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USA

DMRWet-35 Final Report

DMR-QA Proficiency Testing

DMR-QA Study

Open Date: 03/20/15

Close Date: 07/10/15

Report Issued Date: 07/31/15

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July 31, 2015

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Enclosed is your final report for ERA's DMRWet-35 Proficiency Testing study. Your final report includes an evaluation of every result submitted by your facility to ERA.

All analytes in ERA's DMRWet-35 Proficiency Testing study have been evaluated by comparing the reported results to the Acceptance Limits established per the criteria contained in the most current TNI FoPT tables. For NOEC Analytes the Lower Acceptance Limit is the test dilution below the Median (or <6.25%, whichever is higher), the Upper Acceptance Limit is the test dilution above the Median (or >100%, whichever is lower). If the Median is between two test dilutions, then the Lower Acceptance Limit is the second test dilution below the Median, and the Upper Acceptance Limit is the second test dilution above the Median. For Non-NOEC Analytes the Acceptance Limits are the Study Mean +/- 2 Standard Deviations. If the upper limit is above 100%, then the Upper Acceptance Limit is >100%, if the lower limit is below 6.25%, then the Lower Acceptance Limit is <6.25%.

If you have any "Not Acceptable" evaluations for the DMRWet-35 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 DMRWet-35 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

Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
Florida Dept. of Health	Steve Arms / 904.791.1502	All Analytes	2009 TNI

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DMRWet-35 Definitions & Study Discussion

Study Dates: 03/20/15 - 07/10/15 **Report Issued: 07/31/15**

DMRWet 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. For NOEC Analytes the Assigned Values should be set to the Study Median of the data reported by laboratories; reported values are <6.25%, 6.25%, 12.5%, 25%, 50%, 100%, or >100%. If the Median falls between two of these values, then the Assigned Value is set at the higher value. For Non-NOEC Analytes the Assigned Values should be set to the Study Mean, calculated using reported values from 6.25% and 100%, inclusive.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT tables. For NOEC Analytes the Lower Acceptance Limit is the test dilution below the Median (or <6.25%, whichever is higher), the Upper Acceptance Limit is the test dilution above the Median (or >100%, whichever is lower). If the Median is between two test dilutions, then the Lower Acceptance Limit is the second test dilution below the Median, and the Upper Acceptance Limit is the second test dilution above the Median. For Non-NOEC Analytes the Acceptance Limits are the Study Mean +/- 2 Standard Deviations. If the upper limit is above 100%, then the Upper Acceptance Limit is >100%, if the lower limit is below 6.25%, then the Lower Acceptance Limit is <6.25%.

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.

DMRWet Study Discussion

ERA's DMRWet-35 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 DMRWet-35 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.

If you have any questions or concerns regarding your assessment in ERA's DMRQA Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.

DMRWet-35 Laboratory Exception Report

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EPA ID: **FL01181**
ERA Customer Number: **S744813**
Report Issued: **07/31/15**
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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

Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
DMRWet Fathead minnow (Test Code 15) (cat# WET004)							
7-day Short term Chronic, Daily Renewal, MHSF							
Potassium chloride							
0810	NOEC (ON) Growth	%	6.25	25.0	12.5 - 50.0	Not Acceptable	EPA 1000 2002

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Final Report Results For Laboratory
State of Florida DEP Biology Laboratory

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2009 TNI Evaluation Report

Study: **DMRWet-35**

ERA Customer Number: **S744813**

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

WET Results

DMRWet-35 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
DMRWet Fathead minnow (Test Code 13) (cat# WET002)											
48Hr., Acute, Non-Renewal, 25° C, MHSF											
Potassium chloride											
0754	LC50	34.2	40.7	17.8 - 63.6	Acceptable	EPA 2000.0 2002	5/19/2015	-0.567	40.7	11.5	REICHERT_C

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
DMRWet Fathead minnow (Test Code 15) (cat# WET004)											
7-day Short term Chronic, Daily Renewal, MHSF											
Potassium chloride											
0808	IC25 (ON) Growth	25.4	33.1	18.3 - 47.8	Acceptable	EPA 1000 2002	5/13/2015	-1.04	33.1	7.37	REICHERT_C
0810	NOEC (ON) Growth	6.25	25.0	12.5 - 50.0	Not Acceptable	EPA 1000 2002	5/13/2015				REICHERT_C
0756	NOEC Survival	25.0	25.0	12.5 - 50.0	Acceptable	EPA 1000 2002	5/13/2015				REICHERT_C

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
DMRWet Ceriodaphnia dubia (Test Code 20) (cat# WET009)											
48Hr., Acute Renewal, 25° C, 20% DMW											
Potassium chloride											
0765	LC50	37.9	43.0	12.0 - 74.0	Acceptable	EPA 2002	6/2/2015	-0.326	43.0	15.5	CALDWELL_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
DMRWet Ceriodaphnia dubia (Test Code 22) (cat# WET011)											
7-day Short term Chronic, Daily Renewal, 20% DMW											
Potassium chloride											
0770	IC25 Reproduction	7.81	12.3	< 6.25 - 34.7	Acceptable	EPA 1002	6/16/2015	-0.402	12.3	11.2	POWER_D
0771	NOEC Reproduction	6.25	6.25	< 6.25 - 12.5	Acceptable	EPA 1002	6/16/2015				POWER_D
0769	NOEC Survival	6.25	6.25	< 6.25 - 12.5	Acceptable	EPA 1002	6/16/2015				POWER_D

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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
DMRWet Mysid (Test Code 42) (cat# WET016)											
48Hr., Acute, Non-Renewal, 25° C, 40 FSW											
Potassium chloride											
0798	LC50	70.7	59.1	38.1 - 80.2	Acceptable	EPA 2007	5/13/2015	1.10	59.1	10.5	POWER_D

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
DMRWet Mysid (Test Code 43) (cat# WET017)											
7-day Short term Chronic, Daily Renewal, 40 FSW											
Potassium chloride											
0816	IC25 (ON) Growth	61.5	49.4	25.5 - 73.2	Acceptable	EPA 1007 2002	3/31/2015	1.02	49.4	11.9	REICHERT_C
0818	NOEC (ON) Growth	50.0	50.0	25.0 - 100	Acceptable	EPA 1007 2002	3/31/2015				REICHERT_C
0799	NOEC Survival	50.0	50.0	25.0 - 100	Acceptable	EPA 1007 2002	3/31/2015				REICHERT_C

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
DMRWet Inland silverside (Test Code 44) (cat# WET018)											
48Hr., Acute, Non-Renewal, 25° C, 40 FSW											
Potassium chloride											
0803	LC50	66.0	59.2	35.5 - 82.8	Acceptable	EPA 2006	5/13/2015	0.576	59.2	11.8	POWER_D

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
DMRWet Inland Silverside (Test Code 45) (cat# WET013)											
7-day Short term Chronic, Daily Renewal, 40 FSW											
Potassium chloride											
0825	IC25 (ON) Growth	55.2	59.3	49.7 - 68.9	Acceptable	EPA 1006.0 2002	3/31/2015	-0.856	59.3	4.80	REICHERT_C
0826	NOEC (ON) Growth	25.0	50.0	25.0 - 100	Acceptable	EPA 1006.0 2002	3/31/2015				REICHERT_C
0824	NOEC Survival	50.0	50.0	25.0 - 100	Acceptable	EPA 1006.0 2002	3/31/2015				REICHERT_C