

DMRQA PT Concentration Ranges and PTRLs

Definitions:

PTRL

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. (REF: NELAC PT FOT Tables)

NA

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Trace Metals (PT-TM-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1000	Aluminum	µg/L	200 - 4000	130
1005	Antimony	µg/L	95.0 - 900	55.0
1010	Arsenic	µg/L	70.0 - 900	54.0
1015	Barium	µg/L	100 - 2500	86.0
1020	Beryllium	µg/L	8.00 - 900	5.30
1030	Cadmium	µg/L	8.00 - 750	5.90
1040	Chromium	µg/L	17.0 - 1000	12.0
1050	Cobalt	µg/L	28.0 - 1000	22.0
1055	Copper	µg/L	40.0 - 900	32.0
1070	Iron	µg/L	200 - 4000	170
1075	Lead	µg/L	70.0 - 3000	54.0
1090	Manganese	µg/L	70.0 - 4000	60.0
1100	Molybdenum	µg/L	60.0 - 600	45.0
1105	Nickel	µg/L	80.0 - 3000	65.0
1140	Selenium	µg/L	90.0 - 2000	67.0
1150	Silver	µg/L	26.0 - 600	21.0
1165	Thallium	µg/L	60.0 - 900	21.0
1185	Vanadium	µg/L	55.0 - 2000	47.0
1190	Zinc	µg/L	100 - 2000	83.0

Mercury (PT-HG-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1095	Mercury	µg/L	2.00 - 30.0	1.20

Mercury Low Level (PT-HGLL-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1095	Mercury	ng/L	20.0 - 100	9.70

Chromium VI (PT-CR6-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1045	Chromium VI	µg/L	45.0 - 880	31.0

Demand (PT-DEM-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1530	BOD	mg/L	15.0 - 250	4.50
1555	CBOD	mg/L	15.0 - 250	3.70
1565	COD	mg/L	30.0 - 250	17.0
2040	TOC	mg/L	6.00 - 100	4.80

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Solids (PT-SOL-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1955	Total Dissolved Solids at 180° (TFR)	mg/L	140 - 650	98.0
1960	Non-Filterable Residue (TSS)	mg/L	23.0 - 100	14.0

Minerals (PT-MIN-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1505	Total Alkalinity(as CaCO ₃)	mg/L	10.0 - 120	6.80
1575	Chloride	mg/L	35.0 - 275	29.0
1730	Fluoride	mg/L	0.300 - 4.00	0.130
1755	Total Hardness (as CaCO ₃)	mg/L	17.0 - 440	8.40
2000	Sulfate	mg/L	5.00 - 125	2.80

Specific Conductance (PT-COND-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1610	Specific Conductance (25°C)	µmhos/cm	200 - 930	170

Nutrients - #1 (PT-NUT-DMRQA(1))

NELAC Code	Analyte	Units	Concentration Range	PTRL
1515	Ammonia as N	mg/L	0.650 - 19.0	0.350
1810	Nitrate as N	mg/L	0.250 - 40.0	0.190
1870	Orthophosphate as P	mg/L	0.500 - 5.50	0.340

Nutrients - #2 (PT-NUT-DMRQA(2))

NELAC Code	Analyte	Units	Concentration Range	PTRL
1795	Total Kjeldahl Nitrogen (TKN)	mg/L	1.50 - 35.0	1.10
1910	Total Phosphorous	mg/L	0.500 - 10.0	0.340

Nutrients - #3 (PT-NUT-DMRQA(3))

NELAC Code	Analyte	Units	Concentration Range	PTRL
1840	Nitrite as N	mg/L	0.400 - 4.00	0.280

Oil & Grease (PT-OGR-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1860	Oil & Grease	mg/L	20.0 - 100	8.80

Residual Chlorine (PT-CL-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1940	Total Residual Chlorine	mg/L	0.500 - 3.00	0.360

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Residual Chlorine Low Level (PT-CLLL-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1940	Total Residual Chlorine	µg/L	75.0 - 250	15.0

pH (PT-PH-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1900	pH	S.U.	5.00 - 10.0	NA

Total Cyanide (PT-CN-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1645	Total Cyanide	mg/L	0.100 - 1.00	0.0100

Phenolics (PT-PHEN-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1905	Total Phenolics (4AAP)	mg/L	0.0600 - 5.00	0.0100

Settleable Solids (PT-SSOL-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1965	Settleable Solids	mL/L/hr	5.00 - 100	2.80

Turbidity (PT-TURB-DMRQA)

NELAC Code	Analyte	Units	Concentration Range	PTRL
2055	Turbidity	NTU	1.00 - 20.0	0.630