



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

15 February 2024

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

Project: Lagoon Discharge Sample
Project Number: February 2024
SDG Number: 2402158

Enclosed are the results of analyses for samples received by the laboratory on 07-Feb-24 15:12. 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	2.0°C

Sincerely,

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

Norma James
Technical Director

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CASE NARRATIVE

Sample Delivery Group – 2402158

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

FECAL COLIFORM QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
FC	The sample result is actually GREATER THAN the 2420 MPN/100 mL. The sample growth exceeded the limit of the procedure.
TNTC	Too Numerous to Count

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ANALYTICAL RESULTS

Lab Number: 2402158-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 2/7/24 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	11.0		2/9/24 8:10	B402179	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	2/7/24 15:45	B402177	IDEXX Colilert-18
TSS	mg/L	6.00		2/9/24 8:45	B402148	SM 2540 D-2015
CBOD	mg/L	6.84		2/9/24 8:00	B402185	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2402158-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 2/7/24 12:10
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	8.96		2/7/24 12:10	B402199	SM 4500-O G-2011
pH	S.U.	7.68		2/7/24 12:10	B402197	SM 4500-H+ B-2011
Temperature	°C	9.8		2/7/24 12:10	B402198	SM 2550B-2000

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B402148 (Water)

Prepared: 09-Feb-24 08:45 By: MH -- Analyzed: 09-Feb-24 08:45 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
TSS	<1.00 mg/L	90.0% / 87.0%	NA / NA		3.39%	

Wet Chemistry -- Batch: B402177 (Water)

Prepared: 07-Feb-24 15:45 By: KJ -- Analyzed: 07-Feb-24 15:45 By: KJ

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	260 MPN/100 mL	4.80%	

Wet Chemistry -- Batch: B402179 (Water)

Prepared: 09-Feb-24 08:10 By: KJ -- Analyzed: 09-Feb-24 08:10 By: KJ

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Ammonia as N	<0.500 mg/L	90.0% / NA	86.4% / 89.4%		3.07%	

Wet Chemistry -- Batch: B402185 (Water)

Prepared: 09-Feb-24 08:00 By: JM -- Analyzed: 09-Feb-24 08:00 By: KD

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
CBOD	<2.00 mg/L	122% / 125%	NA / NA		2.15%	

Field Analyses -- Batch: B402197 (Water)

Prepared: 07-Feb-24 09:03 By: MH -- Analyzed: 07-Feb-24 09:03 By: MH

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

Field Analyses -- Batch: B402198 (Water)

Prepared: 07-Feb-24 13:55 By: MH -- Analyzed: 07-Feb-24 13:55 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Temperature (Field)	NA	NA / NA	NA / NA	13.0 °C	0.00%	

Field Analyses -- Batch: B402199 (Water)

Prepared: 07-Feb-24 13:55 By: MH -- Analyzed: 07-Feb-24 13:55 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	8.14 mg/L	0.493%	

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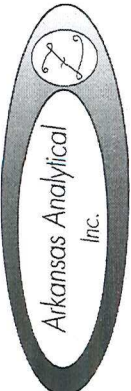
QUALIFIER(S)

*FC: The sample result is actually GREATER THAN 2420 MPN/100mL. The sample growth exceeded the limit of the procedure.
*TNTC: Too Numerous To Count

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".

Reviewed by: _____
Norma James
Technical Director



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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 ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), 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:		TEST PARAMETERS 1 1,2 1,4 P P P CBOD, TSS Field (pH, D.O. Temperature) Ammonia Fecal Coliform						
Sampler(s) Signature: <i>Josh Weaver</i> Sampler(s) Printed: <i>Josh Weaver</i>			Number of Bottles: 3 Matrix: Water		SAMPLE IDENTIFICATION / DESCRIPTION Lagoon Discharge Grab (Wynne) Lagoon Discharge Field Analysis (AR Analytical)							Bottle Type Code: G = Glass; P = Plastic V = Septum; A = Amber Arkansas Analytical Work Order Number: 2402158	
Field Number: 2/7 Date/s: 2/7/24 Time/s: 10AM 1210			Grab: X X		ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 2/7/24 Sample Duplicate QC QC Duplicate pH (S.U.) 7.68 765 702 701 Time 1210 1215 900 903 Temperature (C) 896 896 901 901 Time 1210 1215 Dissolved Oxygen (mg/L) 8.96 9.05 Time 1210 1215							Field Calibration Record -- DATE: 2/7/24 pH / Time D.O. Chlorine Time QC Time 4 1 7 2 10 ↓ 850	
1. Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time 2/7			2. Received by: (Signature) <i>Natasha Howard</i> Date/Time 2/7/24		SAMPLE CONDITION UPON RECEIPT IN LAB 1. CUSTODY SEALS: Yes ___ No ___ 2. CONTAINERS CORRECT: Yes ___ No ___ 3. COC/LABELS AGREE: Yes ___ No ___ 4. RECEIVED ON ICE: Yes ___ No ___ 5. TEMPERATURE ON RECEIPT: 2 °C 5 6. TEMPERATURE GUN ID: HHT#							REMARKS / SAMPLE COMMENTS	
3. Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time 15/2 2/7/24			4. Received by lab: (Signature) <i>Natasha Howard</i> Date/Time 15/2 2/7/24		FOR COMPLETION BY LAB ONLY							Revision 3 14446	