TNI Chemistry FoPT Subcommittee Meeting Summary October 23, 2012

1. Roll call and Meeting Minutes:

Chair Carl Kircher called the meeting of the Chemistry FoPT Subcommittee to order on October 23, 2012 at noon EST. Attendance is recorded in Attachment A.

The minutes for July 31st and early May will be helpful when reviewing the NPW table distributed by Carl.

2. NPW FoPT Table

Message distributed by Carl:

Dear Subcommittee Members,

I apologize for getting so bogged down that I could not get these attached files out to you sooner. I have made the changes to the final draft NPW FoPT Table that Jeff Lowry mentioned last week. Additional comments are below (questions that Jeff asked about that I researched the answers for):

- Orthophosphate was re-evaluated on 7/31/2012, and the Subcommittee voted to revise the acceptance criteria to AV +/-15% fixed at that time.
- Also, on 7/31/2012, the Subcommittee re-evaluated and voted to reinstate Hexachlorocyclopentadiene and 3,3'-Dichlorobenzidine as NPW FoPTs but with the presently tabulated regression equations and coefficients. Benzidine will still be recommended for deletion as NPW FoPT.
- My recommended revised language to deal with BOD and CBOD in Footnote 10c is included. Please let me know what you all think (please recommend improvements if you can).

I am sorry that I do not have the time now to go through all the BOD and CBOD treatise. I hope that Ilona captures it all from the recorded teleconference notes. I have provided Footnote 10c language that should provide a marked improvement. However, if we want to open a "big can of worms" to resolve the potential controversial implications, I am okay to dissect the entire BOD and CBOD FoPT issue as a Subcommittee at the next teleconference.

However, as a start, please let me present my "if I were king" proposal on how I would deal with BOD and CBOD:

- I would eliminate CBOD as FoPT.

- I would add a Footnote recommending that to be accredited for CBOD, laboratories should participate and pass the PTs for BOD. All analytical steps should be followed as for analyzing CBOD samples, except that nitrification inhibitor should not be added to the PT sample dilutions.

Please let me know what you all think.

Joe commented on Footnote 10 k: You are not going to get a grease contingent for the oil doing it this way. Carl asked how it should be re-worded? Jeff and Dan provided information on what they are doing. Jeff suggested also looking at the footnotes for TPH and Oil & Grease. It was decided that no changes needed to be made.

No changes were requested for 10c.

A motion was made by Stephen to accept the NPW table as distributed by e-mail by Carl and included in Attachment B. The motion was seconded by Jeff Lowry. A roll call vote was taken.

Roll call vote:

For – Carl, Jeff, Steve, Dan, Melanie and Joe.

Against - 0

Abstain - 0

Carl will send an e-mail to Stacey to obtain her vote. He will give Stacey and everyone until Friday to vote or change their vote if any issues are found.

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(10/24/12 - Result: Stacey – For. Motion passed unanimously.)
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Carl will prepare a draft cover letter for the subcommittee to review. Everyone will have a week to review it and make comments. When it is completed it will be forwarded with the table to the PTP EC.

3. Action Items

See action item table in attachments.

4. New Business

- Carl will find out the status on solid and chemical waste (SCW) data to start the next FoPT table update.

5. Next Meeting

The next meeting of the Chemistry FoPT Subcommittee will be November 6, 2012, at 12:00 PM EST.

Action Items are included in Attachment C and Attachment D includes a listing of reminders.

Stephen motioned to adjourn the meeting and Stacey seconded the motion. Unanimously approved. The meeting was adjourned at 12:48 pm EST.

Attachment A

Participants TNI Chemistry FoPT Subcommittee

Members	Affiliation	Contact Information
Carl Kircher,	Florida DOH	904-791-1574
Chair		carl_kircher@doh.state.fl.us
Present		
Joe Marotti	Sigma-Aldrich RTC	307-721-5485
		jmorotti@sial.com
Present		
Melanie Ollila	Pace Analytical Services, Inc.	612-607-6352
		MOllila@pacelabs.com
Present		
Jeff Lowry	Phenova	720-560-2232
		JeffL@phenova.com
Present		1
Stephen Arpie	Absolute Standards, Inc.	203-281-2917
		stephenarpie@mac.com
Present		
Dan Dickinson	New York, DOH	518-485-5570
		dmd15@health.state.ny.us
Present		
Stacey Fry	E.S. BABCOCK & Sons,	951-653-3351 x238
	Inc.	sfry@babcocklabs.com
Absent		•
Ilona Taunton,	TNI	828-712-9242
Program Administrator		tauntoni@msn.com
Present		

Attachement B

NELAC PT for Accreditation Fields of Proficiency Testing with PTRLs Non-Potable Water (NPW) Effective July 1, 2013

Final 9/25/2012

i ii iai 3/	23/2012								
			Red = Previous Experimental Analytes		Blue = Nev	w Analyte/He	ader	Magenta =	Changes
Matrix	EPA	NELAC Apolyto	Analyte 1,2	Conc Range		Acceptance	Criteria 3,4,5,	6	NELAC PTRL 7
	Analyte Code	Analyte Code			а	b	С	d	
			Microbiology	CFU/100 mL					CFU/100 mL
NPW	0233	2500	Total Coliform, MF ⁸	20 to 2400		Log transfo	orm; ±3 SD		2
NPW	0235	2530	Fecal Coliform, MF ⁸	20 to 2400		Log transfo	orm; ±3 SD		2
NPW		2525	E.coli, MF ⁸	20 to 2400		Log transfo	orm; ±3 SD		2
NPW		2520	Enterococci, MF ⁸	20 to 1000		Log transfo	orm; ±3 SD		2
				MPN/100 mL					MPN/100 mL
NPW	0234	2500	Total Coliform, MPN 9	20 to 2400		Log transfo	orm; ±3 SD		2
NPW	0236	2530	Fecal Coliform, MPN 9	20 to 2400		Log transfo	orm; ±3 SD		2
NPW		2525	E.coli, MPN ⁹	20 to 2400		Log transfo	orm; ±3 SD		2
NPW		2520	Enterococci, MPN 9	20 to 1000		Log transfo	orm; ±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 ac	•		85
NPW	0003	1020	Beryllium	50 to 500		±15% fixed ac	•		42
NPW		1025	Boron	800 to 2000	±	±15% fixed ad	ceptance lir	nit	680

NPW NPW	0004 0006	1030 1040	Cadmium Chromium, total	100 to 1000 100 to 1000		:15% fixed ac	•		85 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 ac			85
NPW	0007	1055	Copper	100 to 1000		15% fixed ad	•		85
NPW	8000	1070	Iron	200 to 4000		15% fixed ac	•		170
NPW	0012	1075	Lead	100 to 1500	±	15% fixed ac	cceptance lin	nit	85
NPW	0010	1090	Manganese	200 to 2000	±	15% fixed ac	cceptance lin	nit	170
NPW	0009	1095	Mercury 10a	3.0 to 30	±	30% fixed ac	cceptance lin	nit	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 ac	cceptance lin	nit	85
NPW	0017	1150	Silver	100 to 1000	±	15% fixed ac	cceptance lin	nit	85
NPW	0075	1160	Strontium	50 to 500	±	15% fixed ac	ceptance lin	nit	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 ac	cceptance lin	nit	60
NPW	0076	1180	Titanium	60 to 300		:15% fixed ad	•		51
NPW	0014	1185	Vanadium	50 to 2000		:15% fixed ad	•		42
NPW	0015	1190	Zinc	300 to 2000	±	:15% fixed ad	cceptance lin	nit	255
			401-						
			Demands 10b	mg/L		1	1		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
					±20% fix	ed at 25-40;		at 40-200	
NPW	0027	1505	Alkalinity, total (CaCO ₃)	25 to 400			g/L		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 ac	1		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 ad	cceptance lin	nıt	21
A I D I A I	0000	4755		40 (44 =		4 = 0 / (*)		44	~ 4
NPW	0022	1755	Hardness, total (CaCO ₃)	40 to 415		15% fixed ac	•		34
NPW NPW NPW	0022 0024 0026	1755 1085 1125	Hardness, total (CaCO ₃) Magnesium Potassium	40 to 415 4.0 to 40 4.0 to 40	±	:15% fixed ac :15% fixed ac :20% fixed ac	cceptance lin	nit	34 3.4 3.2

NPW	0025	1155	Sodium	10 to 100 200 to 1200	±	:20% fixed ac	cceptance lin	nit	8.0
NPW	0020	1610	Spec. Cond. (25°C)	µmhos/cm	±	10% fixed ac	ceptance lin	nit	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
			Total Dissolved Solids at						
NPW	0021	1955	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	0002	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 ac			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
			Misc. Analytes	mg/L					mg/L
			missi Analytes	g/ _					iiig/∟
NPW		1500	Acidity, as CaCO3	650 to 1800	±	:10% fixed ac	ceptance lin	nit	585
			Acidity, as CaCO3	650 to 1800 10 to 75 PC			•		585
NPW		1605	Acidity, as CaCO3 Color	650 to 1800 10 to 75 PC units	0.9474	0.6098	0.0367	2.4407	585 1.7 PC units
NPW NPW	0072	1605 1960	Acidity, as CaCO3 Color Total Suspended Solids	650 to 1800 10 to 75 PC units 20 to 100	0.9474	0.6098	0.0367	2.4407 2.5000	585 1.7 PC units 13
NPW NPW NPW	0019	1605 1960 1900	Acidity, as CaCO3 Color Total Suspended Solids pH 10g	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units	0.9474 1.0000 ± 0.	0.6098 0.0000 .2 units fixed	0.0367 0.0000 acceptance	2.4407 2.5000 limit	585 1.7 PC units 13 Not applicable
NPW NPW		1605 1960	Acidity, as CaCO3 Color Total Suspended Solids pH 109 Total Cyanide 10h	650 to 1800 10 to 75 PC units 20 to 100	0.9474 1.0000 ± 0.	0.6098	0.0367 0.0000 acceptance	2.4407 2.5000 limit	585 1.7 PC units 13 Not applicable 0.065
NPW NPW NPW	0019	1605 1960 1900	Acidity, as CaCO3 Color Total Suspended Solids pH 10g	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units	0.9474 1.0000 ± 0.	0.6098 0.0000 .2 units fixed	0.0367 0.0000 acceptance	2.4407 2.5000 limit	585 1.7 PC units 13 Not applicable
NPW NPW NPW NPW NPW	0019 0071	1605 1960 1900 1645 1905 1940	Acidity, as CaCO3 Color Total Suspended Solids pH ^{10g} Total Cyanide ^{10h} Total Phenolics (4AAP) ¹⁰ⁱ Total Residual Chlorine	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0	0.9474 1.0000 ± 0. ± 0.6408 0.9345	0.6098 0.0000 .2 units fixed .35% fixed ac 0.0250 0.0392	0.0367 0.0000 acceptance cceptance lin 0.1038 0.0688	2.4407 2.5000 limit nit 0.0082 0.0073	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38
NPW NPW NPW NPW NPW NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940 1965	Acidity, as CaCO3 Color Total Suspended Solids pH ^{10g} Total Cyanide ^{10h} Total Phenolics (4AAP) ¹⁰ⁱ Total Residual Chlorine Settleable solids	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0 5.0 to 50 mL/L	0.9474 1.0000 ± 0. ± 0.6408	0.6098 0.0000 .2 units fixed .35% fixed ac 0.0250	0.0367 0.0000 acceptance cceptance lin 0.1038	2.4407 2.5000 limit nit 0.0082	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38 2.9 mL/L
NPW NPW NPW NPW NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940	Acidity, as CaCO3 Color Total Suspended Solids pH ^{10g} Total Cyanide ^{10h} Total Phenolics (4AAP) ¹⁰ⁱ Total Residual Chlorine	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0	0.9474 1.0000 ± 0. ± 0.6408 0.9345 1.0436	0.6098 0.0000 .2 units fixed .35% fixed ac 0.0250 0.0392	0.0367 0.0000 acceptance lin 0.1038 0.0688 0.0597	2.4407 2.5000 limit nit 0.0082 0.0073 0.4546	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38
NPW NPW NPW NPW NPW NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940 1965	Acidity, as CaCO3 Color Total Suspended Solids pH ^{10g} Total Cyanide ^{10h} Total Phenolics (4AAP) ¹⁰ⁱ Total Residual Chlorine Settleable solids	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0 5.0 to 50 mL/L	0.9474 1.0000 ± 0. ± 0.6408 0.9345 1.0436	0.6098 0.0000 .2 units fixed 35% fixed ac 0.0250 0.0392 -0.0108	0.0367 0.0000 acceptance lin 0.1038 0.0688 0.0597	2.4407 2.5000 limit nit 0.0082 0.0073 0.4546	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38 2.9 mL/L
NPW NPW NPW NPW NPW NPW NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940 1965 1990	Acidity, as CaCO3 Color Total Suspended Solids pH ^{10g} Total Cyanide ^{10h} Total Phenolics (4AAP) ¹⁰ⁱ Total Residual Chlorine Settleable solids Silica as SiO2	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0 5.0 to 50 mL/L 50 to 250	0.9474 1.0000 ± 0. ± 0.6408 0.9345 1.0436	0.6098 0.0000 .2 units fixed .35% fixed ac 0.0250 0.0392 -0.0108 .25% fixed ac	0.0367 0.0000 acceptance lin 0.1038 0.0688 0.0597 acceptance lin	2.4407 2.5000 limit nit 0.0082 0.0073 0.4546 nit	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38 2.9 mL/L 38
NPW NPW NPW NPW NPW NPW NPW NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940 1965 1990 2025	Acidity, as CaCO3 Color Total Suspended Solids pH ^{10g} Total Cyanide ^{10h} Total Phenolics (4AAP) ¹⁰ⁱ Total Residual Chlorine Settleable solids Silica as SiO2 Surfactants - MBAS	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0 5.0 to 50 mL/L 50 to 250 0.2 to 1.0	0.9474 1.0000 ± 0. ± 0.6408 0.9345 1.0436 ± 1.0421	0.6098 0.0000 .2 units fixed 35% fixed ac 0.0250 0.0392 -0.0108 -25% fixed ac -0.0068	0.0367 0.0000 acceptance lin 0.1038 0.0688 0.0597 acceptance lin 0.1326	2.4407 2.5000 limit nit 0.0082 0.0073 0.4546 nit 0.0046	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38 2.9 mL/L 38 0.10
NPW NPW NPW NPW NPW NPW NPW NPW NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940 1965 1990 2025 2055	Acidity, as CaCO3 Color Total Suspended Solids pH 10g Total Cyanide 10h Total Phenolics (4AAP) 10i Total Residual Chlorine Settleable solids Silica as SiO2 Surfactants - MBAS Turbidity 10j Volatile solids, Total	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0 5.0 to 50 mL/L 50 to 250 0.2 to 1.0 2.0 to 30 NTU	0.9474 1.0000 ± 0. ± 0.6408 0.9345 1.0436 ± 1.0421 1.0040	0.6098 0.0000 .2 units fixed .35% fixed ac 0.0250 0.0392 -0.0108 .25% fixed ac -0.0068 -0.0368	0.0367 0.0000 acceptance lin 0.1038 0.0688 0.0597 cceptance lin 0.1326 0.0475	2.4407 2.5000 limit nit 0.0082 0.0073 0.4546 nit 0.0046 0.1575	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38 2.9 mL/L 38 0.10 1.2 NTU
NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940 1965 1990 2025 2055 1970	Color Total Suspended Solids pH 10g Total Cyanide 10h Total Phenolics (4AAP) 10i Total Residual Chlorine Settleable solids Silica as SiO2 Surfactants - MBAS Turbidity 10j Volatile solids, Total Low Level Analytes 12	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0 5.0 to 50 mL/L 50 to 250 0.2 to 1.0 2.0 to 30 NTU 100 to 500	0.9474 1.0000 ± 0. ± 0.6408 0.9345 1.0436 ± 1.0421 1.0040 0.9644	0.6098 0.0000 .2 units fixed 35% fixed ac 0.0250 0.0392 -0.0108 -25% fixed ac -0.0068 -0.0368 -4.7559	0.0367 0.0000 acceptance lin 0.1038 0.0688 0.0597 cceptance lin 0.1326 0.0475 0.0182	2.4407 2.5000 limit 0.0082 0.0073 0.4546 nit 0.0046 0.1575 14.9450	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38 2.9 mL/L 38 0.10 1.2 NTU 41
NPW NPW NPW NPW NPW NPW NPW NPW NPW	0019 0071 0097	1605 1960 1900 1645 1905 1940 1965 1990 2025 2055	Acidity, as CaCO3 Color Total Suspended Solids pH 10g Total Cyanide 10h Total Phenolics (4AAP) 10i Total Residual Chlorine Settleable solids Silica as SiO2 Surfactants - MBAS Turbidity 10j Volatile solids, Total	650 to 1800 10 to 75 PC units 20 to 100 5.0 to 10 units 0.1 to 1 0.5 to 5 0.5 to 3.0 5.0 to 50 mL/L 50 to 250 0.2 to 1.0 2.0 to 30 NTU	0.9474 1.0000 ± 0. ± 0.6408 0.9345 1.0436 ± 1.0421 1.0040	0.6098 0.0000 .2 units fixed .35% fixed ac 0.0250 0.0392 -0.0108 .25% fixed ac -0.0068 -0.0368	0.0367 0.0000 acceptance lin 0.1038 0.0688 0.0597 cceptance lin 0.1326 0.0475	2.4407 2.5000 limit nit 0.0082 0.0073 0.4546 nit 0.0046 0.1575	585 1.7 PC units 13 Not applicable 0.065 0.16 0.38 2.9 mL/L 38 0.10 1.2 NTU

			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 0.75	561 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 0.51	100 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 1.74	474 3.9
NPW		4860	2-Hexanone	20 to 200	1.0054 -1.1748 0.1534 1.77	764 4.4
NPW		4995	4-Methyl-2-pentanone (MIBK)	20 to 200	1.0022 -1.0337 0.0934 4.18	819 2.0
NPW		5000	Methyl tert-butyl ether (MTBE)	15 to 150	1.0233 -0.3620 0.1112 0.30	083 9.0

Purge and Trap Organic Parameters

			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
			1,2-Dibromo-3-chloropropane			
NPW		4570	(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 a	ccentance lin	oit	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	0.0312	0.4633	6.2
NPW	0240	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 130		:40% fixed a			6.0
NPW	0247	4655	1,2-Dichloropropane	10 to 150		:30% fixed a	•		7.0
NPW	0240	4680	cis-1,3-Dichloropropene	10 to 130		:35% fixed a	•		6.5
NPW	0249	4685	trans-1,3-Dichloropropene	10 to 120		:35% fixed a	•		6.5
NPW	0063	4975	Methylene Chloride	10 to 120		:40% fixed a	•		6.0
NPW	0000	5105	1,1,1,2-Tetrachloroethane	15 to 150		:35% fixed a	•		9.8
NPW	0250	5110	1,1,2,2-Tetrachloroethane	15 to 150		:35% fixed a	•		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 a			6.0
NPW	0251	5165	1,1,2-Trichloroethane	15 to 150		30% fixed a	•		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 a			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 a	cceptance lir	nit	8.0
			Volatile Petroleum	- /1					- /1
			Hydrocarbons Gasoline range organics	μg/L					μg/L
NPW		9408	(GRO) 13	400 to 4000	1.0683	-7.7234	0.2162	35.0439	55
141 77		3400	(GRO)	400 10 4000	1.0000	7.7204	0.2102	33.0433	55
Fytrac	stable O	rganic l	Parameters Parameters						
EXITA	otabio o	- igaino	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	0176	5595	Benzidine	200 to 1000	1.167	-12.268	0.579	-0.301	20
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	0.0075	13.4
NPW	0234	5585	Benzo(b)fluoranthene	20 to 200	0.8327	0.1531	0.1770	0.1078	7.5
NPW	0170	5600	Benzo(k)fluoranthene	20 to 200	0.8223	1.996	0.1462	1.126	7.7
NPW	0173	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
141 44	0200	5500	Donzo(a)pyrone	10 10 200	0.0201	0.0000	0.1707	0.7070	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	5780	bis(2-Chloroisopropyl) ether	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	0185	5945	3,3'-Dichlorobenzidine	50 to 200	0.901	-0.5596	0.199	2.5071	5.0
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

Extractable Organic Parameters

			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
			·						
Evtrac	tahla ()	raanic	Parameters						
LXII ac	table O	garric	PCBs in Water ²	/1					/1
NIDVA	0040	0000		µg/L	0.0040	0.4004	0.4504	0.0384	μg/L
NPW	0040	8880	Aroclor 1016	2.0 to 10	0.8318	0.1991	0.1591		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
			1	,					,
	aa :-		Organochlorine Pesticides ¹	μg/L	0.0-5:			0.0555	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	0800	7115	beta-BHC	2.0 to 20	0.8889	0.1961	0.1372	0.0777	0.92

			Low Level PAHs 1	μg/L					
1PW	0259	8650	2,4,5-TP (Silvex)	2 to 10	0.8349	0.1516	0.2046	0.0195	
IPW	0140	8655	2,4,5-T	2 to 10	0.8132	0.1393	0.1850	0.1353	
NPW	0258	8595	Dicamba	2 to 10	0.7848	0.2788	0.1754	0.1455	
IPW	0257	8545	2,4-D	2 to 10	0.7204	0.2995	0.2543	0.0297	
			Herbicides ¹	μg/L					
xtrac	table O	rganic l	Parameters						
IPW	0241	8250	Toxaphene	20 to 100	0.8087	1.8908	0.1991	0.5080	
NPW	0234	7810	Methoxychlor	2.0 to 20	0.9115	0.2801	0.1467	0.2290	
I PW	0078	7690	Heptachlor Epoxide (beta)	1.0 to 10	0.9176	0.0041	0.1342	0.0268	
I PW	0052	7685	Heptachlor	1.0 to 10	0.8470	0.0457	0.1596	0.0402	
I PW		7535	Endrin ketone	4.0 to 20	0.8951	0.3702	0.1135	0.1902	
I PW	0087	7530	Endrin aldehyde	4.0 to 20	0.8585	0.4845	0.1571	0.2054	
NPW	0086	7540	Endrin	2.0 to 20	0.9183	0.0706	0.1594	0.0277	
I PW	0085	7520	Endosulfan sulfate	4.0 to 20	0.8752	0.5312	0.1348	0.2091	
I PW	0084	7515	Endosulfan II	4.0 to 20	0.8765	0.0994	0.1490	0.0912	
IPW	0083	7510	Endosulfan I	4.0 to 20	0.8698	-0.0604	0.1548	0.0549	
NPW	0048	7470	Dieldrin	1.0 to 15	0.9126	0.0323	0.1327	0.0240	
NPW	0051	7365	4,4'-DDT	1.0 to 10	0.8987	0.1076	0.1680	0.0337	
NPW	0050	7360	4,4'-DDE	1.0 to 10	0.8793	0.0718	0.1468	0.0395	
IPW	0049	7355	4,4'-DDD	2.0 to 10	0.9271	0.03839	0.1227	0.1763	
I PW	0053	7250	Chlordane (total)	3.0 to 25	0.8501	0.4121	0.1540	0.0381	
IPW		7245	gamma-Chlordane	1.0 to 10	0.8617	0.1041	0.1323	0.0716	
IPW		7240	alpha-Chlordane	1.0 to 10	0.8842	0.0542	0.1423	0.0348	
I PW	0082	7120	gamma-BHC (Lindane)	2.0 to 20	0.8959	0.1095	0.1528	0.0189	
IPW	0081	7105	delta-BHC	2.0 to 20	0.9031	0.1036	0.1525	0.0673	

		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
Extractable Organic Parameters								

NPW		9369	Petroleum Hydrocarbons Diesel range organics (DRO)	800 to 6000 µg/L	0.7790	-96.0467	0.1386	109.1897	80 µg/L
141 77		5005	n-Hexane Extractable Material	20 to 200	0.7750	30.0407	0.1000	100.1007	00 μg/L
NPW	0104	1860	(O&G) 10k,16	mg/L	0.9400	-0.4116	0.0545	2.0789	8.8 mg/L
NPW		1935	non-Polar Extractable Material (TPH) 17	20 to 200 mg/L	0.9692	-1.1573	0.1586	0.3709	7.6 mg/L

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, selected at random from among the Aroclors listed 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. Biweight, 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.
- 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 & 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-Di
- 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, <u>vacuum pump oil</u>, <u>or similar mixture that does</u> not contain volatile organics.
- 11) The Acceptance Criteria for Hardness, total (CaCO3) is a function of the Lower Acceptance Limit (LAL) and Upper Acceptance Limit (UAL) of both

 Calcium and Magnesium and are calculated as follows:

 Lower Acceptance Limit = Ca LAL*2.497 + Mg LAL*4.118

 Upper Acceptance Limit = Ca UAL*2.497 + Mg UAL*4.118
- 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 μ g/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.
- 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).

Attachment C

Action Items – Chemistry FoPT Subcommittee

			Expected	Actual
	Action Item	Who	Completion	Completion
13.	Prepare letter to ABs to find out their needs on analytes that may be under consideration for deletion. (3/24/09 – It was determined that these tables are used by more than just ABs. This needs to be reconsidered.)	TBD	Ongoing	
87	Discuss views on dropping problem analytes with the PTP EC.	Carl	Next PTP EC Meeting	
90	Confirm interest of subcommittee members that have not been on recent calls.	Carl	Next Meeting	
95	Update Excel Table and NPW FoPT table for final review.	Carl	10/9/12	Complete
96	Update Excel Table and NPW FoPT for Final Vote.	Carl	10/25/12	
97	Get e-mail vote from Stacey.	Carl	10/26/12	
98	Write cover letter for NPW table for distribution to PTPEC.	Carl	11/2/12	
99				

Attachment D

Backburner / Reminders – Chemistry FoPT Subcommittee

	Item	Meeting Reference	Comments
4	Consider nomenclature differences between the analyte codes and the FoPT tables.	2-23-10	
7	Review completed NPW table and look for grouped analytes that behave similarly and look for consistent criteria. Compare results to Drinking Water values too.	11-30-10	
9	Prepare a News flash and article when the new NPW FoPT table is approved.	9-25-12	
10			