

JEFF BROWN
MAYOR



DONNA J. JONES
CITY CLERK /TREASURER

CITY OF DEQUEEN
(870) 584-3445

Attention: Yvette Wilkins

Here is our Case Study DMR-QA 42. We had three not acceptable for Simple Nutrients. We have reordered out corrective action that is due by September 9th, 2022. We will be sure to have the results to you by September 9th, 2022. We have no clue why we failed the Simple Nutrients. If you have any questions or concerns, please feel free to call me.

Thank you,

Clint Young,
City of De Queen
Wastewater Superintendent



A Waters Company

Clint Young
City of DeQueen
PO Box 730
De Queen, AR 71832-0730
USA

DMR-QA 42  **Final Report**

DMR-QA Proficiency Testing

NPDES Permit: AR0021733

DMR-QA Study

Open Date: 04/15/2022

Close Date: 07/15/2022

Report Issued Date: 08/12/2022



A Waters Company

August 12, 2022

Clint Young
City of DeQueen
PO Box 730
De Queen, AR 71832-0730

Enclosed is your final report for ERA's DMR-QA 42 Proficiency Testing study. Please note that reports were sent on your behalf to your state or regional DMR-QA coordinator. As the permit holder, you are required to review and sign the attached EPA forms and checklists and forward them to your DMR-QA coordinator by September 9, 2022. Your coordinator's contact information is provided below.

All analytes in ERA's DMR-QA 42 Proficiency Testing study have been evaluated by comparing the reported result to the acceptance limits generated using the criteria contained in the most current TNI Non-Potable Water and Whole Effluent Toxicity Testing-Non Potable Water Fields of Proficiency Testing (FoPT) tables.

If you have any "Not Acceptable" evaluations for the DMR-QA 42 study, a letter of corrective action and an order form for the required remedial samples are attached for your convenience. If you have a "Not Acceptable" evaluation, but there is not an order form or a list of standards for your in-house or outside laboratories, ERA recommends that you contact your DMR-QA coordinator for their corrective action requirements, if any.

Thank you for your participation in ERA's DMR-QA 42 Proficiency Testing study. If you have any questions, please contact the Proficiency Testing Department at 1-800-372-0122, option 2.

Your DMR-QA coordinator is:

Arkansas Department of Energy and Environment
Yvette Wilkins
5301 Northshore Dr.
North Little Rock, AR 72118
Phone: 501-682-0637
waterlab@adeq.state.ar.us

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew Seebeck", is written over a white background.

Matthew Seebeck
Quality Officer

attachments





A Waters Company

DMR-QA 42 Definitions & Study Discussion

Study Dates: 04/15/2022 - 07/15/2022

Report Issued: 08/12/2022

DMRQA Study Definitions

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

The ERA Assigned Values are compliant with the most current TNI 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 2016 TNI Standard. 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 TNI FoPT table 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.

DMRQA Study Discussion

ERA's DMR-QA 42 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's DMR-QA 42 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 2016 TNI Standard and the criteria contained in the most current TNI 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 DMR-QA 42 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 DMRQA Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122, option 2.



Study # : DMR-QA 42





A Waters Company

Study: DMR-QA 42
NPDES Permit #: AR0021733
Laboratory Name: City of DeQueen

Inorganic Results



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Study # : DMR-QA 42



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DMR-QA 42 Final Report

NPDES Permit #: AR0021733
Permit Holder: Clint Young
 Sewer Superintendent
 City of DeQueen
 670 South 9th
 De Queen, AR 71832
 870-642-5231

ERA Customer Number: C471801
Report Issued: 08/12/2022
Study Dates: 04/15/2022 - 07/15/2022

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA Hardness (cat# 580, lot# Q042-507)											
1960	Total Suspended Solids	mg/L	Acceptable	51.0	51.7	40.3 - 59.1	SM 2540 D-2015 2015	50.5	3.10	AR00928	DMRQA42
DMRQA pH (cat# 577, lot# Q042-977)											
1900	pH	S.U.	Acceptable	7.93	7.83	7.63 - 8.03	SM 4500-H+ B-2011 2011	7.88	0.0752	AR00928	DMRQA42
DMRQA Simple Nutrients (cat# 584, lot# Q042-505)											
1515	Ammonia as N	mg/L	Not Acceptable	6.11	1.12	0.698 - 1.64	HACH 10205 5th ED 2008	1.15	0.0984	AR00928	DMRQA42
1820	Nitrate + Nitrite as N	mg/L	Not Reported		21.6	18.1 - 24.9	HACH 10206 6th ED 2011	21.9	1.06	AR00928	DMRQA42
1810	Nitrate as N	mg/L	Not Acceptable	17.54	21.6	18.1 - 25.0	HACH 10209 5th ED 2008	21.8	1.02	AR00928	DMRQA42
1870	ortho-Phosphate as P	mg/L	Not Acceptable	2.69	0.639	0.543 - 0.735	HACH 10209 5th ED 2008	0.662	0.0464	AR00928	DMRQA42
DMRQA Demand (cat# 578, lot# Q042-516)											
1555	CBOD	mg/L	Acceptable	67.2	86.5	40.0 - 133	SM 5210B-2011 plus HACH 10360.2011	89.7	19.4	AR00928	DMRQA42
DMRQA Total Residual Chlorine (cat# 587, lot# Q042-501)											
1940	Total Residual Chlorine	mg/L	Acceptable	1.69	1.72	1.27 - 2.02	SM 4500-Cl G-2000 2000	1.61	0.114	AR00928	DMRQA42





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Study: DMR-QA 42
NPDES Permit #: AR0021733
Laboratory Name: City of DeQueen

Microbiology Results



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Study #: DMR-QA 42



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DMR-QA 42 Final Report

NPDES Permit #: AR0021733
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 670 South 9th
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ERA Customer Number: C471801
Report Issued: 08/12/2022
Study Dates: 04/15/2022 - 07/15/2022

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
2530	Fecal Coliforms (MF)	CFU/100mL	Acceptable	283	109	34.0 - 344	SM 9222 D (m-FC)-1997/1997	109	51.7	AR00928	DMRQA42
DMRQA WasteWat TM Coliform MicrobE TM (cat# 576, lot# Q042-083)											



USEPA DMR-QA 42

NPDES PERMITTEE DATA REPORT FORM



A Waters Company

Due September 9, 2022

USEPA NPDES AR0021733

Permit #:

Permit Ext:

Permittee Name: City of DeQueen

Facility Address: 670 South 9th

City: De Queen

State: AR

Postal Code: 71832

Phone Number: 870-642-5231

Fax Number: 870-642-3117

E-mail address: cyoung@cityofdequeen.com

Optional: If WP study was used, list PT provider name:

Optional: WP study number(s):

For DMRQA-42, conducted in 2022, the Permittee ensured that their laboratory(s) performing the required analyses:

Received PT Samples

Yes No

Submitted Complete and Accurate Data
by July 15, 2022

Yes No

Received a Graded Report by
August 12, 2022

Yes No

Certification by Permit Holder or Authorized Representative

(as per 40 C.F.R. Section 122.22)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) Permit. Neither I nor any of my subordinates compared our results from independent analyses conducted by us or any other laboratory before we reported our results to the USEPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of

Certifying Official: Clint Young

Title: Sewer Superintendent

Signature:

Date Signed:

8 / 23 / 22

Mailing Address: PO Box 730

(enter only if different
from address above)

City: De Queen

State: AR

Postal Code: 71832-0730

Phone Number: 870-642-5231

E-mail address: cyoung@cityofdequeen.com

Please make corrections in boxes above

United States
ENVIRONMENTAL PROTECTION AGENCY
Laboratory Performance Evaluation
Laboratory DMR-QA Evaluation Study 42

USEPA NPDES Permit #: AR0021733 Permit Ext:

Identification of all CHEM, MICRO and TOX laboratories who did analyses for this permit							
Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis			Lab Type*	State-certified Lab**
			Check box(es) that apply				
			CHEM	MICRO	TOX		
City of DeQueen	PO Box 730 De Queen, AR 71832-0730	AR00928	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State

** See Footnote 2 on DMRQA-42, Frequently Asked Questions page

Permittee Name: City of DeQueen

Permit Number: AR0021733

EPA Lab Code: AR00928

Chemistry/Microbiology Analyte Checklist
DMRQA Study 42

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Minerals Alkalinity as CaCO3 Chloride Conductivity at 25°C Fluoride Potassium Sodium Sulfate Total Dissolved Solids at 180°C Total Solids at 105°C				
Hardness Total Suspended Solids SM 2540 D-2015 Calcium Magnesium Calcium Hardness as CaCO3 Total Hardness as CaCO3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH pH SM 4500-H+ B-2011	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids Settleable Solids				
Solids Concentrate Total Suspended Solids Total Dissolved Solids at 180°C Total Solids at 105°C				
Solids Total Suspended Solids Total Dissolved Solids at 180°C Total Solids at 105°C				
Simple Nutrients Ammonia as N HACH 10205 Nitrate + Nitrite as N Nitrate as N HACH 10206 ortho-Phosphate as P HACH 10209 Total Nitrogen	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Complex Nutrients Total Kjeldahl Nitrogen Total phosphorus as P				

Permittee Name: City of DeQueen

Permit Number: AR0021733

EPA Lab Code: AR00928

Chemistry/Microbiology Analyte Checklist

DMRQA Study 42

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
<u>Nitrite</u>				
Nitrite as N				
<u>Demand</u>				
BOD CBOD SM 5210B-2011 plus HACH 10360 COD TOC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Oil & Grease Concentrate</u>				
n-Hexane Extractable Material(O&G) (Grav)				
<u>Oil & Grease</u>				
n-Hexane Extractable Material(O&G) (Grav) n-Hexane Extractable Material(O&G) (IR)				
<u>Trace Metals</u>				
Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Silver Strontium Thallium Vanadium Zinc				
<u>Mercury</u>				
Mercury				
<u>Low-Level Mercury</u>				
Low Level Mercury				
<u>Hexavalent Chromium</u>				
Hexavalent Chromium				

Permittee Name: City of DeQueen

Permit Number: AR0021733

EPA Lab Code: AR00928

Chemistry/Microbiology Analyte Checklist

DMRQA Study 42

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Turbidity				
Total Cyanide				
Cyanide, total				
Amenable Cyanide				
Available Cyanide				
Total Phenolics (4-AAP)				
Phenolics, total				
Total Residual Chlorine				
Free Residual Chlorine				
Total Residual Chlorine	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SM 4500-Cl G-2000				
Low-Level Total Residual Chlorine				
Low Level Total Residual Chlorine				
WasteWatR™ Coliform MicrobE™				
Total Coliforms (MF)				
Fecal Coliforms (MF)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SM 9222 D (m-FC)-1997				
E.coli (MF)				
Total Coliform (MPN-Multiple Well)				
Fecal Coliform (MPN-Multiple Well)				
E.coli (MPN-Multiple Well)				
WasteWatR™ Coliform MicrobE™ - SM 9221				
Total Coliform (MPN-Multiple Tube)				
Fecal Coliform (MPN-Multiple Tube)				
E.coli (MPN-Multiple Tube)				

Clint Young
Print Name

Clint Young Wastewater manager
Signature/Title

8-23-22
Date

Use a separate checklist for EACH lab used



DMR-QA 42 Corrective Action Guidelines

Permit Holders

Upon reviewing your enclosed DMR-QA 42 final report, you may notice that some results have been evaluated as 'Not Acceptable'. For these analytes, the USEPA's DMR-QA 42 announcement letter directs permit holders to "follow up with the laboratory to determine the cause of the deficiency and ensure corrective action is taken to prevent future occurrences". Permittees must identify and report to the state DMR-QA coordinator causes and system changes to correct the discrepancies. The corrective action report must be sent to the coordinator by November 4, 2022. This means that for all 'Not Acceptable' evaluations, the laboratory must conduct an investigation, identify the problem and implement adequate corrective actions. Your state may also require the laboratory to analyze a remedial QC or PT sample as a demonstration that the corrective action implemented was successful. ERA has contacted all state and regional coordinators and determined the type of remedial samples that they recommend or require.

If any of your 'Not Acceptable' results originated from your in-house laboratory, an order form is enclosed listing the standards that you should order and analyze. Your in-house laboratory will need to conduct its investigation and then analyze the listed standards to ensure that the identified problem has been corrected. The corrective action report and, if applicable, the results of the analysis will then need to be forwarded to your DMR-QA coordinator by November 4, 2022.

You may receive an order form for both your in-house standards that have analytes evaluated as 'Not Acceptable', as well as a list of standards that your outside or contract laboratory(ies) have with 'Not Acceptable' evaluations. Some agencies require corrective action on a case by case basis. If you have a "Not Acceptable" evaluation, but there is not an order form or a list of standards for your in-house or outside laboratories, ERA recommends that you contact your DMR-QA coordinator for their corrective action requirements, if any.

If you have a "Not Acceptable" evaluation and require corrective action, you have the option of participating in ERA PT study WP-331 (Aug 15-Sept 29) or WP-332 (Sept 12-Oct 27). If allowed by your state, Quick Response PTs are also available. Please contact your state or regional coordinator directly to confirm Quick Response acceptability. Also, ERA offers QC samples to help you confirm the effectiveness of your corrective actions. Please contact ERA's Customer Service Group to have those samples added to your order.

The standards listed in the attachments are based on general guidance given to us by the state or regional coordinators. If you have any questions about your specific corrective action requirements, please contact your state or regional coordinator directly.

If you have any questions or to place an order, please contact ERA's Customer Service Group at 1-800-372-0122, option 1.



A Waters Company

DMR-QA 42 Corrective Action Order Form

Customer Number: C471801

DATE: 08/10/2022

1. Make any necessary changes to Bill To and Ship To addresses.

BILL TO: City of DeQueen PO Box 730 De Queen, AR 71832-0730 ATTENTION: Clint Young	SHIP TO: City of DeQueen 670 South 9th De Queen, AR 71832 ATTENTION: Clint Young
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**2. Make any necessary changes to your corrective action standards below.
Estimated total does not include taxes.**

QUANTITY	CATALOG NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	584	WP-331 - Simple Nutrients (Study Closes 9/29)	85.00	85.00
PRODUCT TOTAL				85.00
HANDLING				15.00
Shipping Cost and Sales Tax will be calculated at time of ordering				

- Please include the corresponding QC Samples with my order.**

Practice makes perfect! QC samples are available to help you confirm the effectiveness of your corrective actions. QC sample pricing will be shown on your order confirmation.

- I would like Quick Response (QR) PTs instead of a WP study.**

Some states allow for QR PTs for corrective action. Validate acceptability of QR PTs with your DMR-QA coordinator before ordering. QR pricing will be shown on your order confirmation.

- Please update my quote and resend before placing my order.**

3. Complete ordering and payment information. You will be billed only when your standards ship.

Ordered By: <u>Clint Young</u>	We are pleased to accept credit cards. To place your secure order, please call our Waters ERA Customer Service team at 800.372.0122 to provide your credit card information or visit www.eraqc.com to place your order.
Ordered By Signature: <u></u>	
Phone: _____	
Email: _____	
Method of Payment: _____ PO #: _____ Credit Card: <input type="checkbox"/> VISA <input type="checkbox"/> MASTERCARD <input type="checkbox"/> AMEX <input type="checkbox"/> DISCOVER	

4. Fax this form to ERA at 303-421-0159 or scan and email to info@eraqc.com. Questions? Call 1-800-372-0122

CERTIFICATE OF RECOGNITION

ERA congratulates
CITY OF DEQUEEN

for your participation and successful evaluation in DMR-QA 42. We recognize the performance of this laboratory for achieving acceptable evaluations for the following analytes.

CBOD	pH	Total Suspended Solids
Fecal Coliforms (MF)	Total Residual Chlorine	



Matthew Seebeck
Quality Officer

C471801