

Bentonville Water Resource Recovery Facility

Corrective/Preventative Action Report

1.-Originator/Laboratory Technician:

Name: Roman Rios	Position: Lab Supervisor	
Test: TSS	SOP Version: SM 9221 E + C 2006 rev # 8	Test Date: 5/12/22

Description of Non-conformance:

The lab certification "DMRQA-42" test for TSS was reported as "Not Acceptable".

Responsible Authority/Lab Supervisor's Name: Roman Rios

Originator's Signature: Roman Rios Date: 8/12/22

2.-Responsible Manager/Proposed Action:

Corrective/Preventive Action:

Root Cause of Problem:

After reviewing the data and procedure the only explanation is incorrect mixing technique.

Proposed Corrective/Preventive Action:

- 1.- Ensure and train all lab personnel on proper mixing techniques.
- 2.- Order and analyze new ERA's standard for MPN'S.

Responsible Authority/Lab Supervisor: Roman Rios

3.-Completed Action:

- 1.- The new ERA's standard was analyzed with "Acceptable" results.
- 2.- Lab personnel meet to discuss mixing techniques.

Responsible Authority/Lab Supervisor: Roman Rios

Signature: Roman Rios Date: 10/3/22

Bentonville Water Resource Recovery Facility

Corrective/Preventative Action Report

1.-Originator/Laboratory Technician:

Name: Brandon McAdams	Position: Lab Tech	
Test: FC MPN	SOP Version: SM 9221B, E 2006 Hach 10027	Test Date: 5/24/22 ^{PR} 5/26/22

Description of Non-conformance:

The lab certification "DMRQA-42" test for Fecal Coliforms MPN failed to be within ~~Acceptable~~^{Acceptable} limits.

Responsible Authority/Lab Supervisor's Name: Roman Rios ~~26 PR~~

Originator's Signature: BL McAd Date: 5/24/22

2.-Responsible Manager/Proposed Action:

Corrective/Preventive Action:

Root Cause of Problem:

Unclear of the actual cause of the problem.

Proposed Corrective/Preventive Action:

- 1- Re-train Lab Tech,
- 2- Review process/SOP including verifying incubator's temp
- 3- Order and analyze a new standard from ERA.

Responsible Authority/Lab Supervisor: Roman Rios

3.-Completed Action:

- ① Lab tech was re-trained to perform the MPN test.
- ② We added a second section to the excel sheet doc, so that we can record and verify the incubator's temp twice a day.
- ③ Second independent standard from ERA tested within reportable range.

Responsible Authority/Lab Supervisor: Roman Rios

Signature: Roman Rios Date: 10/4/22



Roman Rios
City of Bentonville WWTF
1901 NE A St
Bentonville, AR 72712
USA

WP-331  **Final Report**

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 08/15/2022

Close Date: 09/29/2022

Report Issued Date: 10/03/2022



Final Evaluation Report

Study: **WP-331**

ERA Customer Number: **C429101**

Laboratory Name: **City of Bentonville
WWTF**

Inorganic Results



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com



Study # : WP-331



A Waters Company

WP-331 Final Evaluation Report

Roman Rios
Laboratory Supervisor
City of Bentonville WWTF
1901 NE A St
Bentonville, AR 72712
(479) 271-3160

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

AR00923
C429101
10/03/2022
08/15/2022 - 09/29/2022

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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WP Solids (cat# 241, lot# P331-499)

1960	Total Suspended Solids	mg/L	100.0	95.7	79.1 - 106	Acceptable	SM 2540 D-2011 2011	9/2/2022	0.747	94.0	7.98	
1955	Total Dissolved Solids at 180°C	mg/L		343	298 - 388	Not Reported				350	25.6	
1950	Total Solids at 105°C	mg/L		456	410 - 502	Not Reported				453	31.7	



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study # : WP-331



Final Evaluation Report

Study: **WP-331**

ERA Customer Number: **C429101**

Laboratory Name: **City of Bentonville
WWTF**

Microbiology Results



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study # : WP-331



A Waters Company

WP-331 Final Evaluation Report

Roman Rios
Laboratory Supervisor
City of Bentonville WWTF
1901 NE A St
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(479) 271-3160

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

AR00923
C429101
10/03/2022
08/15/2022 - 09/29/2022

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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WP WasteWatR™ Coliform MicrobE™ - SM 9221 (cat# 576A, lot# P331-083A)

2500	Total Coliform (MPN-Multiple Tube)	MPN/100mL		641	146 - 2810	Not Reported				641	444	
2530	Fecal Coliform (MPN-Multiple Tube)	MPN/100mL	540.0	620	175 - 2190	Acceptable	SM 9221 E + C-2006 2006	8/30/2022	-0.0237	620	337	
2525	E.coli (MPN-Multiple Tube)	MPN/100mL		579	125 - 2680	Not Reported				579	427	



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study # : WP-331



October 3, 2022

Roman Rios
City of Bentonville WWTF
1901 NE A St
Bentonville, AR 72712

Enclosed is your final report for ERA's WP-331 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-331 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the most current TNI 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 TNI 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 WP-331 WatR™ Pollution Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

Craig Huff
Senior Technical Manager

attachments



CERTIFICATE OF EXCELLENCE

In recognition of the quality of your laboratory in proficiency testing for
WP-331

City of Bentonville WWTF

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 667 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below.

Solids

WasteWatR™ Coliform

MicrobE™ - SM 9221



Craig Huff
Senior Technical Manager