

6390 Joyce Drive
100
Golden, CO 80403

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

August 16, 2019

Ms. Kelley Keenan
Environmental Testing Solutions, Inc.
351 Depot Street
Asheville, NC 28801
USA

Dear Kelley,

Thank you for participating in the DMRQA39-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 DMRQA39-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.

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: DMRQA39-WET

Opening Date: March 22, 2019 - Closing Date: July 19, 2019

Facility: Environmental Testing Solutions, Inc.
351 Depot Street
Asheville, NC 28801
USA

Contact: Ms. Kelley Keenan
828-350-9364

EPA Lab ID: NC01230

NPDES Permit ID:

| Fathead Minnow Method 13 (PT-13-WET) | | | | | | | | Lot #: 8543-13 |
|--------------------------------------|--|-------------|--|-------|----------------|--------|-------------------|----------------|
| NELAC Code | Analyte | Method Code | Method Description | Units | Assigned Value | Result | Acceptance Limits | Evaluation |
| 3410 | Fathead Minnow Acute MHSF 25° - LC50 | 10213602 | EPA 2000.0 - Pimephales promelas, 48-hr Acute, nonrenewal, MHSF 25°C 2002 | S.U. | 35.7 | 34.2 | 16.8 - 54.7 | Acceptable |
| Fathead Minnow Method 15 (PT-15-WET) | | | | | | | | Lot #: 8543-15 |
| 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 - Pimephales promelas, 7-day Chronic, daily renewal, MHSF 25°C 2002 | S.U. | 50 | 50 | 25 - 100 | Acceptable |
| 3410 | Fathead Minnow Chronic MHSF - Growth IC25 (ON) | 10214207 | EPA 1000.0 - Pimephales promelas, 7-day Chronic, daily renewal, MHSF 25°C 2002 | S.U. | 44.0 | 45.4 | 7.94 - 80.0 | Acceptable |
| 3410 | Fathead Minnow Chronic MHSF - Growth NOEC (ON) | 10214207 | EPA 1000.0 - Pimephales promelas, 7-day Chronic, daily renewal, MHSF 25°C 2002 | S.U. | 25 | 25 | 12.5 - 50 | Acceptable |

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| Ceriodaphnia Method 19 (PT-19-WET) | | | | | | | | Lot #: 8543-19 |
|------------------------------------|---|-------------|---|-------|----------------|--------|-------------------|----------------|
| 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, nonrenewal, MHSF 25°C 2002 | S.U. | 41.0 | 27.7 | 14.7 - 67.4 | Acceptable |
| Ceriodaphnia Method 21 (PT-21-WET) | | | | | | | | Lot #: 8543-21 |
| 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. | 25 | 25 | 12.5 - 50 | Acceptable |
| 3315 | Ceriodaphnia Chronic MHSF - Reproduction IC25 | 10215006 | EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C 2002 | S.U. | 27.0 | 29.8 | 17.9 - 36.2 | 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 | 25 | 12.5 - 50 | Acceptable |

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| Mysid Method 42 (PT-42-WET) | | | | | | | | Lot #: 8543-42 | |
|-----------------------------|--------------------------------------|-------------|--|-------|----------------|--------|-------------------|----------------|--|
| NELAC Code | Analyte | Method Code | Method Description | Units | Assigned Value | Result | Acceptance Limits | Evaluation | |
| 3395 | Mysid Acute SSW 25° - LC50 | 10216009 | EPA 2007.0 - Mysidopsis bahia, 48-hr Acute, nonrenewal, 40-fathoms SW, 25°C 2002 | S.U. | 40.2 | 34.2 | 20.0 - 60.5 | Acceptable | |
| Mysid Method 43 (PT-43-WET) | | | | | | | | Lot #: 8543-43 | |
| NELAC Code | Analyte | Method Code | Method Description | Units | Assigned Value | Result | Acceptance Limits | Evaluation | |
| 3395 | Mysid Chronic SSW - Survival NOEC | 10254009 | EPA 1007.0 - Mysidopsis bahia, 7-day Chronic, daily renewal, 40-fathoms SW 26°C 2002 | S.U. | 25 | 25 | 12.5 - 50 | Acceptable | |
| 3395 | Mysid Chronic SSW - Growth IC25 (ON) | 10254009 | EPA 1007.0 - Mysidopsis bahia, 7-day Chronic, daily renewal, 40-fathoms SW 26°C 2002 | S.U. | 28.4 | 30.3 | 24.0 - 32.9 | Acceptable | |
| 3395 | Mysid Chronic SSW - Growth NOEC (ON) | 10254009 | EPA 1007.0 - Mysidopsis bahia, 7-day Chronic, daily renewal, 40-fathoms SW 26°C 2002 | S.U. | 25 | 25 | 12.5 - 50 | Acceptable | |

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| Menidia Method 44 (PT-44-WET) | | | | | | | | Lot #: 8543-44 | |
|-------------------------------|--|-------------|---|-------|----------------|--------|-------------------|----------------|--|
| NELAC Code | Analyte | Method Code | Method Description | Units | Assigned Value | Result | Acceptance Limits | Evaluation | |
| 3380 | Menidia Acute SSW 25° - LC50 | 10216407 | EPA 2006.0 - Menidia beryllina, 48-hr Acute, nonrenewal, 40-fathoms SW 25°C 2002 | S.U. | 35.0 | 34.2 | 24.0 - 46.0 | Acceptable | |
| Menidia Method 45 (PT-45-WET) | | | | | | | | Lot #: 8543-45 | |
| NELAC Code | Analyte | Method Code | Method Description | Units | Assigned Value | Result | Acceptance Limits | Evaluation | |
| 3380 | Menidia Chronic SSW - Survival NOEC | 10253802 | EPA 1006.0 - Menidia beryllina, 7-day Chronic, daily renewal, 40-fathoms SW 25°C 2002 | S.U. | 25 | 25 | 12.5 - 50 | Acceptable | |
| 3380 | Menidia Chronic SSW - Growth IC25 (ON) | 10253802 | EPA 1006.0 - Menidia beryllina, 7-day Chronic, daily renewal, 40-fathoms SW 25°C 2002 | S.U. | 28.5 | 30.2 | 21.5 - 35.5 | Acceptable | |
| 3380 | Menidia Chronic SSW - Growth NOEC (ON) | 10253802 | EPA 1006.0 - Menidia beryllina, 7-day Chronic, daily renewal, 40-fathoms SW 25°C 2002 | S.U. | 25 | 25 | 12.5 - 50 | Acceptable | |