



Tony Brown
City of Siloam Springs
PO Box 80
Siloam Springs, AR 72761
USA

DMR-QA 42  *Final Report*

DMR-QA Proficiency Testing

NPDES Permit: AR0020273

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

Tony Brown
City of Siloam Springs
PO Box 80
Siloam Springs, AR 72761

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".

Matthew Seebeck
Quality Officer

attachments





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**
NPDES Permit #: **AR0020273**
Laboratory Name: **City of Siloam Springs**

Inorganic Results

Study # : DMR-QA 42 



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DMR-QA 42 Final Report

NPDES Permit #: AR0020273
Permit Holder: Tony Brown
Wastewater Superintendent
City of Siloam Springs
975 Anderson Ave.
Siloam Springs, AR 72761
(479) 524-5623

ERA Customer Number: C465901
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 pH (cat# 577, lot# Q042-977)											
1900	pH	S.U.	Acceptable	7.86	7.83	7.63 - 8.03	SM 4500-H+ B-2000 2000	7.88	0.0752	AR20273	DMRQA42
DMRQA Total Residual Chlorine (cat# 587, lot# Q042-501)											
1940	Total Residual Chlorine	mg/L	Acceptable	1.59	1.72	1.27 - 2.02	SM 4500-Cl G-2000 2000	1.61	0.114	AR20273	DMRQA42





Study: **DMR-QA 42**
NPDES Permit #: **AR0020273**
Laboratory Name: **City of Siloam Springs**

Microbiology Results

Study # : DMR-QA 42



DMR-QA 42 Final Report



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Wastewater Superintendent
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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 WasteWatR™ Coliform MicrobE™ (cat# 576, lot# Q042-083)											
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL	Acceptable	68.9	134	49.0 - 365	ColiAlert®-18 (Fecal Coliforms) 2010	134	52.7	AR20273	DMRQA42

Study # : DMR-QA 42



USEPA DMR-QA 42

NPDES PERMITTEE DATA REPORT FORM



A Waters Company

Due September 9, 2022

USEPA NPDES AR0020273

Permit #:

Permit Ext:

Permittee Name: City of Siloam Springs

Facility Address: 975 Anderson Ave.

City: Siloam Springs

State: AR

Postal Code: 72761

Phone Number: (479) 524-5623

Fax Number:

E-mail address: abrown@siloamsprings.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

Submitted Complete and Accurate Data
by July 15, 2022

Received a Graded Report by
August 12, 2022

Yes No

Yes No

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: Tony Brown

Title: Wastewater Superintendent

Signature:

Date Signed: 8/25 / 2022

Mailing Address: PO Box 80

(enter only if different
from address above)

City: Siloam Springs

State: AR

Postal Code: 72761

Phone Number: (479) 524-5623

E-mail address: abrown@siloamsprings.com

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

USEPA NPDES Permit #: AR0020273 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 Siloam Springs	PO Box 80 Siloam Springs, AR 72761	AR20273	<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 Siloam Springs

Permit Number: AR0020273

EPA Lab Code: AR20273

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 CaCO ₃ Chloride Conductivity at 25°C Fluoride Potassium Sodium Sulfate Total Dissolved Solids at 180°C Total Solids at 105°C				
Hardness Total Suspended Solids Calcium Magnesium Calcium Hardness as CaCO ₃ Total Hardness as CaCO ₃				
pH pH SM 4500-H+ B-2000	<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 Nitrate + Nitrite as N Nitrate as N ortho-Phosphate as P Total Nitrogen				
Complex Nutrients Total Kjeldahl Nitrogen Total phosphorus as P				
Nitrite Nitrite as N				
Demand BOD CBOD COD				

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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)	
TOC				
Oil & Grease Concentrate				
n-Hexane Extractable Material(O&G) (Grav)				
Oil & Grease				
n-Hexane Extractable Material(O&G) (Grav)				
n-Hexane Extractable Material(O&G) (IR)				
Trace Metals				
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Manganese				
Molybdenum				
Nickel				
Selenium				
Silver				
Strontium				
Thallium				
Vanadium				
Zinc				
Mercury				
Mercury				
Low-Level Mercury				
Low Level Mercury				
Hexavalent Chromium				
Hexavalent Chromium				
Turbidity				
Turbidity				
Total Cyanide				
Cyanide, total				
Amenable Cyanide				
Available Cyanide				

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EPA Lab Code: AR20273

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)	
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)				
E.coli (MF)				
Total Coliform (MPN-Multiple Well)				
Fecal Coliform (MPN-Multiple Well)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Colilert®-18 (Fecal Coliforms)				
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)				

Tony Brown

Print Name



Wastewater Superintendent

Signature / Title

8/25/2022

Date

Use a separate checklist for EACH lab used

CERTIFICATE OF RECOGNITION

*ERA congratulates
CITY OF SILOAM SPRINGS*

*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.*

Fecal Coliform (MPN-Multiple
Well) pH

Total Residual Chlorine



Matthew Seebeck
Quality Officer

C465901