



**ENVIRONMENTAL
RESOURCE ASSOCIATES®**
The Industry Standard™

April 11, 2006

Josie Longoria
Guadalupe Blanco River Auth
933 E Court St
Seguin, TX 78155

Enclosed is your final report for ERA's WatR™ Supply Proficiency Testing (PT) Study, WS-115. Your final report includes an evaluation of all results submitted by your laboratory to ERA. Attached is a table listing which regulatory agencies have been sent a copy of your final results and the report type received by those agencies.

Data Evaluation Protocols: All analytes in the WS-115 PT study have been evaluated using the following tiered approach. If the analyte is listed in the National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing list (June 2005), 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 WatR™ Supply Proficiency Testing Study, WS-115. If you have any questions, please contact myself, or Curtis Wood, Quality Assurance Director, at 1-800-372-0122.

Sincerely,

Shawn Kassner
Proficiency Testing Manager

attachments
smk



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Regulatory Agency	Agency Requested Report Type	Agency Lab ID	Contact
Texas	Complete Report	TX00010	Max Phillips



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In my role as ERA's Quality Assurance Director, I have independently reviewed all aspects of ERA's WatR™ Supply Proficiency Testing Study, WS-115, for compliance with all USEPA, NELAC, NIST NVLAP, and all state technical and program requirements in effect during this study, as well as those of our ISO 9001 Registered Quality System.

All aspects of ERA's WS-115 Study, from standard manufacture to final report generation, were completed by ERA in accordance with the "National Standards for Water Proficiency Testing Studies Criteria Document", USEPA December 30, 1998. ERA has reviewed all of the data that is contained in this report and has made every possible effort to make it complete, accurate and compliant. However, if you find anything in your report that you feel is incomplete, inaccurate or have any quality-related issues, please call me directly at 1-800-372-0122. As required by ERA Standard Operating Procedure for Handling Product and Service Problems (SOP 0150, Rev. 7.0), we will initiate an internal investigation and take corrective action as appropriate.

On behalf of ERA, thank you again for your participation in WS-115.

Sincerely,

Curtis J. Wood
Quality Assurance Director



ERA Laboratory Code: G7783-01 EPA ID: TX00010

Report Issued: 04/11/06
Study Dates: 02/06/06 - 03/23/06

WS Study Definitions:

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

The ERA Assigned Values are established per the USEPA/NELAC FoPT Tables, June 2005. 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 USEPA/NELAC FoPT Tables, June 2005, 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 of the Acceptance Limits.

No Evaluation = Reported Value cannot be evaluated.

The Method Description is the method the laboratory reported to ERA.

Any Performance Evaluation left blank indicates results were evaluated as 'Not Reported'.

WS Study Discussion:

ERA's WatR™ Supply Proficiency Testing Study, WS-115, 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 NELAC FoPT Tables, June 2005. ERA is a NIST NVLAP accredited PT Provider (Lab Code 200386-0).

This report contains data that are not covered by the NVLAP accreditation.

ERA's WatR™ Supply Study, WS-115, 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 WS-115 standards 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 NELAC FoPT Tables, June 2005.

The data submitted by participating laboratories was also examined for study anomalies. There were two anomalies observed during the statistical review of the WS-115 data. These anomalies are discussed on the following page.

WatR™ Supply Study, WS-115, 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 NVLAP or any agency of the U. S. government.

If you have any questions regarding ERA's WatR™ Supply Proficiency Testing Study, WS-115, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Quality Assurance Director, at 1-800-372-0122.



ERA Laboratory Code: G7783-01 EPA ID: TX00010

Report Issued: 04/11/06
Study Dates: 02/06/06 - 03/23/06

Study Discussion - Pesticides: Aldrin

During the statistical review of the WS-115 Pesticides standard data set, ERA observed a failure rate of 29.4% for aldrin. We carefully reviewed all data related to proving the efficacy of the standard including manufacturing, internal analytical verification and stability data for both accuracy and homogeneity. Our review of the data confirmed that the standard is 'fit for use'.

The NELAC manufacturing range for aldrin is 0.4 to 2.0 µg/L and the assigned value for aldrin in the WS-115 study is 0.761 µg/L. The average failure rate for aldrin across the entire NELAC manufacturing range is 12.4%, for assigned values greater than 1 µg/L the average failure rate is 9.56%, and for assigned values less than 1 µg/L the average failure rate is 17.0%. In reviewing ERA's historical data we observed failure rates for aldrin tending to increase as concentrations decrease.

ERA feels that this elevated failure rate is concentration dependent when the assigned value for aldrin is below 1 µg/L. If you were one of the laboratories who were evaluated as 'Not Acceptable', please feel free to call ERA's Organic Chemistry Group for technical help at 1-800-372-0122.

Study Discussion - Pesticides: Endrin

During the statistical review of the WS-115 Pesticides standard data set, ERA observed a failure rate of 35.3% for endrin. We carefully reviewed all data related to proving the efficacy of the standard including manufacturing, internal analytical verification and stability data for both accuracy and homogeneity. Our review of the data confirmed that the standard is 'fit for use'.

The NELAC manufacturing range for endrin is 0.1 to 5.0 µg/L and the assigned value for endrin in the WS-115 study is 0.626 µg/L. The average failure rate for endrin across the entire NELAC manufacturing range is 16.8%, for assigned values greater than 1 µg/L the average failure rate is 15.7% and for assigned values less than 1 µg/L the average failure rate is 24.7%. In reviewing ERA's historical data we observed failure rates for endrin tending to increase as concentrations decrease.

ERA feels that this elevated failure rate is concentration dependent when the assigned value for endrin is below 1 µg/L. If you were one of the laboratories who were evaluated as 'Not Acceptable', please feel free to call ERA's Organic Chemistry Group for technical help at 1-800-372-0122.

Study: **WS-115**

ERA Laboratory Code: **G7783-01**

Laboratory Name: **Guadalupe Blanco River
Auth**

Report Type: **Complete**

Report Method: **Method A**

Josie Longoria
Guadalupe Blanco River Auth
933 E Court St
Seguin, TX 78155
830-379-5822

EPA ID: TX00010
ERA Laboratory Code: G7783-01
Report Issued: 04/11/06
Study Dates: 02/06/06 - 03/23/06

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
Metals							
1000	Aluminum	µg/L		708	603 - 798		
0140	Antimony †	µg/L		19.8	13.9 - 25.7		
0001	Arsenic †	µg/L	35.0	35.6	24.9 - 46.3	Acceptable	SM 3113 B.
0002	Barium †	µg/L		1600	1360 - 1840		
0141	Beryllium †	µg/L		7.16	6.09 - 8.23		
0226	Boron †	µg/L		924	816 - 1030		
0003	Cadmium †	µg/L	28.7	34.3	27.4 - 41.2	Acceptable	SM 3113 B.
0004	Chromium †	µg/L	87.9	90.5	76.9 - 104	Acceptable	SM 3113 B.
0091	Copper †	µg/L	915	877	789 - 965	Acceptable	SM 3111 B.
1070	Iron	µg/L	649	658	580 - 726	Acceptable	SM 3111 B.
0005	Lead †	µg/L	70.8	74.6	52.2 - 97.0	Acceptable	SM 3113 B.
0236	Manganese †	µg/L	181	192	172 - 211	Acceptable	SM 3111 B.
0237	Molybdenum †	µg/L		99.9	86.9 - 110		
0142	Nickel †	µg/L	34.7	42.9	36.5 - 49.3	Not Acceptable	SM 3113 B.
0007	Selenium †	µg/L	63.4	66.8	53.4 - 80.2	Acceptable	SM 3113 B.
1150	Silver	µg/L	104	95.2	83.2 - 106	Acceptable	SM 3113 B.
0143	Thallium †	µg/L		7.98	5.59 - 10.4		
1185	Vanadium	µg/L		439	395 - 483		
0239	Zinc †	µg/L	642	671	604 - 738	Acceptable	SM 3111 B.
pH							
0026	pH †	S.U.	6.23	6.17	5.97 - 6.37	Acceptable	SM 4500 H+ B.
Inorganics							
0027	Alkalinity as CaCO ₃ †	mg/L	41.8	44.8	40.3 - 49.3	Acceptable	EPA 360.2
1575	Chloride	mg/L	35.8	34.4	30.7 - 38.3	Acceptable	EPA 300.0
1610	Conductivity at 25°C	µmhos/cm	420	404	364 - 444	Acceptable	SM 2510
0010	Fluoride †	mg/L	4.27	4.00	3.60 - 4.40	Acceptable	EPA 300.0
0009	Nitrate as N †	mg/L	5.45	5.24	4.72 - 5.76	Acceptable	EPA 300.0
1820	Nitrate + Nitrite as N	mg/L		5.24	4.68 - 5.76		
1125	Potassium	mg/L	24.9	22.9	19.7 - 26.3	Acceptable	SM 3111 B.
0145	Sulfate †	mg/L	64.4	58.1	50.5 - 65.3	Acceptable	EPA 300.0
0024	Total Dissolved Solids at 180°C †	mg/L	256	279	183 - 375	Acceptable	SM 2540 C.
Turbidity							
0023	Turbidity †	NTU	1.48	1.59	1.34 - 2.04	Acceptable	SM 2130 B.

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

† Indicates analytes included in ERA's NIST/NVLAP accreditation. Lab Code 200386-0

Josie Longoria
Guadalupe Blanco River Auth
933 E Court St
Seguin, TX 78155
830-379-5822

EPA ID: TX00010
ERA Laboratory Code: G7783-01
Report Issued: 04/11/06
Study Dates: 02/06/06 - 03/23/06

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
Residual Chlorine							
0022	Free residual chlorine †	mg/L		0.684	0.529 - 0.840		
1940	Total residual chlorine	mg/L	0.67	0.684	0.567 - 0.791	Acceptable	HACH 8167
Nitrite							
0092	Nitrite as N †	mg/L	1.28	1.28	1.09 - 1.47	Acceptable	EPA 300.0
o-Phosphate Nutrients							
0261	ortho-Phosphate as P †	mg/L	2.31	2.28	1.99 - 2.59	Acceptable	EPA 300.0
Organic Carbon							
1710	Dissolved organic carbon (DOC)	mg/L	2.06	1.98	1.60 - 2.42	Acceptable	SM 5310 C.
0263	Total organic carbon (TOC) †	mg/L	2.03	1.98	1.60 - 2.42	Acceptable	SM 5310 C.
Chlorite							
0195	Chlorite †	µg/L	280	301	251 - 365	Acceptable	EPA 300.0
Hardness							
1755	Total Hardness as CaCO ₃	mg/L	264	266	238 - 294	Acceptable	EPA 130.1
0025	Calcium Hardness as CaCO ₃ †	mg/L	180	196	175 - 216	Acceptable	SM 2340 B.
1035	Calcium	mg/L	72.2	78.7	70.1 - 86.8	Acceptable	SM 3111 B.
1085	Magnesium	mg/L	18.6	16.9	15.2 - 18.8	Acceptable	SM 3111 B.
0029	Sodium †	mg/L	15.7	14.9	13.1 - 16.5	Acceptable	SM 3111 B.

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

† Indicates analytes included in ERA's NIST/NVLAP accreditation. Lab Code 200386-0