



A Waters Company

Thekkekalathil Chandrasekhar
State of Florida DEP Biology Laboratory
2600 Blair Stone Rd
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DMR-QA 33



Final Report

DMR-QA Proficiency Testing

DMR-QA Study

Open Date: 03/18/13

Close Date: 07/08/13

Report Issued Date: 07/29/13



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July 29, 2013

Thekkekalathil Chandrasekhar
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Enclosed is your final report for ERA's DMR-QA 33 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 DMR-QA 33 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).

If you have any "Not Acceptable" evaluations for the DMR-QA 33 study, and these results have been reported by your permittees, a letter of corrective action and order form are attached for your convenience. If you have a "Not Acceptable" evaluation, but no letter of corrective action or order form, ERA recommends that you contact your permittees for the corrective action requirements that their state or regional DMR-QA Coordinator may require.

Thank you for your participation in ERA's DMR-QA 33 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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DMR-QA 33 Definitions & Study Discussion

Study Dates: 03/18/13 - 07/08/13

Report Issued: 07/29/13

DMRQA Study Definitions

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

The ERA Assigned Values are compliant with the current FoPT tables. A parameter not added to the standard is 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 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.

DMRQA Study Discussion

ERA's DMR-QA 33 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standards and the criteria contained in the current TNI FoPT tables.

ERA's DMR-QA 33 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 met the acceptance criteria contained in the 2009 TNI PT Standard and the criteria contained in the current TNI Fields of Proficiency Testing (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 DMR-QA 33 study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by 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 DMR-QA Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.





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DMR-QA 33 Laboratory Exception Report

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EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

FL01181
S744813
07/29/13
03/18/13 - 07/08/13

2009 TNI Evaluation Checks

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

2009 TNI Not Acceptable Evaluations

Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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DMRQA Ceriodaphnia dubia (Test Code 22) (cat# WET011)
7-day Short term Chronic, Daily Renewal, 20% DMW
Potassium chloride

0770	IC25 Reproduction	%	27.0	14.5	6.25 - 22.9	Not Acceptable	EPA 1002
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DMRQA Mysid (Test Code 43) (cat# WET017)
7-day Short term Chronic, Daily Renewal, 40 FSW
Potassium chloride

0816	IC25 (ON) Growth	%	26.1	51.6	33.0 - 70.3	Not Acceptable	EPA 1007 2002
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01



Final Report Results For Laboratory State of Florida DEP Biology Laboratory



2009 TNI Evaluation Report

Study: **DMR-QA 33**

ERA Customer Number: **S744813**

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

WET Results





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DMR-QA 33 Final Report

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Analyte Code	Test End Point	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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DMRQA Fathead minnow (Test Code 13) (cat# WET002)
48Hr., Acute, Non-Renewal, 25° C, MHSF
Potassium chloride

0754	LC50	69.0	57.0	29.5 - 84.5	Acceptable	EPA 2000.0 2002	4/2/2013	0.872	57.0	13.8	ALEXANDE_B
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Analyte Code	Test End Point	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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DMRQA Fathead minnow (Test Code 15) (cat# WET004)
7-day Short term Chronic, Daily Renewal, MHSF
Potassium chloride

0808	IC25 (ON) Growth	58.9	50.1	26.9 - 73.4	Acceptable	EPA 1000 2002	4/9/2013	0.752	50.1	11.6	ALEXANDE_B
0810	NOEC (ON) Growth	50.0	50.0	12.5 - 100	Acceptable	EPA 1000 2002	4/9/2013	0			ALEXANDE_B
0756	NOEC Survival	25.0	50.0	25.0 - 100	Acceptable	EPA 1000 2002	4/9/2013	0			ALEXANDE_B

Analyte Code	Test End Point	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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DMRQA Ceriodaphnia dubia (Test Code 20) (cat# WET009)
48Hr., Acute Renewal, 25° C, 20% DMW
Potassium chloride

0765	LC50	28.2	36.8	15.4 - 58.2	Acceptable	EPA 2002	4/2/2013	-0.808	36.8	10.7	FAIRCLOT_J
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Analyte Code	Test End Point	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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DMRQA Ceriodaphnia dubia (Test Code 22) (cat# WET011)
7-day Short term Chronic, Daily Renewal, 20% DMW
Potassium chloride

0770	IC25 Reproduction	27.0	14.5	6.25 - 22.9	Not Acceptable	EPA 1002	4/16/2013	2.96	14.5	4.22	FAIRCLOT_J
0771	NOEC Reproduction	12.5	12.5	6.25 - 25.0	Acceptable	EPA 1002	4/16/2013	0			FAIRCLOT_J
0769	NOEC Survival	25.0	12.5	6.25 - 25.0	Acceptable	EPA 1002	4/16/2013	0			FAIRCLOT_J



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

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Analyte Code	Test End Point	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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DMRQA Mysid (Test Code 42) (cat# WET016)
48Hr., Acute, Non-Renewal, 25° C, 40 FSW
Potassium chloride

0798	LC50	65.6	65.8	48.8 - 82.8	Acceptable	EPA 2007	5/29/2013	-0.0205	65.8	8.49	PENNINGT_A
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Analyte Code	Test End Point	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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DMRQA Mysid (Test Code 43) (cat# WET017)
7-day Short term Chronic, Daily Renewal, 40 FSW
Potassium chloride

0816	IC25 (ON) Growth	26.1	51.6	33.0 - 70.3	Not Acceptable	EPA 1007 2002	4/9/2013	-2.74	51.6	9.33	PENNINGT_A
0818	NOEC (ON) Growth	12.5	25.0	12.5 - 50.0	Acceptable	EPA 1007 2002	4/9/2013	0			PENNINGT_A
0799	NOEC Survival	25.0	50.0	25.0 - 100	Acceptable	EPA 1007 2002	4/9/2013	0			PENNINGT_A

Analyte Code	Test End Point	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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DMRQA Inland silverside (Test Code 44) (cat# WET018)
48Hr., Acute, Non-Renewal, 25° C, 40 FSW
Potassium chloride

0803	LC50	61.3	62.8	44.1 - 81.5	Acceptable	EPA 2006	4/2/2013	-0.159	62.8	9.34	REICHERT_C
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Analyte Code	Test End Point	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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DMRQA Inland Silverside (Test Code 45) (cat# WET013)
7-day Short term Chronic, Daily Renewal, 40 FSW
Potassium chloride

0825	IC25 (ON) Growth	37.0	49.3	31.5 - 67.1	Acceptable	EPA 1006.0 2002	5/10/2013	-1.38	49.3	8.91	REICHERT_C
0826	NOEC (ON) Growth	25.0	25.0	12.5 - 50.0	Acceptable	EPA 1006.0 2002	5/10/2013	0			REICHERT_C
0824	NOEC Survival	25.0	50.0	12.5 - 100	Acceptable	EPA 1006.0 2002	5/10/2013	0			REICHERT_C



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

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