NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective January 3, 2012

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]
			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	6 to 50	±30% fixed acceptance limit				4.2
Drinking Water	0001	1010	Arsenic	5 to 50	±30% fixed acceptance limit				3.5
Drinking Water	0002	1015	Barium	500 to 3000	±15% fixed acceptance limit				420
Drinking Water	0141	1020	Beryllium	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	2 to 50	±20% fixed acceptance limit				1.6
Drinking Water	0004	1040	Chromium	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	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	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[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	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	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	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	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

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			Minerals	mg/L					mg/L
Drinking Water	0287	1575	Chloride	20 to 160	±15% fixed acceptance limit				17
Drinking Water	0010	1730	Fluoride	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	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	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	1.5 to 20 MF/L	study mean		0.2971	0.4164	1 MF/L
Drinking Water		1620	Corrosivity	-4 to +4 SI units	± 0.4 SI units fixed acceptance				Not Applicable
Drinking Water	0146	1645	Cyanide, Total[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[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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			Volatile Organic Compounds (VOCs)[1]	µg/L					µg/L
Drinking Water	0039	4375	Benzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0037	4455	Carbon Tetrachloride	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0049	4475	Chlorobenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0054	4610	1,2-Dichlorobenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0041	4620	1,4-Dichlorobenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0035	4635	1,2-Dichloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0034	4640	1,1-Dichloroethylene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0043	4645	Cis-1,2-Dichloroethylene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0042	4700	Trans-1,2-Dichloroethylene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0055	4975	Dichloromethane (Methylene Chloride)	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0044	4655	1,2 Dichloropropane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0048	4765	Ethylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0053	5100	Styrene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0040	5115	Tetrachloroethylene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0047	5140	Toluene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0036	5160	1,1,1-Trichloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0061	5165	1,1,2-Trichloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0038	5170	Trichloroethylene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0076	5155	1,2,4-Trichlorobenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0032	5235	Vinyl Chloride	2 to 50	±40% fixed acceptance limit				1.2
Drinking Water	0090	5260	Total Xylenes	2 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
				µg/L					µg/L
Drinking Water	0019	4395	Bromodichloromethane	5 to 50	±20% fixed acceptance limit[14]				4.0
Drinking Water	0018	4400	Bromoform	5 to 50	±20% fixed acceptance limit[14]				4.0
Drinking Water	0020	4575	Chlorodibromomethane	5 to 50	±20% fixed acceptance limit[14]				4.0
Drinking Water	0017	4505	Chloroform	5 to 50	±20% fixed acceptance limit[14]				4.0

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			Volatile Organic Compounds (VOCs)[1] 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
				µg/L					µg/L
Drinking Water	0045	4570	1,2-Dibromo-3-chloropropane (DBCP)	0.1 to 2	±40% fixed acceptance limit				0.06
Drinking Water	0046	4585	Ethylene Dibromide (EDB)	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	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	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)	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	0.2 to 2.5	±30% fixed acceptance limit				0.14
Drinking Water	0095	7685	Heptachlor	0.2 to 2.5	±45% fixed acceptance limit				0.11
Drinking Water	0096	7690	Heptachlor Epoxide (beta)	0.2 to 2.5	±45% fixed acceptance limit				0.11
Drinking Water	0172	6275	Hexachlorobenzene	0.5 to 5	0.8727	0.0048	0.1795	0.0195	0.22
Drinking Water	0112	6285	Hexachlorocyclopentadiene	2 to 20	0.8508	0.0882	0.2716	0.1073	0.49
Drinking Water	0012	7120	Lindane	0.2 to 2.5	±45% fixed acceptance limit				0.11
Drinking Water	0013	7810	Methoxychlor	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	2 to 20	±45% fixed acceptance limit				1.1
Drinking Water	0014	8250	Toxaphene (total)	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	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)	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[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	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	7 to 70	0.8480	0.8414	0.2628	0.0044	3.1
Drinking Water	0102	6605	Pentachlorophenol	1 to 25	±50% fixed acceptance limit				0.50
Drinking Water	0117	8645	Picloram	10 to 100	±50% fixed acceptance limit				5.0
Drinking Water	0016	8650	2,4,5-TP (Silvex)	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
			Other Herbicides	µg/L					µg/L
Drinking Water	0137	9390	Diquat[13f]	8 to 40	±50% fixed acceptance limit				4.0
Drinking Water	0138	7525	Endothall[13g]	80 to 500	±50% fixed acceptance limit				40
Drinking Water	0139	9411	Glyphosate	375 to 800	±20% fixed acceptance limit				300

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			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	5 to 50	±40% fixed acceptance limit[14]				3.0
Drinking Water	0158	9360	Dichloroacetic Acid	5 to 50	±40% fixed acceptance limit[14]				3.0
Drinking Water	0160	9312	Monobromoacetic Acid	5 to 50	±40% fixed acceptance limit[14]				3.0
Drinking Water	0161	9336	Monochloroacetic Acid	10 to 50	±40% fixed acceptance limit[14]				6.0
Drinking Water	0162	9642	Trichloroacetic Acid	5 to 50	±40% fixed acceptance limit[14]				3.0
			Adipate/Phthalate	µg/L					µg/L
Drinking Water	0134	6062	Di(2-Ethylhexyl) Adipate	8 to 50	0.9817	-0.4239	0.1250	1.4658	2.5
Drinking Water	0136	6065	Di(2-Ethylhexyl) Phthalate	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[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	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	20 to 100	0.8642	1.4865	0.1392	1.1445	11

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1) For volatile and pesticide 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 sample 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 sample that are to be scored for more than twenty analytes must include at least sixteen of these analytes or 60% ot the total, whichever number is greater.									
If the calculated percentage of the total number of analytes in the PT sample is a fraction, the fraction shall be rounded up to the next whole number.									
2) One sample in every study, containing one Aroclor, selected at random from among the Aroclors listed (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.									
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.									

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

Drinking Water

Effective January 3, 2012

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]
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.									
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 Total 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.								

NELAC PT for Accreditation

Fields of Proficiency Testing with PTRLs

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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]
14) Laboratories seeking or maintaining NELAP accreditation for Total Trihalomethanes must meet NELAC PT requirements for all 4 Trihalomethane Fields of Proficiency Testing in the given study, by technology/method (Chloroform, Bromoform, Bromodichloromethane, Chlorodibromomethane).									
Laboratories seeking or maintaining NELAP accreditation for Total Haloacetic Acids must meet NELAC PT requirements for 4 out of 5 regulated Haloacetic Acid Fields of Proficiency Testing in the given PT study, by technology/method (Monochloroacetic Acid, Monobromoacetic Acid, Dichloroacetic Acid, Dibromoacetic Acid, Trichloroacetic Acid).									