

BATESVILLE WASTEWATER TREATMENT PLANT

500 River Bank Road
Batesville, Arkansas 72501
Office (870) 698-2442
E-mail: wwsuper@batesvillearkansas.gov

September 15, 2022

Ms. Yvette Wilkins
Arkansas Department of Entergy and Environment
5301 Northshore Drive
North Little Rock, AR 72118

2022 Discharge Monitoring Report-Quality Assurance (DMR-QA) Study 42 Corrective Action Report

Ms. Wilkins

Please find attached the corrective action report on the “not-acceptable” Residue-nonfilterable (TSS) for the 2022 DMR-QA Study 42. We have just received the re-test results today.

Please contact me (870)698-2442, if you have any question.

Sincerely,



Michael McDaniel
Superintendent,
Batesville Wastewater Treatment Plant

DMR-QA Study Corrective Action Report

Problem

The graded Final Report 2022 Discharge Monitoring Report – Quality Assurance (DMR-QA) Study 42 for Residue-nonfilterable (TSS) showed the performance evaluation as “not acceptable.” Not Acceptable is when a reported value falls outside the acceptance limits. The acceptance limits for TSS were 67.50 to 91.80 mg/L and our reported value was 67.0

Investigation

We looked at the following possible errors made:

1. Subtraction error
2. Scale
3. Sample volume error
4. Considered the method of mixing the sample, after consulting with other labs that have experienced the same issue.

Based on observations of analyzing and additional sample, we ruled out all of these errors except for the possibility of sample mixing.

Corrective Actions

1. Ordered and analyzed a Residue in Water -QC-Blind (WP-284) from NSI Lab Solutions.
2. Thoroughly mixed sample before testing.

WP-284 results of analysis

The acceptance limits for the Residue in WP-284 were 13.6 to 27.0 mg/L and our value was 25.0. Our value of 25.0 mg/L met the acceptance criteria for the WP-284.



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

2022

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

Instructions for the NPDES Permittee Data Report Form:

1. This is a two-page form.
2. **Enter** your NPDES permit number at the top of pages 13 and 14.
3. You must fill in the 2-digit **permit extension** field at the top of page 13 if there is an extension for your permit code. If you have one, the extension will appear next to your permit code in the address box on page 13; for example: "NPDES Permittee CT1234567-01". If there is no extension, leave this field blank.
4. **Identify** each of your laboratories on page 14, including their U.S. EPA Lab Code which is a unique identifier number assigned by EPA. (Refer to page 6, item 4 in the Study 42 package) (NOTE: The U.S. EPA Lab Code of the laboratory that produced the data must also appear at the top of the Chemistry/ Microbiology and WET analyte checklists on pages 15-16.)
5. **Make copies** of pages 13 and 14. Attach a copy of these pages to the Chemistry/Microbiology and WET analyte checklists. Separate copies of each checklist must be filled out for each laboratory you used. Also, if a laboratory reports more than one test method to you for any single analyte, you must use a separate checklist for each test method reported. These checklists must indicate the graded test results for the analytes tested by the laboratory that are in your permit and required for DMR-QA (Acceptable or Not Acceptable). For Study 42, it is optional but encouraged to write in the approved EPA test method used for DMR- QA Chemistry/Microbiology analytes. If you use a state-certified laboratory to generate your NPDES data in a state that has been granted a partial exemption from the DMR-QA study by the EPA Region, check the "Analyte determined by state-certified laboratory" box(es) on the checklists (pages 15 and 16) for all analytes in your permit analyzed by a state-certified laboratory.
6. **Sign and date** the certification statement on page 13 and the applicable checklists on pages 15 and 16. Forms that do not have a signed certification statement by the permit holder or authorized representative will be considered invalid.
7. **Make copies** of the NPDES Permittee Data Report form and checklists for your records.
8. **Submit** the signed copy of the Permittee Data Packages by e-mail or postal mail to the **State DMR-QA Coordinator no later than September 9, 2022.**

Paperwork Reduction Act Notice. The public reporting and recordkeeping burden for this collection of information is estimated to average 6.6 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the *Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, DC 20460*. Include the OMB control number (2080-0021), ICR number (0234.13), and EPA form number (6400-01) in any correspondence. Do not send the completed form to this address.



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

2022

(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.

Due September 9, 2022

NPDES Permit Number (State + 7-digit ID)

AR 0020702

Permit Extension

Permittee Name

City of Batesville

Current Permittee Mailing Address

500 River Bank Road

City

Batesville

State

AR

Zip Code

72501

Phone Number

870 698-2442

Fax Number

N/A

E-Mail Address

wwwlab@batesvillearkansas.gov

Optional: If WP Study was used, list PT Provider name(s):

Optional: If WP Study was used, list WP Study Number(s):

For DMR-QA Study 42, conducted in 2022, the Permittee ensured that their laboratory(ies) performing the required analyses:

Received PT Samples

YES NO Submitted Complete and
Accurate Data by July 15, 2022YES NO Received a Graded Report by
August 12, 2022YES NO **Certification by Permit Holder or Authorized Representative**

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 with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S. EPA. 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

Title

Plant Superintendent

Signature

Michael McDaniel

Date

9-15-22

Address, phone number and e-mail of certifying official are required if different from above.

Address

Phone Number

City

State

Zip Code

E-Mail Address

wwwsuper@batesvillearkansas.gov



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

2022

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

Permittee Name <i>City of Batesville</i>	NPDES Permit Number (State + 7-digit ID) AR0020702	Permit Extension
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Identification of all CHEM, MICRO and WET laboratories who performed analyses for this permit

Laboratory Name	Laboratory Address	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State-certified Lab**
			Chem	Micro	WET		
<i>American Interplex</i>	<i>8600 Kanis Road Little Rock, AR 72244</i>	AR00016	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>C</i>	<input checked="" type="checkbox"/>
<i>Arkansas Testing</i>	<i>3301 Langley Drive Searcy, AR 72143</i>	AR00017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>C</i>	<input checked="" type="checkbox"/>
<i>Batesville Wastewater Treatment Plant Lab</i>	<i>500 River Bank Rd Batesville, AR 72501</i>	AR00020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>O</i>	<input type="checkbox"/>
		 _ _ _ _ _ _ _ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
		 _ _ _ _ _ _ _ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
		 _ _ _ _ _ _ _ 	<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 on page 5 (Frequently Asked Questions) for the current list of states with lab accreditation programs

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



Chemistry/Microbiology Analyte Checklist

DMR-QA Study 42

2022

Analyte Test	Test Required	Method Number Used (Optional)	Laboratory's Graded Result		Analyte determined by state-certified lab*
			Acceptable	Not Acceptable (Corrective Action Required)	
Microbiology					
E. coli, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fecal Coliform, MF or MPN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trace Metals					
Aluminum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimony	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beryllium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, total	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, hexavalent	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cobalt	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iron	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manganese	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molybdenum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nickel	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selenium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silver	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thallium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vanadium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zinc	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demands					
5-day BOD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5-day Carbonaceous BOD	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minerals					
Alkalinity, total (CaCO ₃)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chloride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluoride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hardness, total (CaCO ₃)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specific conductance (25°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfate	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Dissolved Solids (180°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients					
Ammonia as N	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nitrate as N	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nitrite as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orthophosphate as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl-Nitrogen as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phosphorus as P	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Misc. Analytes					
Non-Filterable Residue (TSS)	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oil and Grease	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Cyanide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phenolics (4-AAP)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine (Low-Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name Melinda Skaggs Signature Melinda Skaggs Date 9-15-22

* See Footnote on page 5

Complete a separate checklist for EACH lab.



Whole Effluent Toxicity (WET) Analyte Checklist

DMR-QA Study 42

2022

Analyte Number	Organism / Conditions	Endpoint	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab*
				Acceptable	Not Acceptable (Corrective Action Required)	
Test Code 13 (refer to EPA Method 2000.0)						
754	Fathead minnow (<i>Pimephales promelas</i>) - MHSF 25°C	LC50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Test Code 14 (refer to EPA Method 2000.0)						
755	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 15 (refer to EPA Method 1000.0)						
756	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
808	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
810	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 16 (refer to EPA Method 1000.0)						
759	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
812	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
814	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 19 (refer to EPA Method 2002.0)						
764	<i>Ceriodaphnia dubia</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 20 (refer to EPA Method 2002.0)						
765	<i>Ceriodaphnia dubia</i> - 20% DMW 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 21 (refer to EPA Method 1002.0)						
766	<i>Ceriodaphnia dubia</i> - MHSF	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
767	<i>Ceriodaphnia dubia</i> - MHSF	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
768	<i>Ceriodaphnia dubia</i> - MHSF	NOEC REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 22 (refer to EPA Method 1002.0)						
769	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
770	<i>Ceriodaphnia dubia</i> - 20% DMW	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
771	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 32 (refer to EPA Method 2021.0)						
788	<i>Daphnia magna</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 38 (refer to EPA Method 2021.0)						
794	<i>Daphnia pulex</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 42 (refer to EPA Method 2007.0)						
798	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 43 (refer to EPA Method 1007.0)						
799	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
816	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
818	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 44 (refer to EPA Method 2006.0)						
803	Inland silverside (<i>Menidia beryllina</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 45 (refer to EPA Method 1006.0)						
824	Inland silverside (<i>Menidia beryllina</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
825	Inland silverside (<i>Menidia beryllina</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
826	Inland silverside (<i>Menidia beryllina</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 46 (refer to EPA Method 2004.0)						
804	Sheepshead minnow (<i>Cyprinodon variegatus</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 47 (refer to EPA Method 1004.0)						
805	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
820	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
822	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name Melinda Stagg Signature Melinda Stagg Date 9-15-22

* See Footnote on page 5

** Preferred endpoint for DMR-QA performance test reporting

Complete a separate checklist for EACH lab.

CWA - Non-Potable Water
FINAL Performance Evaluation Report
NSI Laboratory Proficiency Testing Program
Study DMRQA-42 - Shipped: 04/15/2022 - Closed: 07/15/2022 - Reports Printed On: 07/23/2022
Participant USEPA Labcode: AR00920

Study Designed and Coordinated by:
NSI Lab Solutions
7212 ACC Blvd., Raleigh, NC 27617
ANAB Certificate#: AP-1693-1
1-800-234-7837

This evaluation report is being submitted to:

City of Batesville WWTP
Attention: Melinda Skaggs
500 Riverbank Road
Batesville, AR, 72501

LabCode and Accreditation Information:

Send Results to: State Only
EPA Lab Code: AR00920
State Lab Code: Arkansas
Primary Agency: AR -- Arkansas DEQYvette Wilkins
5301 Northshore Drive
North Little Rock, AR 72118
Reports to: AR

Participant Information

NSI Lab Code: N06257
Permittee Code: AR0020702

This report was submitted by Melinda Skaggs, Lab Supervisor
City of Batesville WWTP
500 Riverbank Road
Batesville, AR, 72501
870-698-2442

Please contact Mark Hammersia at NSI Lab Solutions if you have any questions about this report.
(800) 234-7837 - mark.hammersia@nsilabsolutions.com

This PT report may contain data not covered under ANAB Accreditation. Such data is noted by an asterisk.

MIC-003 Total and Fecal Coliform - City of Batesville WWTP - NSI Lab Solutions/DMRQA-42

TNI Analyte	TNI	Method Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
2530 Fecal Coliform, MF	n/a		SM922D20thE D1997	951	789	789	cfu/100mL	AR00920	201 to 2650	ACCEPT.	5/23/22	MS/GM
2500 Total Coliform, MF	- Not Reported -											
2525 E.coli, MF	- Not Reported -											
2500 Total Coliform (MPN-Multiple Tube)	- Not Reported -											
2500 Total Coliform (MPN-Multiple Well)	- Not Reported -											
2530 Fecal Coliform (MPN-Multiple Tube)	- Not Reported -											
2530 Fecal Coliform (MPN-Multiple Well)	- Not Reported -											
2525 E.coli (MPN-Multiple Tube)	- Not Reported -											
2525 E.coli (MPN-Multiple Well)	- Not Reported -											

PEI-026 Demand - City of Batesville WWTP - NSI Lab Solutions/DMRQA-42

TNI Analyte	TNI	Method Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
1530 Biochemical oxygen demand	n/a		SM5210B20thED 1997	24.3	35.1	33.8	mg/L	AR00920	17.0 to 50.5	ACCEPT.	5/26/22	MS
1555 Carbonaceous BOD (CBOD)	n/a		SM5210B20thED 1997	22.1	33.5	30.6	mg/L	AR00920	12.8 to 48.4	ACCEPT.	5/26/22	MS
1565 Chemical Oxygen Demand (COD)	- Not Reported -											
2040 Total Organic Carbon (TOC)	- Not Reported -											

PEI-035 pH - City of Batesville WWTP - NSI Lab Solutions/DMRQA-42

TNI Analyte	TNI	Method Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
1900 pH	n/a		SM20Ed4500HB	5.87	5.96	5.93	units	AR00920	5.73 to 6.13	ACCEPT.	5/23/22	MS/GM

PEI-079 Residue - City of Batesville WWTP - NSI Lab Solutions/DMRQA-42

TNI Analyte	TNI	Method Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
1960 Residue-nonfilterable (TSS)	n/a		SM2540D20thEd	67.0	76.2	82.5	mg/L	AR00920	67.5 to 91.8	NOT ACCEPT.	5/24/22	MS/GM
1950 Residue-total (TS)	- Not Reported -											

PEI-138 Simple Nutrients - City of Batesville WWTP - NSI Lab Solutions/DMRQA-42

TNI Analyte	TNI	Method Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
1515 Ammonia as N	n/a		EPAHACH1025	3.86	3.69	3.58	mg/L	AR00920	2.71 to 4.51	ACCEPT.	5/23/22	MS/GM
1810 Nitrate as N	- Not Reported -											
1870 Orthophosphate as P	- Not Reported -											
1820 Nitrate plus Nitrite as N	- Not Reported -											

Assigned Values

All assigned values are established in a manner compliant with the current TNI FOT for Non-Potable Water. With the exception of TDS and Specific Conductance assigned values are equal to the analytically verified gravimetric true value of the PT sample. For TDS and Specific Conductance, the assigned value is set at the robust study mean.

Accuracy/Traceability/Uncertainty

All assigned values are analytically verified for formulation accuracy prior to shipment. A total of 10 randomly chosen samples are taken from the production run and analyzed against NIST SRMs or CRMs. Traceability to SI is established through microbalance calibration with NIST traceable test masses. The expanded uncertainty at 95% CI with K=2 of each assigned value is available upon request and is typically <0.50%.

Batch Homogeneity

Each individual PT sample batch is thoroughly mixed in production and guaranteed to be homogeneous. Homogeneity is verified analytically according to in-house SOP.

Stability

Each analyte has been verified stable through the end of the PT study by either long term monitoring or study closing stability testing.

Acceptance Limits

Acceptance limits are set according to current TNI limits. Where no limits are set by TNI, limits are set to ± 3 standard deviations around the study mean after outlier correction.

Accredited Analytes

All analytes are included under our ISO 17043/TNI scope of accreditation (Certificate #: AP-1693-1) unless otherwise noted with an asterisk (*).

PT Study Summary

To view a summary of the PT study results, please see Study Summary Report available in our PT DataLink at www.nsilabsolutions.com.

* The study mean and standard deviation are presented after outlier correction and are based upon pooled reported results without consideration for analytical technology.
† If present, the EPA Code of the lab that actually performed the analysis for this analyte.

Reviewed/Approved By: 
Mark Hammersla, President

Date: 07/23/2022

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Should you disagree with any element of this PT report, please submit your complaint to nsi@nsilabsolutions.com. Include the study number, your contact information, NSI Labcode, and the nature of your disagreement. An NSI Lab Solutions representative will contact you within 48 hours.

CWA - Non-Potable Water
FINAL Performance Evaluation Report
NSI Laboratory Proficiency Testing Program
Study WP-284 - Shipped: 07/13/2022 - Closed: 08/26/2022 - Reports Printed On: 09/12/2022
Participant USEPA Labcode: AR00920

Study Designed and Coordinated by:
NSI Lab Solutions
7212 ACC Blvd., Raleigh, NC 27617
ANAB Certificate#: AP-1693-1
1-800-234-7837

This evaluation report is being submitted to:

City of Batesville WWTP
Attention: Melinda Skaggs
500 Riverbank Road
Batesville, AR, 72501

LabCode and Accreditation Information:

Send Results to: State Only
EPA Lab Code: AR00920
State Lab Code: Arkansas
Primary Agency: AR -- Arkansas DEQYvette Wilkins
5301 Northshore Drive
North Little Rock, AR 72118
Reports to: AR

Participant Information

NSI Lab Code: N06257

This report was submitted by Melinda Skaggs, Lab Supervisor
City of Batesville WWTP
500 Riverbank Road
Batesville, AR, 72501
870-698-2442

Please contact Mark Hammersla at NSI Lab Solutions if you have any questions about this report.
(800) 234-7837 - mark.hammersla@nsilabsolutions.com
This PT report may contain data not covered under ANAB Accreditation. Such data is noted by an asterisk.

PEI-079 Residue - City of Batesville WWTP - NSI Lab Solutions/WP-284

TNI Analyte	TNI Method	TNI Tech. Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	Standard Deviation	Acceptance Limits	Z-Score	Evaluation	Analysis Date	Analyst's Name
1960 Residue-nonfilterable (TSS)	n/a	n/a	SM2540D20th ED	25.0	24.1	21.5	mg/L	3.69	13.6 to 27.0	0.244	ACCEPT.	8/8/22	MS/GM

1950 Residue-total (TS) - Not Reported --

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Z-Scores

Z-Scores have been added to our reports for informational purposes. The z-score is an internationally recognized PT grading criterion where any z-score < -3 is considered an acceptable evaluation. $z = (X - \mu) / \sigma$ after outlier rejection where X is the reported value, μ is the study mean and σ is the study standard deviation. It should be noted that the overall evaluations continue to be determined in a manner conforming with the current TNI criteria.

PT Study Summary

To view a summary of the PT study results, please see Study Summary Report available in our PT Datalink at www.nsilabsolutions.com.

* The study mean and standard deviation are presented after outlier correction and are based upon pooled reported results without consideration for analytical technology.

Reviewed/Approved By: 
Mark Hammersia, President

Date: 09/12/2022

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