

Andrew Tintle
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Rd
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SOIL-67



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 07/20/09

Close Date: 09/03/09

Report Issued Date: 09/24/09

September 24, 2009

Andrew Tintle
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Enclosed is your final report for ERA's SOIL-67 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-67 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-67 Proficiency Testing study. If you have any questions, please contact Shawn Kassner, Proficiency Testing Manager, PT 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-67 Definitions & Study Discussion

Study Dates: 07/20/09 - 09/03/09

Report Issued: 09/24/09

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-67 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 were no anomalies observed during the statistical review of the data.

ERA's SOIL-67 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 Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.



Study: **SOIL-67**

ERA Customer Number: **S744803**

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

Inorganic Results



SOIL-67 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		12100	4950 - 16400	Not Reported	
1005	Antimony	mg/kg		264	26.4 - 296	Not Reported	
1010	Arsenic	mg/kg		148	97.1 - 179	Not Reported	
1015	Barium	mg/kg		275	199 - 340	Not Reported	
1020	Beryllium	mg/kg		168	118 - 196	Not Reported	
1025	Boron	mg/kg		104	49.8 - 130	Not Reported	
1030	Cadmium	mg/kg		77.9	52.0 - 90.0	Not Reported	
1035	Calcium	mg/kg		9880	7280 - 12000	Not Reported	
1040	Chromium	mg/kg		114	72.8 - 137	Not Reported	
1050	Cobalt	mg/kg		153	105 - 178	Not Reported	
1055	Copper	mg/kg		116	81.8 - 138	Not Reported	
1070	Iron	mg/kg		18700	8210 - 29800	Not Reported	
1075	Lead	mg/kg		155	105 - 182	Not Reported	
1085	Magnesium	mg/kg		4560	3100 - 5720	Not Reported	
1090	Manganese	mg/kg		534	416 - 661	Not Reported	
1095	Mercury	mg/kg	23.3	25.5	13.0 - 37.6	Acceptable	HG-008-3
1100	Molybdenum	mg/kg		106	62.8 - 118	Not Reported	
1105	Nickel	mg/kg		144	94.7 - 165	Not Reported	
1125	Potassium	mg/kg		5530	3320 - 6690	Not Reported	
1140	Selenium	mg/kg		221	137 - 263	Not Reported	
1150	Silver	mg/kg		47.5	29.9 - 60.3	Not Reported	
1155	Sodium	mg/kg		647	360 - 946	Not Reported	
1160	Strontium	mg/kg		256	175 - 319	Not Reported	
1165	Thallium	mg/kg		180	110 - 212	Not Reported	
1175	Tin	mg/kg		175	96.5 - 224	Not Reported	
1180	Titanium	mg/kg		447	42.6 - 853	Not Reported	
1185	Vanadium	mg/kg		77.0	38.7 - 95.2	Not Reported	
1190	Zinc	mg/kg		227	157 - 289	Not Reported	



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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	13400	12100	4950 - 16400	Acceptable	EPA 6010C
1005	Antimony	mg/kg	85.2	264	26.4 - 296	Acceptable	EPA 6010C
1010	Arsenic	mg/kg	147	148	97.1 - 179	Acceptable	EPA 6010C
1015	Barium	mg/kg	289	275	199 - 340	Acceptable	EPA 6010C
1020	Beryllium	mg/kg	172	168	118 - 196	Acceptable	EPA 6010C
1025	Boron	mg/kg	98.4	104	49.8 - 130	Acceptable	EPA 6010C
1030	Cadmium	mg/kg	74.4	77.9	52.0 - 90.0	Acceptable	EPA 6010C
1035	Calcium	mg/kg	10300	9880	7280 - 12000	Acceptable	EPA 6010C
1040	Chromium	mg/kg	117	114	72.8 - 137	Acceptable	EPA 6010C
1050	Cobalt	mg/kg	146	153	105 - 178	Acceptable	EPA 6010C
1055	Copper	mg/kg	116	116	81.8 - 138	Acceptable	EPA 6010C
1070	Iron	mg/kg	21700	18700	8210 - 29800	Acceptable	EPA 6010C
1075	Lead	mg/kg	146	155	105 - 182	Acceptable	EPA 6010C
1085	Magnesium	mg/kg	5140	4560	3100 - 5720	Acceptable	EPA 6010C
1090	Manganese	mg/kg	562	534	416 - 661	Acceptable	EPA 6010C
1095	Mercury	mg/kg		25.5	13.0 - 37.6	Not Reported	
1100	Molybdenum	mg/kg	97.5	106	62.8 - 118	Acceptable	EPA 6010C
1105	Nickel	mg/kg	136	144	94.7 - 165	Acceptable	EPA 6010C
1125	Potassium	mg/kg	5630	5530	3320 - 6690	Acceptable	EPA 6010C
1140	Selenium	mg/kg	211	221	137 - 263	Acceptable	EPA 6010C
1150	Silver	mg/kg	48.5	47.5	29.9 - 60.3	Acceptable	EPA 6010C
1155	Sodium	mg/kg	680	647	360 - 946	Acceptable	EPA 6010C
1160	Strontium	mg/kg	257	256	175 - 319	Acceptable	EPA 6010C
1165	Thallium	mg/kg	166	180	110 - 212	Acceptable	EPA 6010C
1175	Tin	mg/kg	168	175	96.5 - 224	Acceptable	EPA 6010C
1180	Titanium	mg/kg	615	447	42.6 - 853	Acceptable	EPA 6010C
1185	Vanadium	mg/kg	77.1	77.0	38.7 - 95.2	Acceptable	EPA 6010C
1190	Zinc	mg/kg	229	227	157 - 289	Acceptable	EPA 6010C



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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		12100	4950 - 16400	Not Reported	
1005	Antimony	mg/kg	86.8	264	26.4 - 296	Acceptable	EPA 6020A
1010	Arsenic	mg/kg	142	148	97.1 - 179	Acceptable	EPA 6020A
1015	Barium	mg/kg	305	275	199 - 340	Acceptable	EPA 6020A
1020	Beryllium	mg/kg	182	168	118 - 196	Acceptable	EPA 6020A
1025	Boron	mg/kg		104	49.8 - 130	Not Reported	
1030	Cadmium	mg/kg	70.6	77.9	52.0 - 90.0	Acceptable	EPA 6020A
1035	Calcium	mg/kg		9880	7280 - 12000	Not Reported	
1040	Chromium	mg/kg	117	114	72.8 - 137	Acceptable	EPA 6020A
1050	Cobalt	mg/kg	151	153	105 - 178	Acceptable	EPA 6020A
1055	Copper	mg/kg	113	116	81.8 - 138	Acceptable	EPA 6020A
1070	Iron	mg/kg		18700	8210 - 29800	Not Reported	
1075	Lead	mg/kg	160	155	105 - 182	Acceptable	EPA 6020A
1085	Magnesium	mg/kg		4560	3100 - 5720	Not Reported	
1090	Manganese	mg/kg	595	534	416 - 661	Acceptable	EPA 6020A
1095	Mercury	mg/kg		25.5	13.0 - 37.6	Not Reported	
1100	Molybdenum	mg/kg	95.4	106	62.8 - 118	Acceptable	EPA 6020A
1105	Nickel	mg/kg	138	144	94.7 - 165	Acceptable	EPA 6020A
1125	Potassium	mg/kg		5530	3320 - 6690	Not Reported	
1140	Selenium	mg/kg	204	221	137 - 263	Acceptable	EPA 6020A
1150	Silver	mg/kg	46.4	47.5	29.9 - 60.3	Acceptable	EPA 6020A
1155	Sodium	mg/kg		647	360 - 946	Not Reported	
1160	Strontium	mg/kg		256	175 - 319	Not Reported	
1165	Thallium	mg/kg	184	180	110 - 212	Acceptable	EPA 6020A
1175	Tin	mg/kg		175	96.5 - 224	Not Reported	
1180	Titanium	mg/kg		447	42.6 - 853	Not Reported	
1185	Vanadium	mg/kg		77.0	38.7 - 95.2	Not Reported	
1190	Zinc	mg/kg	237	227	157 - 289	Acceptable	EPA 6020A

SOIL Nutrients in Soil (cat# 869)

1515	Ammonia as N	mg/kg		618	182 - 819	Not Reported	
1795	Total Kjeldahl Nitrogen	mg/kg		1020	305 - 1400	Not Reported	
2040	Total Organic Carbon (TOC)	mg/kg	1810	2260	226 - 6560	Acceptable	DEP SOP NU-076-1
1910	Total Phosphorus	mg/kg		417	113 - 677	Not Reported	



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Organic Results



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

5500	Acenaphthene	µg/kg	7900	8420	2220 - 9590	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/kg	< 60	0.00		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	7180	7280	1870 - 9340	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	2580	2600	775 - 3320	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/kg	3670	3640	922 - 4770	Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/kg	4190	4070	1160 - 5540	Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/kg	6510	6590	1550 - 8570	Acceptable	EPA 8270D
5630	Benzyl alcohol	µg/kg		0.00		Not Reported	
5760	bis(2-Chloroethoxy)methane	µg/kg	2240	2460	350 - 3050	Acceptable	EPA 8270D
5765	bis(2-Chloroethyl)ether	µg/kg	8290	11900	69.3 - 13900	Acceptable	EPA 8270D
5780	bis(2-Chloroisopropyl)ether	µg/kg	< 60	0.00		Acceptable	EPA 8270D
5660	4-Bromophenyl-phenylether	µg/kg	1990	2090	597 - 2610	Acceptable	EPA 8270D
5670	Butylbenzylphthalate	µg/kg	14000	11600	2550 - 15600	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	5200	5690	1240 - 6380	Acceptable	EPA 8270D
5790	1-Chloronaphthalene	µg/kg		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/kg	7810	8400	1830 - 9630	Acceptable	EPA 8270D
5800	2-Chlorophenol	µg/kg	10100	12100	1900 - 13300	Acceptable	EPA 8270D
5825	4-Chlorophenyl-phenylether	µg/kg	5880	6040	1630 - 7590	Acceptable	EPA 8270D
5855	Chrysene	µg/kg	3930	4130	1140 - 5140	Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
5905	Dibenzofuran	µg/kg	2330	2520	661 - 3040	Acceptable	EPA 8270D
5925	Di-n-butylphthalate	µg/kg	< 360	0.00		Acceptable	EPA 8270D
4610	1,2-Dichlorobenzene	µg/kg		8170	817 - 8990	Not Reported	
4615	1,3-Dichlorobenzene	µg/kg		0.00		Not Reported	
4620	1,4-Dichlorobenzene	µg/kg		8750	875 - 9620	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	3610	4290	516 - 5020	Acceptable	EPA 8270D
6005	2,6-Dichlorophenol	µg/kg	9350	11100	0.00 - 12700	Acceptable	EPA 8270D
6070	Diethylphthalate	µg/kg	9440	8880	1920 - 11600	Acceptable	EPA 8270D
6130	2,4-Dimethylphenol	µg/kg	< 360	0.00		Acceptable	EPA 8270D
6135	Dimethylphthalate	µg/kg	12500	12000	3540 - 14500	Acceptable	EPA 8270D
6175	2,4-Dinitrophenol	µg/kg	< 360	5430	0.00 - 5970	Acceptable	EPA 8270D
6185	2,4-Dinitrotoluene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
6190	2,6-Dinitrotoluene	µg/kg	7540	7640	2240 - 8780	Acceptable	EPA 8270D
6200	Di-n-octylphthalate	µg/kg	< 60	0.00		Acceptable	EPA 8270D
6065	bis(2-Ethylhexyl)phthalate	µg/kg	< 360	0.00		Acceptable	EPA 8270D
6265	Fluoranthene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
6270	Fluorene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
6275	Hexachlorobenzene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
4835	Hexachlorobutadiene	µg/kg	10700	12000	1730 - 13200	Acceptable	EPA 8270D
6285	Hexachlorocyclopentadiene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
4840	Hexachloroethane	µg/kg	< 180	0.00		Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/kg	< 60	0.00		Acceptable	EPA 8270D
6320	Isophorone	µg/kg	8360	8730	1250 - 10800	Acceptable	EPA 8270D
6360	4,6-Dinitro-2-methylphenol	µg/kg	2920	10700	0.00 - 11800	Acceptable	EPA 8270D
6385	2-Methylnaphthalene	µg/kg	2120	2520	302 - 3200	Acceptable	EPA 8270D
6400	2-Methylphenol	µg/kg	2860	5490	600 - 6040	Acceptable	EPA 8270D
6410	3&4-Methylphenol	µg/kg	3640	5720	32.8 - 6290	Acceptable	EPA 8270D
5005	Naphthalene	µg/kg	3230	3850	623 - 4240	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	< 60	0.00		Acceptable	EPA 8270D
6490	2-Nitrophenol	µg/kg	6630	8140	834 - 9180	Acceptable	EPA 8270D
6500	4-Nitrophenol	µg/kg	4980	5940	600 - 8010	Acceptable	EPA 8270D
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg	10600	13200	0.00 - 16200	Acceptable	EPA 8270D



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

6535	N-Nitrosodiphenylamine	µg/kg	< 60	0.00		Acceptable	EPA 8270D
6545	N-Nitroso-di-n-propylamine	µg/kg	4800	4900	490 - 6080	Acceptable	EPA 8270D
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	3260	5250	600 - 5780	Acceptable	EPA 8270D
6615	Phenanthrene	µg/kg	3760	3820	1130 - 4840	Acceptable	EPA 8270D
6625	Phenol	µg/kg	9510	11000	1100 - 12600	Acceptable	EPA 8270D
6665	Pyrene	µg/kg	5160	5000	1480 - 6300	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	3830	4600	666 - 5060	Acceptable	EPA 8270D
6835	2,4,5-Trichlorophenol	µg/kg	< 60	0.00		Acceptable	EPA 8270D
6840	2,4,6-Trichlorophenol	µg/kg	< 60	0.00		Acceptable	EPA 8270D

SOIL Chlorinated Acid Herbicides in Soil (cat# 626)

8505	Acifluorfen	µg/kg		478	0.00 - 643	Not Reported	
8530	Bentazon	µg/kg		328	0.00 - 583	Not Reported	
8540	Chloramben	µg/kg		816	0.00 - 1060	Not Reported	
8545	2,4-D	µg/kg	611	584	58.4 - 940	Acceptable	DEPSOP LC-001-2
8560	2,4-DB	µg/kg	801	920	0.00 - 1500	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	329	407	40.7 - 645	Acceptable	DEPSOP LC-001-2
8600	3,5-Dichlorobenzoic acid	µg/kg		360	0.00 - 408	Not Reported	
8605	Dichlorprop	µg/kg		491	0.00 - 697	Not Reported	
8620	Dinoseb	µg/kg	479	528	0.00 - 1000	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		947	0.00 - 2220	Not Reported	
6605	Pentachlorophenol	µg/kg		259	0.00 - 407	Not Reported	
8645	Picloram	µg/kg		299	0.00 - 457	Not Reported	
8655	2,4,5-T	µg/kg	781	806	80.6 - 1270	Acceptable	DEPSOP LC-001-2
8650	2,4,5-TP (Silvex)	µg/kg	367	352	35.2 - 584	Acceptable	DEPSOP LC-001-2

