



A Waters Company

Thekkekalathil Madhavan Chandrasekhar
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
Room A416D, MS 6512
Tallahassee, FL 32399-2400
USA

010416R



Final Report

QuiKTM Response Proficiency Testing



A Waters Company

February 4, 2016

Thekkekalathil Madhavan Chandrasekhar
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
Room A416D, MS 6512
Tallahassee, FL 32399-2400

Enclosed is your final report for ERA's QuiK™Response program. Your final report includes an evaluation of all results submitted by your laboratory to ERA. None of the assigned value(s) or acceptance limits were available to your laboratory at or before the time of reporting.

Please note the following changes to our final reports:

- 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.

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 the quality of your routine data.

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

If you are using this report for DMR-QA 35 Corrective Action, please note the following: permittees must submit a copy of this report to your DMR-QA Coordinator, along with your corrective action documentation by October 23, 2015. Contract Laboratories should send a copy of this report to your permittees upon receipt.

Thank you for your participation in ERA's QuiK™Response program. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

David Kilhefner
Quality Officer

cc: Project File Number 010416R



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
Florida	Vanessa Soto / 904-791-1599	All Analytes	2009 TNI



A Waters Company

010416R Laboratory Exception Report

Thekkekalathil Madhavan Chandrasekhar
QA Officer
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
Room A416D, MS 6512
Tallahassee, FL 32399-2400
(850) 245-8075

EPA ID:
ERA Customer Number:

FL01181
S744803

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

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Page 1 of 1
Project # : 010416R



Final Report Results For Laboratory State of Florida DEP Chemistry Laboratory

2009 TNI Evaluation Report

Project Number: **010416R**

ERA Customer Number: **S744803**

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

Organic Results





A Waters Company

010416R 2009 TNI Evaluation Final Complete Report

Thekkekalathil Madhavan Chandrasekhar
QA Officer
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
Room A416D, MS 6512
Tallahassee, FL 32399-2400
(850) 245-8075

EPA ID:
ERA Customer Number:

FL01181
S744803

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
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

WP PCBs in Water (cat# 734S, lot# 010416R) Study Dates: 01/04/16 - 02/04/16

8880	Aroclor 1016	µg/L	< 0.150	< 0.800	0.00 - 0.800	Acceptable	EPA 8270D 2007	1/13/2016				LUO_Y
8885	Aroclor 1221	µg/L	7.61	9.84	3.57 - 13.2	Acceptable	EPA 8270D 2007	1/14/2016	-0.224	7.92	1.38	LUO_Y
8890	Aroclor 1232	µg/L	< 0.150	< 0.800	0.00 - 0.800	Acceptable	EPA 8270D 2007	1/13/2016				LUO_Y
8895	Aroclor 1242	µg/L	< 0.150	< 0.800	0.00 - 0.800	Acceptable	EPA 8270D 2007	1/13/2016				LUO_Y
8900	Aroclor 1248	µg/L	< 0.150	< 0.800	0.00 - 0.800	Acceptable	EPA 8270D 2007	1/13/2016				LUO_Y
8905	Aroclor 1254	µg/L	< 0.150	< 0.800	0.00 - 0.800	Acceptable	EPA 8270D 2007	1/13/2016				LUO_Y
8910	Aroclor 1260	µg/L	< 0.150	< 0.800	0.00 - 0.800	Acceptable	EPA 8270D 2007	1/13/2016				LUO_Y



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

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Page 3 of 6

Project # : 010416R





A Waters Company

010416R 2009 TNI Evaluation Final Complete Report

Thekkekalathil Madhavan Chandrasekhar
QA Officer
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
Room A416D, MS 6512
Tallahassee, FL 32399-2400
(850) 245-8075

EPA ID:
ERA Customer Number:

FL01181
S744803

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
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

WP Organochlorine Pesticides (cat# 713, lot# 010416R) Study Dates: 01/04/16 - 02/04/16

7025	Aldrin	µg/L	1.61	3.92	1.38 - 5.27	Acceptable	EPA 8270D 2007	1/12/2016	-2.79	3.29	0.602	LUO_Y
7110	alpha-BHC	µg/L	3.05	3.39	1.43 - 4.70	Acceptable	EPA 8270D 2007	1/12/2016	-0.0106	3.06	0.523	LUO_Y
7115	beta-BHC	µg/L	16.6	17.4	8.27 - 23.1	Acceptable	EPA 8270D 2007	1/12/2016	0.350	15.7	2.48	LUO_Y
7105	delta-BHC	µg/L	4.88	4.74	2.01 - 6.75	Acceptable	EPA 8270D 2007	1/12/2016	0.615	4.45	0.704	LUO_Y
7120	gamma-BHC(Lindane)	µg/L	10.5	10.7	4.73 - 14.7	Acceptable	EPA 8270D 2007	1/12/2016	0.363	9.92	1.59	LUO_Y
7240	alpha-Chlordane	µg/L	0.875	1.04	0.425 - 1.52	Acceptable	EPA 8270D 2007	1/12/2016	-0.563	0.959	0.149	LUO_Y
7245	gamma-Chlordane	µg/L	3.76	4.86	2.15 - 6.44	Acceptable	EPA 8270D 2007	1/12/2016	-1.18	4.46	0.595	LUO_Y
7355	4,4'-DDD	µg/L	3.39	4.32	1.92 - 6.16	Acceptable	EPA 8270D 2007	1/12/2016	-0.771	3.90	0.668	LUO_Y
7360	4,4'-DDE	µg/L	3.41	4.41	1.89 - 6.01	Acceptable	EPA 8270D 2007	1/12/2016	-0.568	3.87	0.809	LUO_Y
7365	4,4'-DDT	µg/L	2.00	2.34	0.930 - 3.49	Acceptable	EPA 8270D 2007	1/12/2016	-0.401	2.15	0.383	LUO_Y
7470	Dieldrin	µg/L	2.96	3.63	1.83 - 4.86	Acceptable	EPA 8270D 2007	1/12/2016	-0.802	3.44	0.593	LUO_Y
7540	Endrin	µg/L	2.06	2.51	1.09 - 3.66	Acceptable	EPA 8270D 2007	1/12/2016	-0.651	2.32	0.398	LUO_Y
7530	Endrin aldehyde	µg/L	8.06	9.46	3.53 - 13.7	Acceptable	EPA 8270D 2007	1/12/2016	-0.0247	8.09	1.22	LUO_Y
7535	Endrin ketone	µg/L	6.90	7.32	3.86 - 9.99	Acceptable	EPA 8270D 2007	1/12/2016	0.307	6.65	0.810	LUO_Y
7510	Endosulfan I	µg/L	16.4	17.5	6.87 - 23.5	Acceptable	EPA 8270D 2007	1/12/2016	0.437	15.4	2.36	LUO_Y
7515	Endosulfan II	µg/L	5.15	6.29	2.53 - 8.70	Acceptable	EPA 8270D 2007	1/12/2016	-0.810	5.77	0.769	LUO_Y
7520	Endosulfan sulfate	µg/L	7.62	7.97	3.66 - 11.4	Acceptable	EPA 8270D 2007	1/12/2016	0.215	7.39	1.07	LUO_Y
7685	Heptachlor	µg/L	3.02	4.35	1.53 - 5.93	Acceptable	EPA 8270D 2007	1/12/2016	-0.942	3.59	0.607	LUO_Y
7690	Heptachlor epoxide (beta)	µg/L	1.32	1.48	0.686 - 2.04	Acceptable	EPA 8270D 2007	1/12/2016	-0.127	1.35	0.219	LUO_Y
7810	Methoxychlor	µg/L	6.51	6.63	2.72 - 9.93	Acceptable	EPA 8270D 2007	1/12/2016	0.514	5.90	1.18	LUO_Y



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

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Page 4 of 6

Project # : 010416R





A Waters Company

010416R 2009 TNI Evaluation Final Complete Report

Thekkekalathil Madhavan Chandrasekhar
QA Officer
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
Room A416D, MS 6512
Tallahassee, FL 32399-2400
(850) 245-8075

EPA ID:
ERA Customer Number:

FL01181
S744803

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
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

WP Organophosphorous Pesticides (OPP) (cat# 665, lot# 010416R) Study Dates: 01/04/16 - 02/04/16

7075	Azinphos-methyl (Guthion)	µg/L	11.0	11.5	1.50 - 19.7	Acceptable	EPA 8270D 2007	1/20/2016	1.01	9.02	1.96	CARBONE_I
7220	Carbophenothion	µg/L		3.19	1.56 - 4.40	Not Reported				3.03	0.230	
7300	Chlorpyrifos	µg/L	3.67	4.14	1.50 - 5.46	Acceptable	EPA 8270D 2007	1/20/2016	-0.399	4.08	1.02	CARBONE_I
7395	Demeton-O	µg/L		< 2.00	0.00 - 2.00	Not Reported						
7385	Demeton-S	µg/L		< 2.00	0.00 - 2.00	Not Reported						
7410	Diazinon	µg/L	2.79	3.02	1.17 - 4.73	Acceptable	EPA 8270D 2007	1/20/2016	-0.640	5.22	3.79	CARBONE_I
8610	Dichlorvos (DDVP)	µg/L		< 2.00	0.00 - 2.00	Not Reported						
7475	Dimethoate	µg/L		9.06	1.64 - 12.3	Not Reported				7.14	1.93	
7495	Dioxathion	µg/L		< 2.00	0.00 - 2.00	Not Reported						
8625	Disulfoton	µg/L	2.04	2.21	0.369 - 3.62	Acceptable	EPA 8270D 2007	1/20/2016	-0.590	2.27	0.382	CARBONE_I
7565	Ethion	µg/L	3.63	4.18	1.98 - 6.43	Acceptable	EPA 8270D 2007	1/20/2016	-1.82	4.51	0.485	CARBONE_I
7570	Ethoprop	µg/L	8.39	11.2	4.45 - 15.2	Acceptable	EPA 8270D 2007	1/20/2016	-0.569	9.38	1.73	CARBONE_I
7955	Ethyl Parathion	µg/L	15.4	18.1	9.96 - 26.2	Acceptable	EPA 8270D 2007	1/20/2016	-0.876	17.7	2.61	CARBONE_I
7580	Famphur	µg/L		12.0	5.64 - 16.2	Not Reported				8.64	2.27	
7640	Fonofos	µg/L	11.9	14.8	5.27 - 23.1	Acceptable	EPA 8270D 2007	1/20/2016		18.4	0.00	CARBONE_I
7770	Malathion	µg/L	11.8	13.6	3.10 - 21.4	Acceptable	EPA 8270D 2007	1/20/2016	-0.203	12.4	2.78	CARBONE_I
7825	Methyl Parathion	µg/L	5.95	7.92	2.90 - 10.6	Acceptable	EPA 8270D 2007	1/20/2016	-0.601	6.84	1.48	CARBONE_I
7985	Phorate	µg/L	11.3	14.6	5.68 - 18.3	Acceptable	EPA 8270D 2007	1/20/2016	-1.17	14.1	2.41	CARBONE_I
8000	Phosmet	µg/L		< 2.00	0.00 - 2.00	Not Reported						
8110	Ronnel	µg/L		11.2	4.93 - 13.5	Not Reported				9.60	1.68	



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

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Page 5 of 6

Project # : 010416R





A Waters Company

010416R 2009 TNI Evaluation Final Complete Report

Thekkekalathil Madhavan Chandrasekhar
QA Officer
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
Room A416D, MS 6512
Tallahassee, FL 32399-2400
(850) 245-8075

EPA ID:
ERA Customer Number:

FL01181
S744803

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
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

WP Organophosphorous Pesticides (OPP) (cat# 665, lot# 010416R) Study Dates: 01/04/16 - 02/04/16 (Continued)

8200	Stirophos	µg/L		< 2.00	0.00 - 2.00	Not Reported						
8185	Terbufos	µg/L	14.7	17.4	4.68 - 22.9	Acceptable	EPA 8270D 2007	1/20/2016	-0.572	16.8	3.73	CARBONE_I



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

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Page 6 of 6

Project # : 010416R

