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SOIL-71



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 07/19/10

Close Date: 09/02/10

Report Issued Date: 09/23/10

September 23, 2010

Thekkekalathil Chandrasekhar
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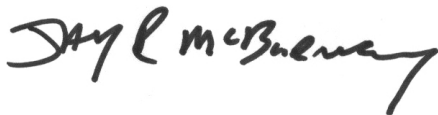
Enclosed is your final report for ERA's SOIL-71 Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's SOIL-71 Proficiency Testing (PT) study have been evaluated using the following tiered approach. If the analyte is listed in the most current National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the NELAC FoPT tables. If the analyte is not included in the NELAC FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (QuiK™ Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have well over three hundred years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be helpful in helping you work through your technical issues.

Thank you for your participation in ERA's SOIL-71 Proficiency Testing study. If you have any questions, please contact the proficiency testing department or myself at 1-800-372-0122.

Sincerely,



Jay R. McBurney
Quality Program Manager

attachments
jrm

Report Recipient	Contact/Phone Number	Reporting Type
Florida	Steve Arms / 904-791-1502	All Analytes

SOIL-71 Definitions & Study Discussion

Study Dates: 07/19/10 - 09/02/10

Report Issued: 09/23/10

SOIL Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA assigned value for the Organic Proficiency Testing Standards is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation as applicable. The ERA assigned value for the Inorganic Proficiency Testing Standards, with the exception of the TCLP Metals in Soil, is equal to the maximum amount of the parameter available in the standard by applicable EPA methodologies. The ERA assigned value for the TCLP metals is equal to the mean of ERA's internal analytical analyses. All NELAC parameters not added to a standard are given an assigned Value of "0", per the guidance issued by the NELAC Board of Directors, on December 14, 2000. Non-NELAC parameters not added to a standard may be given an assigned value of less than a minimum verified concentration as determined in the background soil for applicable EPA methodologies.

The Acceptance Limits are established per the NELAC PT program criteria or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

Acceptable	= Reported Value falls within the Acceptance Limits.
Not Acceptable	= Reported Value falls outside the Acceptance Limits.
No Evaluation	= Reported Value cannot be evaluated.
Not Reported	= No Value reported.

The Method Description is the method the laboratory reported to ERA.

SOIL Study Discussion

ERA's SOIL-71 Proficiency Testing (PT) study has been reviewed by ERA senior management and certified compliant with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC), Proficiency Testing Program Standards, Chapter 2, July 2003.

Per the requirements of the NELAC Proficiency Testing Program, a full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes in the Soil study standards met the acceptance criteria contained in the NELAC Proficiency Testing Program Standards, Chapter 2, July 2003. If the analyte is included in the NELAC Fields of Testing list, the acceptance limits were calculated based on the NELAC Proficiency Testing Program Standards, Chapter 2, July 2003. If the analyte is not included in the NELAC Fields of Testing list, the acceptance limits were calculated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260, Rev. 2.0).

The data submitted by participating laboratories was also examined for study anomalies. There was one anomaly observed during the statistical review of the data. If your laboratory received the Ready-to-Use VOAs standard, catalog #870, this anomaly is addressed on the following page.

ERA's SOIL-71 Proficiency Testing study reports shall not be reproduced except in its entirety and not without the permission of the participating laboratory. The report must not be used by the participating laboratories to claim product endorsement any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's SOIL Proficiency Testing program, please contact Jay McBurney, Quality Program Manager, or the proficiency testing department at 1-800-372-0122.



Study: **SOIL-71**

ERA Customer Number: **S744803**

Laboratory Name: **State of Florida DEP
Chemistry Laboratory**

Inorganic Results



SOIL-71 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg	12200	10100	3800 - 14200	Acceptable	EPA 6010C
1005	Antimony	mg/kg	79.0	244	24.4 - 308	Acceptable	EPA 6010C
1010	Arsenic	mg/kg	98.4	110	64.0 - 121	Acceptable	EPA 6010C
1015	Barium	mg/kg	182	176	123 - 215	Acceptable	EPA 6010C
1020	Beryllium	mg/kg	67.9	67.8	45.8 - 79.0	Acceptable	EPA 6010C
1025	Boron	mg/kg	119	132	62.4 - 150	Acceptable	EPA 6010C
1030	Cadmium	mg/kg	65.2	67.9	45.2 - 78.4	Acceptable	EPA 6010C
1035	Calcium	mg/kg	6610	6380	4540 - 7760	Acceptable	EPA 6010C
1040	Chromium	mg/kg	75.8	76.9	48.8 - 93.8	Acceptable	EPA 6010C
1050	Cobalt	mg/kg	120	113	76.9 - 130	Acceptable	EPA 6010C
1055	Copper	mg/kg	83.1	91.1	59.9 - 102	Acceptable	EPA 6010C
1070	Iron	mg/kg	16900	15000	4080 - 21600	Acceptable	EPA 6010C
1075	Lead	mg/kg	93.0	100	65.0 - 120	Acceptable	EPA 6010C
1085	Magnesium	mg/kg	3200	2760	1700 - 3600	Acceptable	EPA 6010C
1090	Manganese	mg/kg	298	278	213 - 360	Acceptable	EPA 6010C
1095	Mercury	mg/kg		3.78	1.92 - 5.62	Not Reported	
1100	Molybdenum	mg/kg	46.1	54.8	27.8 - 60.3	Acceptable	EPA 6010C
1105	Nickel	mg/kg	60.2	66.1	41.5 - 76.8	Acceptable	EPA 6010C
1125	Potassium	mg/kg	3140	2690	1550 - 3530	Acceptable	EPA 6010C
1140	Selenium	mg/kg	114	99.4	57.5 - 121	Acceptable	EPA 6010C
1150	Silver	mg/kg	36.9	37.2	22.6 - 46.2	Acceptable	EPA 6010C
1155	Sodium	mg/kg	233	222	61.1 - 380	Acceptable	EPA 6010C
1160	Strontium	mg/kg	70.8	71.0	50.4 - 93.7	Acceptable	EPA 6010C
1165	Thallium	mg/kg	137	135	83.1 - 162	Acceptable	EPA 6010C
1175	Tin	mg/kg	128	118	61.3 - 152	Acceptable	EPA 6010C
1180	Titanium	mg/kg	269	208	0.00 - 427	Acceptable	EPA 6010C
1185	Vanadium	mg/kg	63.0	64.3	32.4 - 85.9	Acceptable	EPA 6010C
1190	Zinc	mg/kg	149	147	94.9 - 186	Acceptable	EPA 6010C



SOIL-71 Final Complete Report

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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		10100	3800 - 14200	Not Reported	
1005	Antimony	mg/kg	91.5	244	24.4 - 308	Acceptable	EPA 6020A
1010	Arsenic	mg/kg	98.5	110	64.0 - 121	Acceptable	EPA 6020A
1015	Barium	mg/kg	192	176	123 - 215	Acceptable	EPA 6020A
1020	Beryllium	mg/kg	63.7	67.8	45.8 - 79.0	Acceptable	EPA 6020A
1025	Boron	mg/kg		132	62.4 - 150	Not Reported	
1030	Cadmium	mg/kg	68.7	67.9	45.2 - 78.4	Acceptable	EPA 6020A
1035	Calcium	mg/kg		6380	4540 - 7760	Not Reported	
1040	Chromium	mg/kg	77.4	76.9	48.8 - 93.8	Acceptable	EPA 6020A
1050	Cobalt	mg/kg	112	113	76.9 - 130	Acceptable	EPA 6020A
1055	Copper	mg/kg	81.8	91.1	59.9 - 102	Acceptable	EPA 6020A
1070	Iron	mg/kg		15000	4080 - 21600	Not Reported	
1075	Lead	mg/kg	96.2	100	65.0 - 120	Acceptable	EPA 6020A
1085	Magnesium	mg/kg		2760	1700 - 3600	Not Reported	
1090	Manganese	mg/kg	318	278	213 - 360	Acceptable	EPA 6020A
1095	Mercury	mg/kg		3.78	1.92 - 5.62	Not Reported	
1100	Molybdenum	mg/kg	46.1	54.8	27.8 - 60.3	Acceptable	EPA 6020A
1105	Nickel	mg/kg	59.4	66.1	41.5 - 76.8	Acceptable	EPA 6020A
1125	Potassium	mg/kg		2690	1550 - 3530	Not Reported	
1140	Selenium	mg/kg	109	99.4	57.5 - 121	Acceptable	EPA 6020A
1150	Silver	mg/kg	35.9	37.2	22.6 - 46.2	Acceptable	EPA 6020A
1155	Sodium	mg/kg		222	61.1 - 380	Not Reported	
1160	Strontium	mg/kg		71.0	50.4 - 93.7	Not Reported	
1165	Thallium	mg/kg	135	135	83.1 - 162	Acceptable	EPA 6020A
1175	Tin	mg/kg		118	61.3 - 152	Not Reported	
1180	Titanium	mg/kg		208	0.00 - 427	Not Reported	
1185	Vanadium	mg/kg		64.3	32.4 - 85.9	Not Reported	
1190	Zinc	mg/kg	158	147	94.9 - 186	Acceptable	EPA 6020A



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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		10100	3800 - 14200	Not Reported	
1005	Antimony	mg/kg		244	24.4 - 308	Not Reported	
1010	Arsenic	mg/kg		110	64.0 - 121	Not Reported	
1015	Barium	mg/kg		176	123 - 215	Not Reported	
1020	Beryllium	mg/kg		67.8	45.8 - 79.0	Not Reported	
1025	Boron	mg/kg		132	62.4 - 150	Not Reported	
1030	Cadmium	mg/kg		67.9	45.2 - 78.4	Not Reported	
1035	Calcium	mg/kg		6380	4540 - 7760	Not Reported	
1040	Chromium	mg/kg		76.9	48.8 - 93.8	Not Reported	
1050	Cobalt	mg/kg		113	76.9 - 130	Not Reported	
1055	Copper	mg/kg		91.1	59.9 - 102	Not Reported	
1070	Iron	mg/kg		15000	4080 - 21600	Not Reported	
1075	Lead	mg/kg		100	65.0 - 120	Not Reported	
1085	Magnesium	mg/kg		2760	1700 - 3600	Not Reported	
1090	Manganese	mg/kg		278	213 - 360	Not Reported	
1095	Mercury	mg/kg	3.35	3.78	1.92 - 5.62	Acceptable	DEPSOP:HG-008-3
1100	Molybdenum	mg/kg		54.8	27.8 - 60.3	Not Reported	
1105	Nickel	mg/kg		66.1	41.5 - 76.8	Not Reported	
1125	Potassium	mg/kg		2690	1550 - 3530	Not Reported	
1140	Selenium	mg/kg		99.4	57.5 - 121	Not Reported	
1150	Silver	mg/kg		37.2	22.6 - 46.2	Not Reported	
1155	Sodium	mg/kg		222	61.1 - 380	Not Reported	
1160	Strontium	mg/kg		71.0	50.4 - 93.7	Not Reported	
1165	Thallium	mg/kg		135	83.1 - 162	Not Reported	
1175	Tin	mg/kg		118	61.3 - 152	Not Reported	
1180	Titanium	mg/kg		208	0.00 - 427	Not Reported	
1185	Vanadium	mg/kg		64.3	32.4 - 85.9	Not Reported	
1190	Zinc	mg/kg		147	94.9 - 186	Not Reported	

SOIL Nutrients in Soil (cat# 869)

1515	Ammonia as N	mg/kg		847	380 - 1010	Not Reported	
1795	Total Kjeldahl Nitrogen	mg/kg		1400	297 - 2020	Not Reported	
2040	Total Organic Carbon (TOC)	mg/kg	1950	2420	242 - 4500	Acceptable	DEPSOP:NU-076-1
1910	Total Phosphorus	mg/kg		398	179 - 600	Not Reported	



Study: **SOIL-71**

ERA Customer Number: **S744803**

Laboratory Name: **State of Florida DEP
Chemistry Laboratory**

Organic Results



SOIL-71 Final Complete Report

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SOIL Base/Neutrals and Acids in Soil (cat# 467)

5500	Acenaphthene	µg/kg	7880	8640	2260 - 9740	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/kg	5820	6060	1420 - 7410	Acceptable	EPA 8270D
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		0.00		Not Reported	
5545	Aniline	µg/kg		0.00		Not Reported	
5555	Anthracene	µg/kg	6750	7590	1860 - 9280	Acceptable	EPA 8270D
5595	Benzidine	µg/kg		0.00		Not Reported	
5610	Benzoic acid	µg/kg		0.00		Not Reported	
5575	Benzo(a)anthracene	µg/kg	3880	4090	1300 - 5150	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/kg	6170	6210	1680 - 8000	Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/kg	3770	4200	1130 - 5420	Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/kg	3490	3720	756 - 4890	Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/kg	8390	9230	2140 - 11800	Acceptable	EPA 8270D
5630	Benzyl alcohol	µg/kg		0.00		Not Reported	
5760	bis(2-Chloroethoxy)methane	µg/kg	2140	2720	393 - 3280	Acceptable	EPA 8270D
5765	bis(2-Chloroethyl)ether	µg/kg	4690	7120	219 - 8350	Acceptable	EPA 8270D
5780	bis(2-Chloroisopropyl)ether	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
5660	4-Bromophenyl-phenylether	µg/kg	13000	13900	4150 - 17000	Acceptable	EPA 8270D
5670	Butylbenzylphthalate	µg/kg	10300	11000	2510 - 15400	Acceptable	EPA 8270D
5680	Carbazole	µg/kg		0.00		Not Reported	
5745	4-Chloroaniline	µg/kg		0.00		Not Reported	
5700	4-Chloro-3-methylphenol	µg/kg	10000	12100	3260 - 13300	Acceptable	EPA 8270D
5790	1-Chloronaphthalene	µg/kg		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
5800	2-Chlorophenol	µg/kg	9760	13700	2200 - 15100	Acceptable	EPA 8270D
5825	4-Chlorophenyl-phenylether	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
5855	Chrysene	µg/kg	< 6.70	0.00		Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/kg	3590	3740	870 - 4880	Acceptable	EPA 8270D
5905	Dibenzofuran	µg/kg	11500	12700	3240 - 14900	Acceptable	EPA 8270D
5925	Di-n-butylphthalate	µg/kg	7780	8460	2060 - 11400	Acceptable	EPA 8270D
4610	1,2-Dichlorobenzene	µg/kg		11600	1160 - 12800	Not Reported	
4615	1,3-Dichlorobenzene	µg/kg		2040	300 - 2510	Not Reported	
4620	1,4-Dichlorobenzene	µg/kg		8180	818 - 9460	Not Reported	



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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

5945	3,3'-Dichlorobenzidine	µg/kg		0.00		Not Reported	
6000	2,4-Dichlorophenol	µg/kg	6730	8510	1320 - 9360	Acceptable	EPA 8270D
6005	2,6-Dichlorophenol	µg/kg	5290	5480	342 - 6370	Acceptable	EPA 8270D
6070	Diethylphthalate	µg/kg	9880	9900	2160 - 12800	Acceptable	EPA 8270D
6130	2,4-Dimethylphenol	µg/kg	< 360	0.00		Acceptable	EPA 8270D
6135	Dimethylphthalate	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6175	2,4-Dinitrophenol	µg/kg	< 360	5200	0.00 - 5720	Acceptable	EPA 8270D
6185	2,4-Dinitrotoluene	µg/kg	11400	12200	2510 - 15300	Acceptable	EPA 8270D
6190	2,6-Dinitrotoluene	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6200	Di-n-octylphthalate	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6065	bis(2-Ethylhexyl)phthalate	µg/kg	12100	13500	3620 - 17800	Acceptable	EPA 8270D
6265	Fluoranthene	µg/kg	< 6.70	0.00		Acceptable	EPA 8270D
6270	Fluorene	µg/kg	6530	7200	2280 - 8620	Acceptable	EPA 8270D
6275	Hexachlorobenzene	µg/kg	13400	14200	4380 - 17300	Acceptable	EPA 8270D
4835	Hexachlorobutadiene	µg/kg	< 180	0.00		Acceptable	EPA 8270D
6285	Hexachlorocyclopentadiene	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
4840	Hexachloroethane	µg/kg	< 180	0.00		Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/kg	2810	2910	291 - 4480	Acceptable	EPA 8270D
6320	Isophorone	µg/kg	7820	10100	1630 - 12400	Acceptable	EPA 8270D
6360	4,6-Dinitro-2-methylphenol	µg/kg	874	6490	0.00 - 7140	Acceptable	EPA 8270D
6385	2-Methylnaphthalene	µg/kg	1150	1490	367 - 1790	Acceptable	EPA 8270D
6400	2-Methylphenol	µg/kg	4600	9540	954 - 10500	Acceptable	EPA 8270D
6410	3&4-Methylphenol	µg/kg	1740	3320	128 - 3650	Acceptable	EPA 8270D
5005	Naphthalene	µg/kg	< 6.70	0.00		Acceptable	EPA 8270D
6460	2-Nitroaniline	µg/kg		0.00		Not Reported	
6465	3-Nitroaniline	µg/kg		0.00		Not Reported	
6470	4-Nitroaniline	µg/kg		0.00		Not Reported	
5015	Nitrobenzene	µg/kg	9590	12000	2050 - 13200	Acceptable	EPA 8270D
6490	2-Nitrophenol	µg/kg	3360	4520	600 - 5100	Acceptable	EPA 8270D
6500	4-Nitrophenol	µg/kg	3320	4340	600 - 6400	Acceptable	EPA 8270D
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg	< 360	0.00		Acceptable	EPA 8270D



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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6535	N-Nitrosodiphenylamine	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6545	N-Nitroso-di-n-propylamine	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6615	Phenanthrene	µg/kg	8940	10200	3300 - 12000	Acceptable	EPA 8270D
6625	Phenol	µg/kg	4710	6420	642 - 7470	Acceptable	EPA 8270D
6665	Pyrene	µg/kg	< 6.70	0.00		Acceptable	EPA 8270D
5095	Pyridine	µg/kg		0.00		Not Reported	
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		0.00		Not Reported	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg	2950	3830	519 - 4210	Acceptable	EPA 8270D
6835	2,4,5-Trichlorophenol	µg/kg	3350	3560	493 - 4500	Acceptable	EPA 8270D
6840	2,4,6-Trichlorophenol	µg/kg	8230	9960	1960 - 11000	Acceptable	EPA 8270D

SOIL Chlorinated Acid Herbicides in Soil (cat# 626)

8505	Acifluorfen	µg/kg		734	0.00 - 807	Not Reported	
8530	Bentazon	µg/kg		0.00		Not Reported	
8540	Chloramben	µg/kg		575	0.00 - 632	Not Reported	
8545	2,4-D	µg/kg	720	576	57.6 - 834	Acceptable	DEPSOP:LC-001-2
8560	2,4-DB	µg/kg	399	621	0.00 - 748	Acceptable	DEPSOP:LC-001-2
8550	Dacthal diacid (DCPA)	µg/kg		0.00		Not Reported	
8555	Dalapon	µg/kg		0.00		Not Reported	
8595	Dicamba	µg/kg	173	312	31.2 - 417	Acceptable	DEPSOP:LC-001-2
8600	3,5-Dichlorobenzoic acid	µg/kg		0.00		Not Reported	
8605	Dichlorprop	µg/kg		362	0.00 - 493	Not Reported	
8620	Dinoseb	µg/kg	317	369	0.00 - 579	Acceptable	DEPSOP:LC-001-2
7775	MCPA	µg/kg		0.00		Not Reported	
7780	MCPP	µg/kg		0.00		Not Reported	
6500	4-Nitrophenol	µg/kg		371	0.00 - 498	Not Reported	
6605	Pentachlorophenol	µg/kg		784	0.00 - 1020	Not Reported	
8645	Picloram	µg/kg		0.00		Not Reported	
8655	2,4,5-T	µg/kg	566	476	47.6 - 684	Acceptable	DEPSOP:LC-001-2
8650	2,4,5-TP (Silvex)	µg/kg	127	111	20.0 - 188	Acceptable	DEPSOP:LC-001-2

