SUPERFUND ORGANIC METHODS PERFORMANCE EVALUATION SAMPLE
INDIVIDUAL LABORATORY SUMMARY REPORT
FOR CLP PE4 2021 (CASE 49226)

LABORATORY: CHM Chemtech Consulting Group, Inc. [NJ]
PERFORMANCE: ACCEPTABLE, No Response Required
RANK: Number of Labs Scoring Higher = 1 Same = 0 Lower = 5

TOTAL SCORE: 99.3
REPORT DATE: 12/23/2020

		TVOA	VOA	SVOA	SVSIM	PEST	ARO		
SCORES BY FRACTION	WATER:	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS:	100.0
	SOIL:	--	96.1	100.0	100.0	100.0	100.0		

		PREDICTION INTERVAL LIMITS				LABORATORY DATA			PT EVENT SUMMARY DATA			
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE	OUTSIDE LIMITS	NOT ID	ID	TOTAL
TRACE VOLATILES IN WATER MATRIX												
TRACE VOLATILE TARGET ANALYTES												
Chloromethane	0.5	2.0	2.5	4.7	5.3	3.6			0	0	7	7
Bromomethane	0.5	2.4	3.1	5.6	6.3	3.8			0	0	7	7
Trichlorofluoromethane	0.5	5.6	6.3	8.9	9.7	7.5			0	0	7	7
1,1-Dichloroethene	0.5	2.6	2.9	4.2	4.5	3.7			0	0	7	7
Acetone	5	20	35	92	110	78			0	0	7	7
Carbon Disulfide	0.5	3.4	4.0	6.3	7.0	5.5			0	0	7	7
Methylene Chloride	0.5	1.7	1.9	2.6	2.8	2.1			0	0	7	7
Methyl tert-Butyl Ether	0.5	6.2	7.0	9.7	10	8.2			0	0	7	7
1,1-Dichloroethane	0.5	7.1	7.6	9.7	10	8.2			1	0	7	7
2-Butanone	5	45	66	140	160	100			0	0	7	7
1,1,1-Trichloroethane	0.5	6.6	7.2	9.4	9.9	8.4			0	0	7	7
Cyclohexane	0.5	7.5	8.7	13	14	11			0	0	7	7
1,2-Dichloroethane	0.5	5.6	6.1	7.9	8.4	6.8			0	0	7	7
Trichloroethene	0.5	4.0	4.4	5.7	6.1	5.3			0	0	7	7
Methylcyclohexane	0.5	4.5	5.1	7.4	8.1	6.6			0	0	7	7
1,2-Dichloropropane	0.5	1.7	1.8	2.4	2.5	2.1			0	1	6	7
Toluene	0.5	6.9	7.4	9.3	9.8	8.3			0	0	7	7
Tetrachloroethene	0.5	6.5	7.1	9.1	9.7	9.0			0	0	7	7
2-Hexanone	5	23	33	70	80	57			0	0	7	7
1,2-Dibromoethane	0.5	12	13	17	18	16			0	0	7	7
Chlorobenzene	0.5	8.5	9.1	11	12	11			0	0	7	7
Ethylbenzene	0.5	5.1	5.5	7.0	7.4	6.6			0	0	7	7
o-Xylene	0.5	4.2	4.6	5.9	6.3	5.5			0	1	6	7
m,p-Xylene	0.5	10	11	14	15	14			0	0	7	7
Styrene	0.5	3.7	4.3	6.6	7.2	5.6			0	0	7	7
Bromoform	0.5	3.6	4.1	6.1	6.6	5.4			0	0	7	7
Isopropylbenzene	0.5	2.6	2.8	3.7	3.9	3.6			0	0	7	7
1,4-Dichlorobenzene	0.5	3.3	3.6	4.7	5.0	4.3			0	0	7	7
1,2-Dichlorobenzene	0.5	9.4	10	13	14	12			0	0	7	7
1,2-Dibromo-3-chloropropane	0.5	2.8	3.2	4.6	5.0	4.0			1	0	7	7
1,2,3-Trichlorobenzene	0.5	7.1	8.1	12	13	11			0	0	7	7
TRACE VOLATILE NON-TARGET ANALYTES												
Ethane, 1,1,1,2-tetrachloro-		NU	NU	NU	NU	4.3	JN				1	7
Benzene, 1,3,5-trichloro-		>0				5.0	JN			0	7	7

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FOR CLP PE4 2021 (CASE 49226)

LABORATORY: CHM Chemtech Consulting Group, Inc. [NJ]
PERFORMANCE: ACCEPTABLE, No Response Required
RANK: Number of Labs Scoring Higher = 1 Same = 0 Lower = 5

TOTAL SCORE: 99.3
REPORT DATE: 12/23/2020

		TVOA	VOA	SVOA	SVSIM	PEST	ARO		
SCORES BY FRACTION	WATER:	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS:	100.0
	SOIL:	--	96.1	100.0	100.0	100.0	100.0		

ANALYTE	CRQL	PREDICTION INTERVAL LIMITS LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	LABORATORY DATA CONC	Q	ILSR CODE	PT EVENT SUMMARY DATA OUTSIDE LIMITS	NOT ID	ID	TOTAL
LOW/MEDIUM VOLATILES IN SOIL MATRIX												
LOW/MEDIUM VOLATILE TARGET ANALYTES												
Dichlorodifluoromethane	5	7.4	14	37	43	27			0	0	7	7
Chloromethane	5	17	20	34	38	28			0	0	7	7
Vinyl Chloride	5	36	42	63	69	52			0	0	7	7
Bromomethane	5	20	26	48	54	30			1	0	7	7
Chloroethane	5	13	15	22	24	19			0	0	7	7
Trichlorofluoromethane	5	15	18	28	30	21			0	0	7	7
1,1-Dichloroethene	5	24	28	40	43	32			0	0	7	7
1,1,2-Trichloro-1,2,2-trifluoroethane	5	23	31	59	66	43			0	0	7	7
Methyl Acetate	5	28	35	63	71	48			0	0	7	7
Methylene Chloride	5	32	35	47	51	36			0	0	7	7
Methyl tert-Butyl Ether	5	64	71	97	100	82			0	0	7	7
2-Butanone	10	64	87	170	190	200		X	3	0	7	7
Chloroform	5	32	35	45	48	40			0	0	7	7
Cyclohexane	5	32	36	51	55	42			1	0	7	7
Benzene	5	69	75	96	100	82			1	0	7	7
Trichloroethene	5	87	95	120	130	110			1	0	7	7
Toluene	5	84	91	120	120	100			1	0	7	7
1,1,2-Trichloroethane	5	34	36	45	47	40			2	0	7	7
Tetrachloroethene	5	16	18	25	27	21			1	0	7	7
Chlorobenzene	5	21	23	29	31	26			1	0	7	7
Ethylbenzene	5	41	45	59	63	51			1	0	7	7
o-Xylene	5	41	45	60	64	52			1	0	7	7
m,p-Xylene	5	47	52	71	76	64			1	0	7	7
Styrene	5	17	19	27	29	22			1	0	7	7
Bromoform	5	17	19	26	28	23			0	0	7	7
Isopropylbenzene	5	33	37	49	52	40			2	0	7	7
1,1,2,2-Tetrachloroethane	5	19	21	27	29	24			2	0	7	7
1,3-Dichlorobenzene	5	35	37	45	47	41			1	0	7	7
1,4-Dichlorobenzene	5	17	18	23	24	20			1	0	7	7
1,2,4-Trimethylbenzene	5	35	40	56	61	51			0	0	7	7
1,2,4-Trichlorobenzene	5	31	34	47	50	39			1	0	7	7
1,2,3-Trichlorobenzene	5	44	50	71	77	62			0	0	7	7
LOW/MEDIUM VOLATILE TAL CONTAMINANTS												
1,2-Dichlorobenzene	5				< CRQL	0.36	J				2	7
LOW/MEDIUM VOLATILE NON-TARGET ANALYTES												
Benzene, bromo-		NU	NU	NU	NU	34	JN				4	7
LOW/MEDIUM VOLATILE NON-TAL CONTAMINANTS												
1-Propene, 2-methyl-						11	JN				1	7

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REPORT DATE: 12/23/2020

		TVOA	VOA	SVOA	SVSIM	PEST	ARO	
SCORES BY FRACTION	WATER:	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS: 100.0
	SOIL:	--	96.1	100.0	100.0	100.0	100.0	

		PREDICTION INTERVAL LIMITS				LABORATORY DATA			PT EVENT SUMMARY DATA			
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE	OUTSIDE LIMITS	NOT ID	ID	TOTAL
SEMIVOLATILES IN WATER MATRIX												
SEMIVOLATILE TARGET ANALYTES												
Phenol	10	10	13	23	26	18			2	0	7	7
bis(2-Chloroethyl)ether	10	36	42	67	74	53			1	0	7	7
2-Methylphenol	10	35	42	68	76	53			1	0	7	7
4-Methylphenol	10	35	42	69	76	52			1	0	7	7
N-Nitroso-di-n-propylamine	5	38	44	69	75	59			1	0	7	7
Hexachloroethane	5	14	20	40	45	36			1	0	7	7
Isophorone	5	NU	NU	NU	NU	36			0	0	7	7
2,4-Dimethylphenol	5	19	25	49	55	37			1	0	7	7
bis(2-Chloroethoxy)methane	5	28	34	56	61	43			1	0	7	7
2,4-Dichlorophenol	5	11	13	19	21	15			1	0	7	7
Naphthalene	5	14	17	26	28	21			2	0	7	7
Hexachlorobutadiene	5	21	30	63	72	55			1	0	7	7
Caprolactam	10	19	26	52	60	35			1	0	7	7
1-Methylnaphthalene	5	7.3	20	67	80	41			0	0	7	7
Hexachlorocyclopentadiene	10	N.L.	N.L.	33	41	34		$	0	0	7	7
2,4,5-Trichlorophenol	5	26	31	47	51	37			1	0	7	7
2-Chloronaphthalene	5	12	14	23	25	18			1	0	7	7
Dimethylphthalate	5	14	16	24	26	18			1	0	7	7
Acenaphthylene	5	14	17	27	29	20			1	0	7	7
3-Nitroaniline	10	25	36	78	89	39			0	0	7	7
Acenaphthene	5	21	25	39	43	30			1	0	7	7
2,4-Dinitrophenol	10	24	34	70	79	44			1	0	7	7
Dibenzofuran	5	13	15	23	25	18			1	0	7	7
Fluorene	5	5.5	6.3	9.4	10	7.2			0	1	6	7
4-Chlorophenyl-phenylether	5	20	24	37	41	28			1	0	7	7
4-Nitroaniline	10	33	44	83	94	73			0	0	7	7
4,6-Dinitro-2-methylphenol	10	48	57	90	99	67			0	0	7	7
1,2,4,5-Tetrachlorobenzene	5	19	24	43	48	36			1	0	7	7
Pentachlorophenol	10	50	62	110	120	78			0	0	7	7
Anthracene	5	NU	NU	NU	NU	28			0	0	7	7
Carbazole	10	25	30	48	53	36			0	0	7	7
Fluoranthene	5	14	16	23	25	18			1	0	7	7
Butylbenzylphthalate	5	15	19	31	34	24			0	0	7	7
Chrysene	5	21	25	40	44	30			0	0	7	7
bis(2-Ethylhexyl)phthalate	5	15	18	32	35	22			0	0	7	7
Benzo(k)fluoranthene	5	23	28	47	52	38			1	0	7	7
Benzo(a)pyrene	5	NU	NU	NU	NU	38			0	0	7	7
Indeno(1,2,3-cd)pyrene	5	8.0	11	22	25	14			0	0	7	7

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		TVOA	VOA	SVOA	SVSIM	PEST	ARO		
SCORES BY FRACTION	WATER:	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS:	100.0
	SOIL:	--	96.1	100.0	100.0	100.0	100.0		

ANALYTE	CRQL	PREDICTION INTERVAL LIMITS LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	LABORATORY DATA CONC	Q	ILSR CODE	PT EVENT SUMMARY DATA OUTSIDE LIMITS	NOT ID	ID	TOTAL
SEMIVOLATILE NON-TAL CONTAMINANTS												
2-Pentanone, 4-hydroxy-4-methyl-						4.3	AJN				1	7
Benzene, 1-(1-hydroxyethyl)-4-isob						16	JN				1	7
Phthalic acid, 2H-octahydroquinazo						5.3	JN				1	7
Propane, 1,1-dimethoxy-						2.7	JN				1	7
unknown-01						3.0	J				2	7
unknown-02						12	J				2	7
SEMIVOLATILES IN SOIL MATRIX												
SEMIVOLATILE TARGET ANALYTES												
Benzaldehyde	330	630	1200	3300	3900	2700			0	0	7	7
2-Chlorophenol	170	900	1200	2300	2600	1400			1	0	7	7
Acetophenone	330	870	1100	2100	2300	1300			1	0	7	7
4-Methylphenol	330	N.L.	450	1800	2200	400		$	1	0	7	7
Hexachloroethane	170	N.L.	440	1700	2000	1200			1	0	7	7
2,4-Dichlorophenol	170	1300	1600	2700	3000	1600			1	0	7	7
Naphthalene	170	610	940	2200	2600	1400			1	0	7	7
Caprolactam	330	N.L.	N.L.	1500	1800	1000			3	0	7	7
2-Methylnaphthalene	170	850	1200	2400	2700	1500			1	0	7	7
2-Chloronaphthalene	170	1200	1400	2500	2800	1600			1	0	7	7
Acenaphthene	170	660	810	1400	1500	860			1	0	7	7
Fluorene	170	770	920	1500	1600	930			1	0	7	7
4,6-Dinitro-2-methylphenol	330	N.L.	550	2000	2400	2100		$	2	0	7	7
Atrazine	330	660	1100	2800	3300	1500			0	0	7	7
Phenanthrene	170	940	1100	1800	2000	1100			1	0	7	7
Carbazole	330	1200	1600	2900	3300	1700			0	0	7	7
Pyrene	170	970	1300	2400	2700	1300			1	0	7	7
Butylbenzylphthalate	170	1000	1300	2400	2700	1600			1	0	7	7
bis(2-Ethylhexyl)phthalate	170	920	1300	2700	3100	1500			0	0	7	7
Indeno(1,2,3-cd)pyrene	170	1000	1400	2700	3000	1400			0	0	7	7
Dibenzo(a,h)anthracene	170	850	1100	2100	2400	1100			0	0	7	7
Benzo(g,h,i)perylene	170	400	730	2000	2300	1100			0	0	7	7
SEMIVOLATILE NON-TAL CONTAMINANTS												
2-Pentanone, 4-hydroxy-4-methyl-						290	AJN				1	7
3-Penten-2-one, 4-methyl-						780	AJN				4	7
n-Hexadecanoic acid						71	JN				1	7
Pentafluoropropionic acid, pentade						330	JN				1	7

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REPORT DATE: 12/23/2020

		TVOA	VOA	SVOA	SVSIM	PEST	ARO		
SCORES BY FRACTION	WATER:	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS:	100.0
	SOIL:	--	96.1	100.0	100.0	100.0	100.0		

ANALYTE	CRQL	PREDICTION INTERVAL LIMITS LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	LABORATORY DATA CONC	Q	ILSR CODE	PT EVENT SUMMARY DATA OUTSIDE LIMITS	NOT ID	ID	TOTAL
SEMIVOLATILES SIM IN WATER MATRIX												
SEMIVOLATILE SIM TARGET ANALYTES												
Naphthalene	0.1	0.13	0.17	0.31	0.35	0.23			1	0	7	7
2-Methylnaphthalene	0.1	0.16	0.19	0.31	0.35	0.27			1	0	7	7
Acenaphthylene	0.1	0.43	0.52	0.86	0.96	0.82			1	0	7	7
Acenaphthene	0.1	0.18	0.22	0.37	0.42	0.31			1	0	7	7
Fluorene	0.1	0.21	0.26	0.44	0.49	0.34			1	0	7	7
Pentachlorophenol	0.2	N.L.	N.L.	0.63	0.76	0.20	U		0	0	7	7
Phenanthrene	0.1	0.41	0.50	0.83	0.92	0.65			1	0	7	7
Anthracene	0.1	0.14	0.17	0.30	0.34	0.24			0	0	7	7
Fluoranthene	0.1	0.24	0.29	0.50	0.56	0.40			0	0	7	7
Pyrene	0.1	0.25	0.32	0.58	0.65	0.43			0	0	7	7
Benzo(a)anthracene	0.1	0.43	0.55	0.99	1.1	0.72			0	0	7	7
Chrysene	0.1	0.26	0.31	0.49	0.54	0.38			0	0	7	7
Benzo(b)fluoranthene	0.1	0.17	0.23	0.47	0.53	0.34			0	0	7	7
Benzo(a)pyrene	0.1	0.24	0.32	0.64	0.73	0.52			0	0	7	7
Indeno(1,2,3-cd)pyrene	0.1	0.15	0.23	0.49	0.56	0.37			0	0	7	7
Dibenzo(a,h)anthracene	0.1	0.15	0.23	0.54	0.62	0.39			0	0	7	7
Benzo(g,h,i)perylene	0.1	0.19	0.28	0.58	0.67	0.43			0	0	7	7
SEMIVOLATILES SIM IN SOIL MATRIX												
SEMIVOLATILE SIM TARGET ANALYTES												
Naphthalene	3.3	7.3	14	38	45	30			0	0	7	7
Acenaphthylene	3.3	6.4	9.0	19	21	15			1	0	7	7
Acenaphthene	3.3	8.4	11	21	23	17			1	0	7	7
Fluorene	3.3	7.9	10	18	20	14			1	0	7	7
Pentachlorophenol	6.7	N.L.	N.L.	41	51	30			1	0	7	7
Phenanthrene	3.3	9.6	12	20	22	15			1	0	7	7
Anthracene	3.3	7.2	10	21	24	17			0	0	7	7
Fluoranthene	3.3	8.8	11	21	23	17			0	0	7	7
Pyrene	3.3	11	15	28	31	20			0	0	7	7
Benzo(a)anthracene	3.3	9.8	13	23	25	19			0	0	7	7
Benzo(b)fluoranthene	3.3	7.3	11	22	26	17			0	0	7	7
Benzo(a)pyrene	3.3	NU	NU	NU	NU	13			0	0	7	7
Indeno(1,2,3-cd)pyrene	3.3	9.6	14	30	34	21			1	0	7	7
Dibenzo(a,h)anthracene	3.3	8.5	13	29	33	16			0	0	7	7
Benzo(g,h,i)perylene	3.3	N.L.	9.0	32	38	21			0	0	7	7

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SCORES BY FRACTION	WATER:	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS: 100.0
	SOIL:	--	96.1	100.0	100.0	100.0	100.0	

		PREDICTION INTERVAL LIMITS				LABORATORY DATA			PT EVENT SUMMARY DATA			
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE	OUTSIDE LIMITS	NOT ID	ID	TOTAL
PESTICIDES IN WATER MATRIX												
PESTICIDE TARGET ANALYTES												
alpha-BHC	0.05	0.090	0.11	0.19	0.21	0.15			0	0	7	7
beta-BHC	0.05	0.18	0.21	0.31	0.34	0.27			0	0	7	7
gamma-BHC (Lindane)	0.05	0.28	0.33	0.52	0.57	0.45			0	0	7	7
Heptachlor	0.05	0.24	0.30	0.49	0.55	0.45			0	0	7	7
Aldrin	0.05	0.13	0.15	0.25	0.27	0.23			0	0	7	7
Heptachlor epoxide	0.05	0.34	0.40	0.61	0.66	0.55			0	0	7	7
Dieldrin	0.1	0.26	0.29	0.44	0.48	0.38			0	0	7	7
4,4'-DDD	0.1	0.88	1.0	1.6	1.7	1.4			0	0	7	7
4,4'-DDT	0.1	0.57	0.67	1.1	1.2	0.91			1	0	7	7
Endrin ketone	0.1	0.87	1.0	1.6	1.7	1.5			0	0	7	7
Endrin aldehyde	0.1	0.47	0.60	1.1	1.2	1.0			1	0	7	7
trans-Chlordane	0.05	0.35	0.41	0.62	0.67	0.56			0	0	7	7
PESTICIDES IN SOIL MATRIX												
PESTICIDE TARGET ANALYTES												
beta-BHC	1.7	12	15	25	28	21			0	0	7	7
delta-BHC	1.7	4.6	6.6	14	16	11			0	0	7	7
gamma-BHC (Lindane)	1.7	7.4	9.0	15	17	14			0	0	7	7
Heptachlor	1.7	4.8	5.9	10	11	8.9			0	0	7	7
Heptachlor epoxide	1.7	14	16	25	28	24			0	0	7	7
Endrin	3.3	NU	NU	NU	NU	3.3	U		0	0	7	7
4,4'-DDD	3.3	19	23	39	43	35			0	0	7	7
4,4'-DDT	3.3	18	23	40	45	37			0	0	7	7
Endrin ketone	3.3	NU	NU	NU	NU	25			0	0	7	7
Endrin aldehyde	3.3	NU	NU	NU	NU	3.3	U		0	0	7	7
cis-Chlordane	1.7	4.9	5.9	9.6	11	8.7			0	0	7	7
trans-Chlordane	1.7	12	15	24	26	22			0	0	7	7
AROCLORS IN WATER MATRIX												
AROCLOR TARGET ANALYTES												
Aroclor-1242	1	2.4	3.1	5.8	6.6	4.4			0	0	7	7
AROCLORS IN SOIL MATRIX												
AROCLOR TARGET ANALYTES												
Aroclor-1260	33	150	190	310	340	290			0	0	7	7

SUPERFUND ORGANIC METHODS PERFORMANCE EVALUATION SAMPLE
INDIVIDUAL LABORATORY SUMMARY REPORT
FOR CLP PE4 2021 (CASE 49226)

LABORATORY: CHM Chemtech Consulting Group, Inc. [NJ]
PERFORMANCE: ACCEPTABLE, No Response Required
RANK: Number of Labs Scoring Higher = 1 Same = 0 Lower = 5

TOTAL SCORE: 99.3
REPORT DATE: 12/23/2020

		TVOA	VOA	SVOA	SVSIM	PEST	ARO	
SCORES BY FRACTION	WATER:	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS: 100.0
	SOIL:	--	96.1	100.0	100.0	100.0	100.0	

		PREDICTION INTERVAL LIMITS				LABORATORY DATA			PT EVENT SUMMARY DATA			
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE	OUTSIDE LIMITS	NOT ID	ID	TOTAL

Summary of laboratory deficiencies:

Number of target analytes not identified:	0
Number of target analytes outside action limits:	1
Number of TAL contaminants over SOW limits:	0
Number of non-target analyes not identified:	0

Number of target analytes added to PES and used for scoring: 174

Data package timeliness:

Date data package due for scoring:	12/10/2020
Date complete data package received:	12/10/2020
Days no lateness applied (weekends, etc.):	0
Net number of days late:	0

EXPLANATION OF SUPERFUND ORGANIC METHODS INDIVIDUAL LABORATORY SUMMARY REPORT (ILSR)

SUMMARY OF DEFINITIONS USED:

Concentration Units: µg/L for water samples; µg/Kg for soil samples; mg/L for TCLP samples.

CRQL: CLP SOW Contract Required Quantitation Limit (unadjusted for dilution, moisture, sample size).

PREDICTION INTERVAL LIMITS:

< CRQL	TAL contaminant concentrations below CRQL (adjusted for dilution, etc.) are not flagged.
< 2xCRQL	TAL contaminant concentrations below 2 times CRQL (adjusted for dilution, etc.) are not flagged.
< 5xCRQL	TAL contaminant concentrations below 5 times CRQL (adjusted for dilution, etc.) are not flagged.
> 0	Non-target analyte used in scoring. If not identified, will be flagged.
NU	Limit not used in scoring analyte or contaminant.
NL	No numeric low limit is set for this target analyte because the calculated Prediction Interval limit is below the CRQL.

LABORATORY DATA:

CONC	Laboratory reported concentration.
Q	Laboratory reported concentration qualifier(s).
NS	Analyte results not submitted by laboratory.

ILSR CODE:

&	Target or non-target analyte not identified.	- POINTS DEDUCTED
X	Target analyte concentration outside action limits.	- POINTS DEDUCTED
C	TAL contaminant exceeds SOW-defined limit.	- POINTS DEDUCTED
$	Target analyte concentration outside warning limits, within action limits.	- NO POINTS DEDUCTED
NR	Non-target analyte identification not required.	- NO POINTS DEDUCTED

PROGRAM SUMMARY DATA:

OUTSIDE LIMITS	Number of laboratory results outside the prediction interval action limits for the analyte.
NOT ID CPD	Number of laboratory results with no identification of the analyte.
ID CPD	Number of laboratory results with identification of the analyte.
TOTAL	Total number of laboratory results.

SUMMARY OF SCORING METHOD:

The total score, performance, and rank listed at the top of each ILSR page and the summary of laboratory deficiencies listed at the end of each ILSR are all based upon the composite results from all samples and matrices evaluated. The scores by fraction are each based on a single analysis type and matrix.

The following algorithm is used for scoring:

$$\text{Score} = 100 - (125 * \{ 2A + B + C \} / T) - (2.2 * D) - L$$

where:

A = Number of target analytes added to the sample(s) which the laboratory did not identify.

B = Number of target analytes added to the sample(s) which the laboratory identified but quantitated outside the action limits.

C = Number of TAL contaminants (analytes not added to the sample(s)) which the laboratory quantitated above the CLP SOW limits for blank contamination.

D = Number of non-target analytes added to the sample(s) which the laboratory did not identify. The D term is limited to a maximum deduction of 11 points.

L = Number of days the data package was received late at SMO (or number of days the last fraction was received late, if fractions were submitted separately).
If a laboratory submits supplemental and/or revised data after the data package due date, penalties are applied for resubmissions that affect scoring. The L term is limited to a maximum deduction of 10 points.

T = Total number of target analytes added to the sample(s) which were used for scoring (excludes analytes with NU as limits).

Warning and action limits are statistically calculated from CLP laboratory results and/or historical results for the analytes.
The warning limits are set at the 80% confidence level; the action limits are set at the 95% confidence level.
- If a target or non-target analyte added to the sample is not identified by 40% or more of the laboratories, then that analyte is not used in scoring and NU appears in place of the limits.
- If a target analyte not added to the sample (a TAL contaminant) is identified by 40% or more of the laboratories, then that analyte is not used in scoring and NU appears in place of the limit.

For target analytes, identification consists of listing a concentration on Form 1A-OR without the U qualifier.
For non-target analytes, identification consists of listing a valid name and concentration on FORM 1B-OR.
- A valid non-target analyte name is one which can be recognized as (1) a proper name for the analyte or any synonym, or (2) the name of another analyte (typically an isomer) with a nearly identical mass spectrum. For example, "unknown" is not valid as identification of 2-chlorotoluene for purposes of scoring, while all the following are valid as identification of 2-chlorotoluene: "1-chloro-2-methylbenzene", "unknown chlorotoluene isomer", "possibly 4-chlorotoluene", and "4-chlorotoluene".

Laboratory performance falls into one of three categories:

"ACCEPTABLE, No Response Required" - for a Total Score of 90.0 or more.

"ACCEPTABLE, Response Explaining Deficiency(ies) Required" - for a Total Score of 75.0 or more, but below 90.0.

"UNACCEPTABLE, Response Explaining Deficiency(ies) Required" - for a Total Score below 75.0.