Andrew Tintle
State of Florida DEP Chemistry Section
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SOIL-65 Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 01/26/09

Close Date: 03/12/09

Report Issued Date: 04/02/09

April 2, 2009

Andrew Tintle
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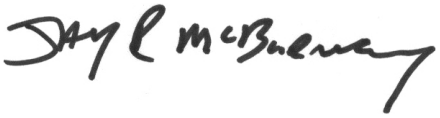
Enclosed is your final report for ERA's SOIL-65 Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's SOIL-65 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-65 Proficiency Testing study. If you have any questions, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Sincerely,



Shawn Kassner
Proficiency Testing Manager

Jay R. McBurney
Quality Program Manager

attachments
smk

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

SOIL-65 Definitions & Study Discussion

Study Dates: 01/26/09 - 03/12/09 **Report Issued: 04/02/09**

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-65 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 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 the participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

If you have any questions or concerns regarding your assessment in ERA's SOIL Proficiency Testing program, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Study: **SOIL-65**

ERA Customer Number: **S744803**

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

Inorganic Results

SOIL-65 Final Complete Report

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EPA ID: **FL01181**
ERA Customer Number: **S744803**
Report Issued: **04/02/09**
Study Dates: **01/26/09 - 03/12/09**

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg		12100	4830 - 16200	Not Reported	
1005	Antimony	mg/kg		243	24.3 - 269	Not Reported	
1010	Arsenic	mg/kg		101	60.9 - 116	Not Reported	
1015	Barium	mg/kg		454	321 - 542	Not Reported	
1020	Beryllium	mg/kg		63.7	42.6 - 73.8	Not Reported	
1025	Boron	mg/kg		117	58.7 - 144	Not Reported	
1030	Cadmium	mg/kg		103	66.7 - 115	Not Reported	
1035	Calcium	mg/kg		9880	7260 - 12000	Not Reported	
1040	Chromium	mg/kg		158	101 - 187	Not Reported	
1050	Cobalt	mg/kg		211	142 - 239	Not Reported	
1055	Copper	mg/kg		251	180 - 294	Not Reported	
1070	Iron	mg/kg		18700	8200 - 29800	Not Reported	
1075	Lead	mg/kg		114	74.3 - 134	Not Reported	
1085	Magnesium	mg/kg		4220	2810 - 5270	Not Reported	
1090	Manganese	mg/kg		497	383 - 611	Not Reported	
1095	Mercury	mg/kg	6.62	6.80	3.48 - 10.1	Acceptable	DEPSOP:HG-008-3
1100	Molybdenum	mg/kg		69.6	40.4 - 79.2	Not Reported	
1105	Nickel	mg/kg		221	147 - 252	Not Reported	
1125	Potassium	mg/kg		4730	2840 - 5840	Not Reported	
1140	Selenium	mg/kg		211	131 - 252	Not Reported	
1150	Silver	mg/kg		82.9	51.3 - 101	Not Reported	
1155	Sodium	mg/kg		738	417 - 1050	Not Reported	
1160	Strontium	mg/kg		138	93.8 - 172	Not Reported	
1165	Thallium	mg/kg		274	171 - 322	Not Reported	
1175	Tin	mg/kg		151	82.3 - 195	Not Reported	
1180	Titanium	mg/kg		447	0.00 - 897	Not Reported	
1185	Vanadium	mg/kg		201	131 - 229	Not Reported	
1190	Zinc	mg/kg		304	209 - 375	Not Reported	

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SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg	13500	12100	4830 - 16200	Acceptable	EPA 6010C
1005	Antimony	mg/kg	56.2	243	24.3 - 269	Acceptable	EPA 6010C
1010	Arsenic	mg/kg	96.5	101	60.9 - 116	Acceptable	EPA 6010C
1015	Barium	mg/kg	466	454	321 - 542	Acceptable	EPA 6010C
1020	Beryllium	mg/kg	68.1	63.7	42.6 - 73.8	Acceptable	EPA 6010C
1025	Boron	mg/kg	119	117	58.7 - 144	Acceptable	EPA 6010C
1030	Cadmium	mg/kg	96.2	103	66.7 - 115	Acceptable	EPA 6010C
1035	Calcium	mg/kg	10500	9880	7260 - 12000	Acceptable	EPA 6010C
1040	Chromium	mg/kg	155	158	101 - 187	Acceptable	EPA 6010C
1050	Cobalt	mg/kg	213	211	142 - 239	Acceptable	EPA 6010C
1055	Copper	mg/kg	264	251	180 - 294	Acceptable	EPA 6010C
1070	Iron	mg/kg	21300	18700	8200 - 29800	Acceptable	EPA 6010C
1075	Lead	mg/kg	112	114	74.3 - 134	Acceptable	EPA 6010C
1085	Magnesium	mg/kg	4570	4220	2810 - 5270	Acceptable	EPA 6010C
1090	Manganese	mg/kg	532	497	383 - 611	Acceptable	EPA 6010C
1095	Mercury	mg/kg		6.80	3.48 - 10.1	Not Reported	
1100	Molybdenum	mg/kg	66.4	69.6	40.4 - 79.2	Acceptable	EPA 6010C
1105	Nickel	mg/kg	223	221	147 - 252	Acceptable	EPA 6010C
1125	Potassium	mg/kg	4920	4730	2840 - 5840	Acceptable	EPA 6010C
1140	Selenium	mg/kg	208	211	131 - 252	Acceptable	EPA 6010C
1150	Silver	mg/kg	81.6	82.9	51.3 - 101	Acceptable	EPA 6010C
1155	Sodium	mg/kg	760	738	417 - 1050	Acceptable	EPA 6010C
1160	Strontium	mg/kg	146	138	93.8 - 172	Acceptable	EPA 6010C
1165	Thallium	mg/kg	266	274	171 - 322	Acceptable	EPA 6010C
1175	Tin	mg/kg	150	151	82.3 - 195	Acceptable	EPA 6010C
1180	Titanium	mg/kg	582	447	0.00 - 897	Acceptable	EPA 6010C
1185	Vanadium	mg/kg	196	201	131 - 229	Acceptable	EPA 6010C
1190	Zinc	mg/kg	325	304	209 - 375	Acceptable	EPA 6010C

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SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg		12100	4830 - 16200	Not Reported	
1005	Antimony	mg/kg	49.9	243	24.3 - 269	Acceptable	EPA 6020A
1010	Arsenic	mg/kg	95.8	101	60.9 - 116	Acceptable	EPA 6020A
1015	Barium	mg/kg	463	454	321 - 542	Acceptable	EPA 6020A
1020	Beryllium	mg/kg	59.3	63.7	42.6 - 73.8	Acceptable	EPA 6020A
1025	Boron	mg/kg		117	58.7 - 144	Not Reported	
1030	Cadmium	mg/kg	100	103	66.7 - 115	Acceptable	EPA 6020A
1035	Calcium	mg/kg		9880	7260 - 12000	Not Reported	
1040	Chromium	mg/kg	157	158	101 - 187	Acceptable	EPA 6020A
1050	Cobalt	mg/kg	211	211	142 - 239	Acceptable	EPA 6020A
1055	Copper	mg/kg	248	251	180 - 294	Acceptable	EPA 6020A
1070	Iron	mg/kg		18700	8200 - 29800	Not Reported	
1075	Lead	mg/kg	110	114	74.3 - 134	Acceptable	EPA 6020A
1085	Magnesium	mg/kg		4220	2810 - 5270	Not Reported	
1090	Manganese	mg/kg	540	497	383 - 611	Acceptable	EPA 6020A
1095	Mercury	mg/kg		6.80	3.48 - 10.1	Not Reported	
1100	Molybdenum	mg/kg	64.8	69.6	40.4 - 79.2	Acceptable	EPA 6020A
1105	Nickel	mg/kg	216	221	147 - 252	Acceptable	EPA 6020A
1125	Potassium	mg/kg		4730	2840 - 5840	Not Reported	
1140	Selenium	mg/kg	204	211	131 - 252	Acceptable	EPA 6020A
1150	Silver	mg/kg	82.8	82.9	51.3 - 101	Acceptable	EPA 6020A
1155	Sodium	mg/kg		738	417 - 1050	Not Reported	
1160	Strontium	mg/kg		138	93.8 - 172	Not Reported	
1165	Thallium	mg/kg	261	274	171 - 322	Acceptable	EPA 6020A
1175	Tin	mg/kg		151	82.3 - 195	Not Reported	
1180	Titanium	mg/kg		447	0.00 - 897	Not Reported	
1185	Vanadium	mg/kg		201	131 - 229	Not Reported	
1190	Zinc	mg/kg	345	304	209 - 375	Acceptable	EPA 6020A
SOIL Nutrients in Soil (cat# 869)							
1515	Ammonia as N	mg/kg		521	91.6 - 755	Not Reported	
1795	Total Kjeldahl Nitrogen	mg/kg		822	454 - 1200	Not Reported	
2040	Total Organic Carbon (TOC)	mg/kg	1820	2420	242 - 7150	Acceptable	DEP SOP: NU-076-1
1910	Total Phosphorus	mg/kg		677	67.7 - 1140	Not Reported	

Study: **SOIL-65**

ERA Customer Number: **S744803**

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

Organic Results

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467)							
5500	Acenaphthene	µg/kg	1960	2230	447 - 2870	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/kg	1680	1710	340 - 2450	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	3950	4370	983 - 5320	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	1670	1720	457 - 2210	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/kg	2480	2830	700 - 3820	Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/kg	4860	4550	1330 - 6350	Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/kg	2270	2520	578 - 3250	Acceptable	EPA 8270D
5630	Benzyl alcohol	µg/kg		0.00		Not Reported	
5760	bis(2-Chloroethoxy)methane	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
5765	bis(2-Chloroethyl)ether	µg/kg	3570	5390	325 - 6640	Acceptable	EPA 8270D
5780	bis(2-Chloroisopropyl)ether	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
5660	4-Bromophenyl-phenylether	µg/kg	5800	5910	1840 - 7670	Acceptable	EPA 8270D
5670	Butylbenzylphthalate	µg/kg	6780	6350	1440 - 8880	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	6850	7440	1950 - 8680	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	3360	4030	501 - 4820	Acceptable	EPA 8270D
5825	4-Chlorophenyl-phenylether	µg/kg	6450	6690	1880 - 8730	Acceptable	EPA 8270D
5855	Chrysene	µg/kg	3320	4270	982 - 4700	Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
5905	Dibenzofuran	µg/kg	2820	3140	849 - 3910	Acceptable	EPA 8270D
5925	Di-n-butylphthalate	µg/kg	< 360	0.00		Acceptable	EPA 8270D
4610	1,2-Dichlorobenzene	µg/kg		3610	361 - 4360	Not Reported	
4615	1,3-Dichlorobenzene	µg/kg		5840	584 - 6710	Not Reported	
4620	1,4-Dichlorobenzene	µg/kg		0.00		Not Reported	

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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	6430	7770	1280 - 8970	Acceptable	EPA 8270D
6005	2,6-Dichlorophenol	µg/kg	5420	6660	1040 - 8340	Acceptable	EPA 8270D
6070	Diethylphthalate	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6130	2,4-Dimethylphenol	µg/kg	< 360	0.00		Acceptable	EPA 8270D
6135	Dimethylphthalate	µg/kg	5720	5870	1630 - 7520	Acceptable	EPA 8270D
6175	2,4-Dinitrophenol	µg/kg	< 360	5020	0.00 - 5520	Acceptable	EPA 8270D
6185	2,4-Dinitrotoluene	µg/kg	6230	6580	1240 - 8920	Acceptable	EPA 8270D
6190	2,6-Dinitrotoluene	µg/kg	5110	5220	1550 - 6530	Acceptable	EPA 8270D
6200	Di-n-octylphthalate	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6065	bis(2-Ethylhexyl)phthalate	µg/kg	6400	6120	1550 - 8520	Acceptable	EPA 8270D
6265	Fluoranthene	µg/kg	5180	5340	1740 - 6770	Acceptable	EPA 8270D
6270	Fluorene	µg/kg	5770	6000	1940 - 7530	Acceptable	EPA 8270D
6275	Hexachlorobenzene	µg/kg	< 60.0	0.00		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	5260	7210	340 - 8130	Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1130	1700	200 - 2110	Acceptable	EPA 8270D
6320	Isophorone	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6360	4,6-Dinitro-2-methylphenol	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6385	2-Methylnaphthalene	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6400	2-Methylphenol	µg/kg	< 60.0	0.00		Acceptable	EPA 8270D
6410	3&4-Methylphenol	µg/kg	4050	6160	524 - 6780	Acceptable	EPA 8270D
5005	Naphthalene	µg/kg	4770	5770	1120 - 6580	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	3750	4480	612 - 5540	Acceptable	EPA 8270D
6490	2-Nitrophenol	µg/kg	4970	6900	690 - 7800	Acceptable	EPA 8270D
6500	4-Nitrophenol	µg/kg	5150	6700	670 - 9070	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	4320	7100	710 - 7810	Acceptable	EPA 8270D
6615	Phenanthrene	µg/kg	5070	5080	1620 - 6490	Acceptable	EPA 8270D
6625	Phenol	µg/kg	7940	10000	1000 - 12100	Acceptable	EPA 8270D
6665	Pyrene	µg/kg	4560	4530	1370 - 5860	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	4340	5260	878 - 6130	Acceptable	EPA 8270D
6835	2,4,5-Trichlorophenol	µg/kg	5090	5940	853 - 7130	Acceptable	EPA 8270D
6840	2,4,6-Trichlorophenol	µg/kg	4520	5120	884 - 6170	Acceptable	EPA 8270D
SOIL Chlorinated Acid Herbicides in Soil (cat# 626)							
8505	Acifluorfen	µg/kg		632	0.00 - 871	Not Reported	
8530	Bentazon	µg/kg		361	0.00 - 590	Not Reported	
8540	Chloramben	µg/kg		682	0.00 - 750	Not Reported	
8545	2,4-D	µg/kg	182	352	35.2 - 512	Acceptable	DEPSOP LC-001-2
8560	2,4-DB	µg/kg	325	818	0.00 - 1350	Acceptable	DEPSOP LC-001-2
8550	Dacthal diacid (DCPA)	µg/kg		981	0.00 - 1090	Not Reported	
8555	Dalapon	µg/kg		0.00		Not Reported	
8595	Dicamba	µg/kg	214	308	30.8 - 472	Acceptable	DEPSOP LC-001-2
8600	3,5-Dichlorobenzoic acid	µg/kg		320	0.00 - 452	Not Reported	
8605	Dichlorprop	µg/kg		197	0.00 - 306	Not Reported	
8620	Dinoseb	µg/kg	488	717	0.00 - 1100	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		622	0.00 - 862	Not Reported	
6605	Pentachlorophenol	µg/kg		192	0.00 - 297	Not Reported	
8645	Picloram	µg/kg		352	0.00 - 552	Not Reported	
8655	2,4,5-T	µg/kg	207	366	36.6 - 557	Acceptable	DEPSOP LC-001-2
8650	2,4,5-TP (Silvex)	µg/kg	295	366	36.6 - 605	Acceptable	DEPSOP LC-001-2