



A Waters Company

Thekkekalathil Chandrasekhar
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2600 Blair Stone Road
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USA

SOIL-86



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 04/21/14

Close Date: 06/05/14

Report Issued Date: 06/09/14



A Waters Company

June 9, 2014

Thekkekalathil Chandrasekhar
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Enclosed is your final report for ERA's SOIL-86 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-86 Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the current TNI FoPT tables. If the analyte is not included in the TNI 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 many 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 useful in helping you work through your technical issues.

At the request of the TNI Accreditation Council, we have included a Laboratory Exception Report that includes a list of all analytes reported with less than qualifiers when the assigned value was greater than "0." In addition, because we have received many requests from laboratories, this report also includes a list of all analytes with "Not Acceptable" evaluations.

Some states have elected not to convert to the 2009 TNI Standards at this time. If you have released your results to a state that has retained the 2003 NELAC Evaluation Criteria, your final report will include a section that evaluates the results according to the 2003 Standard in addition to the 2009 TNI Standards.

Thank you for your participation in ERA's SOIL-86 Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

Kristina Sanchez
Quality Officer

attachments



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Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
Florida	Steve Arms / 904-791-1502	All Analytes	2009 TNI



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SOIL-86 Definitions & Study Discussion

Study Dates: 04/21/14 - 06/05/14

Report Issued: 06/09/14

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 and Total Organic Carbon (TOC) in the Nutrients in Soil sample, 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 and TOC is equal to the mean of the study data, after the removal of outliers. All parameters not added to the standard are given an Assigned Value of "< PTRL", per the guidelines contained in the 2009 TNI Standards. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) tables, 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-86 Proficiency Testing (PT) study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) tables.

ERA's SOIL-86 study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes in the standards met the acceptance criteria contained in the 2009 TNI PT Standard and the criteria contained in the most current TNI FoPT tables.

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-86 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 our Proficiency Testing Department at 1-800-372-0122.





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SOIL-86 Laboratory Exception Report

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S744803
06/09/14
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2009 TNI Evaluation Checks

There are no values reported with < where the assigned value was greater than 0.

2009 TNI Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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Final Report Results For Laboratory State of Florida DEP Chemistry Laboratory

2009 TNI Evaluation Report

Study: **SOIL-86**

ERA Customer Number: **S744803**

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

Inorganic Results



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SOIL-86 2009 TNI Evaluation Final Complete Report

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TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg	75.0	76.5	20.2 - 87.7	Acceptable	EPA 9012B	4/30/2014	1.20	53.9	17.6	BROWN_V
1923	Reactive Cyanide	mg/kg		< 200	0.00 - 200	Not Reported						
1510	Amenable Cyanide	mg/kg		< 200	0.00 - 200	Not Reported						

SOIL Ignitability/Flashpoint (cat# 874)

1780	Ignitability/Flashpoint	°F	115	111	94.0 - 128	Acceptable	EPA 1010A	5/2/2014	0.782	111	4.50	TOPOLSKI_B
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Page 3 of 10

Study # : SOIL-86



2009 TNI Evaluation Report

Study: **SOIL-86**

ERA Customer Number: **S744803**

Laboratory Name: **State of Florida DEP
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Organic Results



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SOIL-86 2009 TNI Evaluation Final Complete Report

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SOIL Nitroaromatics & Nitramines in Soil (cat# 871)

9306	4-Amino-2,6-dinitrotoluene	µg/kg		2130	1000 - 2340	Not Reported				1630	208	
9303	2-Amino-4,6-dinitrotoluene	µg/kg		1710	907 - 1880	Not Reported				1340	144	
6160	1,3-Dinitrobenzene	µg/kg	6280	7270	4460 - 8370	Acceptable	EPA 8270D 3	5/1/2014	-0.209	6420	652	GHAFFARI_M
6185	2,4-Dinitrotoluene	µg/kg		8010	1860 - 12000	Not Reported				6940	834	
6190	2,6-Dinitrotoluene	µg/kg		2910	860 - 4250	Not Reported				2550	304	
9522	HMX	µg/kg		1600	692 - 2140	Not Reported				1420	241	
5015	Nitrobenzene	µg/kg		3140	485 - 4890	Not Reported				2690	350	
9507	2-Nitrotoluene	µg/kg		8690	5280 - 10100	Not Reported				7680	800	
9510	3-Nitrotoluene	µg/kg		7800	4800 - 9470	Not Reported				7130	779	
9513	4-Nitrotoluene	µg/kg		4440	2960 - 5010	Not Reported				3990	342	
9432	RDX	µg/kg		2130	718 - 2530	Not Reported				1620	301	
6415	Tetryl	µg/kg		< 1500	0.00 - 1500	Not Reported						
6885	1,3,5-Trinitrobenzene	µg/kg	4330	5220	3000 - 5960	Acceptable	EPA 8270D 3	5/1/2014	-0.309	4480	492	GHAFFARI_M
9651	2,4,6-Trinitrotoluene	µg/kg		3070	1620 - 3380	Not Reported				2140	172	



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SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	191	206	58.3 - 267	Acceptable	EPA 8270D 3 2007	5/3/2014	0.937	163	30.4	CARBONE_I
7110	alpha-BHC	µg/kg	142	156	41.8 - 216	Acceptable	EPA 8270D 3 2007	5/3/2014	0.537	129	24.7	CARBONE_I
7115	beta-BHC	µg/kg	115	142	22.6 - 217	Acceptable	EPA 8270D 3 2007	5/3/2014	-0.237	120	21.0	CARBONE_I
7105	delta-BHC	µg/kg	172	177	42.4 - 271	Acceptable	EPA 8270D 3 2007	5/3/2014	0.549	157	27.5	CARBONE_I
7120	gamma-BHC(Lindane)	µg/kg	329	364	107 - 498	Acceptable	EPA 8270D 3 2007	5/3/2014	0.454	303	58.2	CARBONE_I
7240	alpha-Chlordane	µg/kg	100	99.8	32.0 - 137	Acceptable	EPA 8270D 3 2007	5/3/2014	0.906	84.5	17.1	CARBONE_I
7245	gamma-Chlordane	µg/kg	206	216	83.5 - 273	Acceptable	EPA 8270D 3 2007	5/3/2014	0.814	178	34.0	CARBONE_I
7355	4,4'-DDD	µg/kg	165	210	64.9 - 299	Acceptable	EPA 8270D 3 2007	5/3/2014	-0.565	182	30.3	CARBONE_I
7360	4,4'-DDE	µg/kg	179	185	57.1 - 253	Acceptable	EPA 8270D 3 2007	5/3/2014	0.846	155	28.3	CARBONE_I
7365	4,4'-DDT	µg/kg	109	117	24.3 - 173	Acceptable	EPA 8270D 3 2007	5/3/2014	0.579	98.6	18.0	CARBONE_I
7470	Dieldrin	µg/kg	173	181	58.8 - 254	Acceptable	EPA 8270D 3 2007	5/3/2014	0.761	157	21.7	CARBONE_I
7540	Endrin	µg/kg	120	124	40.5 - 177	Acceptable	EPA 8270D 3 2007	5/3/2014	0.643	109	17.3	CARBONE_I
7530	Endrin aldehyde	µg/kg	107	184	18.4 - 202	Acceptable	EPA 8270D 3 2007	5/3/2014	0.470	94.9	25.8	CARBONE_I
7535	Endrin ketone	µg/kg	159	193	45.1 - 266	Acceptable	EPA 8270D 3 2007	5/3/2014	0.133	155	27.2	CARBONE_I
7510	Endosulfan I	µg/kg	367	403	121 - 479	Acceptable	EPA 8270D 3 2007	5/3/2014	1.07	300	62.5	CARBONE_I
7515	Endosulfan II	µg/kg	288	366	84.2 - 403	Acceptable	EPA 8270D 3 2007	5/3/2014	0.890	239	54.7	CARBONE_I
7520	Endosulfan sulfate	µg/kg	153	156	32.3 - 241	Acceptable	EPA 8270D 3 2007	5/3/2014	0.596	137	27.3	CARBONE_I
7685	Heptachlor	µg/kg	125	133	38.3 - 184	Acceptable	EPA 8270D 3 2007	5/3/2014	0.634	111	21.5	CARBONE_I
7690	Heptachlor epoxide	µg/kg	95.2	95.5	31.4 - 132	Acceptable	EPA 8270D 3 2007	5/3/2014	0.824	81.9	16.1	CARBONE_I
7810	Methoxychlor	µg/kg	193	243	24.3 - 391	Acceptable	EPA 8270D 3 2007	5/3/2014	-0.329	206	40.0	CARBONE_I



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SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	187	206	58.3 - 267	Acceptable	EPA 8081B 2	5/5/2014	0.805	163	30.4	NAGAR_V
7110	alpha-BHC	µg/kg	137	156	41.8 - 216	Acceptable	EPA 8081B 2	5/5/2014	0.335	129	24.7	NAGAR_V
7115	beta-BHC	µg/kg	137	142	22.6 - 217	Acceptable	EPA 8081B 2	5/5/2014	0.813	120	21.0	NAGAR_V
7105	delta-BHC	µg/kg	166	177	42.4 - 271	Acceptable	EPA 8081B 2	5/5/2014	0.331	157	27.5	NAGAR_V
7120	gamma-BHC(Lindane)	µg/kg	315	364	107 - 498	Acceptable	EPA 8081B 2	5/5/2014	0.214	303	58.2	NAGAR_V
7240	alpha-Chlordane	µg/kg	81.6	99.8	32.0 - 137	Acceptable	EPA 8081B 2	5/5/2014	-0.172	84.5	17.1	NAGAR_V
7245	gamma-Chlordane	µg/kg	210	216	83.5 - 273	Acceptable	EPA 8081B 2	5/5/2014	0.932	178	34.0	NAGAR_V
7355	4,4'-DDD	µg/kg	204	210	64.9 - 299	Acceptable	EPA 8081B 2	5/5/2014	0.720	182	30.3	NAGAR_V
7360	4,4'-DDE	µg/kg	180	185	57.1 - 253	Acceptable	EPA 8081B 2	5/5/2014	0.881	155	28.3	NAGAR_V
7365	4,4'-DDT	µg/kg	114	117	24.3 - 173	Acceptable	EPA 8081B 2	5/5/2014	0.856	98.6	18.0	NAGAR_V
7470	Dieldrin	µg/kg	180	181	58.8 - 254	Acceptable	EPA 8081B 2	5/5/2014	1.08	157	21.7	NAGAR_V
7540	Endrin	µg/kg	121	124	40.5 - 177	Acceptable	EPA 8081B 2	5/5/2014	0.700	109	17.3	NAGAR_V
7530	Endrin aldehyde	µg/kg	118	184	18.4 - 202	Acceptable	EPA 8081B 2	5/5/2014	0.896	94.9	25.8	NAGAR_V
7535	Endrin ketone	µg/kg	181	193	45.1 - 266	Acceptable	EPA 8081B 2	5/5/2014	0.941	155	27.2	NAGAR_V
7510	Endosulfan I	µg/kg	338	403	121 - 479	Acceptable	EPA 8081B 2	5/5/2014	0.610	300	62.5	NAGAR_V
7515	Endosulfan II	µg/kg	275	366	84.2 - 403	Acceptable	EPA 8081B 2	5/5/2014	0.652	239	54.7	NAGAR_V
7520	Endosulfan sulfate	µg/kg	158	156	32.3 - 241	Acceptable	EPA 8081B 2	5/5/2014	0.779	137	27.3	NAGAR_V
7685	Heptachlor	µg/kg	118	133	38.3 - 184	Acceptable	EPA 8081B 2	5/5/2014	0.309	111	21.5	NAGAR_V
7690	Heptachlor epoxide	µg/kg	87.0	95.5	31.4 - 132	Acceptable	EPA 8081B 2	5/5/2014	0.315	81.9	16.1	NAGAR_V
7810	Methoxychlor	µg/kg	223	243	24.3 - 391	Acceptable	EPA 8081B 2	5/5/2014	0.422	206	40.0	NAGAR_V



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	908	811	164 - 1070	Acceptable	EPA 8081B	5/6/2014	1.90	619	152	NAGAR_V
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SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	771	811	164 - 1070	Acceptable	EPA 8276	5/20/2014	0.999	619	152	TOPOLSKI_M
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	1080	1150	115 - 1580	Acceptable	EPA 8081B	5/6/2014	1.05	810	258	NAGAR_V
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	626	1150	115 - 1580	Acceptable	EPA 8276	5/20/2014	-0.713	810	258	TOPOLSKI_M
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SOIL Organophosphorus Pesticides in Soil (cat# 878)

7075	Azinphos-methyl (Guthion)	µg/kg	737	873	278 - 983	Acceptable	EPA 8141B	5/15/2014	0.909	630	117	BURGOS_J
7300	Chlorpyrifos	µg/kg	< 17.0	< 100	0.00 - 100	Acceptable	EPA 8141B	5/15/2014				BURGOS_J
7395	Demeton-O	µg/kg		< 100	0.00 - 100	Not Reported						
7385	Demeton-S	µg/kg		< 100	0.00 - 100	Not Reported						
7410	Diazinon	µg/kg	< 17.0	< 100	0.00 - 100	Acceptable	EPA 8141B	5/15/2014				BURGOS_J
8610	Dichlorvos (DDVP)	µg/kg		< 100	0.00 - 100	Not Reported						
8625	Disulfoton	µg/kg	399	610	47.5 - 727	Acceptable	EPA 8141B	5/15/2014	0.103	387	113	BURGOS_J
7955	Ethyl Parathion	µg/kg	556	553	209 - 693	Acceptable	EPA 8141B	5/15/2014	1.31	451	80.7	BURGOS_J
7770	Malathion	µg/kg	699	762	222 - 905	Acceptable	EPA 8141B	5/15/2014	1.19	564	114	BURGOS_J
7825	Methyl Parathion	µg/kg	214	254	106 - 279	Acceptable	EPA 8141B	5/15/2014	1.32	181	25.1	BURGOS_J
7985	Phorate	µg/kg	531	623	15.7 - 958	Acceptable	EPA 8141B	5/15/2014	0.282	487	157	BURGOS_J
8110	Ronnel	µg/kg		< 100	0.00 - 100	Not Reported						
8200	Stirophos (tetrachlorovinphos)	µg/kg		< 100	0.00 - 100	Not Reported						
8185	Terbufos	µg/kg	336	355	153 - 452	Acceptable	EPA 8141B	5/15/2014	0.668	303	49.9	BURGOS_J



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SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 0.000000	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	5/3/2014				CARBONE_I
8885	Aroclor 1221	mg/kg	< 0.000000	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	5/3/2014				CARBONE_I
8890	Aroclor 1232	mg/kg	< 0.000000	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	5/3/2014				CARBONE_I
8895	Aroclor 1242	mg/kg	< 0.000000	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	5/3/2014				CARBONE_I
8900	Aroclor 1248	mg/kg	< 0.000000	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	5/3/2014				CARBONE_I
8905	Aroclor 1254	mg/kg	3.41	3.21	0.539 - 4.93	Acceptable	EPA 8270D	5/9/2014	0.895	2.73	0.756	CARBONE_I
8910	Aroclor 1260	mg/kg	< 0.000000	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	5/3/2014				CARBONE_I

SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 0.00400	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	5/2/2014				NAGAR_V
8885	Aroclor 1221	mg/kg	< 0.00800	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	5/2/2014				NAGAR_V
8890	Aroclor 1232	mg/kg	< 0.00400	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	5/2/2014				NAGAR_V
8895	Aroclor 1242	mg/kg	< 0.00400	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	5/2/2014				NAGAR_V
8900	Aroclor 1248	mg/kg	< 0.00400	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	5/2/2014				NAGAR_V
8905	Aroclor 1254	mg/kg	3.12	3.21	0.539 - 4.93	Acceptable	EPA 8082A	5/2/2014	0.511	2.73	0.756	NAGAR_V
8910	Aroclor 1260	mg/kg	< 0.00400	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	5/2/2014				NAGAR_V



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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