Fields of Proficiency Testing Tables

Effective January 2018

Incorporated in Rule 64E-1.106(9), Florida Administrative Code

PT for EPA Laboratory Approval Program

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective October 6, 2014

			Red = Previous Experimental Analytes	Blue = New Analyte/Header/Footnote				Magenta = Changes	
Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte	Conc Range	Acceptance Criteria a	b	c	d	NELAC PTRL
			Microbiology	# of Cysts or Oocysts					# Cysts or Oocysts
Drinking Water		2510	Cryptosporidium	50 to 200	Mean ± 2 SD[1, 2, 3, 4]				Not Applicable
Drinking Water		2545	Giardia	50 to 200	Mean ± 2 SD[1, 2, 3, 4]				Not Applicable

1) If the lower acceptance limit generated using the criteria contained in this table is less than (<) 10% of the assigned value, the lower acceptance limits are set at 10% of the assigned value.

2) If the lower acceptance limit generated using the criteria contained in this table is greater than (>) 60% of the assigned value, the lower acceptance limits are set at 60% of the assigned value.

3) If the upper acceptance limit generated using the criteria contained in this table is less than (<) 105% of the assigned value, the upper acceptance limits are set at 105% of the assigned value.

4) Quantitative Microbiology acceptance criteria are based on the robust participant Mean and Standard Deviation (SD) determined from each respective PT study.

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective: November 03, 2017

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte[4,2]	Conc Range	Acceptance Criteria[3,4,5,6] a	b	c	d	NELAC PTRL[7]
			Microbiology	CFU/100 mL					CFU/100 mL
Drinking Water	0254	2500	Total Coliform[8,9,10]		Nine out of ten correct with no false negatives				Not Applicable
Drinking Water	0255	2530	Fecal Coliform[8,9,10]		Nine out of ten correct with no false negatives				Not Applicable
Drinking Water		2525	E.coli[8,9,10]		Nine out of ten correct with no false negatives				Not Applicable
				CFU (MPN)/mL					CFU (MPN)/mL
Drinking Water	0258	2555	Heterotrophic Plate Count (MF, PP)[11]	5 to 500	Log transform Mean ± 2 SD				2
Drinking Water	0258	2555	Heterotrophic Plate Count (MPN)[12]	5 to 500	Log transform Mean ± 2 SD				2
				CFU (MPN)/100 mL					CFU (MPN)/100 mL
Drinking Water		2525	E.coli (MF)[11]	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water		2525	E.coli (MPN)[12]	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0255	2530	Fecal Coliform (MF)[11]	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0255	2530	Fecal Coliform (MPN)[12]	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0254	2500	Total Coliform (MF)[11]	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0254	2500	Total Coliform (MPN)[12]	20 to 200	Log transform Mean ± 2 SD				2
			Trace Metals	µg/L					µg/L
Drinking Water	0235	1000	Aluminum	130 to 1000	± 20% at < 500 ± 15% ≥ 500 fixed acceptance limit				104
Drinking Water	0140	1005	Antimony[1]	6 to 50	±30% fixed acceptance limit				4.2
Drinking Water	0001	1010	Arsenic[1]	5 to 50	±30% fixed acceptance limit				3.5
Drinking Water	0002	1015	Barium[1]	500 to 3000	±15% fixed acceptance limit				420
Drinking Water	0141	1020	Beryllium[1]	2 to 20	±15% fixed acceptance limit				1.7
Drinking Water	0226	1025	Boron	800 to 2000	±15% fixed acceptance limit				680
Drinking Water	0003	1030	Cadmium[1]	2 to 50	±20% fixed acceptance limit				1.6
Drinking Water	0004	1040	Chromium[1]	10 to 200	±15% fixed acceptance limit				8.5
Drinking Water		1045	Hexavalent Chromium (VI)	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0091	1055	Copper[1]	50 to 2000	±10% fixed acceptance limit				45
Drinking Water	0284	1070	Iron	100 to 1800	± 20% at < 250 ± 15% ≥ 250 fixed acceptance limit				80
Drinking Water	0005	1075	Lead[1]	5 to 100	±30% fixed acceptance limit				3.5
Drinking Water	0236	1090	Manganese	40 to 900	±15% fixed acceptance limit				34
Drinking Water	0006	1095	Mercury[1,13a]	0.5 to 10	±30% fixed acceptance limit				0.35
Drinking Water	0237	1100	Molybdenum	15 to 130	±15% fixed acceptance limit				13
Drinking Water	0142	1105	Nickel	10 to 500	±15% fixed acceptance limit				8.5
Drinking Water	0007	1140	Selenium[1]	10 to 100	±20% fixed acceptance limit				8.0
Drinking Water	0008	1150	Silver	20 to 300	±30% fixed acceptance limit				14
Drinking Water	0143	1165	Thallium[1]	2 to 10	±30% fixed acceptance limit				1.4
Drinking Water	0238	1185	Vanadium	50 to 1000	±15% fixed acceptance limit				42
Drinking Water	0239	1190	Zinc	200 to 2000	±15% fixed acceptance limit				170
			Nutrients	mg/L					
Drinking Water	0009	1810	Nitrate as N[1]	3 to 10	±10% fixed acceptance limit				2.7
Drinking Water		1820	Nitrate + Nitrite as N	3 to 10	±15% fixed acceptance limit				2.6
Drinking Water	0092	1840	Nitrite as N[1]	0.4 to 2	±15% fixed acceptance limit				0.34
Drinking Water	0261	1870	Orthophosphate as P	0.5 to 5.5	±15% fixed acceptance limit				0.43

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective: November 03, 2017

Red = Previous Experimental Analytes | Blue = New Analyte/Header/Footnote | Magenta = Changes

Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte[4,2]	Conc Range	Acceptance Criteria[3,4,5,6] a	b	c	d	NELAC PTRL[7]
			Minerals	mg/L					mg/L
Drinking Water	0287	1575	Chloride	20 to 160	±15% fixed acceptance limit				17
Drinking Water	0010	1730	Fluoride[1]	1 to 8	±10% fixed acceptance limit				0.90
Drinking Water	0145	2000	Sulfate	25 to 250	±15% fixed acceptance limit				21
Drinking Water	0286	1125	Potassium	10 to 40	±15% fixed acceptance limit				8.5
Drinking Water	0029	1155	Sodium	12 to 50	±15% fixed acceptance limit				11
Drinking Water	0283	1035	Calcium	30 to 90	±15% fixed acceptance limit				26
Drinking Water	0285	1085	Magnesium	2 to 20	±15% fixed acceptance limit				1.7
Drinking Water	0025	1550	Ca Hardness as $CaCO_3$	75 to 225	±15% fixed acceptance limit				64
Drinking Water		1755	Total Hardness as $CaCO_3$	83 to 307	±15% fixed acceptance limit				71
			Inorganic Disinfection By-Products	µg/L					µg/L
Drinking Water	0193	1535	Bromate[1]	7 to 50	±30% fixed acceptance limit				4.9
Drinking Water	0260	1540	Bromide	50 to 300	±15% fixed acceptance limit				42
Drinking Water	0194	1570	Chlorate	60 to 180	±30% fixed acceptance limit				42
Drinking Water	0195	1595	Chlorite[1]	100 to 1000	±30% fixed acceptance limit				70
			Misc Analytes	mg/L					mg/L
Drinking Water	0027	1505	Alkalinity as $CaCO_3$/L	25 to 200	±10% fixed acceptance limit				22
Drinking Water	0253	1520	Asbestos[1]	1.5 to 20 MF/L	study mean		0.2971	0.4164	1 MF/L
Drinking Water		1620	Corrosivity[13i]	-4 to +4 SI units	± 0.4 SI units fixed acceptance				Not Applicable
Drinking Water	0146	1635	Cyanide[1,13b]	0.1 to 0.5	±25% fixed acceptance limit				0.075
Drinking Water		1710	Dissolved Organic Carbon (DOC)	1.3 to 13	0.9744	0.0960	0.0402	0.0700	1.1
Drinking Water		1895	Perchlorate	4 to 20 µg/L	±20% fixed acceptance limit				3.2 ug/L
Drinking Water	0026	1900	pH	5 to 10 units	± 0.2 units fixed acceptance limit				Not Applicable
Drinking Water	0022	1945	Residual Free Chlorine	0.5 to 3.0	1.0000	0.0004	0.0776	0.0246	0.37
Drinking Water		1990	Silica as SiO_2	5 to 75	±15% fixed acceptance limit				4.2
Drinking Water	0288	1610	Specific Conductance	130 to 1300 µmhos/cm	±10% fixed acceptance limit				117 µmhos/cm
Drinking Water		2025	Surfactants - MBAS	0.1 to 1.0	0.9804	0.0054	0.0673	0.0348	0.020
Drinking Water		1940	Total Residual Chlorine	0.5 to 3.0	1.0000	-0.0048	0.0723	0.0065	0.40
Drinking Water	0024	1955	Total Filterable Residue	100 to 1000	±20% fixed acceptance limit				80
Drinking Water	0263	2040	Total Organic Carbon	1.3 to 13	±20% fixed acceptance limit				1.0
Drinking Water	0023	2055	Turbidity[1,13c]	0.5 to 8 NTU	0.9755	0.0593	0.0565	0.0661	0.36 NTU
Drinking Water		2060	UV 254 Absorbance	0.05 to 0.7 cm-1	0.9919	0.0043	0.0872	0.0034	0.038 cm-1

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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 Organic Compounds (VOCs)[4]	µg/L					µg/L
Drinking Water	0039	4375	Benzene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0037	4455	Carbon Tetrachloride[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0049	4475	Chlorobenzene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0054	4610	1,2-Dichlorobenzene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0041	4620	1,4-Dichlorobenzene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0035	4635	1,2-Dichloroethane[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0034	4640	1,1-Dichloroethylene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0043	4645	Cis-1,2-Dichloroethylene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0042	4700	Trans-1,2-Dichloroethylene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0055	4975	Dichloromethane (Methylene Chloride)[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0044	4655	1,2 Dichloropropane[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0048	4765	Ethylbenzene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0053	5100	Styrene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0040	5115	Tetrachloroethylene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0047	5140	Toluene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0036	5160	1,1,1-Trichloroethane[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0061	5165	1,1,2-Trichloroethane[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0038	5170	Trichloroethylene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0076	5155	1,2,4-Trichlorobenzene[1]	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0032	5235	Vinyl Chloride[1]	2 to 50	±40% fixed acceptance limit				1.2
Drinking Water	0090	5260	Total Xylenes[1,14]	2 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
				µg/L					µg/L
Drinking Water	0019	4395	Bromodichloromethane[1]	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0018	4400	Bromoform[1]	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0020	4575	Chlorodibromomethane[1]	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0017	4505	Chloroform[1]	5 to 50	±20% fixed acceptance limit				4.0

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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 Organic Compounds (VOCs)[4] cont'	µg/L					µg/L
Drinking Water	0067	4385	Bromobenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0089	4390	Bromochloromethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0069	4950	Bromomethane	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0079	4435	n-Butylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0086	4440	Sec-Butylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0085	4445	Tert-Butylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0070	4485	Chloroethane	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0068	4960	Chloromethane	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0071	4535	2-Chlorotoluene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0072	4540	4-Chlorotoluene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0057	4595	Dibromomethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0066	4615	1,3-Dichlorobenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0088	4625	Dichlorodifluoromethane	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0056	4630	1,1-Dichloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0059	4660	1,3-Dichloropropane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0060	4665	2,2-Dichloropropane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0058	4670	1,1-Dichloropropene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0152	4680	Cis-1,3-Dichloropropene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0153	4685	Trans-1,3-Dichloropropene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0081	4835	Hexachlorobutadiene	5 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				3.0
Drinking Water	0084	4900	Isopropylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0083	4910	4-Isopropyltoluene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water		5000	Methyl-tert-butylether (MTBE)	5 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				3.0
Drinking Water		5005	Naphthalene	5 to 50	± 40% at < 10 ± 30% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0078	5090	n-Propylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0063	5105	1,1,1,2-Tetrachloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0065	5110	1,1,2,2-Tetrachloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0077	5150	1,2,3-Trichlorobenzene	5 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				3.0
Drinking Water	0087	5175	Trichlorofluoromethane	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0064	5180	1,2,3-Trichloropropane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0075	5210	1,2,4-Trimethylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0082	5215	1,3,5-Trimethylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
			Low-Level Volatile Organic Compounds	µg/L					µg/L
Drinking Water	0045	4570	1,2-Dibromo-3-chloropropane (DBCP)[1]	0.1 to 2	±40% fixed acceptance limit				0.06
Drinking Water	0046	4585	Ethylene Dibromide (EDB)[1]	0.05 to 2	±40% fixed acceptance limit				0.03
Drinking Water		5180	1,2,3-Trichloropropane	0.2 to 2.0	±40% fixed acceptance limit				0.12

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			Pesticides[1]	µg/L					µg/L
Drinking Water	0093	7005	Alachlor[1]	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water	0256	7025	Aldrin	0.2 to 2.5	0.8618	-0.0012	0.2025	0.0054	0.08
Drinking Water	0094	7065	Atrazine[1]	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water		7160	Butachlor	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water	0097	7250	Chlordane (technical)[1]	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water	0258	7470	Dieldrin	0.5 to 2.5	±45% fixed acceptance limit				0.28
Drinking Water	0011	7540	Endrin[1]	0.2 to 2.5	±30% fixed acceptance limit				0.14
Drinking Water	0095	7685	Heptachlor[1]	0.2 to 2.5	±45% fixed acceptance limit				0.11
Drinking Water	0096	7690	Heptachlor Epoxide (beta)[1]	0.2 to 2.5	±45% fixed acceptance limit				0.11
Drinking Water	0172	6275	Hexachlorobenzene[1]	0.5 to 5	0.8727	0.0048	0.1795	0.0195	0.22
Drinking Water	0112	6285	Hexachlorocyclopentadiene[1]	2 to 20	0.8508	0.0882	0.2716	0.1073	0.49
Drinking Water	0012	7120	Lindane[1]	0.2 to 2.5	±45% fixed acceptance limit				0.11
Drinking Water	0013	7810	Methoxychlor[1]	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water		7835	Metolachlor	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water		7845	Metribuzin	2 to 20	±50% fixed acceptance limit				1.0
Drinking Water	0259	8045	Propachlor	1 to 10	±45% fixed acceptance limit				0.55
Drinking Water	0113	8125	Simazine[1]	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water	0014	8250	Toxaphene (total)[1]	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water	0244	8295	Trifluralin	1 to 10	±45% fixed acceptance limit				0.55
			Carbamates & Vydate	µg/L					µg/L
Drinking Water	0098	7010	Aldicarb	15 to 100	±25% fixed acceptance limit				11
Drinking Water	0099	7015	Aldicarb Sulfone	15 to 100	±25% fixed acceptance limit				11
Drinking Water	0100	7020	Aldicarb Sulfoxide	15 to 80	±25% fixed acceptance limit				11
Drinking Water		7195	Carbaryl	15 to 100	±25% fixed acceptance limit				11
Drinking Water	0101	7205	Carbofuran[1]	15 to 150	±45% fixed acceptance limit				8.3
Drinking Water		7710	3-Hydroxycarbofuran	15 to 80	±20% fixed acceptance limit				12
Drinking Water	0245	7805	Methomyl	15 to 100	±20% fixed acceptance limit				12
Drinking Water	0114	7940	Oxamyl (Vydate)[1]	15 to 100	±25% fixed acceptance limit				11
			Chlorinated Acid Herbicides[13d]	µg/L					µg/L
Drinking Water	0262	8505	Acifluorfen	10 to 100	±50% fixed acceptance limit				5.0
Drinking Water	0015	8545	2,4-D[1,13e]	10 to 100	±50% fixed acceptance limit				5.0
Drinking Water		8560	2,4-DB	20 to 120	±50% fixed acceptance limit				10
Drinking Water	0115	8555	Dalapon[1]	10 to 100	±50% fixed acceptance limit				5.0
Drinking Water	0247	8595	Dicamba	20 to 100	±50% fixed acceptance limit				10
Drinking Water	0116	8620	Dinoseb[1]	7 to 70	0.8480	0.8414	0.2628	0.0044	3.1
Drinking Water	0102	6605	Pentachlorophenol[1]	1 to 25	±50% fixed acceptance limit				0.50
Drinking Water	0117	8645	Picloram[1]	10 to 100	±50% fixed acceptance limit				5.0
Drinking Water	0016	8650	2,4,5-TP (Silvex)[1]	10 to 100	±50% fixed acceptance limit				5.0
Drinking Water		8655	2,4,5-T	10 to 100	±50% fixed acceptance limit				5.0

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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte[4,2]	Conc Range	Acceptance Criteria[3,4,5,6] a	b	c	d	NELAC PTRL[7]
			Other Herbicides	µg/L					µg/L
Drinking Water	0137	9390	Diquat[1,13f]	8 to 40	±50% fixed acceptance limit				4.0
Drinking Water	0138	7525	Endothall[1,13g]	80 to 500	±50% fixed acceptance limit				40
Drinking Water	0139	9411	Glyphosate[1]	375 to 800	±20% fixed acceptance limit				300
			Haloacetic acids	µg/L					µg/L
Drinking Water	0250	9315	Bromochloroacetic Acid	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0157	9357	Dibromoacetic Acid[1]	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0158	9360	Dichloroacetic Acid[1]	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0160	9312	Monobromoacetic Acid[1]	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0161	9336	Monochloroacetic Acid[1]	10 to 50	±40% fixed acceptance limit				6.0
Drinking Water	0162	9642	Trichloroacetic Acid[1]	5 to 50	±40% fixed acceptance limit				3.0
			Adipate/Phthalate	µg/L					µg/L
Drinking Water	0134	6062	Di(2-Ethylhexyl) Adipate[1]	8 to 50	0.9817	-0.4239	0.1250	1.4658	2.5
Drinking Water	0136	6065	Di(2-Ethylhexyl) Phthalate[1]	5 to 50	0.9216	1.3142	0.2049	0.7388	2.4
			PCBs in Water[2]	µg/L					µg/L
Drinking Water	0118	9105	PCBs as Decachlorobiphenyl[1,13h]	0.5 to 5	±100% fixed acceptance limit				0.05
Drinking Water		8872	PCB Aroclor Identification		Correct identification of Aroclor examined				
			PAH	µg/L					µg/L
Drinking Water	0122	5580	Benzo(a)pyrene[1]	0.2 to 2.5	0.8471	-0.0040	0.1854	0.0547	0.02
			Dioxin	pg/L					pg/L
Drinking Water	0252	9618	2,3,7,8-Tetrachloro-dibenzodioxin[1]	20 to 100	0.8642	1.4865	0.1392	1.1445	11

1) All analytes regulated under the US EPA's Safe Drinking Water Act must be spiked at non-zero assigned values, except when not required for evaluation in a supplemental PT study and when specified i

2) One sample in every study, containing one Aroclor, selected at random from among the Aroclors listed (1016, 1221, 1232, 1242, 1248, 1254 or 1260) for the analysis of PCBs as decachlorobiphenyl.

3) The acceptance criteria found in 40 CFR Part 141 are incorporated herein by reference. Acceptance criteria for FoPTs not included in 40 CFR Part 141 are presented in this table.
Acceptance limits are set at the Mean ± 2 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 only 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.)
Quantitative Microbiology acceptance criteria (e.g., HPC) are based on the robust participant Mean and SD determined from each respective PT study, after outlier removal.

4) If the lower acceptance limit generated using the criteria contained in this table is less than (<) 10% of the assigned value, the lower acceptance limits are set at 10% of the assigned value, with the exception of Microbiology analytes.

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, with the exception of Microbiology analytes.

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective: November 03, 2017

Red = Previous Experimental Analytes | Blue = New Analyte/Header/Footnote | Magenta = Changes

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]

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, with the exception of Microbiology analytes.

7) NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. These levels are the lowest acceptable results that could be obtained from the lowest spike level for each analyte. The laboratory should report any positive result down to the PTRL. It is recognized that in some cases (especially for analytes that typically exhibit low recovery) the PTRL may be below the standard laboratory reporting limit. However, the laboratory should use a method that is sensitive enough to generate results at the PTRL shown. NELAC PTRLs are also provided as guidance to PT Providers. At a minimum for all analytes with an assigned value equal to "0", the PT Provider should verify that the sample does not contain the analyte at a concentration greater than or equal to the PTRL.

8) The ten-sample set which is provided to the participant laboratories shall contain bacteria that produces the following results when analyzed:
Positive results for total coliforms, fecal coliforms and E.coli.
Positive results for total coliforms and negative results for fecal coliforms and E.coli.
Negative results for total coliforms, fecal coliforms and E.coli.
These limits are for Presence-Absence only.

9) The ten-sample set shall be assigned lot numbers and randomly composed of samples as follows:

Two to four samples containing an aerogenic strain of Escherichia which will ensure positive results for total coliforms, fecal coliforms and E.coli.when analyzed by any of the USEPA approved methods.

Two to four samples containing an aerogenic strain of Enterobacter species and/or other microorganism which will ensure positive results for total coliforms and negative result for fecal coliforms and E.coli. when analyzed by any of the USEPA approved methods.

One to two samples containing Pseudomonas species and/or other microorganism which will ensure negative results for total coliforms, fecal coliforms and E.coli. when analyzed by any of the USEPA approved methods.

One to two samples which do not contain any microorganism which ensure negative results for total coliforms, fecal coliforms and E.coli. when analyzed by any of the USEPA approved methods.

10) Laboratories analyzing qualitative sample sets for more than one method in a particular study shall obtain a unique ten-sample set for each method reported as specified in Footnote 9.

11) These limits are for quantitative methods using membrane filtration (MF) or pour-plate (PP) techniques.

12) These limits are for quantitative methods using most probable number (MPN) techniques.

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective: November 03, 2017

			Red = Previous Experimental Analytes	Blue = New Analyte/Header/Footnote				Magenta = Changes	
Matrix	EPA	NELAC	Analyte[1,2]	Conc Range	Acceptance Criteria[3,4,5,6]				NELAC PTRL[7]
	Analyte	Analyte			a	b	c	d	
	Code	Code							
13) The following recommended sample designs, which were used in past USEPA studies, should be used as model designs because other designs may not give equivalent statistics. PT study providers may vary their sample designs from those shown. The specifics within each sample are within the discretion of the PT study Provider.									
	a) Design criteria for Mercury – 1:1 (mole:mole as Hg) Mercuric Oxide and Methyl Mercuric Chloride.								
	b) Design criteria for Cyanide – uncomplexed, e.g., Potassium Cyanide.								
	c) Design criterion for Turbidity - Formazin is the source for Turbidity.								
	d) Design criteria for Chlorinated Acid Herbicides - should be supplied in the acid form of the target herbicide.								
	e) Design criteria for 2,4-D – should be at least half the butyl ester with the remainder in the acid form.								
	f) Design criteria for Diquat – Starting material is Diquat Dibromide Monohydrate as required in the method. All assigned values and reported values should be as Diquat.								
	g) Design criteria for Endothall – Starting material is Endothall Monohydrate as required in the method. All assigned values and reported values should be as Endothall.								
	h) Design criteria for Decachlorobiphenyl – The source of the Decachlorobiphenyl is one of the following Aroclors: 1016, 1221, 1232, 1242, 1248, 1254, 1260. The assigned value of the Decachlorobiphenyl is to be calculated by the provider from the concentration of the Aroclor used to prepare the sample according to Table 1 of the USEPA Method 508A.								
	i) Design criteria for Corrosivity (Langlier Index) - The assigned value is to be calculated based on the solution ionic strength as calculated from Total Filterable Residue.								
14) Volatile Organic Compounds must contain all three Xylene isomers. The concentration range of o-Xylene and m&p-Xylene is 1-25 µg/L each.									

				TNI/NELAP PT for Accreditation						Comment
				Fields of Proficiency Testing with PTRLs						
				Non-Potable Water (NPW)						
				Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
			Microbiology	CFU/100 mL					CFU/100 mL	
NPW	0233	2500	Total Coliform, MF [8]	20 to 2400	Log transform; ±3 SD				2	
NPW	0235	2530	Fecal Coliform, MF [8]	20 to 2400	Log transform; ±3 SD				2	
NPW		2525	E.coli, MF [8]	20 to 2400	Log transform; ±3 SD				2	
NPW		2520	Enterococci, MF [8]	20 to 1000	Log transform; ±3 SD				2	
				MPN/100 mL					MPN/100 mL	
NPW	0234	2500	Total Coliform, MPN [9]	20 to 2400	Log transform; ±3 SD				2	
NPW	0236	2530	Fecal Coliform, MPN [9]	20 to 2400	Log transform; ±3 SD				2	
NPW		2525	E.coli, MPN [9]	20 to 2400	Log transform; ±3 SD				2	
NPW		2520	Enterococci, MPN [9]	20 to 1000	Log transform; ±3 SD				2	
			Trace Metals	µg/L					µg/L	
NPW	0001	1000	Aluminum	200 to 4000	0.9823	9.5889	0.0471	11.2110	144	
NPW	0016	1005	Antimony	90 to 900	0.9864	-1.1174	0.0471	6.1230	57	
NPW	0002	1010	Arsenic	90 to 900	0.9916	1.2647	0.0422	5.1741	64	
NPW	0237	1015	Barium	100 to 2500	±15% fixed acceptance limit				85	
NPW	0003	1020	Beryllium	50 to 500	±15% fixed acceptance limit				42	
NPW		1025	Boron	800 to 2000	±15% fixed acceptance limit				680	
NPW	0004	1030	Cadmium	100 to 1000	±15% fixed acceptance limit				85	
NPW	0006	1040	Chromium, total	100 to 1000	±15% fixed acceptance limit				85	
NPW	0238	1045	Chromium VI	90 to 900	0.9917	1.0232	0.0476	2.2011	71	
NPW	0005	1050	Cobalt	100 to 1000	±15% fixed acceptance limit				85	
NPW	0007	1055	Copper	100 to 1000	±15% fixed acceptance limit				85	
NPW	0008	1070	Iron	200 to 4000	±15% fixed acceptance limit				170	
NPW	0012	1075	Lead	100 to 1500	±15% fixed acceptance limit				85	
NPW	0010	1090	Manganese	200 to 2000	±15% fixed acceptance limit				170	
NPW	0009	1095	Mercury [10a]	3.0 to 30	±30% fixed acceptance limit				0.9	
NPW	0074	1100	Molybdenum	60 to 600	0.9953	-0.1614	0.0372	2.5555	45	
NPW	0011	1105	Nickel	200 to 2000	1.0012	1.5795	0.0368	3.8151	168	
NPW	0013	1140	Selenium	100 to 1000	±15% fixed acceptance limit				85	
NPW	0017	1150	Silver	100 to 1000	±15% fixed acceptance limit				85	
NPW	0075	1160	Strontium	50 to 500	±15% fixed acceptance limit				42	
NPW	0018	1165	Thallium	80 to 800	0.9932	-0.9634	0.0479	4.2361	54	
NPW	0239	1175	Tin	200 to 2000	±30% fixed acceptance limit				140	
NPW	0076	1180	Titanium	60 to 300	±15% fixed acceptance limit				51	
NPW	0014	1185	Vanadium	50 to 2000	±15% fixed acceptance limit				42	
NPW	0015	1190	Zinc	300 to 2000	±15% fixed acceptance limit				255	

				TNI/NELAP PT for Accreditation						Comment
				Fields of Proficiency Testing with PTRLs						
				Non-Potable Water (NPW)						
				Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
			Demands [10b]	mg/L					mg/L	
NPW	0038	1530	5-day BOD [10c]	18 to 230	0.6237	0.7022	0.0928	0.6636	4.9	
NPW	0102	1555	Carbonaceous BOD [10c]	18 to 230	0.5648	0.6665	0.0965	0.8253	3.1	
NPW	0036	1565	COD [10d]	30 to 250	0.9843	-0.3171	0.0432	3.0191	16	
NPW	0037	2040	TOC [10e]	6.0 to 100	0.9926	0.1680	0.0473	0.3536	4.2	
			Minerals	mg/L					mg/L	
NPW	0027	1505	Alkalinity, total ($CaCO_3$)	25 to 400	±20% at < 40; ±15% at ≥ 40 fixed acceptance limit				20	
NPW		1540	Bromide	1.0 to 10	1.0098	-0.0533	0.0400	0.0912	0.56	
NPW	0023	1035	Calcium	10 to 100	±15% fixed acceptance limit				8.5	
NPW	0028	1575	Chloride	35 to 275	1.0005	0.0490	0.0376	0.3716	30	
NPW	0029	1730	Fluoride	0.4 to 4	0.9748	0.0156	0.0487	0.0277	0.26	
NPW		1550	Calcium hardness as CaCO3	25 to 250	±15% fixed acceptance limit				21	
NPW	0022	1755	Hardness, total ($CaCO_3$)	40 to 415	±15% fixed acceptance limit				34	
NPW	0024	1085	Magnesium	4.0 to 40	±15% fixed acceptance limit				3.4	
NPW	0026	1125	Potassium	4.0 to 40	±20% fixed acceptance limit				3.2	
NPW	0025	1155	Sodium	10 to 100	±20% fixed acceptance limit				8.0	
NPW	0020	1610	Spec. Cond. (25°C)	200 to 1200 µmhos/cm	±10% fixed acceptance limit				180 µmhos/cm	
NPW	0030	2000	Sulfate	5.0 to 125	0.9880	-0.2130	0.0473	0.3309	3.0	
NPW		2005	Sulfide	2.0 to 10	0.9657	-0.1271	0.1205	0.2816	0.20	
NPW	0021	1955	Total Dissolved Solids at 180°C	140 to 800	1.0000	0.0000	0.0000	15.0000	95	
NPW	0105	1950	Total Solids	140 to 800	1.0000	0.0000	0.0000	15.0000	95	
			Nutrients	mg/L					mg/L	
NPW	0031	1515	Ammonia as N	1.0 to 20	0.9923	0.0567	0.0583	0.0914	0.60	
NPW	0032	1810	Nitrate as N	2.0 to 25	0.9975	-0.0005	0.0506	0.0642	1.50	
NPW		1820	Nitrate-nitrite as N	2.5 to 25	0.9957	-0.0010	0.0509	0.0400	1.99	
NPW		1840	Nitrite as N	0.4 to 4.0	1.0017	-0.0030	0.0377	0.0250	0.28	
NPW	0033	1870	Orthophosphate as P	0.5 to 5.5	±15% fixed acceptance limit				0.42	
NPW	0034	1795	Total Kjeldahl-Nitrogen [10f]	3.0 to 35	0.9701	0.2283	0.0680	0.1906	1.95	
NPW	0035	1910	Total Phosphorus	0.5 to 10	0.9932	0.0084	0.0506	0.0254	0.35	

				TNI/NELAP PT for Accreditation					Comment
				Fields of Proficiency Testing with PTRLs					
				Non-Potable Water (NPW)					
				Green= Revision 1	Blue = New Analyte		Magenta = Changes	Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]			NELAC PTRL [7]	
	Analyte	Analyte							
	Code	Code			a	b	c	d	
			Misc. Analytes	mg/L					mg/L
NPW		1500	Acidity, as CaCO3	650 to 1800	±10% fixed acceptance limit				585
NPW		1605	Color	10 to 75 PC units	0.9474	0.6098	0.0367	2.4407	1.7 PC units
NPW	0072	1960	Total Suspended Solids	20 to 100	0.9728	-0.6338	0.0300	1.5793	12
NPW	0019	1900	pH [10g]	5.0 to 10 units	± 0.2 units fixed acceptance limit				Not applicable
NPW	0071	1645	Total Cyanide [10h]	0.1 to 1	±35% fixed acceptance limit				0.065
NPW	0097	1905	Total Phenolics (4AAP) [10i]	0.5 to 5	0.6408	0.0250	0.1038	0.0082	0.16
NPW	0098	1940	Total Residual Chlorine	0.5 to 3.0	0.9345	0.0392	0.0688	0.0073	0.38
NPW		1965	Settleable solids	5.0 to 50 mL/L	1.0436	-0.0108	0.0597	0.4546	2.9 mL/L
NPW		1990	Silica as SiO2	50 to 250	±25% fixed acceptance limit				38
NPW		2025	Surfactants - MBAS	0.2 to 1.0	1.0421	-0.0068	0.1326	0.0046	0.10
NPW		2055	Turbidity [10j]	2.0 to 30 NTU	1.0040	-0.0368	0.0475	0.1575	1.2 NTU
NPW		1970	Volatile solids, Total	100 to 500	0.9644	-4.7559	0.0182	14.9450	41
			Low Level Analytes [11]						
NPW		1095	Mercury [10a]	20 to 100 ng/L	0.9910	0.2064	0.0432	2.5774	9.7
NPW		1940	Total Residual Chlorine	50 to 250 µg/L	1.0000	0.0000	0.0000	20.0000	5.0

			TNI/NELAP PT for Accreditation						Comment
			Fields of Proficiency Testing with PTRLs						
			Non-Potable Water (NPW)						
			Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]
	Analyte	Analyte							
	Code	Code			a	b	c	d	
			Volatile Aromatics [1]	µg/L					µg/L
NPW	0065	4375	Benzene	10 to 120	±30% fixed acceptance limit				7.0
NPW	0094	4610	1,2-Dichlorobenzene	10 to 120	±30% fixed acceptance limit				7.0
NPW	0096	4615	1,3-Dichlorobenzene	10 to 120	±30% fixed acceptance limit				7.0
NPW	0095	4620	1,4-Dichlorobenzene	10 to 120	±30% fixed acceptance limit				7.0
NPW	0066	4765	Ethylbenzene	10 to 120	±30% fixed acceptance limit				7.0
NPW	0222	5005	Naphthalene	15 to 150	0.8785	1.4343	0.1335	0.7561	6.3
NPW		5100	Styrene	20 to 120	±35% fixed acceptance limit				13.0
NPW	0067	5140	Toluene	10 to 120	±30% fixed acceptance limit				7.0
NPW	0092	5155	1,2,4-Trichlorobenzene	15 to 150	0.9160	-1.3028	0.1473	0.5100	4.3
NPW		5210	1,2,4-Trimethylbenzene	10 to 120	±35% fixed acceptance limit				6.5
NPW		5215	1,3,5-Trimethylbenzene	10 to 120	±35% fixed acceptance limit				6.5
NPW		5240	m/p-Xylenes	10 to 150	±40% fixed acceptance limit				6.0
NPW		5250	o-Xylene	10 to 150	±40% fixed acceptance limit				6.0
NPW	0242	5260	Xylenes, total [12]	20 to 300	±40% fixed acceptance limit				12
			Volatile Ketones/Ethers [1]	µg/L					µg/L
NPW		4315	Acetone	20 to 200	0.8856	3.5838	0.2028	1.7474	3.9
NPW		4860	2-Hexanone	20 to 200	1.0054	-1.1748	0.1534	1.7764	4.4
NPW		4995	4-Methyl-2-pentanone (MIBK)	20 to 200	1.0022	-1.0337	0.0934	4.1819	2.0
NPW		5000	Methyl tert-butyl ether (MTBE)	15 to 150	1.0233	-0.3620	0.1112	0.3083	9.0

			TNI/NELAP PT for Accreditation							Comment
			Fields of Proficiency Testing with PTRLs							
			Non-Potable Water (NPW)							
			Green= Revision 1	Blue = New Analyte			Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
			Volatile Halocarbons [1]	µg/L					µg/L	
NPW	0060	4395	Bromodichloromethane	10 to 100	±40% fixed acceptance limit				6.0	
NPW	0062	4400	Bromoform	10 to 100	±40% fixed acceptance limit				6.0	
NPW	0243	4950	Bromomethane	20 to 120	± 60% fixed acceptance limit				8.0	
NPW	0058	4455	Carbon tetrachloride	15 to 150	0.9577	0.0612	0.1269	0.3443	7.7	
NPW	0064	4475	Chlorobenzene	10 to 120	±30% fixed acceptance limit				7.0	
NPW	0244	4485	Chloroethane	20 to 120	± 60% fixed acceptance limit				8.0	
NPW	0055	4505	Chloroform	10 to 100	±30% fixed acceptance limit				7.0	
NPW	0245	4960	Chloromethane	20 to 120	± 60% fixed acceptance limit				8.0	
NPW	0061	4575	Dibromochloromethane	10 to 100	±40% fixed acceptance limit				6.0	
NPW		4570	1,2-Dibromo-3-chloropropane (DBCP)	15 to 150	±40% fixed acceptance limit				9.0	
NPW		4585	1,2-Dibromoethane (EDB)	10 to 120	±35% fixed acceptance limit				6.5	
NPW		4595	Dibromomethane	10 to 120	±35% fixed acceptance limit				6.5	
NPW		4630	1,1-Dichloroethane	10 to 150	0.9977	0.2117	0.1227	0.0174	6.4	
NPW	0054	4635	1,2 Dichloroethane	15 to 150	0.9843	1.3728	0.0912	0.4693	10.6	
NPW	0246	4640	1,1-Dichloroethene	10 to 150	1.0034	0.6630	0.1447	0.0521	6.2	
NPW		4645	cis-1,2-Dichloroethene	10 to 150	0.9973	0.3699	0.1095	0.0036	7.0	
NPW	0247	4700	trans-1,2-Dichloroethene	10 to 120	±40% fixed acceptance limit				6.0	
NPW	0248	4655	1,2-Dichloropropane	10 to 150	±30% fixed acceptance limit				7.0	
NPW		4680	cis-1,3-Dichloropropene	10 to 120	±35% fixed acceptance limit				6.5	
NPW	0249	4685	trans-1,3-Dichloropropene	10 to 120	±35% fixed acceptance limit				6.5	
NPW	0063	4975	Methylene Chloride	10 to 120	±40% fixed acceptance limit				6.0	
NPW		5105	1,1,1,2-Tetrachloroethane	15 to 150	±35% fixed acceptance limit				9.8	
NPW	0250	5110	1,1,2,2-Tetrachloroethane	15 to 150	±35% fixed acceptance limit				9.8	
NPW	0059	5115	Tetrachloroethene	10 to 150	0.9416	-0.5063	0.1189	0.3441	4.3	
NPW	0056	5160	1,1,1-Trichloroethane	10 to 100	±40% fixed acceptance limit				6.0	
NPW	0251	5165	1,1,2-Trichloroethane	15 to 150	±30% fixed acceptance limit				10.5	
NPW	0057	5170	Trichloroethene	10 to 100	0.9611	0.5720	0.1077	0.2478	6.2	
NPW	0252	5175	Trichlorofluoromethane	20 to 120	± 60% fixed acceptance limit				8.0	
NPW		5180	1,2,3-Trichloropropane	15 to 150	0.9867	-0.4721	0.1630	0.9605	4.1	
NPW	0253	5235	Vinyl chloride	20 to 120	± 60% fixed acceptance limit				8.0	
			Low-Level Halocarbons[11]	µg/L					µg/L	
NPW		4570	1,2-Dibromo-3-chloropropane (DBCP)	0.2 to 2.0	0.9542	0.0359	0.1200	0.0161	0.11	
NPW		4585	1,2-Dibromoethane (EDB)	0.2 to 2.0	0.9341	0.0293	0.1090	0.0239	0.08	
NPW		5180	1,2,3-Trichloropropane	0.2 to 2.0	0.9284	0.0534	0.1257	0.0117	0.13	

			TNI/NELAP PT for Accreditation						Comment
			Fields of Proficiency Testing with PTRLs						
			Non-Potable Water (NPW)						
			Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
			Volatile Petroleum Hydrocarbons	µg/L					µg/L	
NPW		9408	Gasoline range organics (GRO) [13]	400 to 4000	1.0683	-7.7234	0.2162	35.0439	55	
			Base/Neutrals [1]	µg/L					µg/L	
NPW	0189	5500	Acenaphthene	10 to 200	0.7748	0.8506	0.1427	0.1159	4.0	
NPW	0190	5505	Acenaphthylene	10 to 200	0.8029	-0.2974	0.1485	0.1111	2.9	
NPW	0192	5555	Anthracene	10 to 200	0.7986	1.7870	0.1229	0.7303	3.9	
NPW	0177	5575	Benzo(a)anthracene	10 to 200	0.8381	0.5699	0.1162	0.6075	3.6	
NPW	0254	5670	Benzyl butyl phthalate	50 to 200	0.8496	-2.1863	0.1776	0.0752	13.4	
NPW	0178	5585	Benzo(b)fluoranthene	20 to 200	0.8327	0.1531	0.1497	0.1078	7.5	
NPW	0179	5600	Benzo(k)fluoranthene	20 to 200	0.8223	1.996	0.1862	1.126	7.7	
NPW	0180	5590	Benzo(g,h,i)perylene	10 to 200	0.8261	1.5562	0.1556	0.0166	5.1	
NPW	0255	5580	Benzo(a)pyrene	10 to 200	0.8207	-0.0550	0.1484	0.4349	2.4	
NPW	0198	5660	4-Bromophenyl-phenylether	20 to 200	0.8081	3.0645	0.1325	0.8996	8.6	
NPW	0195	5760	bis(2-Chloroethoxy)methane	20 to 200	0.7615	0.4890	0.1193	1.5633	3.9	
NPW	0196	5765	bis(2-Chloroethyl)ether	20 to 200	0.7090	2.3607	0.1529	0.4801	5.9	
NPW	0197	4659	2,2'-Oxybis(1-Chloropropane)[18]	30 to 200	0.7285	1.6917	0.1303	2.9025	3.1	
NPW	0256	6065	Bis(2-ethylhexyl) phthalate	20 to 200	0.8065	2.5761	0.1474	1.6124	5.0	
NPW	0204	5825	4-Chlorophenyl-phenylether	20 to 200	0.7669	3.7466	0.1417	0.2303	9.9	
NPW	0203	5795	2-Chloronaphthalene	20 to 200	0.7102	2.4854	0.1477	0.5079	6.3	
NPW	0181	5855	Chrysene	10 to 200	0.8180	2.3274	0.1351	0.2137	5.8	
NPW	0182	5895	Dibenzo(a,h)anthracene	20 to 200	0.8079	2.3890	0.1497	0.8729	6.9	
NPW		5905	Dibenzofuran	30 to 200	0.7411	2.7181	0.1159	1.0735	11.3	
NPW		4610	1,2-Dichlorobenzene	20 to 200	0.6365	0.7906	0.1517	2.2155	2.0	
NPW		4615	1,3-Dichlorobenzene	20 to 200	0.5921	3.0260	0.1787	0.3464	3.1	
NPW		4620	1,4-Dichlorobenzene	20 to 200	0.5671	3.6005	0.1640	0.4826	3.7	
NPW	0208	6070	Diethyl phthalate	50 to 200	0.7492	3.3637	0.1805	2.0213	8.9	
NPW	0209	6135	Dimethyl phthalate	50 to 200	0.6375	3.9631	0.2524	0.8174	11.5	
NPW	0205	5925	Di-n-butyl phthalate	40 to 200	0.7797	5.1233	0.1490	0.8776	15.8	
NPW	0186	6185	2,4-Dinitrotoluene	20 to 200	0.8219	0.4137	0.1183	1.7449	4.5	
NPW	0210	6190	2,6-Dinitrotoluene	20 to 200	0.7999	0.4770	0.1316	0.1368	8.2	
NPW	0211	6200	Di-n-octyl phthalate	30 to 200	0.8186	2.8779	0.1724	1.2382	8.2	
NPW	0212	6265	Fluoranthene	30 to 200	0.8087	2.9863	0.1272	0.0642	15.6	
NPW	0213	6270	Fluorene	10 to 200	0.7619	3.7583	0.1165	1.0349	4.8	
NPW	0214	6275	Hexachlorobenzene	20 to 200	0.8202	0.2263	0.1238	0.1297	8.8	
NPW	0215	4835	Hexachlorobutadiene	50 to 200	0.6286	2.6591	0.1616	1.9082	4.3	
NPW	0216	6285	Hexachlorocyclopentadiene	50 to 200	0.6216	-4.4226	0.2049	4.3222	5.0	
NPW	0217	4840	Hexachloroethane	50 to 200	0.5921	-0.0657	0.1640	0.5308	3.3	
NPW	0218	6315	Indeno(1,2,3, cd)pyrene	30 to 200	0.7115	5.0289	0.1430	1.4299	9.2	
NPW	0219	6320	Isophorone	20 to 200	0.7981	0.7053	0.1437	0.3000	7.1	
NPW		6385	2-Methylnaphthalene	20 to 200	0.6983	2.0844	0.1361	2.1436	2.0	

			TNI/NELAP PT for Accreditation						Comment
			Fields of Proficiency Testing with PTRLs						
			Non-Potable Water (NPW)						
			Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]
	Analyte	Analyte							
	Code	Code			a	b	c	d	
			Base/Neutrals [1] cont'	µg/L					µg/L
NPW	0222	5005	Naphthalene	20 to 200	0.6749	3.5514	0.1441	1.2975	4.5
NPW	0226	5015	Nitrobenzene	20 to 200	0.7463	0.9864	0.1388	0.4589	6.2
NPW	0227	6530	N-Nitrosodimethylamine	75 to 200	0.4665	7.3433	0.1652	3.9997	7.5
NPW	0230	6545	N-Nitroso-di-n-propylamine	30 to 200	0.7913	-0.0510	0.1541	0.1328	9.4
NPW	0229	6535	N-Nitrosodiphenylamine	30 to 200	0.7740	0.6711	0.2016	0.0494	5.6
NPW	0231	6615	Phenanthrene	10 to 200	0.8001	2.8698	0.1110	0.9485	4.7
NPW	0187	6665	Pyrene	10 to 200	0.8476	1.0097	0.1490	0.0530	4.9
NPW	0092	5155	1,2,4-Trichlorobenzene	20 to 200	0.6769	1.1166	0.1493	1.8128	2.0
			Acids [1]	µg/L					µg/L
NPW	0161	5700	4-Chloro-3-methylphenol	30 to 200	0.7998	0.6264	0.1421	0.0397	11.7
NPW	0162	5800	2-Chlorophenol	30 to 200	0.7292	1.4640	0.1518	0.0174	9.6
NPW	0163	6000	2,4-Dichlorophenol	30 to 200	0.7362	2.8458	0.1433	0.0585	11.9
NPW		6005	2,6-Dichlorophenol	30 to 200	0.7512	3.7563	0.1564	0.0312	12.1
NPW	0165	6130	2,4-Dimethylphenol	40 to 200	0.7496	1.4509	0.1601	0.0953	11.9
NPW	0167	6175	2,4-Dinitrophenol	100 to 200	0.6531	3.5920	0.1695	8.5727	10
NPW	0168	6360	2-Methyl-4,6-Dinitrophenol	40 to 200	0.8108	3.6290	0.1573	2.1683	10.7
NPW		6400	2-Methylphenol (o-Cresol)	40 to 200	0.6821	2.2126	0.1529	0.5485	9.5
NPW		6410	4-Methylphenol (p-Cresol) [14]	50 to 200	0.6531	2.1854	0.2008	0.7807	5.0
NPW	0171	6490	2-Nitrophenol	50 to 200	0.7631	1.1486	0.1272	2.4547	12.9
NPW	0173	6500	4-Nitrophenol	100 to 200	0.5591	-1.0075	0.2511	1.9409	10
NPW	0174	6625	Phenol	100 to 200	0.557	0.5929	0.253	1.0269	10
NPW	0158	6605	Pentachlorophenol	40 to 200	0.8469	-0.7338	0.1561	1.5178	9.9
NPW	0175	6835	2,4,5-Trichlorophenol	30 to 200	0.7726	3.2199	0.1362	0.9916	11.2
NPW	0159	6840	2,4,6-Trichlorophenol	30 to 200	0.7880	0.8051	0.1406	0.0280	11.7

			TNI/NELAP PT for Accreditation						**Comment**
			Fields of Proficiency Testing with PTRLs						
			Non-Potable Water (NPW)						
			Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]
	Analyte	Analyte							
	Code	Code			a	b	c	d	
			PCBs in Water [2]	µg/L					µg/L
NPW	0040	8880	Aroclor 1016	2.0 to 10	0.8318	0.1991	0.1591	0.0384	0.8
NPW	0041	8885	Aroclor 1221	2.0 to 10	0.8318	0.1991	0.1591	0.0384	0.8
NPW	0042	8890	Aroclor 1232	2.0 to 10	0.8318	0.1991	0.1591	0.0384	0.8
NPW	0040	8895	Aroclor 1242	2.0 to 10	0.8318	0.1991	0.1591	0.0384	0.8
NPW	0044	8900	Aroclor 1248	2.0 to 10	0.8318	0.1991	0.1591	0.0384	0.8
NPW	0045	8905	Aroclor 1254	2.0 to 10	0.8318	0.1991	0.1591	0.0384	0.8
NPW	0046	8910	Aroclor 1260	2.0 to 10	0.8318	0.1991	0.1591	0.0384	0.8
			Organochlorine Pesticides [1]	µg/L					µg/L
NPW	0047	7025	Aldrin	1.0 to 15	0.8524	-0.0159	0.1655	0.0002	0.34
NPW	0079	7110	alpha-BHC	2.0 to 20	0.8996	0.0151	0.1505	0.0349	0.81
NPW	0080	7115	beta-BHC	2.0 to 20	0.8889	0.1961	0.1372	0.0777	0.92
NPW	0081	7105	delta-BHC	2.0 to 20	0.9031	0.1036	0.1525	0.0673	0.79
NPW	0082	7120	gamma-BHC (Lindane)	2.0 to 20	0.8959	0.1095	0.1528	0.0189	0.93
NPW		7240	alpha-Chlordane	1.0 to 10	0.8842	0.0542	0.1423	0.0348	0.41
NPW		7245	gamma-Chlordane	1.0 to 10	0.8617	0.1041	0.1323	0.0716	0.35
NPW	0053	7250	Chlordane (total)	3.0 to 25	0.8501	0.4121	0.1540	0.0381	1.46
NPW	0049	7355	4,4'-DDD	2.0 to 10	0.9271	0.03839	0.1227	0.1763	0.63
NPW	0050	7360	4,4'-DDE	1.0 to 10	0.8793	0.0718	0.1468	0.0395	0.39
NPW	0051	7365	4,4'-DDT	1.0 to 10	0.8987	0.1076	0.1680	0.0337	0.40
NPW	0048	7470	Dieldrin	1.0 to 15	0.9126	0.0323	0.1327	0.0240	0.47
NPW	0083	7510	Endosulfan I	4.0 to 20	0.8698	-0.0604	0.1548	0.0549	1.40
NPW	0084	7515	Endosulfan II	4.0 to 20	0.8765	0.0994	0.1490	0.0912	1.54
NPW	0085	7520	Endosulfan sulfate	4.0 to 20	0.8752	0.5312	0.1348	0.2091	1.79
NPW	0086	7540	Endrin	2.0 to 20	0.9183	0.0706	0.1594	0.0277	0.87
NPW	0087	7530	Endrin aldehyde	4.0 to 20	0.8585	0.4845	0.1571	0.2054	1.42
NPW		7535	Endrin ketone	4.0 to 20	0.8951	0.3702	0.1135	0.1902	2.0
NPW	0052	7685	Heptachlor	1.0 to 10	0.8470	0.0457	0.1596	0.0402	0.29
NPW	0078	7690	Heptachlor Epoxide (beta)	1.0 to 10	0.9176	0.0041	0.1342	0.0268	0.44
NPW	0234	7810	Methoxychlor	2.0 to 20	0.9115	0.2801	0.1467	0.2290	0.54
NPW	0241	8250	Toxaphene	20 to 100	0.8087	1.8908	0.1991	0.5080	4.59

				TNI/NELAP PT for Accreditation						Comment
				Fields of Proficiency Testing with PTRLs						
				Non-Potable Water (NPW)						
				Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
			Herbicides [1]	µg/L					µg/L	
NPW	0257	8545	2,4-D	2 to 10	0.7204	0.2995	0.2543	0.0297	0.20	
NPW	0258	8595	Dicamba	2 to 10	0.7848	0.2788	0.1754	0.1455	0.40	
NPW	0140	8655	2,4,5-T	2 to 10	0.8132	0.1393	0.1850	0.1353	0.20	
NPW	0259	8650	2,4,5-TP (Silvex)	2 to 10	0.8349	0.1516	0.2046	0.0195	0.50	
			Low Level PAHs [1]	µg/L					µg/L	
NPW		5500	Acenaphthene	2.0 to 20	0.7600	0.1476	0.1456	0.0021	0.79	
NPW		5505	Acenaphthylene	2.0 to 20	0.7856	0.0418	0.1133	0.0687	0.73	
NPW		5555	Anthracene	0.5 to 5.0	0.8151	0.0194	0.1714	0.0115	0.14	
NPW		5575	Benzo(a)anthracene	0.5 to 5.0	0.9012	-0.0236	0.0614	0.0462	0.20	
NPW		5580	Benzo(a)pyrene	0.5 to 5.0	0.7745	0.0824	0.1162	0.0270	0.21	
NPW		5585	Benzo(b)fluoranthene	0.5 to 5.0	0.8217	0.0544	0.1167	0.0144	0.25	
NPW		5590	Benzo(g,h,i)perylene	0.5 to 5.0	0.7683	0.0737	0.1641	0.0088	0.18	
NPW		5600	Benzo(k)fluoranthene	0.5 to 5.0	0.8943	-0.0069	0.1245	0.0108	0.22	
NPW		5855	Chrysene	0.5 to 5.0	0.8883	0.0132	0.1046	0.0235	0.23	
NPW		5895	Dibenz(a,h)anthracene	0.5 to 5.0	0.7914	0.0640	0.1377	0.0520	0.10	
NPW		6265	Fluoranthene	0.5 to 5.0	0.8565	0.0211	0.1064	0.0128	0.25	
NPW		6270	Fluorene	2.0 to 10	0.7863	0.0472	0.1153	0.0631	0.74	
NPW		6315	Indeno(1,2,3-cd)pyrene	0.5 to 5.0	0.8224	0.0623	0.1316	0.0267	0.20	
NPW		5005	Naphthalene	2.0 to 10	0.7279	0.0977	0.1251	0.0803	0.56	
NPW		6615	Phenanthrene	0.5 to 5.0	0.8332	0.0256	0.1099	0.0118	0.24	
NPW		6665	Pyrene	0.5 to 5.0	0.8468	0.0435	0.1023	0.0095	0.28	
			Petroleum Hydrocarbons							
NPW		9369	Diesel range organics (DRO) [15]	800 to 6000 µg/L	0.7790	-96.0467	0.1386	109.1897	80 µg/L	
NPW	0104	1803	n-Hexane Extractable Material (O&G) [10k,16]	20 to 200 mg/L	0.9400	-0.4116	0.0545	2.0789	8.8 mg/L	
NPW		1853	non-Polar Extractable Material (TPH) [17]	20 to 200 mg/L	0.9692	-1.1573	0.1586	0.3709	7.6 mg/L	

				TNI/NELAP PT for Accreditation						Comment
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Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
1) For volatiles, base/neutrals, acids, organochlorine pesticides, herbicides, and low level PAHs, 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 (minimum) in every study, containing one Aroclor, is selected at random from among the Aroclors listed above.										
PCBs in water are collectively one Field of Proficiency Testing. Since only one Aroclor is spiked, acceptable results are based on the correct qualitative identification										
of the PCB that was spiked and quantitating that result concentration within the acceptance criteria delineated in the table above.										
3) Acceptance limits are set at the Mean ± 3 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 only 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.)										
Quantitative Microbiology acceptance criteria are based on the robust participant Mean and SD determined from each respective PT study										
4) If the lower acceptance limit generated using the criteria contained in this table is less than (<) 10% of the assigned value, the lower acceptance limits are set										
at 10% of the assigned value with the exception of microbiology analytes.										
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 with the exception of microbiology analytes.										
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 with the exception of microbiology analytes.										
7) NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. These levels are the lowest										
acceptable results that could be obtained from the lowest spike level for each analyte. The laboratory should report any positive result down to the PTRL.										
It is recognized that in some cases (especially for analytes that typically exhibit low recovery) the PTRL may be below the standard laboratory reporting										
limit. However, the laboratory should use a method that is sensitive enough to generate results at the PTRL shown. NELAC PTRLs are also provided as										
guidance to PT Providers. At a minimum for all analytes with an assigned value equal to "0", the PT Provider should verify that the sample does not contain										
the analyte at a concentration greater than or equal to the PTRL.										
8) These limits are for quantitative methods using membrane filtration techniques.										
9) These limits are for quantitative methods using most probable number techniques.										

				TNI/NELAP PT for Accreditation						Comment
				Fields of Proficiency Testing with PTRLs						
				Non-Potable Water (NPW)						
				Green= Revision 1	Blue = New Analyte		Magenta = Changes		Red = Revision 2	
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
10) The following recommended sample designs, which were used in past USEPA studies, should be used as model designs because other designs										
may not give equivalent statistics. PT study providers may vary their sample designs from those shown. The specifics within each sample are within										
the discretion of the PT study Provider.										
	a) Design criterion for Mercury – 1:1 (mole:mole as Hg) Mercuric Oxide and Methyl Mercuric Chloride.									
	b) Design criteria for Demands – 1:1 Glucose and Glutamic Acid.									
	c) Design criteria for 5-Day BOD and Carbonaceous BOD – The assigned value used for BOD and CBOD is derived from the linear relationship between the									
	BOD or CBOD value and the concentration of Glucose-Glutamic Acid (GGA) or Potassium Hydrogen Phthalate (KHP) used for the formulation.									
	For example, 150 mg/L each of Glucose & of Glutamic Acid produces a BOD of 198 mg/L, and 300 mg/L KHP produces a BOD of 240 mg/L.									
	0 mg/L GGA or KHP would produce a BOD value of 0 mg/L.									
	d) Design criterion for Chemical Oxygen Demand – The assigned value of COD is (1.066 times mg Glucose plus 0.9787 times mg Glutamic Acid) divided by total liters									
	of sample adjusted for required dilutions.									
	e) Design criterion for Total Organic Carbon – The assigned value of TOC is (0.4000 times mg Glucose plus 0.4082 times mg Glutamic Acid) divided by total liters of									
	sample adjusted for required dilutions.									
	f) Design criterion for Total Kjeldahl Nitrogen – Glycine is the source of TKN.									
	g) Design criterion for pH – in separate solution (use buffer formulation from the CRC chemical handbook).									
	h) Design criterion for Total Cyanide – Potassium Ferricyanide.									
	i) Design criterion for Total Phenolics (4AAP) – 40% Phenol, 20% 2-Chlorophenol, 20% 2,4-Dinitrophenol, 20% 2,4-Dichlorophenol (mole %),									
	calculated as mg/L Phenol.									
	j) Design criterion for Turbidity - Formazin is the source for Turbidity.									
	k) Design criterion for Oil and Grease – 1:1 Paraffin oil and cooking oil, vacuum pump oil, or similar mixture that does not contain volatile organics.									
11) The Low Level Analytes' concentration ranges and acceptance criteria are specifically intended for technologies/methods that can achieve the listed PTRL.										
12) Volatiles Aromatics must contain all three Xylene isomers. The concentration range of o-Xylene and m&p-Xylene is 10-150 µg/L each.										
13) Gasoline Range Organics (GRO) per purge-and-trap extraction followed by chromatographic analysis. GRO is defined as the carbon range between										
n-C5 and n-C10.										

				TNI/NELAP PT for Accreditation						**Comment**
				Fields of Proficiency Testing with PTRLs						
				Non-Potable Water (NPW)						
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Matrix	EPA	NELAC	Analyte [1,2]	Conc Range	Acceptance Criteria [3,4,5,6]				NELAC PTRL [7]	
	Analyte	Analyte								
	Code	Code			a	b	c	d		
14) Laboratories seeking or maintaining NELAP accreditation for Non-Potable Water 4-Methylphenol or the coeluting isomer pair of 3-Methylphenol and										
4-Methylphenol must meet the NELAC PT requirements for this Field of Proficiency Testing (4-Methylphenol).										
15) 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}.										
16) n-Hexane Extractable Material (HEM) per solvent extraction followed by gravimetric or infrared spectrometric analysis (Oil & Grease).										
17) non-Polar Extractable Material per solvent extraction and Silica Gel Treated (SGT) followed by gravimetric or infrared spectrometric analysis										
(Total Petroleum Hydrocarbons).										

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

Red = Previous Experimental Analytes/Footnotes | Blue = New Analyte/Footnote | Magenta = Changes

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	2500	to	25000	Study Mean		0.1307	293.1966	250
SOLIDS		1005	Antimony	80	to	300	Study Mean		0.4385	8.1700	8.0
SOLIDS		1010	Arsenic	40	to	400	Study Mean ± 30%				4.0
SOLIDS		1015	Barium	100	to	1000	Study Mean ± 25%				10
SOLIDS		1020	Beryllium	40	to	400	Study Mean ± 25%				4.0
SOLIDS		1025	Boron	80	to	800	Study Mean ± 40%				48
SOLIDS		1030	Cadmium	40	to	400	Study Mean ± 25%				4.0
SOLIDS		1035	Calcium	1500	to	25000	Study Mean		0.0730	87.3802	150
SOLIDS		1040	Chromium	40	to	400	Study Mean ± 30%				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 ± 25%				4.0
SOLIDS		1055	Copper	40	to	400	Study Mean ± 25%				4.0
SOLIDS		1070	Iron	5000	to	50000	Study Mean		0.1102	1500.6038	500
SOLIDS		1075	Lead	40	to	400	Study Mean		0.0791	1.9272	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 ± 40%				0.10
SOLIDS		1100	Molybdenum	30	to	300	Study Mean		0.0910	0.8106	3.0
SOLIDS		1105	Nickel	40	to	500	Study Mean ± 30%				4.0
SOLIDS		1125	Potassium	1400	to	25000	Study Mean		0.0878	98.8140	140
SOLIDS		1140	Selenium	40	to	400	Study Mean		0.0935	2.2902	4.0
SOLIDS		1150	Silver	20	to	100	Study Mean		0.0910	0.4587	2.0
SOLIDS		1155	Sodium	150	to	15000	Study Mean		0.1043	15.0068	15
SOLIDS		1160	Strontium	40	to	400	Study Mean		0.0846	0.9208	4.0
SOLIDS		1165	Thallium	40	to	400	Study Mean		0.0785	3.0637	4.0
SOLIDS		1175	Tin	50	to	250	Study Mean		0.1134	3.0560	5.0
SOLIDS		1185	Vanadium	40	to	400	Study Mean		0.0618	4.6801	4.0
SOLIDS		1190	Zinc	100	to	1000	Study Mean ± 30%				10

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

			Red = Previous Experimental Analytes/Footnotes		Blue = New Analyte/Footnote				Magenta = Changes		
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	
			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		1645	Cyanide, total	20	to	200	Study Mean		0.1701	2.0819	2.0
SOLVENT		1780	Ignitability (Flashpoint)	100	to	200 °F	± 17 °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	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		4475	Chlorobenzene	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4610	1,2-Dichlorobenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4615	1,3-Dichlorobenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4620	1,4-Dichlorobenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4765	Ethylbenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		5005	Naphthalene	40 to 200	Assigned Value ±50% fixed acceptance limit				20
SOLIDS		5100	Styrene	40 to 200	Assigned Value ±35% fixed acceptance limit				26
SOLIDS		5140	Toluene	20 to 200	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		5155	1,2,4-Trichlorobenzene	40 to 200	Assigned Value ±60% fixed acceptance limit				16
SOLIDS		5260	Xylenes, total [8]	40 to 400	Assigned Value ±45% fixed acceptance limit				22
			Volatile Halocarbons [1]	µg/kg					µg/kg
SOLIDS		4395	Bromodichloromethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4400	Bromoform	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		4455	Carbon tetrachloride	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4505	Chloroform	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4575	Dibromochloromethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	40 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4585	1,2-Dibromoethane (EDB)	20 to 200	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		4630	1,1-Dichloroethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4635	1,2-Dichloroethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4640	1,1-Dichloroethene	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4645	cis-1,2-Dichloroethene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4700	trans-1,2-Dichloroethene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4975	Dichloromethane (Methylene chloride)	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4655	1,2-Dichloropropane	20 to 200	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		4680	cis-1,3-Dichloropropene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4685	trans-1,3-Dichloropropene	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		5105	1,1,1,2-Tetrachloroethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		5110	1,1,2,2-Tetrachloroethane	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		5115	Tetrachloroethene	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		5160	1,1,1-Trichloroethane	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		5165	1,1,2-Trichloroethane	20 to 200	Assigned Value ±30% fixed acceptance limit				14
SOLIDS		5170	Trichloroethene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		5180	1,2,3-Trichloropropane	20 to 200	Assigned Value ±50% fixed acceptance limit				12

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

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]
			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	100	to	500	Assigned Value ±50% fixed acceptance limit				50
SOLIDS		4995	4-Methyl-2-pentanone (MIBK)	100	to	500	Assigned Value ±50% fixed acceptance limit				50
SOLIDS		5000	Methyl-tert-butyl ether (MTBE)	20	to	200	Assigned Value ±40% fixed acceptance limit				12
			Medium Level Volatile Aromatics [1]	µg/kg							µg/kg
SOLIDS		4375	Benzene	1000	to	10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		4475	Chlorobenzene	1000	to	10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		4610	1,2-Dichlorobenzene	1000	to	10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		4615	1,3-Dichlorobenzene	1000	to	10000	1.0087	-3.5854	0.0610	72.1547	606
SOLIDS		4620	1,4-Dichlorobenzene	1000	to	10000	0.9814	78.8567	0.0672	45.0983	723
SOLIDS		4765	Ethylbenzene	1000	to	10000	Assigned Value ±30% fixed acceptance limit				700
SOLIDS		5005	Naphthalene	2000	to	10000	1.0092	-147.4204	0.0896	204.0207	721
SOLIDS		5100	Styrene	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		5140	Toluene	1000	to	10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		5155	1,2,4-Trichlorobenzene	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		5260	Xylenes, total [8]	2000	to	20000	Assigned Value ±30% fixed acceptance limit				700

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

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]
			Medium Level Volatile Halocarbons [1]	µg/kg							µg/kg
SOLIDS		4395	Bromodichloromethane	1000	to	10000	Assigned Value ±35% fixed acceptance limit				650
SOLIDS		4400	Bromoform	1000	to	10000	Assigned Value ±40% fixed acceptance limit				600
SOLIDS		4455	Carbon tetrachloride	1000	to	10000	0.9879	26.1250	0.1091	69.0570	480
SOLIDS		4505	Chloroform	1000	to	10000	Assigned Value ±30% fixed acceptance limit				700
SOLIDS		4575	Dibromochloromethane	1000	to	10000	Assigned Value ±30% fixed acceptance limit				700
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4585	1,2-Dibromoethane (EDB)	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4595	Dibromomethane	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4630	1,1-Dichloroethane	1000	to	10000	Assigned Value ±35% fixed acceptance limit				650
SOLIDS		4635	1,2-Dichloroethane	1500	to	10000	0.9960	32.3273	0.0711	81.3421	930
SOLIDS		4640	1,1-Dichloroethene	2000	to	10000	Assigned Value ±50% fixed acceptance limit				1000
SOLIDS		4645	cis-1,2-Dichloroethene	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4700	trans-1,2-Dichloroethene	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4975	Dichloromethane (Methylene chloride)	1000	to	10000	Assigned Value ±40% fixed acceptance limit				600
SOLIDS		4655	1,2-Dichloropropane	2000	to	10000	Assigned Value ±30% fixed acceptance limit				1400
SOLIDS		4680	cis-1,3-Dichloropropene	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4685	trans-1,3-Dichloropropene	2000	to	10000	Assigned Value ±40% fixed acceptance limit				1200
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	1.0045	93.5934	0.1125	4.6555	747
SOLIDS		5160	1,1,1-Trichloroethane	1000	to	10000	Assigned Value ±40% fixed acceptance limit				600
SOLIDS		5165	1,1,2-Trichloroethane	1000	to	10000	Assigned Value ±35% fixed acceptance limit				650
SOLIDS		5170	Trichloroethene	1000	to	10000	0.9971	67.2206	0.0840	56.3450	643
SOLIDS		5180	1,2,3-Trichloropropane	1500	to	10000	Assigned Value ±45% fixed acceptance limit				825
			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	Assigned Value ±50% fixed acceptance limit				2000
SOLIDS		4995	4-Methyl-2-pentanone (MIBK)	4000	to	20000	Assigned Value ±50% fixed acceptance limit				2000
SOLIDS		5000	Methyl-tert-butyl ether (MTBE)	2000	to	10000	Assigned Value ±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

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

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]
			Base/Neutrals [1]	µg/kg							µg/kg
SOLIDS		5500	Acenaphthene	1000	to	12000	Study Mean		0.1967	2.4526	100
SOLIDS		5505	Acenaphthylene	1000	to	12000	Study Mean		0.2110	0.8053	100
SOLIDS		5555	Anthracene	1000	to	12000	Study Mean		0.1677	68.9191	100
SOLIDS		5575	Benzo(a)anthracene	1000	to	12000	Study Mean		0.1671	20.6877	100
SOLIDS		5585	Benzo(b)fluoranthene	1000	to	12000	Study Mean		0.1929	23.6955	100
SOLIDS		5600	Benzo(k)fluoranthene	1000	to	12000	Study Mean		0.1966	5.3583	100
SOLIDS		5590	Benzo(g,h,i)perylene	1000	to	12000	Study Mean		0.1958	26.7399	100
SOLIDS		5580	Benzo(a)pyrene	1000	to	12000	Study Mean		0.1801	66.9233	100
SOLIDS		5660	4-Bromophenyl-phenylether	1500	to	15000	Study Mean		0.1949	25.3431	150
SOLIDS		5670	Butylbenzylphthalate	1000	to	12000	Study Mean		0.2095	16.2887	100
SOLIDS		5765	bis(2-Chloroethyl)ether	1500	to	15000	Study Mean		0.2158	173.8570	150
SOLIDS		5760	bis(2-Chloroethoxy)methane	1000	to	12000	Study Mean		0.1953	88.5249	100
SOLIDS		4659	2,2'-Oxybis(1-Chloropropane)[13]	1500	to	15000	Study Mean		0.2515	26.3474	150
SOLIDS		5795	2-Chloronaphthalene	1000	to	12000	Study Mean		0.2181	6.8913	100
SOLIDS		5825	4-Chlorophenyl-phenylether	1000	to	12000	Study Mean		0.2077	5.9161	100
SOLIDS		5855	Chrysene	1000	to	12000	Study Mean		0.1626	29.1501	100
SOLIDS		5895	Dibenz(a,h)anthracene	1000	to	12000	Study Mean		0.1868	81.9994	100
SOLIDS		5905	Dibenzofuran	1500	to	15000	Study Mean		0.1772	34.8698	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	1000	to	12000	Study Mean		0.1952	14.2186	100
SOLIDS		6135	Dimethylphthalate	1000	to	12000	Study Mean		0.1898	37.0036	100
SOLIDS		5925	Di-n-butylphthalate	1000	to	12000	Study Mean		0.2232	24.5306	100
SOLIDS		6185	2,4-Dinitrotoluene	1500	to	15000	Study Mean		0.1901	59.3569	150
SOLIDS		6190	2,6-Dinitrotoluene	1500	to	15000	Study Mean		0.1804	16.8136	150
SOLIDS		6200	Di-n-octylphthalate	1000	to	12000	Study Mean		0.2306	52.0201	100
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		0.1714	57.1721	100
SOLIDS		4840	Hexachloroethane	1500	to	15000	Study Mean		0.3365	0.7453	150
SOLIDS		6275	Hexachlorobenzene	1500	to	15000	Study Mean		0.1713	4.7899	150
SOLIDS		4835	Hexachlorobutadiene	1500	to	15000	Study Mean		0.2252	61.2677	150
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	1000	to	12000	Study Mean		0.2577	6.0686	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		0.2408	35.4651	100
SOLIDS		5015	Nitrobenzene	1500	to	15000	Study Mean		0.2129	84.7934	150
SOLIDS		6545	N-Nitroso-di-n-propylamine	1500	to	15000	Study Mean		0.2463	5.3389	150
SOLIDS		6615	Phenanthrene	1000	to	12000	Study Mean		0.1801	5.2498	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		0.1952	170.2017	150
			Acids [1]	µg/kg							µg/kg
SOLIDS		5700	4-Chloro-3-methylphenol	1500	to	15000	Study Mean		0.1989	52.6198	150
SOLIDS		5800	2-Chlorophenol	1500	to	15000	Study Mean		0.2418	15.4376	150
SOLIDS		6000	2,4-Dichlorophenol	1500	to	15000	Study Mean		0.2092	70.7176	150
SOLIDS		6400	2-Methylphenol (o-Cresol)	3000	to	15000	Study Mean		0.2419	113.6401	300
SOLIDS		6410	4-Methylphenol (p-Cresol) [10]	3000	to	15000	Study Mean ±3SD				300
SOLIDS		6490	2-Nitrophenol	3000	to	15000	Study Mean		0.2513	18.3228	300
SOLIDS		6500	4-Nitrophenol	3000	to	15000	Study Mean		0.3639	171.2300	300
SOLIDS		6625	Phenol	1500	to	15000	Study Mean		0.2381	26.3795	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		0.2309	17.6405	150
SOLIDS		6840	2,4,6-Trichlorophenol	1500	to	15000	Study Mean		0.2031	72.3886	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	10	to	50	0.7712	1.1019	0.1919	0.7331	0.86
OIL		8885	Aroclor 1221	12	to	50	0.7712	1.1019	0.1919	0.7331	1.25
OIL		8890	Aroclor 1232	12	to	50	0.7712	1.1019	0.1919	0.7331	1.25
OIL		8895	Aroclor 1242	10	to	50	0.7712	1.1019	0.1919	0.7331	0.86
OIL		8900	Aroclor 1248	12	to	50	0.7712	1.1019	0.1919	0.7331	1.25
OIL	0100	8905	Aroclor 1254	10	to	50	0.7712	1.1019	0.1919	0.7331	0.86
OIL	0101	8910	Aroclor 1260	10	to	50	0.7712	1.1019	0.1919	0.7331	0.86

NELAC PT for Accreditation

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Matrix	EPA	NELAC	Analyte [1,2]	Conc Range		Acceptance Criteria [3,4,5,6]					NELAC PTRL [7]
	Analyte	Analyte									
	Code	Code				a	b	c	d		

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Fields of Proficiency Testing with PTRLs

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]
			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		0.1788	9.4062	5.0
SOLIDS		7105	delta-BHC	50	to	500	Study Mean		0.2041	5.5821	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		0.1876	0.6823	5.0
SOLIDS		7245	gamma-Chlordane	50	to	500	Study Mean		0.1666	2.0584	5.0
SOLIDS		7250	Chlordane, Technical	100	to	1000	Study Mean		0.2357	1.1633	10
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		0.1672	4.0365	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		0.1911	2.5619	5.0
SOLIDS		7690	Heptachlor epoxide (beta)	50	to	500	Study Mean		0.1786	2.4451	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

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

Red = Previous Experimental Analytes/Footnotes | Blue = New Analyte/Footnote | Magenta = Changes

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		0.2097	7.5527	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	100	to	1000	Study Mean		0.2258	2.4018	15
SOLIDS		5505	Acenaphthylene	150	to	1000	Study Mean		0.3181	4.1175	15
SOLIDS		5555	Anthracene	100	to	1000	Study Mean		0.1839	3.1705	10
SOLIDS		5575	Benzo(a)anthracene	50	to	500	Study Mean		0.1562	2.8639	5.0
SOLIDS		5585	Benzo(b)fluoranthene	50	to	500	Study Mean		0.1370	3.1001	5.0
SOLIDS		5600	Benzo(k)fluoranthene	50	to	500	Study Mean		0.1300	5.4343	5.0
SOLIDS		5590	Benzo(g,h,i)perylene	50	to	500	Study Mean		0.1724	4.5522	10
SOLIDS		5580	Benzo(a)pyrene	50	to	500	Study Mean		0.1771	3.7794	5.0
SOLIDS		5855	Chrysene	50	to	500	Study Mean		0.1884	0.0425	5.0
SOLIDS		5895	Dibenz(a,h)anthracene	50	to	500	Study Mean		0.1591	2.6430	5.0
SOLIDS		6265	Fluoranthene	50	to	500	Study Mean		0.1529	3.9780	10
SOLIDS		6270	Fluorene	50	to	500	Study Mean		0.2169	2.2266	5.0
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	50	to	500	Study Mean		0.1330	6.2268	5.0
SOLIDS		5005	Naphthalene	150	to	1000	Study Mean		0.3079	1.5325	15
SOLIDS		6615	Phenanthrene	100	to	1000	Study Mean		0.1921	0.1970	10
SOLIDS		6665	Pyrene	50	to	500	Study Mean		0.1816	2.1374	5.0

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

Red = Previous Experimental Analytes/Footnotes | Blue = New Analyte/Footnote | Magenta = Changes

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, is selected at random from among the Aroclors listed above.
PCBs (in soil) and PCBs in Oil are each, collectively, considered one Field of Proficiency Testing. Since only one Aroclor is spiked, acceptable results are based on the correct qualitative identification of the PCB that was spiked and quantitating that result concentration within the acceptance criteria delineated in the table 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.

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

			Red = Previous Experimental Analytes/Footnotes		Blue = New Analyte/Footnote				Magenta = Changes		
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range		Acceptance Criteria [3,4,5,6]					NELAC PTRL [7]
	Analyte	Analyte									
	Code	Code				a	b	c	d		
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}.											

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Solid and Chemical Materials

			Red = Previous Experimental Analytes/Footnotes		Blue = New Analyte/Footnote				Magenta = Changes		
Matrix	EPA	NELAC	Analyte [1,2]	Conc Range		Acceptance Criteria [3,4,5,6]					NELAC PTRL [7]
	Analyte	Analyte									
	Code	Code				a	b	c	d		
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 known as Bis(2-chloroisopropyl) Ether.											

TNI PT for Accreditation

Fields of Proficiency Testing

Whole Effluent Toxicity Testing - Non-Potable Water

Effective July 31, 2016

Matrix	EPA [1] Test Code	EPA Method Reference	EPA [1] Analyte Code	Technology [2,6,7] (Organism, Test Type [duration, type, condition, temperature and dilution water])	Analyte [3] (Endpoint)	Reference Toxicants and Concentration [4,5] Potassium chloride (mg/L)	Zinc sulfate heptahydrate (mg/L)	Ammonium phosphate dibasic (mg/L)
NPW	0013	2000.0	754	Fathead minnow (Pimephales promelas), 48-hr Acute, nonrenewal, 25°C, MHSF	LC50	2000	-	400
NPW	0014	2000.0	755	Fathead minnow (Pimephales promelas), 48-hr Acute, nonrenewal, 25°C, 20% DMW	LC50	2000	8.8	300
NPW	0015	1000.0	756	Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, MHSF	NOEC Survival	2000	2.2	150
NPW	0015	1000.0	808	Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, MHSF	IC25 (ON) Growth	2000	2.2	150
NPW	0015	1000.0	810	Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, MHSF	NOEC (ON) Growth	2000	2.2	150
NPW	0016	1000.0	759	Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, 20% DMW	NOEC Survival	2000	4.4	150
NPW	0016	1000.0	812	Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, 20% DMW	IC25 (ON) Growth	2000	4.4	150
NPW	0016	1000.0	814	Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, 20% DMW	NOEC (ON) Growth	2000	4.4	150
NPW	0019	2002.0	764	Ceriodaphnia dubia, 48-hr Acute, nonrenewal, 25°C, MHSF	LC50	1000	2.2	200
NPW	0020	2002.0	765	Ceriodaphnia dubia, 48-hr Acute, nonrenewal, 25°C, 20% DMW	LC50	1000	2.2	200
NPW	0021	1002.0	766	Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF	NOEC Survival	1000	1.5	200
NPW	0021	1002.0	767	Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF	IC25 Reproduction	1000	1.5	200
NPW	0021	1002.0	768	Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF	NOEC Reproduction	1000	1.5	200
NPW	0022	1002.0	769	Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, 20% DMW	NOEC Survival	1000	1.5	200
NPW	0022	1002.0	770	Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, 20% DMW	IC25 Reproduction	1000	1.5	200
NPW	0022	1002.0	771	Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, 20% DMW	NOEC Reproduction	1000	1.5	200
NPW	0032	2021.0	788	Daphnia magna, 48-hr Acute, nonrenewal, 25°C, MHSF	LC50	1000	8.8	400
NPW	0038	2021.0	794	Daphnia pulex, 48-hr Acute, nonrenewal, 25°C, MHSF	LC50	1000	8.8	400
NPW	0042	2007.0	798	Mysid (Mysidopsis bahia, Americamysis bahia), 48-hr Acute, nonrenewal, 25°C, SSW	LC50	1200	17.6	-
NPW	0043	1007.0	799	Mysid (Mysidopsis bahia, Americamysis bahia), 7-day Chronic, daily renewal, SSW	NOEC Survival	1200	2.6	-
NPW	0043	1007.0	816	Mysid (Mysidopsis bahia, Americamysis bahia), 7-day Chronic, daily renewal, SSW	IC25 (ON) Growth	1200	2.6	-
NPW	0043	1007.0	818	Mysid (Mysidopsis bahia, Americamysis bahia), 7-day Chronic, daily renewal, SSW	NOEC (ON) Growth	1200	2.6	-
NPW	0044	2006.0	803	Inland silverside (Menidia beryllina), 48-hr Acute, nonrenewal, 25°C, SSW	LC50	1000	35.3	-
NPW	0045	1006.0	824	Inland silverside (Menidia beryllina), 7-day Chronic, daily renewal, SSW	NOEC Survival	1000	-	-
NPW	0045	1006.0	825	Inland silverside (Menidia beryllina), 7-day Chronic, daily renewal, SSW	IC25 (ON) Growth	1000	-	-
NPW	0045	1006.0	826	Inland silverside (Menidia beryllina), 7-day Chronic, daily renewal, SSW	NOEC (ON) Growth	1000	-	-
NPW	0046	2004.0	804	Sheepshead minnow (Cyprinodon variegatus), 48-hr Acute, nonrenewal, 25°C, SSW	LC50	6000	-	-
NPW	0047	1004.0	805	Sheepshead minnow (Cyprinodon variegatus), 7-day Chronic, daily renewal, SSW	NOEC Survival	3000	6.6	-
NPW	0047	1004.0	820	Sheepshead minnow (Cyprinodon variegatus), 7-day Chronic, daily renewal, SSW	IC25 (ON) Growth	3000	6.6	-
NPW	0047	1004.0	822	Sheepshead minnow (Cyprinodon variegatus), 7-day Chronic, daily renewal, SSW	NOEC (ON) Growth	3000	6.6	-

TNI PT for Accreditation

Fields of Proficiency Testing

Whole Effluent Toxicity Testing - Non-Potable Water

Effective July 31, 2016

1) EPA Test Code and Analyte Code are Technology and Analyte specific.

2) Dilution Water definition:

- MHSF = Moderately Hard Synthetic Freshwater
- 20% DMW - 20% Diluted Mineral Water
- SSW - Synthetic seawater

3) Analyte definitions:

- LC50 = Concentration where 50% of the organisms do not survive.
- NOEC = No Observable Effects Concentration
- IC25 = Concentration where there is 25% reduction in growth or reproduction.
- ON = Calculation based on Original Number of organisms used to start the test.

4) Reference Toxicant Concentrations are shown as guidance.

5) Reference Toxicant Concentrations shown above are as the toxicant salt or compound.

6) Proficiency Study Assigned Values (AV):

- NOEC Analytes: AV should be set to the Study Median of the data reported by laboratories; reported values are <6.25%, 6.25%, 12.5%, 25%, 50%, 100%, or >100%. If the Median falls between two of these values, then the AV is set at the higher value.
- Non-NOEC Analytes: AV should be set to the Study Mean, calculated using reported values from 6.25% and 100%, inclusive.
- Robust Study Mean and Standard Deviation are generated using appropriate statistical analysis of study data set. (ie Bi-weight, Grubbs, Dixon, ISO 13528, etc.)

7) Proficiency Testing Acceptance Limits:

- NOEC Analytes: Lower Acceptance Limit is the test dilution below the Median (or <6.25%, whichever is higher); Upper Acceptance Limit is the test dilution above the Median (or >100%, whichever is lower).
- If the Median is between two test dilutions, then the Lower Acceptance Limit is the second test dilution below the Median, and the Upper Acceptance Limit is the second test dilution above the Median.
- Non-NOEC Analytes: Mean +/- 2 Standard Deviations. If the upper limit is greater than 100%, then set the Upper Acceptance Limit at ">100%." If the lower limit is less than 6.25%, then set the Lower Acceptance Limit to "<6.25%."

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective October 1, 2007

Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte	Conc Range	Acceptance Criteria[1,2,3,4] a	b	c	d	NELAC PTRL[5]
			Radiochemistry	pCi/L (except as noted)					pCi/L
Drinking Water	0001	2830	Gross Alpha	7 to 75	0.8586	1.4802	0.1610	1.1366	3.0
Drinking Water	0002	2840	Gross Beta	8 to 75	0.8508	2.9725	0.0571	2.9372	3.0
Drinking Water	0008	2875	Iodine-131	3 to 30	0.9711	0.8870	0.0624	0.6455	2.1
Drinking Water	0012	2965	Radium-226	1 to 20	0.9253	0.3175	0.0942	0.0988	0.86
Drinking Water	0013	2970	Radium-228	2 to 20	0.9243	0.2265	0.1105	0.3788	0.88
Drinking Water	0014	3055	Natural Uranium	2 to 70	0.9568	0.0773	0.0668	0.2490	1.2
Drinking Water	0014	3055	Uranium (mass)	3 to 104 ug/L	0.9568	0.1153	0.0668	0.3716	1.8 ug/L
Drinking Water	0009	2995	Strontium-89	10 to 70	0.9648	0.1591	0.0379	2.6203	3.8
Drinking Water	0010	3005	Strontium-90	3 to 45	0.9369	0.2279	0.0902	0.5390	1.4
Drinking Water	0011	3030	Tritium	1000 to 24000	0.9883	-46.4776	0.0532	38.8382	760
			Gamma Emitters[6]						
Drinking Water	0007	2765	Barium-133	10 to 100	0.9684	-0.1424	0.0503	1.0737	6.4
Drinking Water	0005	2800	Cesium-134[7]	10 to 100	0.9369	0.0845	0.0482	0.9306	6.6
Drinking Water	0006	2805	Cesium-137[7]	20 to 240	1.0225	0.2624	0.0347	1.5185	16
Drinking Water	0003	2815	Cobalt-60	10 to 120	1.0257	0.3051	0.0335	1.3315	7.2
Drinking Water	0004	3070	Zinc-65	30 to 360	1.0495	0.1245	0.0530	1.8271	25

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective October 1, 2007

1) Acceptance limits are set at the Mean ± 2 SD
(Mean = a*T + b; SD = c*T + d where T is the assigned value).

2) If the lower acceptance limit generated using the criteria contained in this table is less than (<) 10% of the assigned value, the lower acceptance limits are set at 10% of the assigned value.

3) 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.

4) 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.

5) NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. These levels are the lowest acceptable results that could be obtained from the lowest spike level for each analyte. The laboratory should report any positive result down to the PTRL. It is recognized that in some cases (especially for analytes that typically exhibit low recovery) the PTRL may be below the standard laboratory reporting limit. However, the laboratory should use a method that is sensitive enough to generate results at the PTRL shown. NELAC PTRLs are also provided as guidance to PT Providers. At a minimum for all analytes with an assigned value equal to "0", the PT Provider should verify that the sample does not contain the analyte at a concentration greater than or equal to the PTRL.

6) Laboratories seeking or maintaining NELAP accreditation for Gamma (Photon) Emitters must meet NELAC PT requirements for all Gamma Emitter analytes in the Fields of Proficiency Testing in a given PT study, by technology/method (Barium-133, Cesium-134, Cesium-137, Cobalt-60, Zinc-65).

7) Laboratories seeking or maintaining NELAP accreditation for Radioactive Cesium must meet NELAC PT requirements for both Radioactive Cesium analytes in the Fields of Proficiency Testing in a given PT study, by technology/method (Cesium-134, Cesium-137).