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Company
Certified Reference Materials



6390 Joyce Drive
100
Golden, CO 80403

Phone 303-940-0033
Fax 866-283-0269
www.phenova.com

August 4, 2017

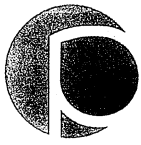
Mrs. Erin Briggs
Bio-Analytical Laboratories
3240 Spurgin Road
Doyline, LA 71023
USA

Dear Erin,

Thank you for participating in the DMRQA37-WET DMRQA PT Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you. A final report for your laboratory will be sent to all accrediting agencies you requested at the time of data submittal.

Thank you again for participating in the DMRQA37-WET DMRQA PT Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 303-940-0033.



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Report Definitions:

Assigned Value

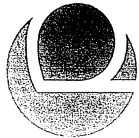
The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation Limits

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC PT FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation

<i>Acceptable</i>	The reported value falls within the Acceptance Limits.
<i>Not Acceptable</i>	The reported value falls outside the Acceptance Limits.
<i>No Evaluation</i>	The reported value is non-numeric and can not be evaluated.
<i>NR</i>	As required by the NELAC standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).



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Final Report - DMRQA PT

Study: DMRQA37-WET

Opening Date: March 24, 2017 - Closing Date: July 7, 2017

Facility: Bio-Analytical Laboratories
 3240 Spurgin Road
 Doyline, LA 71023
 USA

Contact: Mrs. Erin Briggs, Technical Director
 (318) 745-2772

EPA Lab ID: LA00917
 NPDES Permit ID:

Fathead Minnow Method 13 (PT-13-WET)

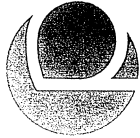
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Acute MHSF 25° - LC50	10264809	EPA 2000.0 - Fathead Minnow Acute Toxicity Rev.5th Ed 2002	S.U.	33.2	33.85	15.6 - 50.8	Acceptable

Fathead Minnow Method 15 (PT-15-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Chronic MHSF - Survival NOEC	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	50	50.0	25 - 100	Acceptable
3410	Fathead Minnow Chronic MHSF - Growth LC25 (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	52.3	57.38	29.1 - 75.6	Acceptable
3410	Fathead Minnow Chronic MHSF - Growth NOEC (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	50	50.0	12.5 - 100	Acceptable

Ceriodaphnia Method 19 (PT-19-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3315	Ceriodaphnia Acute MHSF 25° - LC50	10214809	EPA 2002.0 - Ceriodaphnia dubia, 48-hr Acute, renewal, MHSF 25°C 2002	S.U.	66.2	87.90	11.7 - >100	Acceptable



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Ceriodaphnia Method 21 (PT-21-WET)

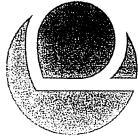
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3315	Ceriodaphnia Chronic MHSF - Survival NOEC	10215006	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	50	50.0	25 - 100	Acceptable
3315	Ceriodaphnia Chronic MHSF - Reproduction IC25	10215006	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	32.2	56.90	<6.25 - 64.0	Acceptable
3315	Ceriodaphnia Chronic MHSF - Reproduction NOEC	10215006	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C 2002	S.U.	25	50.0	6.25 - 50	Acceptable

Daphnia Method 32 (PT-32-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3350	Daphnia Magna Acute MHSF 25° - LC50	10215415	EPA 2021.0 - Daphnia magna, 48-hr Acute, nonrenewal, MHSF 25°C 2002	S.U.	51.3	33.14	6.25 - 96.4	Acceptable

Daphnia Method 38 (PT-38-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3355	Daphnia Pulex Acute MHSF 25° - LC50	10215619	EPA 2021.0 - Daphnia pulex, 48hr Acute, nonrenewal, MHSF 25°C 2002	S.U.	40.1	73.19	<6.25 - 81.7	Acceptable



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Mysid Method 42 (PT-42-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3395	Mysid Acute SSW 25° - LC50	10216010	EPA 2007.0 - Mysid Acute Toxicity Rev.5th Ed 2002	S.U.	44.6	61.11	21.3 - 67.9	Acceptable

Menidia Method 44 (PT-44-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3380	Menidia Acute SSW 25° - LC50	10216418	EPA 2006.0 - Menidia Acute Toxicity Rev.5th Ed 2002	S.U.	98.4	>100.0	92.8 - >100	Acceptable

Sheepshead Minnow Method 46 (PT-46-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3345	Sheepshead Minnow Acute SSW 25° - LC50	10216612	EPA 2004.0 - Sheepshead Minnow Acute Toxicity Rev.5th Ed 2002	S.U.	41.0	68.30	<6.25 - 78.6	Acceptable