



A Waters Company

**Pam M. Varner
Analytical Services Inc
110 Technology Pkwy
Norcross, GA 30092**

WP-198



Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 07/11/11

Close Date: 08/25/11

Report Issued Date: 09/16/11



A Waters Company

September 16, 2011

Pam M. Varner
Analytical Services Inc
110 Technology Pkwy
Norcross, GA 30092

Enclosed is your final report for ERA's WP-198 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-198 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the current TNI FoPT tables. If the analyte is not included in the TNI 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).

Please note the following changes to our final reports:

- At the request of the TNI Accreditation Council, we have included a Laboratory Exception Report that includes a list of all analytes reported with less than qualifiers when the assigned value was greater than "0." In addition, because we have received many requests from laboratories, this report also includes a list of all analytes with "Not Acceptable" evaluations.
- Some states have elected not to convert to the 2009 TNI Standards at this time. If you have released your results to a state that has retained the 2003 NELAC Evaluation Criteria, your final report will include a section that evaluates the results according to the 2003 Standard in addition to the 2009 TNI Standards.

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.

If you are using the WP-198 study for DMR-QA 31 corrective action, please note that permittees must submit a copy of this report to their DMR-QA coordinator, along with any corrective action documentation, by September 30, 2011. Contract laboratories should forward a copy of this report to their permittees upon receipt.

Thank you for your participation in ERA's WP-198 WatR™ Pollution 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 that reads "Jay R. McBurney".

Jay R. McBurney
Quality Program Manager

attachments
jrm



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
Florida	Steve Arms / 904-791-1502	All Analytes	2009 TNI
Louisiana	Paul Bergeron / 225-219-1244	All Analytes	2009 TNI
South Carolina	Carol Smith / 803-896-0992	Custom Reporting	2003 NELAC
Texas	Frank Jamison / (512) 239-3754	All Analytes	2009 TNI

WP-198 Definitions & Study Discussion

Study Dates: 07/11/11 - 08/25/11

Report Issued: 09/16/11

WP Study Definitions

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

The ERA Assigned Values are compliant with the current FoPT tables. 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 2009 TNI Standards require that the assigned values for the quantitative microbiology analytes are equal to the mean of the assigned value verification and/or homogeneity testing.

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 acceptance limits for the quantitative microbiology analytes are calculated based on the mean and standard deviation of the reported study data.

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-198 WatR™ Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standard and the criteria contained in the current TNI FoPT tables.

ERA's WP-198 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 2009 TNI PT Standard and the criteria contained in the current TNI Fields of Proficiency Testing (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-198 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 our Proficiency Testing Department at 1-800-372-0122.



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WP-198 Laboratory Exception Report

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EPA ID:
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GA00051
A520001
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2009 TNI Evaluation Check: There are no values reported with < where the assigned value was greater than 0.

2009 TNI Not Acceptable Evaluations: There were no Not Acceptable evaluations for this study.



2009 TNI Evaluation Report

Study: **WP-198**

ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Inorganic Results





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WP-198 2009 TNI Evaluation Final Complete Report

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NELAC 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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WP Demand (cat# 578)

1530	BOD	mg/L		58.3	29.3 - 87.2	Not Reported				58.6	9.45	
1555	CBOD	mg/L		50.2	22.5 - 77.9	Not Reported				53.9	10.3	
1565	COD	mg/L		94.1	69.4 - 111	Not Reported				93.2	6.78	
2040	TOC	mg/L	40.2	37.2	31.0 - 43.0	Acceptable	EPA 9060A 2002	8/23/2011	1.38	37.1	2.28	JG

WP Demand (cat# 578)

1530	BOD	mg/L		58.3	29.3 - 87.2	Not Reported				58.6	9.45	
1555	CBOD	mg/L		50.2	22.5 - 77.9	Not Reported				53.9	10.3	
1565	COD	mg/L		94.1	69.4 - 111	Not Reported				93.2	6.78	
2040	TOC	mg/L	40.2	37.2	31.0 - 43.0	Acceptable	SM5310B 20th ED 1998	8/23/2011	1.38	37.1	2.28	JG

WP Sulfide (cat# 891)

2005	Sulfide	mg/L	5.45	8.76	4.32 - 12.3	Acceptable	EPA 9030B/9034	8/22/2011	-1.19	7.28	1.54	CW
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WP Sulfide (cat# 891)

2005	Sulfide	mg/L	4.86	8.76	4.32 - 12.3	Acceptable	SM4500S2- D 20th ED 1998	8/22/2011	-1.57	7.28	1.54	CW
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2009 TNI Evaluation Report

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ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Microbiology Results





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WP Enterococci (cat# 880)

2520	Enterococci (MF)	CFU/100mL		173	90.0 - 285	Not Reported				160	32.4	
2520	Enterococci (MPN)	MPN/100mL	291	174	62.0 - 498	Acceptable	ENTEROLERT	7/26/2011	1.59	176	72.6	CO
2540	Fecal Streptococci (MF)	CFU/100mL		121	40.0 - 551	Not Reported				149	85.1	
2540	Fecal Streptococci (MPN)	MPN/100mL		225	55.5 - 1210	Not Reported				259	193	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01



2009 TNI Evaluation Report

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Organic Results





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WP Total Petroleum Hydrocarbons (TPH) in Water (cat# 642)

1935	TPH (Gravimetric)	mg/L	95	125	59.4 - 180	Acceptable	EPA 1664A SGT 1999	7/22/2011	-0.526	103	15.0	TS
1935	TPH (IR)	mg/L		154	73.7 - 222	Not Reported				133	25.2	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01



2003 NELAC Evaluation Report

Study: **WP-198**

ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Inorganic Results





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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

