

PERFORMANCE EVALUATION

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Quarterly Study

WPMIC09-3B

WPMICRO / DMRQA 29

8-Jul-2009 through 21-Aug-2009

RT1068

RTC Labcode

WY00006

US EPA Labcode

Energy Laboratories
Terry Friedlan
400 West Boxelder Rd.
Gillette WY 82718

Thank you for participating in study WPMIC09-3B. Additional information about this study may be found online at www.rt-corp.com. If you have any questions or comments about this study please contact me.

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This report may contain data that are not covered by the A2LA accreditation.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Rucinski", is written over a light blue horizontal line.

Christopher Rucinski
Quality Director

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Laramie, WY 82070
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Dataset

WPMIC09-3BMLI**Dataset Analyst**

Ingram, Mary

Include in DMRQA Study

Evaluations from this dataset will be included in DMRQA 29.

Accreditors

Evaluations of this dataset will be sent to the accreditor(s) listed below using your laboratory's labcode listed above each accrediting agency. If any of the information listed below is incorrect, please contact RTC immediately.

Accrediting Labcode WY00006

USEPA Region VIII

370 Aaron Urdiales
1595 Wynkoop Street (ENF-W-NP)
Denver CO 80202
UNITED STATES

217 Jim Gindelberger
1595 Wynkoop Street
Denver CO 80202-1129
UNITED STATES

606 Sandra Spence
1595 Wynkoop Street
Denver CO 80202-1129
UNITED STATES

Accrediting Labcode WY00006

Wyoming DEQ

Water Quality Division

206 Edward Mock
122 W. 25th Street
Cheyenne WY 82002
UNITED STATES

Microbiology

Analysis

SM/APHA 9222 D (m-FC) 18th ED (1992) - Analyst: M. Ingram

Method Number 20037405

	Result Units	Assigned Value	Accept.	Z	Evaluation
Fecal coliforms 1, 4 2530 / MIC-003 - Lot 014316 /Analyst: MLI/ Analysis Date: 8/3/09	150 CFU/100mL	144.00	38.8 to 440		Acceptable

Analysis

SM/APHA 9223 B (Colilert®) 18th ED (1992) - Analyst: M. Ingram

Method Number 20211807

	Result Units	Assigned Value	Accept.	Z	Evaluation
Escherichia coli, MPN 4 2525 / MIC-003 - Lot 014316 /Analyst: MLI/ Analysis Date: 8/3/09	295 MPN/100 mL	197.00	70 to 710		Acceptable



Microbiology (continued)

Analysis SM/APHA 9223 B (Colilert®) 19th ED (1995) - Analyst: M. Ingram Method Number 20212004

	Result Units	Assigned Value	Accept.	Z	Evaluation
Total Coliform, MPN 1, 4 2500 / MIC-003 - Lot 014316 /Analyst: MLI/ Analysis Date: 8/3/09	295 MPN/100 mL	211.00	57.3 to 651		Acceptable

End of WPMIC09-3BMLI



Sample Information

E. coli in Water - Quantitative WP

MIC-003 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Total Coliform, MPN 2500 Microbiology	MPN/100	211.00	191.00	74.40	200 ± 4
Escherichia coli, MPN 2525 Microbiology	MPN/100	197.00	184.00	57.70	200 ± 4
Fecal coliforms 2530 Microbiology	CFU/100m	144.00	132.00	51.30	200 ± 4

Definitions:

Assigned Value: Value attributed to a particular quantity and accepted, sometimes by convention, as having an uncertainty appropriate for a give purpose. See ISO Guide 43 for additional information.

Accept. Window: The range of values that constitute acceptable performance for a laboratory participation in this PT study.

Z: A Z-Score tells how a single data point compares to normal data. A Z-Score says not only whether a point was above or below average, but how unusual the measurement is. Generally, a method result with a Z-Score less than |2| is considered to be in control, a Z-Score between |2| and |3| is considered 'Questionable', but still within control and a Z greater than |3| is considered not acceptable and the method is out of control.

Study Mean: Statistical study mean calculated using a robust statistical model (RTC employs the 'Biweight Program'). Robust statistical techniques to minimize the influence that extreme results can have on estimates of the mean and standard deviation NOTE - These techniques assign less weight to extreme results, rather than eliminate them from a data set.

Study Std. Dev.: Standard deviation calculated from study data using robust statisticals (Biweight).

Gravimetric Value: The prepared to value, determined by gravimetric means. The uncertainty associated to this value is standard uncertainty and based on RTC's gravimetric tolerances.

Program analyte accrediting footnotes

¹ NELAC

³ Other

⁵ NELAC Experimental

² EPA

⁴ A2LA