



Julie Weisz
Energy Laboratories
400 West Boxelder Road
Gillette, WY 82718
USA

WS-284  **Final Report**

WatR™ Supply Proficiency Testing

WatR™ Supply Study

Open Date: 03/02/20

Close Date: 04/16/20

Report Issued Date: 04/20/20



A Waters Company

April 20, 2020

Julie Weisz
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Gillette, WY 82718

Enclosed is your final report for ERA's WS-284 WatR™ Supply 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 WS-284 WatR™ Supply Proficiency Testing (PT) study have been evaluated using the following tiered approach. If the analyte is listed in the most current NELAC Fields of Proficiency Testing (FoPT) table the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the table and the evaluation criteria contained in the 2016 TNI Standard, Volume 3. If the analyte is not included in the NELAC FoPT table, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 730002268).

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (QuiK™ Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have many years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be useful in helping you work through your technical issues.

Thank you for your participation in ERA's WS-284 WatR™ Supply Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew Seebeck".

Matthew Seebeck
Quality Officer

attachments



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Report Recipient	Contact/Phone Number	Reporting Type
EPA Region 8	Marcie Tidd / (303) 462-9476	All Analytes



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WS-284 Definitions & Study Discussion

Study Dates: 03/02/20 - 04/16/20

Report Issued: 04/20/20

WS Study Definitions

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

The ERA Assigned Values are compliant with the most current NELAC Fields of Proficiency Testing (FoPT) table. 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 NELAC FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable. This report is scored by the criteria in the 2016 TNI Standard, Volume 3, instead of by the criteria in the 2009 TNI Standard to which the Proficiency Testing Provider is accredited. This is a planned change and is endorsed by the TNI Proficiency Testing Program Executive Committee for transition to the 2016 TNI Standard.

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.

WS Study Discussion

ERA's WS-284 WatR™ Supply Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standards and the 2016 TNI Standard, Volume 3, Section 5.9 and the criteria contained in the most current NELAC Fields of Proficiency Testing (FoPT) table.

ERA's WS-284 WatR™ Supply 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 in the standards met the acceptance criteria contained in the 2009 TNI PT Standard and the criteria contained in the most current NELAC FoPT table.

All analytes are included in ERA's A2LA accreditation, certification number 1539.01.

All activities associated with this proficiency testing study were performed by Waters/ERA with the exception of those noted below. The following physical samples/products were manufactured for Waters/ERA by a subcontractor:

Microbiology products with the following catalog numbers:
880, 935, 079, 077, 080, 595, 595A, 576, 576A

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 WS-284 WatR™ Supply 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 WatR™ Supply Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.



WS-284 Laboratory Exception Report



A Waters Company

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400 West Boxelder Road
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(307) 686-7175-2044

EPA ID:	WY00006
ERA Customer Number:	E351102
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Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.



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Final Report Results For Laboratory Energy Laboratories





Final Evaluation Report

Study: **WS-284**

ERA Customer Number: **E351102**

Laboratory Name: **Energy Laboratories**

Microbiology Results





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WS-284 Final Evaluation Report

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TNI Analyte Code	Analyte	Units	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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WS MicrobE™ (Coliforms) (cat# 080A, lot# S284-085A)

2500	Total Coliforms - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 9	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2500	Total Coliforms - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 5, 6 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 4, 7 and 9
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 2
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 3
 Blank - Blank Pellet (Qualitative), Samples 1 and 8

This report is scored by the criteria in the 2016 TNI Standard, Volume 3, instead of by the criteria in the 2009 TNI Standard to which the Proficiency Testing Provider is accredited. This is a planned change and is endorsed by the TNI Proficiency Testing Program Executive Committee for transition to the 2016 TNI Standard.





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WS MicroB™ (Coliforms) (cat# 080A, lot# S284-085A) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 2	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 3	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 4	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 5	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 6	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 7	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 8	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 9	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Presence	Presence	Not Reported						

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 5, 6 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 4, 7 and 9
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 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 3
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WS MicrobE™ (Coliforms) (cat# 080A, lot# S284-085A) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz
2525	E.coli - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	3/17/2020				Julie Weisz

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 5, 6 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 4, 7 and 9
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 2
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 3
 Blank - Blank Pellet (Qualitative), Samples 1 and 8

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WS MicrobE™ (Coliforms) (cat# 080B, lot# S284-085B)

2500	Total Coliforms - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 8	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2500	Total Coliforms - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 3, 7 and 8
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 2, 6 and 10
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 4
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 1
 Blank - Blank Pellet (Qualitative), Samples 5 and 9

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WS MicrobE™ (Coliforms) (cat# 080B, lot# S284-085B) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 2	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 3	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 4	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 5	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 6	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 7	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 8	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 9	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Absence	Absence	Not Reported						

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

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WS MicrobE™ (Coliforms) (cat# 080B, lot# S284-085B) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 8	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLISURE 22nd ED 2004	3/15/2020				Brandon Bowe

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 3, 7 and 8
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 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 1
 Blank - Blank Pellet (Qualitative), Samples 5 and 9

WS Heterotrophic Plate Count (cat# 079, lot# S284-084)

2555	Heterotrophic Plate Count (MF, PP)	CFU/mL		259	215 - 342	Not Reported				271	31.5	
2555	Heterotrophic Plate Count (MPN)	MPN/mL	189	221	146 - 426	Acceptable	Simplate 2000	3/17/2020	-0.0650	249	70.0	Julie Weisz

Per Section 6.4.3 a of the 2009 TNI Standard, "The assigned values for quantitative microbiology analytes shall be equal to the mean of the assigned value verification and/or homogeneity testing per Sections 7.1 and 7.2". The final acceptance limits are derived from the calculated study mean and study standard deviation from laboratory-reported results. Disagreement between the assigned values and study means/acceptance limits are due to the inherent variability of microbiology methods and differences in the methods used by ERA and participant laboratories. For quantitative microbiology analytes, the assigned value is not used in the evaluation of laboratories.



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CERTIFICATE OF EXCELLENCE

In recognition of the quality of your laboratory in proficiency testing for

WS-284

Energy Laboratories

is issued this certificate of achievement by ERA. This laboratory has been recognized as a Laboratory of Excellence for achieving 100% acceptable data in this study which included 305 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below.

Heterotrophic Plate Count

MicrobE™ (Coliforms)



Matthew Seebeck
Quality Officer