



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

20 December 2023

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

Project: Lagoon Discharge Sample
Project Number: December 2023
SDG Number: 2312328

Enclosed are the results of analyses for samples received by the laboratory on 13-Dec-23 15:15. 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	5.0°C

Sincerely,

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

Norma James
Technical Director

This document is intended only for the use of the person(s) to whom it is expressly addressed. This document may contain information that is confidential and legally privileged. If you are not the intended recipient, you are notified that any disclosure, distribution, or copying of this document is strictly prohibited. If you have received this document in error, please destroy.

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 13-Dec-23 15:15

ANALYTICAL RESULTS

Lab Number: 2312328-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 12/13/23 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	11.5		12/15/23 8:15	B312330	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	870		12/13/23 15:30	B312321	IDEXX Colilert-18
TSS	mg/L	20.7		12/15/23 8:45	B312300	SM 2540 D-2015
CBOD	mg/L	16.0		12/15/23 8:07	B312328	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2312328-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 12/13/23 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	9.80		12/13/23 11:35	B312355	SM 4500-O G-2011
pH	S.U.	7.82		12/13/23 11:30	B312353	SM 4500-H+ B-2011
Temperature	°C	10.7		12/13/23 11:30	B312354	SM 2550B-2000

Josh Weaver
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 121 East Merriman
 Wynne, AR 72396
 Project: Lagoon Discharge Sample
 Project Number: December 2023
 Date Received: 13-Dec-23 15:15

QUALITY CONTROL RESULTS
Wet Chemistry -- Batch: B312300 (Water)

Prepared: 15-Dec-23 08:45 By: MH -- Analyzed: 15-Dec-23 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	89.0% / 90.0%	NA / NA		1.12%	

Wet Chemistry -- Batch: B312321 (Water)

Prepared: 13-Dec-23 14:30 By: KJ -- Analyzed: 13-Dec-23 14:30 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	ND MPN/100 mL	NA	

Wet Chemistry -- Batch: B312328 (Water)

Prepared: 15-Dec-23 08:07 By: kd -- Analyzed: 15-Dec-23 08:07 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	100% / 103%	NA / NA		3.18%	

Wet Chemistry -- Batch: B312330 (Water)

Prepared: 15-Dec-23 08:15 By: KJ -- Analyzed: 15-Dec-23 08:15 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	92.2% / NA	98.2% / 99.6%		1.06%	

Field Analyses -- Batch: B312353 (Water)

Prepared: 13-Dec-23 09:05 By: MH -- Analyzed: 13-Dec-23 09:05 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	101% / 100%	NA / NA		0.284%	

Field Analyses -- Batch: B312354 (Water)

Prepared: 13-Dec-23 10:33 By: MH -- Analyzed: 13-Dec-23 10:33 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	11.8 °C	0.00%	

Field Analyses -- Batch: B312355 (Water)

Prepared: 13-Dec-23 10:37 By: MH -- Analyzed: 13-Dec-23 10:37 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	4.96 mg/L	0.402%	

20 December 2023

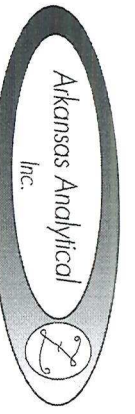


Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 13-Dec-23 15:15

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			Lagoon Discharge Sample			1 Day (100%)				1. Cool, 6 Degrees Centigrade			
121 East Merriman			Weekly Sample			2 Day (50%)				2. Sulfuric Acid (H ₂ SO ₄), pH < 2			
Wynne, AR 72396			Reporting Information			3 Day (25%)				3. Nitric Acid (HNO ₃), pH < 2			
Attn: Josh Weaver			Telephone: 870-238-2751			5 Day (Routine)				TEST PARAMETERS			
Fax: 870-238-2044			Email: jweaver.wwu@gmail.com			Preservative Code: P				4. Thiosulfate for Dechlorination			
Bottle Type:			Field (pH, D.O., Temperature)			1				5. Hydrochloric Acid(HCl)			
Sampler(s) Signature: <i>Josh Weaver</i>			Sampler(s) Printed: <i>Josh Weaver</i>			P				6. Sodium Hydroxide (NaOH), pH > 12			
Bottle Type Code			SAMPLE COLLECTION			1,2				Arkansas Analytical Work Order Number: 2312328			
G = Glass, P = Plastic			Field Number			P							
V = Septom, A = Amber			Dates			1,4							
Date/Time			Times			P							
12/13			10:44			P							
12/13			1:30			P							
Grab			Number of Bottles			P							
X			3			P							
Water			Sample Matrix			P							
X			Water			P							
Lagoon Discharge Grab (Wynne)			IDENTIFICATION/ DESCRIPTION			P							
Lagoon Discharge Field Analysis (AR Analytical)			SAMPLE			P							
X			Lagoon Discharge Field Analysis (AR Analytical)			P							
			ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 12/13/23			P							
			Sample			P							
			Duplicate			P							
			QC			P							
			QC Duplicate			P							
			pH (S.U.)			P							
			Time			P							
			Temperature (°C)			P							
			Time			P							
			Dissolved Oxygen (mg/L)			P							
			Time			P							
			11:45			P							
			12/13/23			P							
1. Relinquished by: (Signature)			Date/Time			P							
<i>Josh Weaver</i>			12/13			P							
2. Received by: (Signature)			Date/Time			P							
<i>Sydney James</i>			15/15			P							
3. Relinquished by: (Signature)			Date/Time			P							
<i>Josh Weaver</i>			12/13/23			P							
4. Received by lab: (Signature)			Date/Time			P							
<i>Sydney James</i>			12/13			P							
5. TEMPERATURE ON RECEIPT: 5 °C			HHT# 5			P							
6. TEMPERATURE GUN ID:			FOR COMPLETION BY LAB ONLY			P							
REMARKS / SAMPLE COMMENTS			Field Calibration Record -- DATE: 12/13/23			P							
			pH / Time			P							
			D.O.			P							
			Time			P							
			Slope			P							
			Chlorine			P							
			QC Time			P							
			1			P							
			2			P							
Revision 3			14449			P							



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27 December 2023

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

Project: Lagoon Discharge Sample
Project Number: December 2023
SDG Number: 2312516

Enclosed are the results of analyses for samples received by the laboratory on 20-Dec-23 15:40. 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".

Norma James
Technical Director

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Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 20-Dec-23 15:40

ANALYTICAL RESULTS

Lab Number: 2312516-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 12/20/23 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	16.7		12/21/23 10:45	B312490	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	62		12/20/23 15:30	B312518	IDEXX Colilert-18
TSS	mg/L	24.7		12/26/23 14:45	B312539	SM 2540 D-2015
CBOD	mg/L	15.4		12/21/23 6:40	B312480	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2312516-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 12/20/23 12:20
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	9.17		12/20/23 12:25	B312543	SM 4500-O G-2011
pH	S.U.	7.66		12/20/23 12:20	B312541	SM 4500-H+ B-2011
Temperature	°C	10.7		12/20/23 12:20	B312542	SM 2550B-2000

Josh Weaver
 Wynne Water Utilities
 121 East Merriman
 Wynne, AR 72396
 Project: Lagoon Discharge Sample
 Project Number: December 2023
 Date Received: 20-Dec-23 15:40

QUALITY CONTROL RESULTS
Wet Chemistry -- Batch: B312480 (Water)

Prepared: 21-Dec-23 06:40 By: kd -- Analyzed: 21-Dec-23 06:40 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	111% / 109%	NA / NA		1.87%	

Wet Chemistry -- Batch: B312490 (Water)

Prepared: 21-Dec-23 10:45 By: KJ -- Analyzed: 21-Dec-23 10:45 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>
Ammonia as N	<0.500 mg/L	85.0% / NA	90.1% / 87.0%		3.32%	

Wet Chemistry -- Batch: B312518 (Water)

Prepared: 20-Dec-23 15:30 By: KJ -- Analyzed: 20-Dec-23 15:30 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	1 MPN/100 mL	0.00%	

Wet Chemistry -- Batch: B312539 (Water)

Prepared: 26-Dec-23 14:45 By: MH -- Analyzed: 26-Dec-23 14:45 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% / 90.0%	NA / NA		0.00%	

Field Analyses -- Batch: B312541 (Water)

Prepared: 20-Dec-23 09:03 By: MH -- Analyzed: 20-Dec-23 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	101% / 101%	NA / NA		0.141%	

Field Analyses -- Batch: B312542 (Water)

Prepared: 20-Dec-23 14:23 By: MH -- Analyzed: 20-Dec-23 14:23 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	13.2 °C	0.00%	

Field Analyses -- Batch: B312543 (Water)

Prepared: 20-Dec-23 14:27 By: MH -- Analyzed: 20-Dec-23 14:27 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	7.45 mg/L	0.134%	

27 December 2023

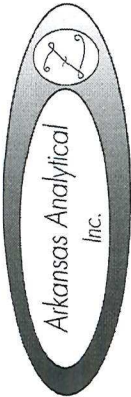


Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 20-Dec-23 15:40

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 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: 1 Bottle Type: P		TEST PARAMETERS 1 1 1 1,2 1,4 P P P P P Field (pH, D.O., Temperature) CBOD, TSS Ammonia Fecal Coliform						
Sampler(s) Signature: <i>Josh Weaver</i>		Sampler(s) Printed: Josh Weaver		Sample		Bottle Type Code G = Glass; P = Plastic V = Septum; A = Amber						
Sampler(s) Signature		Number of Sample Bottles		Sample Matrix		Arkansas Analytical Work Order Number: 12/25/16						
Field Number	SAMPLE COLLECTION Date/s	SAMPLE COLLECTION Time/s	Grab	Number of Comp	IDENTIFICATION/ DESCRIPTION							
	12/20	10AM	X	3	Lagoon Discharge Grab (Wynne)							
	12/20/23	1220	X	0	Lagoon Discharge Field Analysis (AR Analytical)							
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 12/20/23												
					Sample Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 12/20/23				
					pH (S.U.) 7.66	7.67	7.68	pH / Time	D.O.	Chlorine		
					Time 1220	900	903	Time	Time	QC Time		
					Temperature (°C) 15.7	15.7	15.7	4	Slope	1		
					Time 1220	920	920	7		2		
					Dissolved Oxygen (mg/L) 9.17	9.17	9.17	10				
					Time 1225	1227	1227	850				
1. Relinquished by: (Signature)		Date/Time		2. Received by: (Signature)		SAMPLE CONDITION UPON RECEIPT IN LAB						
<i>Josh Weaver</i>		12/20		<i>Josh Weaver</i>		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# 6						
3. Relinquished by: (Signature)		Date/Time		4. Received by: (Signature)		FOR COMPLETION BY LAB ONLY						
<i>Josh Weaver</i>		12/20		<i>Josh Weaver</i>		Revision 3 14446						



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

03 January 2024

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

Project: Lagoon Discharge Sample
Project Number: December 2023
SDG Number: 2312670

Enclosed are the results of analyses for samples received by the laboratory on 27-Dec-23 14:53. 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".

Norma James
Technical Director

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03 January 2024



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 27-Dec-23 14:53

ANALYTICAL RESULTS

Lab Number: 2312670-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 12/27/23 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	13.7		12/29/23 8:05	B312612	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	4800		12/27/23 15:15	B312594	IDEXX Colilert-18
TSS	mg/L	27.5		12/28/23 16:35	B312592	SM 2540 D-2015
CBOD	mg/L	14.1		12/28/23 7:52	B312583	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2312670-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 12/27/23 11:15
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	11.3		12/27/23 11:20	B312623	SM 4500-O G-2011
pH	S.U.	7.69		12/27/23 11:15	B312621	SM 4500-H+ B-2011
Temperature	°C	10.8		12/27/23 11:15	B312622	SM 2550B-2000

Josh Weaver
 Wynne Water Utilities
 121 East Merriman
 Wynne, AR 72396
 Project: Lagoon Discharge Sample
 Project Number: December 2023
 Date Received: 27-Dec-23 14:53

QUALITY CONTROL RESULTS
Wet Chemistry -- Batch: B312583 (Water)

Prepared: 28-Dec-23 07:52 By: MB -- Analyzed: 28-Dec-23 07:52 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	104% / 87.1%	NA / NA		17.3%	

Wet Chemistry -- Batch: B312592 (Water)

Prepared: 28-Dec-23 16:35 By: MH -- Analyzed: 28-Dec-23 16:35 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	91.0% / 90.0%	NA / NA		1.10%	

Wet Chemistry -- Batch: B312594 (Water)

Prepared: 27-Dec-23 15:15 By: KJ -- Analyzed: 27-Dec-23 15:15 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	3500 MPN/100 mL	33.1%	

Wet Chemistry -- Batch: B312612 (Water)

Prepared: 29-Dec-23 08:05 By: KJ -- Analyzed: 29-Dec-23 08:05 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	87.8% / NA	93.0% / 89.5%		3.68%	

Field Analyses -- Batch: B312621 (Water)

Prepared: 27-Dec-23 09:27 By: MH -- Analyzed: 27-Dec-23 09:27 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	101% / 101%	NA / NA		0.00%	

Field Analyses -- Batch: B312622 (Water)

Prepared: 27-Dec-23 13:43 By: MH -- Analyzed: 27-Dec-23 13:43 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	14.7 °C	0.00%	

Field Analyses -- Batch: B312623 (Water)

Prepared: 27-Dec-23 13:47 By: MH -- Analyzed: 27-Dec-23 13:47 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	6.67 mg/L	0.299%	

03 January 2024

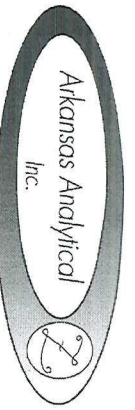


Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 27-Dec-23 14:53

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%)		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 (routine)		TEST PARAMETERS								
Field Signatures: <i>Josh Weaver</i>		Sampler(s) Printed: <i>Josh Weaver</i>		Preservative Code: P		Bottle Type Code								
Field Signatures: <i>Josh Weaver</i>		Sampler(s) Printed: <i>Josh Weaver</i>		P		G = Glass; P = Plastic V = Septum; A = Amber								
Field Number	SAMPLE COLLECTION Dates	Time/s	Grab	Comp	Number of Bottles	Sample Matrix	IDENTIFICATION/ DESCRIPTION	SAMPLE	Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform	Arkansas Analytical Work Order Number:	
	12/27	10:40	X		3	Water	Lagoon Discharge Grab (Wynne)		X	X	X	X	2312670	
	12/27	11:15	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X				02	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 12/27/23														
Sample	Duplicate	QC	QC Duplicate											
pH (S.U.)	7.69	7.67	7.66	7.66										
Time	11:15	11:18	9:25	9:27										
Temperature (°C)	10.8	10.8												
Time	11:15	11:18												
Dissolved Oxygen (mg/L)	11.30	11.33												
Time	11:20	11:22												
Field Calibration Record -- DATE: 12/27/23														
pH / Time	D.O.		Chlorine		Time		QC		Time					
	4				1									
	7				2									
	10													
	9.15													
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: 1 °C		
6. TEMPERATURE GUN ID: HHT# 5														
REMARKS / SAMPLE COMMENTS														
1. Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time 12/27														
2. Received by: (Signature) <i>Josh Weaver</i> Date/Time 12/27/23														
3. Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time 12/27/23														
4. Received by lab: (Signature) <i>Syd Dawy</i>														
Revised: 1/4/24														



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

13 December 2023

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

Project: Lagoon Discharge Sample
Project Number: December 2023
SDG Number: 2312120

Enclosed are the results of analyses for samples received by the laboratory on 06-Dec-23 15:30. 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	3.0°C

Sincerely,

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

Norma James
Technical Director

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Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 06-Dec-23 15:30

ANALYTICAL RESULTS

Lab Number: 2312120-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 12/6/23 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	16.0		12/8/23 8:10	B312142	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	920		12/6/23 15:45	B312118	IDEXX Colilert-18
TSS	mg/L	20.6		12/8/23 9:35	B312151	SM 2540 D-2015
CBOD	mg/L	12.3		12/8/23 7:06	B312134	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2312120-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 12/6/23 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	9.95		12/6/23 11:25	B312187	SM 4500-O G-2011
pH	S.U.	7.73		12/6/23 11:20	B312185	SM 4500-H+ B-2011
Temperature	°C	10.4		12/6/23 11:20	B312186	SM 2550B-2000

Josh Weaver
 Wynne Water Utilities
 121 East Merriman
 Wynne, AR 72396
 Project: Lagoon Discharge Sample
 Project Number: December 2023
 Date Received: 06-Dec-23 15:30

QUALITY CONTROL RESULTS
Wet Chemistry -- Batch: B312118 (Water)

Prepared: 06-Dec-23 15:45 By: KJ -- Analyzed: 06-Dec-23 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	ND MPN/100 mL	NA	

Wet Chemistry -- Batch: B312134 (Water)

Prepared: 08-Dec-23 07:06 By: MB -- Analyzed: 08-Dec-23 07:06 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	117% / 118%	NA / NA		0.500%	

Wet Chemistry -- Batch: B312142 (Water)

Prepared: 08-Dec-23 08:10 By: KJ -- Analyzed: 08-Dec-23 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	84.4% / NA	86.9% / 85.9%		1.12%	

Wet Chemistry -- Batch: B312151 (Water)

Prepared: 08-Dec-23 09:35 By: MH -- Analyzed: 08-Dec-23 09:35 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	87.0% / 93.0%	NA / NA		6.67%	

Field Analyses -- Batch: B312185 (Water)

Prepared: 06-Dec-23 09:02 By: MH -- Analyzed: 06-Dec-23 09:02 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: B312186 (Water)

Prepared: 06-Dec-23 14:13 By: MH -- Analyzed: 06-Dec-23 14:13 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	16.5 °C	0.00%	

Field Analyses -- Batch: B312187 (Water)

Prepared: 06-Dec-23 14:16 By: MH -- Analyzed: 06-Dec-23 14:16 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	8.07 mg/L	0.124%	

13 December 2023

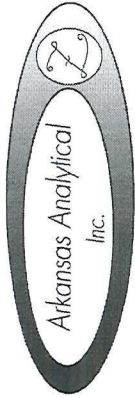


Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2023
Date Received: 06-Dec-23 15:30

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

Form containing sections: CLIENT INFORMATION, Project Description, Turnaround Time, Preservation Codes, TEST PARAMETERS, and ONSITE MEASUREMENTS. Includes handwritten signatures, dates (12/16, 12/16/23), and numerical data for pH, temperature, and dissolved oxygen.

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: 33 °C
6. TEMPERATURE GUN ID: HHT#

REMARKS / SAMPLE COMMENTS
Field Calibration Record -- DATE: 12/16/23
pH / Time D.O.
Time QC
Slope

FOR COMPLETION BY LAB ONLY