



8100 National Dr. - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

11 April 2024

Josh Weaver  
Wynne Water Utilities  
121 East Merriman  
Wynne, AR 72396

Project: Lagoon Discharge Sample  
Project Number: April 2024  
SDG Number: 2404096

Enclosed are the results of analyses for samples received by the laboratory on 03-Apr-24 14:50. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

<u>Custody Seals</u>	✓
<u>Containers Correct</u>	✓
<u>COC/Labels Agree</u>	✓
<u>Received On Ice</u>	✓
Temperature on Receipt	3.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James".

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Norma James  
Technical Director

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**CASE NARRATIVE**

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Sample Delivery Group – 2404096

**One OR more of the qualifiers described below may appear in this report. Qualifiers in RED apply to this SDG (Sample Delivery Group).**

**BOD/CBOD QUALIFIERS:**

<u>Qualifier</u>	<u>Description</u>
B-01	Method requirements for oxygen depletion failed.
B-02	Method requirements for residual oxygen failed.
B-03	Depletion of the blank exceeded method requirements.
B-04	Test replicates show a >30% difference between the highest and lowest values.
B-06	Seed correction failed to meet method requirements.
Cl-1	Estimated result due to treatment for excessive chlorine.
%D2 / E5	Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCSD) failed to recover with acceptance criteria (%D2). Associated results were qualified as "estimated" (E5).

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**ANALYTICAL RESULTS**

Lab Number: 2404096-01  
Sample Name: Lagoon Discharge Grab (Wynne)  
Date/Time Collected: 4/3/24 10:00  
Sample Matrix: Water

<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	10.3		4/5/24 8:02	B404128	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	1600		4/3/24 15:50	B404122	IDEXX Colilert-18
TSS	mg/L	33.5		4/5/24 10:30	B404119	SM 2540 D-2015
CBOD	mg/L	4.52	B-01	4/4/24 11:53	B404100	SM 5210B-2016

**ANALYTICAL RESULTS**

Lab Number: 2404096-02  
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)  
Date/Time Collected: 4/3/24 11:30  
Sample Matrix: Water

<u>Field Analyses</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	6.25		4/3/24 11:30	B404182	SM 4500-O G-2011
pH	S.U.	7.44		4/3/24 11:30	B404180	SM 4500-H+ B-2011
Temperature	°C	15.8		4/3/24 11:30	B404181	SM 2550B-2000

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**QUALITY CONTROL RESULTS**

**Wet Chemistry -- Batch: B404100 (Water)**

Prepared: 04-Apr-24 11:53 By: KD -- Analyzed: 04-Apr-24 11:53 By: KD

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	124% / 118%	NA / NA		5.35%	

**Wet Chemistry -- Batch: B404119 (Water)**

Prepared: 05-Apr-24 10:30 By: MH -- Analyzed: 05-Apr-24 10:30 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	87.0% / 89.0%	NA / NA		2.27%	

**Wet Chemistry -- Batch: B404122 (Water)**

Prepared: 03-Apr-24 15:50 By: KJ -- Analyzed: 03-Apr-24 15:50 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	48000 MPN/100 mL	0.00%	

**Wet Chemistry -- Batch: B404128 (Water)**

Prepared: 05-Apr-24 08:02 By: KJ -- Analyzed: 05-Apr-24 08:02 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	91.4% / NA	89.8% / 86.6%		3.25%	

**Field Analyses -- Batch: B404180 (Water)**

Prepared: 03-Apr-24 09:12 By: MH -- Analyzed: 03-Apr-24 09:12 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA		0.143%	

**Field Analyses -- Batch: B404181 (Water)**

Prepared: 03-Apr-24 13:40 By: MH -- Analyzed: 03-Apr-24 13:40 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	16.3 °C	0.612%	

**Field Analyses -- Batch: B404182 (Water)**

Prepared: 03-Apr-24 13:40 By: MH -- Analyzed: 03-Apr-24 13:40 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.84 mg/L	0.587%	

**QUALIFIER(S)**

\*B-01: Method requirements for oxygen depletion failed. Data is qualified as estimated.

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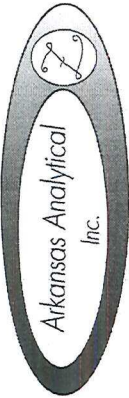
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All Analysis performed according to EPA approved methodology when available :  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

A handwritten signature in blue ink that reads "Norma James". The signature is written in a cursive style and is positioned above a horizontal line.

Reviewed by: \_\_\_\_\_  
Norma James  
Technical Director

8100 National Dr.  
 Little Rock, AR 72209  
 PHONE: 501-455-3233  
 FAX: 501-455-6118



# CHAIN OF CUSTODY RECORD

CLIENT INFORMATION			Project Description		Turnaround Time		Preservation Codes:					
Wynne Water Utilities 121 East Merriman Wynne, AR 72396			Lagoon Discharge Sample Weekly Sample		1 Day (100%) 2 Day (50%) 3 Day (25%) 5 Day (routine)		1. Cool, 6 Degrees Centigrade 2. Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ), pH < 2 3. Nitric Acid (HNO <sub>3</sub> ), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12					
Attn: Josh Weaver			Telephone: 870-238-2751 Fax: 870-238-2044 Email: jweaver.wvu@gmail.com		Preservative Code: Bottle Type:		<b>TEST PARAMETERS</b> 1 1 1,2 1,4 P P P P Field (pH, D.O., Temperature) CBOD, TSS Ammonia Fecal Coliform Bottle Type Code G = Glass; P = Plastic V = Septum; A = Amber					
Sampler(s) Signature: <i>Josh Weaver</i> Sampler(s) Printed: <i>JOSH WEAVER</i>			Number of Bottles: 3 Sample Matrix: Water Grab: X Composite: X		Identification/Description: Lagoon Discharge Grab (Wynne) Lagoon Discharge Field Analysis (AR Analytical)		Arkansas Analytical Work Order Number: <b>2404166</b>					
Date/Time: 4/3 9:30 AM			Date/Time: 4/13 1:30 PM		Onsite Measurements by Arkansas Analytical -- DATE: 4/3/24 QC Duplicate		Field Calibration Record -- DATE: 4/3/24 pH / Time: 4 / 7 / 10 / Slope: / Chlorine QC Time: 1 2					
Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time: 4/13			Received by: (Signature) <i>Amanda</i> 1145 4/13/24		SAMPLE CONDITION UPON RECEIPT IN LAB 1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. CONTAINERS CORRECT: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 3. COC/LABELS AGREE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 5. TEMPERATURE ON RECEIPT: 3°C 6. TEMPERATURE GUN ID: HHT# 5		REMARKS / SAMPLE COMMENTS					
Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time: 4/13/24 1:45 PM			Received by: (Signature) <i>Forbush</i> 1450 4/13/24		FOR COMPLETION BY LAB ONLY							