80 to 200	Study Mean ±3SD				20
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	40 to 200	Study Mean ±3SD				10
SOLIDS		4585	1,2-Dibromoethane (EDB)	40 to 200	Study Mean ±3SD				10
SOLIDS		4625	Dichlorodifluoromethane	80 to 200	Study Mean ±3SD				20
SOLIDS		4640	1,1-Dichloroethene	40 to 200	Study Mean ±3SD				10
SOLIDS		4645	cis-1,2-Dichloroethene	40 to 200	Study Mean ±3SD				10
SOLIDS		4700	trans-1,2-Dichloroethene	40 to 200	Study Mean ±3SD				10
SOLIDS		4680	cis-1,3-Dichloropropene	40 to 200	Study Mean ±3SD				10
SOLIDS		4685	trans-1,3-Dichloropropene	40 to 200	Study Mean ±3SD				10
SOLIDS		5175	Trichlorofluoromethane	80 to 200	Study Mean ±3SD				20
SOLIDS		5235	Vinyl chloride	80 to 200	Study Mean ±3SD				20
			Volatile Ketones[1]	µg/kg					µg/kg
SOLIDS		4860	2-Hexanone	160 to 400	Study Mean ±3SD				40
			Medium Level Volatile Aromatics[1]	µg/kg					µg/kg
SOLIDS		4900	Isopropylbenzene	2000 to 10000	Study Mean ±3SD				500
SOLIDS		5100	Styrene	2000 to 10000	Study Mean ±3SD				500

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			Medium Level Volatile Halocarbons[1]	µg/kg					µg/kg
SOLIDS		4385	Bromobenzene	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4950	Bromomethane	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4485	Chloroethane	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4960	Chloromethane	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4585	1,2-Dibromoethane (EDB)	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4625	Dichlorodifluoromethane	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4640	1,1-Dichloroethene	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4645	cis-1,2-Dichloroethene	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4700	trans-1,2-Dichloroethene	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4680	cis-1,3-Dichloropropene	2000 to 10000	Study Mean ±3SD				500
SOLIDS		4685	trans-1,3-Dichloropropene	2000 to 10000	Study Mean ±3SD				500
SOLIDS		5175	Trichlorofluoromethane	2000 to 10000	Study Mean ±3SD				500
SOLIDS		5235	Vinyl chloride	2000 to 10000	Study Mean ±3SD				500
			Medium Level Volatile Ketone/Ethers[1]	µg/kg					µg/kg
SOLIDS		4860	2-Hexanone	8000 to 20000	Study Mean ±3SD				2000
			Base/Neutrals[1]	µg/kg					µg/kg
SOLIDS		5765	bis(2-Chloroethyl)ether	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6285	Hexachlorocyclopentadiene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		4840	Hexachloroethane	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6320	Isophorone	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6385	2-Methylnaphthalene	1000 to 12000	Study Mean ±3SD				200
SOLIDS		6530	N-Nitrosodimethylamine	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6535	N-Nitrosodiphenylamine	1500 to 15000	Study Mean ±3SD				300
			Acids[1]	µg/kg					µg/kg
SOLIDS		6005	2,6-Dichlorophenol	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6130	2,4-Dimethylphenol	3000 to 15000	Study Mean ±3SD				600
SOLIDS		6175	2,4-Dinitrophenol	3000 to 15000	Study Mean	0.4905	164.9754		600
SOLIDS		6360	2-Methyl-4,6-dinitrophenol	3000 to 15000	Study Mean	0.4259	142.3325		600
SOLIDS		6410	4-Methylphenol (p-Cresol)[7]	3000 to 15000	Study Mean ±3SD				600

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			Pesticides[1]	µg/kg					µg/kg
SOLIDS		7075	Azinphos-methyl (Guthion)	100 to 1000	Study Mean ±3SD				20
SOLIDS		7410	Diazinon	100 to 1000	Study Mean ±3SD				20
SOLIDS		8625	Disulfoton	100 to 1000	Study Mean ±3SD				20
SOLIDS		7770	Malathion	100 to 1000	Study Mean ±3SD				20
SOLIDS		7955	Parathion ethyl	100 to 1000	Study Mean ±3SD				20
SOLIDS		7825	Parathion methyl	100 to 1000	Study Mean ±3SD				20
SOLIDS		7985	Phorate	100 to 1000	Study Mean ±3SD				20
SOLIDS		8110	Ronnel	100 to 1000	Study Mean ±3SD				20
SOLIDS		8200	Stirophos (tetrachlorovinphos)	100 to 1000	Study Mean ±3SD				20
			Herbicides[1]	µg/kg					µg/kg
SOLIDS		8560	2,4-DB	100 to 1000	Study Mean ±3SD				20
SOLIDS		8620	Dinoseb	100 to 1000	Study Mean ±3SD				20
			Nitroaromatics and Nitramines[1]	µg/kg					µg/kg
SOLIDS		9303	2-Amino-4,6-dinitrotoluene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		9306	4-Amino-2,6-dinitrotoluene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6160	1,3-Dinitrobenzene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		9522	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-	1500 to 15000	Study Mean ±3SD				300
SOLIDS		9507	2-Nitrotoluene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		9510	3-Nitrotoluene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		9513	4-Nitrotoluene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6415	Tetryl (methyl-2,4,6-trinitrophenylnitramine)	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6885	1,3,5-Trinitrobenzene	1500 to 15000	Study Mean ±3SD				300
SOLIDS		9651	2,4,6-Trinitrotoluene	1500 to 15000	Study Mean ±3SD				300

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1) For volatiles, pesticides, base/neutrals, acids, herbicides and nitroaromatics/nitramines PT samples, providers must include a minimum number of analytes using the same criteria described in the most recent NELAC Standard. Assigned values are chosen at random within the concentration ranges shown.									
2) Acceptance limits are set at the Mean ± 3 Standard Deviations (SD).									
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.)									
3) 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. This footnote does not apply to Base/Neutrals, Acids, Pesticides, Herbicides or Nitroaromatics/Nitramines.									
4) 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.									
5) 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.									
6) 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.									
7) 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.									