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501-455-3233 Fax 501-455-6118

23 April 2024

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

Project: Lagoon Discharge Sample

Project Number: April 2024

SDG Number: 2404479

Enclosed are the results of analyses for samples received by the laboratory on 17-Apr-24 16:30. 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	4.0°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 – 2404479

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: 2404479-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 4/17/24 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	12.5		4/19/24 8:03	B404445	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	110		4/17/24 16:15	B404434	IDEXX Colilert-18
TSS	mg/L	34.5		4/18/24 16:27	B404418	SM 2540 D-2015
CBOD	mg/L	3.72	B-01	4/18/24 7:04	B404414	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2404479-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 4/17/24 13:30
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	7.28		4/17/24 13:31	B404522	SM 4500-O G-2011
pH	S.U.	7.87		4/17/24 13:31	B404520	SM 4500-H+ B-2011
Temperature	°C	25.0		4/17/24 13:31	B404521	SM 2550B-2000

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B404414 (Water)

Prepared: 18-Apr-24 07:04 By: MB -- Analyzed: 18-Apr-24 07:04 By: KD

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	123% / 124%	NA / NA		0.477%	

Wet Chemistry -- Batch: B404418 (Water)

Prepared: 18-Apr-24 16:27 By: BH -- Analyzed: 18-Apr-24 16:27 By: MB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	94.0% / 89.0%	NA / NA		5.46%	

Wet Chemistry -- Batch: B404434 (Water)

Prepared: 17-Apr-24 16:15 By: KJ -- Analyzed: 17-Apr-24 16:15 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	18000 MPN/100 mL	34.1%	

Wet Chemistry -- Batch: B404445 (Water)

Prepared: 19-Apr-24 08:03 By: KJ -- Analyzed: 19-Apr-24 08:03 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	104% / NA	111% / 105%		4.99%	

Field Analyses -- Batch: B404520 (Water)

Prepared: 16-Apr-24 07:51 By: SR -- Analyzed: 17-Apr-24 07:56 By: SR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	101% / 100%	NA / NA		0.284%	

Field Analyses -- Batch: B404521 (Water)

Prepared: 17-Apr-24 09:11 By: SR -- Analyzed: 23-Apr-24 07:55 By: SR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	21.0 °C	1.44%	

Field Analyses -- Batch: B404522 (Water)

Prepared: 17-Apr-24 08:01 By: SR -- Analyzed: 17-Apr-24 08:01 By: SJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	8.64 mg/L	10.6%	

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



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:																						
Wyenne Water Utilities 121 East Merriman Wyenne, AR 72396			Lagoon Discharge Sample Weekly Sample Reporting Information			1 Day (100%) 2 Day (50%) 3 Day (25%)			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			5 Day (fouling) Preservative Code: P Bottle Type:			TEST PARAMETERS 1, 1, 1, 2, 1, 4 Field (pH, D.O., Temperature) CBOD, TSS Ammonia Fecal Coliform																						
Sampler(s) Signature: <i>Josh Weaver</i>			Sampler(s) Printed: Josh Weaver			Arkansas Analytical Work Order Number: 2404479																									
Field Number	SAMPLE COLLECTION Dates	Times	Grab	Comp	Number of Bottles	Sample Matrix	IDENTIFICATION/ DESCRIPTION	Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform	Chlorine																			
	4/17	10:40a	X		3	Water	Lagoon Discharge Grab (Wyenne)		X	X	X																				
	4/17/24	1330	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)	X																							
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 4-17-24																															
Sample	Duplicate	QC	QC Duplicate	pH (S.U.)		7.87	7.89	7.87	7.89	Temperature (°C)		13.31	13.33	13.31	13.33	Time		13:31	13:33	Dissolved Oxygen (mg/L)		7.28	7.58	7.28	7.58	13:31	13:33	Time		13:31	13:33
SAMPLE CONDITION UPON RECEIPT IN LAB													REMARKS / SAMPLE COMMENTS																		
1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													QCPH 9:05 Dup ac 7:03																		
2. CONTAINERS CORRECT: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													Time 0755 0754																		
3. COC/LABELS AGREE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													Temp 21.0°C 20.9°C																		
4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													Time 0755 0754																		
5. TEMPERATURE ON RECEIPT: 4°C													Dissolved O2 8.84 mg/L 8.97 mg/L																		
6. TEMPERATURE GUN ID: HHT# 5													Time 0801 0802																		
FOR COMPLETION BY LAB ONLY																															

1. Relinquished by: (Signature)
 2. Received by: (Signature)
 3. Relinquished by: (Signature)
 Revision 3
 44446

Date/Time
 4/17
 4-17-24
 1430
 SYDNEY JAMES

1. Relinquished by: (Signature)
 2. Received by: (Signature)
 3. Relinquished by: (Signature)
 Revision 3
 44446