





A Waters Company

Kelley E. Keenan  
Environmental Testing Solutions, Inc.  
PO Box 7565  
Asheville, NC 28802-7565

***WP-195***



***Final Report***

# **WatR™ Pollution Proficiency Testing**

**WatR™ Pollution Study**

**Open Date: 04/11/11**

**Close Date: 05/26/11**

**Report Issued Date: 06/16/11**



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June 17, 2011

Kelley E. Keenan  
Environmental Testing Solutions, Inc.  
PO Box 7565  
Asheville, NC 28802-7565

Enclosed is your final report for ERA's WP-195 WatR™ Pollution 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 WP-195 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the most current National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the NELAC FoPT tables. If the analyte is not included in the NELAC FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

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 well over three hundred 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 helpful in helping you work through your technical issues.

Thank you for your participation in ERA's WP-195 WatR™ Pollution Proficiency Testing study. If you have any questions, please contact the proficiency testing department, or myself, at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink that reads "Jay R. McBurney". The signature is written in a cursive, flowing style.

Jay R. McBurney  
Quality Program Manager

attachments  
jrm



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<b>Report Recipient</b>	<b>Contact/Phone Number</b>	<b>Reporting Type</b>
North Carolina (WP)	Dana Satterwhite / 919-733-3908 x 243	All Analytes
South Carolina	Carol Smith / 803-896-0992	All Analytes

# WP-195 Definitions & Study Discussion

**Study Dates: 04/11/11 - 05/26/11**

**Report Issued: 06/16/11**

## WP Study Definitions

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

The ERA Assigned Values are compliant with the most current USEPA/NELAC FoPT tables. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards. A parameter not added to the standard is given an Assigned Value of "0" per the guidelines contained in the USEPA's Criteria Document and NELAC standards.

The Acceptance Limits are established per the criteria contained in the most current USEPA/NELAC FoPT tables, or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

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.

## WP Study Discussion

ERA's WP-195 WatR™ Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the USEPA's National Standards for Water Proficiency Testing Studies Criteria Document (December 1998), and the criteria contained in the most current NELAC FoPT tables.

ERA's WP-195 WatR™ Pollution 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 USEPA's National Criteria Document for Water Proficiency Testing Studies, December 1998, and the criteria contained in the most current NELAC 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.

ERA's WP-195 WatR™ Pollution 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™ Pollution Proficiency Testing program, please contact Jay McBurney, Quality Program Manager, or the proficiency testing department at 1-800-372-0122.



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# WP-195 Study Anomalies

**Study Dates: 04/11/11 - 05/26/11**

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Study Discussion WasteWatR™ Coliform MicrobE™ - E.coli (MPN)

During the statistical review of the WP-195 WasteWatR™ Coliform MicrobE™ data, ERA observed a low bias for E.coli (MPN) when the laboratories reported SM 9221. The analytical mean of the study data for E.coli (MPN) was 894 MPN/100mL, with 109 laboratories reporting. The analytical mean of the SM 9221 data is 578 MPN/100mL, 53.8% of the overall study data, with 17 laboratories reporting. Laboratories reporting SM 9221 constituted approximately 16% of the overall data reported for E. coli (MPN).

Laboratories reporting SM 9221 accounted for 6 of 10 (60.0%) "Not Acceptable" evaluations for E.coli. Based on the results of ERA's criteria for testing for bimodal or multimodal distributions, and the 2003 NELAC Standards Chapter 2 Appendix C section C.4, the laboratories reporting SM 9221 were evaluated separately for this analyte.



Study: **WP-195**

ERA Customer Number: **E559701**

Laboratory Name: **Environmental Testing  
Solutions, Inc.**

## Microbiology Results





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# WP-195 Final Complete Report

**Kelley E. Keenan**  
**Supervisor**  
**Environmental Testing Solutions, Inc.**  
**PO Box 7565**  
**Asheville, NC 28802-7565**  
**828-350-9364**

**EPA ID:** NC01230  
**ERA Customer Number:** E559701  
**Report Issued:** 06/16/11  
**Study Dates:** 04/11/11 - 05/26/11

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
<b>WP WasteWatR™ Coliform MicrobE™ (cat# 576)</b>							
2500	Total Coliforms (MF)	CFU/100mL		588	126 - 2730	Not Reported	
2530	Fecal Coliforms (MF)	CFU/100mL		148	7.00 - 3360	Not Reported	
2525	E.coli (MF)	CFU/100mL		254	11.0 - 5710	Not Reported	
2500	Total Coliforms (MPN)	MPN/100mL	240	620	82.2 - 4680	Acceptable	SM9221B LTB
2530	Fecal Coliforms (MPN)	MPN/100mL		437	45.9 - 4160	Not Reported	
2525	E.coli (MPN)	MPN/100mL		926	446 - 1920	Not Reported	

