

Due September 9, 2022

United States Environmental Protection Agency Office of Enforcement and Compliance Assurance **DMR-QA Study 42**

2022

Permit Extension

(This data is collected under the authority of Section 308 of the Clean Water Act.)

NPDES Permittee Data Report Form

Attention: Follow the instructions on the previous page to complete this form and submit data for evaluation.

NPDES Permit Number (State + 7-digit ID)

AR - 0 0 2 1 8 0 6

Permittee Name LRWRA - Adams Field Wat	er Recla	mation Authority		
Current Permittee Mailing Address 11 Clearwater Dr				
City Little Rock			State AR	Zip Code 72204
Phone Number 501-688-1486	Fax Nur	nber	E-Mail Addre rebecca.bu	ss ırkman@lrwra.com
Optional: If WP Study was used, list P	Γ Provider r	name(s):		0
Optional: IF WP Study was used, list W	/P Study Ni	umber(s):		
For DMR-QA Study 42, conducted in 2 Received PT Samples YES NO	2022, the P	Permittee ensured that their labo Submitted Complete and Accurate Data by July 15, 202 YES 🗹 NO 🗆		forming the required analyses: Received a Graded Report by August 12, 2022 YES NO
Certification by Permit Holder or	Authorize		l),	163 2 110 1
I certify under penalty of law that this with a system designed to assure that inquiry of the person or persons who information submitted is, to the best of from a single analytical run using the a required under our National Pollutant our results with results from independu.S. EPA. I am aware that there are imprisonment for knowing violations.	document a it qualified manage th of my know nalytical sy Discharge I dent analys	and all attachments were prepar personnel properly gather and le system, or those persons dir ledge and belief, true, accurate stem that routinely performs the Elimination System (NPDES) per ses conducted by us or any oth	evaluate the interpretation extends on the extended and complete ese analyses to be mit. Neither I may be laboratory to the extended and the e	nformation submitted. Based on my ble for gathering the information, the e. Each reported value was produced produce compliance monitoring data nor any of my subordinates compared pefore we reported our results to the
Name of Certifying Official Rebecca Burkman			Title Director o	f Environmental Affairs
Signature BOXXIVOU)		Date 09/06/20	022
Address, phone number and e-mail of	f certifying	g official are required if differer	nt from above.	
Address			Phone Numb	per
City	State	Zip Code	E-Mail Addre	ess



United States Environmental Protection Agency Office of Enforcement and Compliance Assurance

DMR-QA Study 42

(This data is collected under the authority of Section 308 of the Clean Water Act.)

Permittee Name		NPDES Permit Nu	Permit Extension					
LRWRA - Adams Field Wa	ter Reclamation Authority	AR 0 0 2 1 8 0 6						
Identification of	oratories who per	formed	d analy:	ses for	this pe	rmit		
Laboratory Name	Laboratory Address	U.S. EPA Lab Code	Check Chem	ab Analys box(es) tha Micro	sis at apply WET	Lab Type*	State- certified Lab**	
Little Rock Water Reclamation Authority Laboratory	9500 Birdwood Drive, Little Rock, AR 72206	A R 0 0 9 4 8	\boxtimes	\boxtimes		G⊡		
	rcial; F = Federal; G = Local Governm (Frequently Asked Questions) for the c					rams		

If you need additional space, please make a copy of this page for additional laboratories.



Chemistry/Microbiology Analyte Checklist

DMR-QA Study 42

Method Number Used (Optional)	Laboratory's Acceptable X D D D D D D D D D D D D	Graded Result Not Acceptable (Corrective Action Required)	Analyte determined by state-certified lab*
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\$EPA

Whole Effluent Toxicity (WET) Analyte Checklist

DMR-QA Study 42

2022

			DIVIK-QA Study 42	•			
					Laborator	y's Graded Result	Analyte
Analyte	Organism / Conditions		Endpoint	Test		Not Acceptable	determined by
Number	J. Gammann, Camanana			Required	Acceptable	(Corrective Action	
Tost Code	e 13 (refer to EPA Method 2000.0)					Required)	lab*
754	Fathead minnow (Pimephales promelas)	MHSE 25°C	LC50				
		· IVITIST ZD C	LC50			<u> </u>	
755	e 14 (refer to EPA Method 2000.0)	000/ DAMM	1050				
	Fathead minnow (Pimephales promelas)	- 20% DIVIVV	LC50	Ш		1 0	
	e 15 (refer to EPA Method 1000.0)	1 141105	NOTO OLIDIAVAL				
756	Fathead minnow (Pimephales promel		NOEC SURVIVAL	⊢片	_ 片		
808	Fathead minnow (Pimephales promel		IC25** (ON) GROWTH	<u> </u>			
810	Fathead minnow (Pimephales promel	as) - MHSF	NOEC (ON) GROWTH		<u> </u>		
	e 16 (refer to EPA Method 1000.0)						- <u> </u>
759	Fathead minnow (Pimephales promelas)	- 20% DMW	NOEC SURVIVAL				
812	Fathead minnow (Pimephales promelas)	- 20% DMW	IC25** (ON) GROWTH				
814	Fathead minnow (Pimephales promelas)	- 20% DMW	NOEC (ON) GROWTH				
Test Code	19 (refer to EPA Method 2002.0)				·	-	: 5
764	Ceriodaphnia dubia - MHSF 25°C		LC50				
Test Code	20 (refer to EPA Method 2002.0)				:	-	:
765	Ceriodaphnia dubia - 20% DMW 25°C		LC50				
Test Code	21 (refer to EPA Method 1002.0)		7			-	I
766	Ceriodaphnia dubia – MHSF		NOEC SURVIVAL				
767	Ceriodaphnia dubia – MHSF		IC25** REPRODUCTION				
768	Ceriodaphnia dubia – MHSF		NOEC REPRODUCTION				
Test Code	22 (refer to EPA Method 1002.0)		· · · · · · · · · · · · · · · · · · ·				
769	Ceriodaphnia dubia - 20% DMW		NOEC SURVIVAL		П		
770	Ceriodaphnia dubia - 20% DMW		IC25** REPRODUCTION	i i	ī	T T	T A
771	Ceriodaphnia dubia - 20% DMW		NOEC REPRODUCTION	ī			
	32 (refer to EPA Method 2021.0)						T
788	Daphnia magna - MHSF 25°C		LC50				
	38 (refer to EPA Method 2021.0)						
794	Daphnia pulex - MHSF 25°C		LC50			П	П
	42 (refer to EPA Method 2007.0)		2000				
798	Mysid (Americamysis bahia, Mysidopsis	habial 25°C	LC50				
		Dallia) 25 G	LC30				
	43 (refer to EPA Method 1007.0) Mysid (Americamysis bahia, Mysidops	in babia)	NOEC SURVIVAL				
799					旹		1
816	Mysid (Americamysis bahia, Mysidops		IC25** (ON) GROWTH		=	H	+ +
818	Mysid (Americamysis bahia, Mysidops	is pania)	NOEC (ON) GROWTH				
	44 (refer to EPA Method 2006.0)		1.050				
803	Inland silverside (Menidia beryllina) 25	o°C	LC50				
	45 (refer to EPA Method 1006.0)				- A		
824	Inland silverside (Menidia beryllina)		NOEC SURVIVAL		_	<u></u>	
825	Inland silverside (Menidia beryllina)		IC25** (ON) GROWTH				
826	Inland silverside (Menidia beryllina)		NOEC (ON) GROWTH				
	46 (refer to EPA Method 2004.0)						- <u>-</u> -
804	Sheepshead minnow (Cyprinodon varie,	gatus) 25°C	LC50				
Test Code	47 (refer to EPA Method 1004.0)						-
805	Sheepshead minnow (Cyprinodon vari	egatus)	NOEC SURVIVAL				
820	Sheepshead minnow (Cyprinodon vari	egatus)	IC25** (ON) GROWTH				
822	Sheepshead minnow (Cyprinodon vari	egatus)	NOEC (ON) GROWTH				
Name	Rebecca Burkman	S	ignature W	cekr	non	Date(09/06/2022

* See Footnote on page 5

Complete a separate checklist for EACH lab.

^{**} Preferred endpoint for DMR-QA performance test reporting



Hallie Freyaldenhoven Little Rock Water Reclamation Authority - AF-WRF 9500 Birdwood Drive Little Rock, AR 72206-3861 USA



DMR-QA Proficiency Testing

NPDES Permit: AR0021806

DMR-QA Study

Open Date: 04/15/2022

Close Date: 07/15/2022

Report Issued Date: 08/12/2022



August 12, 2022

Hallie Freyaldenhoven Little Rock Water Reclamation Authority - AF-WRF 9500 Birdwood Drive Little Rock, AR 72206-3861

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,

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 #: **AR0021806**

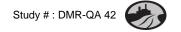
Laboratory Name: Little Rock Water

Reclamation Authority -

AF-WRF

Inorganic Results







DMRQA Total Residual Chlorine (cat# 587, lot# Q042-501)

mg/L

Acceptable

Total Residual Chlorine

DMR-QA 42 Final Report

ERA Customer Number:

Report Issued:

Study Dates:

SM 4500-CI G-2011

2011

1.61

0.114

L327956

08/12/2022

04/15/2022 - 07/15/2022

NPDES Permit #: AR0021806

Permit Holder: Hallie Freyaldenhoven

QA Specialist

Little Rock Water Reclamation

Authority - AF-WRF

Zina Rhodes

1001 Temple Street Little Rock, AR 72202-3363

			(501)	490-5407							
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	52.5	51.7	40.3 - 59.1	SM 2540 D-2011 2011	50.5	3.10	AR00948	DMRQA42
DMRQA	pH (cat# 577, lot# Q042-977)										
1900	рН	S.U.	Acceptable	7.92	7.83	7.63 - 8.03	USGS I-1586-85 1985	7.88	0.0752	AR00948	DMRQA42
DMRQA	Simple Nutrients (cat# 584, lot# Q042-	505)									
1515	Ammonia as N	mg/L	Acceptable	1.37	1.12	0.698 - 1.64	SM 4500-NH3 B- 2011 2011	1.15	0.0984	AR00948	DMRQA42
DMRQA	Demand (cat# 578, lot# Q042-516)										
1530	BOD	mg/L	Acceptable	94.75	95.5	51.2 - 140	SM 5210 B-2011 2011	94.6	18.2	AR00948	DMRQA42
1555	CBOD	mg/L	Acceptable	79.15	86.5	40.0 - 133	SM 5210 B-2011 2011	89.7	19.4	AR00948	DMRQA42

1.72

1.27 - 2.02



1940

Study #: DMR-QA 4

AR00948

DMRQA42

1.69

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USEPA DMR-QA 42

NPDES PERMITTEE DATA REPORT FORM



A Waters Company

				USEPA	NPDES	AR00	21806											
Due Septemb	per 9, 2	.022		P	ermit #:						Perm	it Ext:						
				•	J													
Permittee Name:	Little Ro	k Wate	r Reclama	tion Aut	hority - A	F-WRF												
Facility Address:	Zina Rho	des																
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	1001 Ten	nole Stre	et															
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City:	Little Ro	;к 					State	: AR		Posta	I Code	: 7220)2-336	3	1 [_		
] - [
Phone Number:	(501)490-	5407				Fax I	Number	:										
			-						-			-						
E-mail address:	Hallie.Fre	yaldenh	oven@lrv	vra.com														
Optional: If WP st	udy was u	sed, list	PT provid	ler name	:		0	otional	: WP s	tudy n	umber	(s):						
-			-															
For DMRQA-42, cor	ducted in	2022, th	e Permitte	ee ensur	ed that th	neir lab	oratory	s) perf	orming	the re	equire	d analy	/ses:					
Received PT S	amples				Complet	e and A	ccurate	Data				ived a		ed Re	port b	у		
			by	July 15	2022						Augu	ıst 12,	2022					
Yes No			Ye	es 🗌	No [Yes		No					
			Certific	cation by	Permit I	Holder (or Auth	orized	Repres	entati	ve							
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I certify under penalty of qualified personnel prop	erly gather	and evalua	ate the infori	mation sub	mitted. Ba	sed on r	ny inquiry	of the p	erson o	r person	s who r	nanage	the sys	tem, o	r those	e perso	ons di	
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Name of Certifying Official:	Hallie Fr	evaldent	noven					Title	- OA 9	Specia	liet							
Certifying Official.	Traille TT	yaideili	loveli					11110	. QA	эрссіа						$\overline{}$		
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United States

ENVIRONMENTAL PROTECTION AGENCY

Laboratory Performance Evaluation
Laboratory DMR-QA Evaluation Study 42

USEPA NPDES Permit #: AR0021806 Permit Ext:

Identification of a	all CHEM, MICRO and TOX lal permit	ooratories who	did a	nalyse	s for th	nis	
Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code		Analy k box(es) apply		Lab	State- certified
·	·	Oode	CHEM	MICRO	TOX	Type*	Lab**
Little Rock Water Reclamation Authority - FC-WRF	Hallie Freyaldenhoven 9500 Birdwood Drive Little Rock,AR 72206-3861	AR00948	30 0		9		

Ver. 1 Page 8 of 10

Permittee Name: Little Rock Water Reclamation Authority - AF-WRF Permit Number: AR0021806 EPA Lab Code: AR00948

Chemistry/Microbiology Analyte Checklist

DMRQA Study 42

		Laborato		
Analyte Test / Method	Test Required	Acceptable	Not Acceptable (Corrective Action Required)	Analyte determined by state-certified lab
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-2011 Calcium Magnesium Calcium Hardness as CaCO3 Total Hardness as CaCO3		X		
pH USGS I-1586-85 Settleable Solids		X		
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 SM 4500-NH3 B-2011 Nitrate + Nitrite as N Nitrate as N		X		
ortho-Phosphate as P Total Nitrogen Complex Nutrients Total Kjeldahl Nitrogen Total phosphorus as P				
Nitrite Nitrite as N				

Ver. 1 Page 9 of 10

Permittee Name: Little Rock Water Reclamation Authority - AF-WRF Permit Number: AR0021806 EPA Lab Code: AR00948

Chemistry/Microbiology Analyte Checklist

DMRQA Study 42

		Laboratory		
Analyte Test / Method	Test Required	Acceptable	Not Acceptable (Corrective Action Required)	Analyte determined by state-certified lab
<u>Demand</u>			•	
BOD				
SM 5210 B-2011		X		
CBOD	_			_
SM 5210 B-2011		X		
COD 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				

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Permittee Name: Little Rock Water Reclamation Authority - AF-WRF Permit Number: AR0021806 EPA Lab Code: AR00948

Chemistry/Microbiology Analyte Checklist

DMROA Study 42

		DIVINGA Study 42		
		Laborato	ory's Graded Result	
Analyte Test / Method	Test Required	Acceptable	Not Acceptable (Corrective Action Required)	Analyte determined by state-certified lab
Turbidity				
Turbidity				
Total Cyanide				
Cyanide, total Amenable Cyanide Available Cyanide				
Total Phenolics (4-AAP)				
Phenolics, total				
Total Residual Chlorine				
Free Residual Chlorine Total Residual Chlorine SM 4500-Cl G-2011		×		
Low-Level Total Residual Chlorine				<u> </u>
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) 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)				
Print Name			Date	
Signature/Title			Use a separate checklist for	EACH lab used





6390 Joyce Drive # 100 Golden, CO 80403

www.phenova.com

DMRQA42 Graded Results Report

Study: DMRQA42-CHEM

Opening Date: April 15, 2022 - Closing Date: July 15, 2022

NPDES Permit ID: AR0021806

Permittee Name: Little Rock Water Reclamation Authority-AF-WRF

EPA Lab ID: AR00948

Laboratory:

Little Rock Water Reclamation Authority-EAD Compliance Lab 9500 Birdwood Drive
Little Rock, Arkansas 72206

Ms. Hallie Freyaldenhoven, Quality Assurance Specialist 5014905407

Micro (I	Micro (Fecal, E. Coli & Total) (PT-MIC-DMRQA	tal) (PT-M	IIC-DMRQA)					Lot #:	ot #: 8554-12
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
2530 Fecal	Fecal Coliform MPN		DEXXX	MDN/100 ml	1010	3		753 22A0	A 0001+0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1

Chemistry/Microbiology Analyte Checklist DMRQA42

		DIVINCE	Labor	atory's Graded Result	
Analyte Test	Test Required	Method Number Used (optional)	Acceptable	Not Acceptable (Corrective Action Required)	Analyte determined by state-certified Lab*
Microbiology		(4)		(Contocuto / totion / toquilou)	
E. Col., MF or MPN					
Fecal Coliform, MF or MPN	X	IDEXXX	x		
Total Coliform, MF or MPN					
Trace Metals					
Aluminum					
Antimony					
Arsenic					
Barium			n		
Beryllium					
Cadmium					
Chromium, total					
Chromium, hexavalent					
Cobalt					
Copper					
Iron					
Lead					
Manganese					
Mercury					
Molybdenum					
Nickel					
Selenium					
Silver					
Thallium					
Vanadium					
Zinc					
Demands					
5-day BOD					
5-day Carbonaceous BOD					
COD					
TOC					
Minerals					
Alkalinity, total (CaCO3)					
Chloride					
Fluoride					
Hardness, total (CaCO3)					
Specific conductance (25°C)					
Sulfate					
Total Dissolved Solids (180°C)					
Nutrients					
Ammonia as N					
Nitrate as N					
Nitrite as N					
Orthophosphate as P					
Total Kjeldahl-Nitrogen as N			<u> </u>		
Total Phosphorous as P					
Misc. Analytes				i	
Non-Filterable Residue (TSS)					
Oil and Grease					
PΗ					
Total Cyanide					
Total Phenolics (4-AAP)					
Total Residual Chlorine					
Settleable Solids					
Turbidity			0 - 0		0 = 00
Name Rebecca B	wkn	Noun Signature	2000	RKMOUN	Date <u>9-7-22</u>