



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

13 March 2024

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

Project: Lagoon Discharge Sample  
Project Number: March 2024  
SDG Number: 2403093

Enclosed are the results of analyses for samples received by the laboratory on 06-Mar-24 15:10. 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	1.0°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 – 2403093

**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: 2403093-01  
Sample Name: Lagoon Discharge Grab (Wynne)  
Date/Time Collected: 3/6/24 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	9.52		3/7/24 12:51	B403125	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	21		3/6/24 15:40	B403142	IDEXX Colilert-18
TSS	mg/L	6.50		3/8/24 8:35	B403150	SM 2540 D-2015
CBOD	mg/L	3.12	B-01	3/7/24 6:56	B403118	SM 5210B-2016

**ANALYTICAL RESULTS**

Lab Number: 2403093-02  
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)  
Date/Time Collected: 3/6/24 11:20  
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	3.74		3/6/24 11:20	B403269	SM 4500-O G-2011
pH	S.U.	7.30		3/6/24 11:20	B403266	SM 4500-H+ B-2011
Temperature	°C	17.6		3/6/24 11:20	B403268	SM 2550B-2000



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**QUALITY CONTROL RESULTS**

**Wet Chemistry -- Batch: B403118 (Water)**

Prepared: 07-Mar-24 06:56 By: MB -- Analyzed: 07-Mar-24 06:56 By: KD

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	115% / 110%	NA / NA		4.70%	

**Wet Chemistry -- Batch: B403125 (Water)**

Prepared: 07-Mar-24 12:51 By: KJ -- Analyzed: 07-Mar-24 12:51 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	88.1% / NA	79.3% / 82.8%		3.78%	

**Wet Chemistry -- Batch: B403142 (Water)**

Prepared: 06-Mar-24 15:40 By: KJ -- Analyzed: 06-Mar-24 15:40 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	7700 MPN/100 mL	71.3%	

**Wet Chemistry -- Batch: B403150 (Water)**

Prepared: 08-Mar-24 08:35 By: MH -- Analyzed: 08-Mar-24 08:35 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	90.0% / 88.0%	NA / NA		2.25%	

**Field Analyses -- Batch: B403266 (Water)**

Prepared: 06-Mar-24 09:28 By: MH -- Analyzed: 06-Mar-24 09:28 By: CNW

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	101% / 101%	NA / NA		0.424%	

**Field Analyses -- Batch: B403268 (Water)**

Prepared: 06-Mar-24 11:25 By: MH -- Analyzed: 06-Mar-24 11:25 By: CNW

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	17.6 °C	0.00%	

**Field Analyses -- Batch: B403269 (Water)**

Prepared: 06-Mar-24 11:25 By: MH -- Analyzed: 06-Mar-24 11:25 By: CNW

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	3.69 mg/L	1.35%	

**QUALIFIER(S)**

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

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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

