



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

10 December 2024

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

Project: Lagoon Discharge Sample
Project Number: December 2024
SDG Number: 2412074

Enclosed are the results of analyses for samples received by the laboratory on 04-Dec-24 16:04. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
Temperature on Receipt	4.0°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.

10 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 04-Dec-24 16:04



CASE NARRATIVE

Sample Delivery Group – 2412074

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

10 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 04-Dec-24 16:04



ANALYTICAL RESULTS

Lab Number:		2412074-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		12/4/24 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	7.32		12/6/24 13:06	B412107	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	12/4/24 16:10	B412097	IDEXX Colilert-18	
TSS	mg/L	14.0		12/6/24 11:30	B412108	SM 2540 D-2015	
CBOD	mg/L	9.30		12/5/24 6:52	B412064	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2412074-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		12/4/24 11:32					
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	11.1		12/4/24 11:32	B412178	SM 4500-O G-2011	
pH	S.U.	7.86		12/4/24 11:32	B412176	SM 4500-H+ B-2011	
Temperature	°C	8.0		12/4/24 11:32	B412177	SM 2550B-2000	

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B412064 (Water)

Prepared: 05-Dec-24 06:52 By: MB -- Analyzed: 05-Dec-24 06:52 By: CGF

<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	120% / 127%	NA / NA		5.47%	

Wet Chemistry -- Batch: B412097 (Water)

Prepared: 04-Dec-24 15:00 By: KJ -- Analyzed: 04-Dec-24 15:00 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	88 MPN/100 mL	0.452%	

Wet Chemistry -- Batch: B412107 (Water)

Prepared: 06-Dec-24 08:16 By: KJ -- Analyzed: 06-Dec-24 08:16 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	96.0% / NA	97.8% / 98.4%		0.551%	

Wet Chemistry -- Batch: B412108 (Water)

Prepared: 06-Dec-24 11:30 By: MH -- Analyzed: 06-Dec-24 11:30 By: BH

<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	96.0% / 88.0%	NA / NA		8.70%	

Field Analyses -- Batch: B412176 (Water)

Prepared: 04-Dec-24 08:23 By: MH -- Analyzed: 04-Dec-24 08:23 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>
pH (Field)	NA	100% / 100%	NA / NA		0.00%	

Field Analyses -- Batch: B412177 (Water)

Prepared: 04-Dec-24 14:57 By: MH -- Analyzed: 04-Dec-24 14:57 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	15.0 °C	0.669%	

Field Analyses -- Batch: B412178 (Water)

Prepared: 04-Dec-24 14:57 By: MH -- Analyzed: 04-Dec-24 14:57 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	9.33 mg/L	0.537%	

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Project Number: December 2024
Date Received: 04-Dec-24 16:04



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, reading "Norma James", 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					4. Thiosulfate for Dechlorination						
121 East Merriman				Weekly Sample		2 Day (50%)	2. Sulfuric Acid (H ₂ SO ₄), pH < 2					5. Hydrochloric Acid(HCl)						
Wynne, AR 72396				Reporting Information		3 Day (25%)	3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12						
				Telephone: 870-238-2751		5 Day (Routine)	TEST PARAMETERS											
Attn: Josh Weaver				Fax: 870-238-2044		Preservative Code:	1	1	1,2	1,4							Bottle Type Code	
				Email: jweaver.wwu@gmail.com		Bottle Type:	P	P	P	P							G = Glass; P = Plastic V = Septum; A = Amber	
Sampler(s) Signature				Sampler(s) Printed: Josh Weaver														
Field Number	SAMPLE COLLECTION Date/s Time/s		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform					Arkansas Analytical Work Order Number:	
	12/4	10 AM	X		3	Water	Lagoon Discharge Grab (Wynne)		X	X	X						2412074	
	12/4/24	1132	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)	X									01	
																	02	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 12/4/24																		
							Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 12/4/24							
							pH (S.U.)	783	778	703	703	pH / Time		D.O.		Chlorine		
							Time	1132	1135	822	823	4		Time		QC Time		
							Temperature (°C)	8.0	8.0	18.3	18.4	7		Slope		1		
							Time	1132	1135	822	823	10				2		
							Dissolved Oxygen (mg/L)	1109	1115			820						
							Time	1132	1135									
1. Relinquished by: (Signature)			Date/Time			2. Received by: (Signature)			SAMPLE CONDITION UPON RECEIPT IN LAB					REMARKS / SAMPLE COMMENTS				
[Signature]			12/4			[Signature]			1. CUSTODY SEALS: Yes ___ No ___									
						[Signature]			2. CONTAINERS CORRECT: Yes ___ No ___									
									3. COC/LABELS AGREE: Yes ___ No ___									
3. Relinquished by: (Signature)			Date/Time			4. Received by lab: (Signature)			4. RECEIVED ON ICE: Yes ___ No ___									
[Signature]			1604			[Signature]			5. TEMPERATURE ON RECEIPT: 4 °C									
			12/4/24			Natascha Howard			6. TEMPERATURE GUN ID: HHT# 5									
Revision 3 1/4/16																		
FOR COMPLETION BY LAB ONLY																		



8100 National Dr. - Little Rock, AR 72209
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18 December 2024

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

Project: Lagoon Discharge Sample
Project Number: December 2024
SDG Number: 2412273

Enclosed are the results of analyses for samples received by the laboratory on 11-Dec-24 15:05. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
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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18 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 11-Dec-24 15:05



CASE NARRATIVE

Sample Delivery Group – 2412273

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).

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

18 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 11-Dec-24 15:05



ANALYTICAL RESULTS

Lab Number:		2412273-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		12/11/24 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	10.4		12/13/24 8:13	B412267	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	12/11/24 15:15	B412250	IDEXX Colilert-18	
TSS	mg/L	16.5		12/13/24 14:32	B412287	SM 2540 D-2015	
CBOD	mg/L	17.5	B-04	12/12/24 6:42	B412233	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2412273-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		12/11/24 11:37					
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	10.6		12/11/24 11:37	B412335	SM 4500-O G-2011	
pH	S.U.	7.74		12/11/24 11:37	B412333	SM 4500-H+ B-2011	
Temperature	°C	11.0		12/11/24 11:37	B412334	SM 2550B-2000	

18 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 11-Dec-24 15:05



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B412233 (Water)

Prepared: 12-Dec-24 06:42 By: CGF -- Analyzed: 12-Dec-24 06:42 By: CGF

<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% / 115%	NA / NA		1.77%	

Wet Chemistry -- Batch: B412250 (Water)

Prepared: 11-Dec-24 15:00 By: KJ -- Analyzed: 11-Dec-24 15:00 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	86 MPN/100 mL	24.5%	

Wet Chemistry -- Batch: B412267 (Water)

Prepared: 13-Dec-24 08:13 By: KJ -- Analyzed: 13-Dec-24 08:13 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	96.8% / NA	101% / 103%		1.96%	

Wet Chemistry -- Batch: B412287 (Water)

Prepared: 13-Dec-24 14:32 By: MH -- Analyzed: 13-Dec-24 14:32 By: BH

<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	92.0% / 94.0%	NA / NA		2.15%	

Field Analyses -- Batch: B412333 (Water)

Prepared: 11-Dec-24 08:21 By: MH -- Analyzed: 11-Dec-24 08:21 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		0.285%	

Field Analyses -- Batch: B412334 (Water)

Prepared: 11-Dec-24 13:50 By: MH -- Analyzed: 11-Dec-24 13:50 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	15.0 °C	0.00%	

Field Analyses -- Batch: B412335 (Water)

Prepared: 11-Dec-24 13:50 By: MH -- Analyzed: 11-Dec-24 13:50 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	8.21 mg/L	0.607%	

18 December 2024

Josh Weaver
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121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 11-Dec-24 15:05



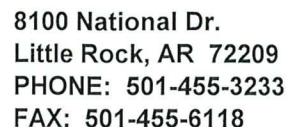
QUALIFIER(S)

*B-04: Test replicates show a >30% difference between the highest and lowest values
*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


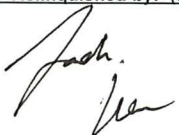



All Analysis performed according to EPA approved methodology when available :
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

A handwritten signature in blue ink, reading "Norma James", is positioned above a horizontal line.

Reviewed by: _____
Norma James
Technical Director



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					4. Thiosulfate for Dechlorination						
121 East Merriman			Weekly Sample			2 Day (50%)		2. Sulfuric Acid (H ₂ SO ₄), pH < 2					5. Hydrochloric Acid(HCl)						
Wynne, AR 72396			Reporting Information			3 Day (25%)		3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12						
Attn: Josh Weaver			Telephone: 870-238-2751			5 Day (Routine)		TEST PARAMETERS										Bottle Type Code	
			Fax: 870-238-2044			Preservative Code:		1	1	1,2	1,4							G = Glass; P = Plastic	
			Email: jweaver.wvu@gmail.com			Bottle Type:		P	P	P	P							V = Septum; A = Amber	
Sampler(s) Signature: 			Sampler(s) Printed: Josh Weaver															Arkansas Analytical Work Order Number: 2412273	
Field Number		SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform						
		12/11	10AM	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X					01	
		12/11/24	1137	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X								02	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 12/11/24																			
								Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 12/11/24							
								pH (S.U.)	7.74	7.80	7.03	7.01	pH / Time		D.O.		Chlorine		
								Time	1137	1141	820	821			Time		QC Time		
								Temperature (°C)	11.0	11.01	19.9	19.9	4						
								Time	1137	1141	820	821	7						
								Dissolved Oxygen (mg/L)	1056	1060			10		Slope		2		
								Time	1137	1141			819						
1. Relinquished by: (Signature)		Date/Time		2. Received by: (Signature)		SAMPLE CONDITION UPON RECEIPT IN LAB						REMARKS / SAMPLE COMMENTS							
		12/11				1. CUSTODY SEALS: Yes No						Chain of Custody received by lab with White-Out on it.							
						2. CONTAINERS CORRECT: Yes No													
						3. COC/LABELS AGREE: Yes No													
						4. RECEIVED ON ICE: Yes No													
						5. TEMPERATURE ON RECEIPT: 1 °C 5													
						6. TEMPERATURE GUN ID: HHT#													
3. Relinquished by: (Signature)		Date/Time		4. Received by lab: (Signature)		FOR COMPLETION BY LAB ONLY													
		1505 12/11/24																	



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30 December 2024

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

Project: Lagoon Discharge Sample
Project Number: December 2024
SDG Number: 2412469

Enclosed are the results of analyses for samples received by the laboratory on 18-Dec-24 16:09. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
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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30 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 18-Dec-24 16:09



CASE NARRATIVE

Sample Delivery Group – 2412469

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

30 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 18-Dec-24 16:09



ANALYTICAL RESULTS

Lab Number:		2412469-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		12/18/24 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	14.1		12/20/24 8:19	B412423	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	12/18/24 16:15	B412421	IDEXX Colilert-18	
TSS	mg/L	24.0		12/23/24 8:10	B412471	SM 2540 D-2015	
CBOD	mg/L	9.40		12/19/24 9:10	B412398	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2412469-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		12/18/24 13:05					
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	10.1		12/18/24 13:05	B412469	SM 4500-O G-2011	
pH	S.U.	7.82		12/18/24 13:05	B412467	SM 4500-H+ B-2011	
Temperature	°C	16.9		12/18/24 13:05	B412468	SM 2550B-2000	

30 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 18-Dec-24 16:09



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B412398 (Water)

Prepared: 19-Dec-24 09:10 By: CGF -- Analyzed: 19-Dec-24 09:10 By: CGF

<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	121% / 113%	NA / NA		6.81%	

Wet Chemistry -- Batch: B412421 (Water)

Prepared: 18-Dec-24 15:01 By: KJ -- Analyzed: 18-Dec-24 15:01 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	15 MPN/100 mL	43.0%	

Wet Chemistry -- Batch: B412423 (Water)

Prepared: 20-Dec-24 08:19 By: KJ -- Analyzed: 20-Dec-24 08:19 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	95.5% / NA	99.3% / 99.0%		0.323%	

Field Analyses -- Batch: B412467 (Water)

Prepared: 18-Dec-24 08:32 By: MH -- Analyzed: 18-Dec-24 08:32 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		0.285%	

Field Analyses -- Batch: B412468 (Water)

Prepared: 18-Dec-24 14:57 By: MH -- Analyzed: 18-Dec-24 14:57 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	17.0 °C	0.00%	

Field Analyses -- Batch: B412469 (Water)

Prepared: 18-Dec-24 14:57 By: MH -- Analyzed: 18-Dec-24 14:57 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	8.15 mg/L	0.615%	

Wet Chemistry -- Batch: B412471 (Water)

Prepared: 23-Dec-24 08:10 By: MB -- Analyzed: 23-Dec-24 08:10 By: MB

<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	98.0% / 96.0%	NA / NA		2.06%	

30 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 18-Dec-24 16:09



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, reading "Norma James", 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					4. Thiosulfate for Dechlorination						
121 East Merriman				Weekly Sample				2 Day (50%)		2. Sulfuric Acid (H ₂ SO ₄), pH < 2					5. Hydrochloric Acid(HCl)						
Wynne, AR 72396				Reporting Information				3 Day (25%)		3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12						
Attn: Josh Weaver				Telephone: 870-238-2751				5 Day (Routine)		TEST PARAMETERS										Bottle Type Code	
				Fax: 870-238-2044				Preservative Code:		1	1	1,2	1,4						G = Glass; P = Plastic		
				Email: jweaver.wyu@gmail.com				Bottle Type:		P	P	P	P						V = Septum; A = Amber		
Sampler(s) Signature:				Sampler(s) Printed: Josh Weaver																Arkansas Analytical Work Order Number: 2412469	
Field Number	SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform									
	12/18	10 AM	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X						01			
	12/18/24	1305	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X									02			
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 12/18/24																					
		Sample		Duplicate		QC		QC Duplicate		Field Calibration Record -- DATE: 12/18/24											
		pH (S.U.)		782		786		203		201		pH / Time		D.O.		Chlorine					
		Time		1305		1310		831		832		4		Time		QC Time					
		Temperature (°C)		16.9		16.8		15.8		15.8		7		Slope		1					
		Time		1305		1310		831		832		10		Slope		2					
		Dissolved Oxygen (mg/L)		10.09		10.15															
		Time		1305		1310															
1. Relinquished by: (Signature)				Date/Time: 12/18				2. Received by: (Signature)				SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS					
												1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes ___ No									
												2. CONTAINERS CORRECT: <input checked="" type="checkbox"/> Yes ___ No									
												3. COC/LABELS AGREE: <input checked="" type="checkbox"/> Yes ___ No									
												4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes ___ No									
												5. TEMPERATURE ON RECEIPT: 1 °C									
												6. TEMPERATURE GUN ID: HHT# 5									
3. Relinquished by: (Signature)				Date/Time: 1609 12/18/24				4. Received by lab: (Signature) Jami Nelson				FOR COMPLETION BY LAB ONLY									



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

07 January 2025

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

Project: Lagoon Discharge Sample
Project Number: December 2024
SDG Number: 2412655

Enclosed are the results of analyses for samples received by the laboratory on 30-Dec-24 14:45. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
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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07 January 2025

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 30-Dec-24 14:45



CASE NARRATIVE

Sample Delivery Group – 2412655

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

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

07 January 2025

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 30-Dec-24 14:45



ANALYTICAL RESULTS

Lab Number:		2412655-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		12/30/24 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	14.2		1/2/25 9:10	B501002	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	12/30/24 14:55	B412612	IDEXX Colilert-18	
TSS	mg/L	10.0		1/2/25 14:15	B501010	SM 2540 D-2015	
CBOD	mg/L	8.60		12/31/24 7:04	B412591	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2412655-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		12/30/24 11:00					
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	8.91		12/30/24 11:00	B501031	SM 4500-O G-2011	
pH	S.U.	7.50		12/30/24 11:00	B501029	SM 4500-H+ B-2011	
Temperature	°C	13.6		12/30/24 11:00	B501030	SM 2550B-2000	

07 January 2025

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 30-Dec-24 14:45



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B412591 (Water)

Prepared: 31-Dec-24 07:04 By: CGF -- Analyzed: 31-Dec-24 07:04 By: CGF

<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% / 119%	NA / NA		6.39%	

Wet Chemistry -- Batch: B412612 (Water)

Prepared: 30-Dec-24 14:55 By: DG -- Analyzed: 30-Dec-24 14:55 By: DG

<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	22 MPN/100 mL	34.2%	

Wet Chemistry -- Batch: B501002 (Water)

Prepared: 02-Jan-25 09:10 By: KJ -- Analyzed: 02-Jan-25 09:10 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	95.0% / NA	96.0% / 97.0%		1.04%	

Wet Chemistry -- Batch: B501010 (Water)

Prepared: 02-Jan-25 14:15 By: MH -- Analyzed: 02-Jan-25 14:15 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% / 87.0%	NA / NA		2.27%	

Field Analyses -- Batch: B501029 (Water)

Prepared: 30-Dec-24 08:17 By: MH -- Analyzed: 30-Dec-24 08:17 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		0.00%	

Field Analyses -- Batch: B501030 (Water)

Prepared: 30-Dec-24 13:09 By: MH -- Analyzed: 30-Dec-24 13:09 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	16.9 °C	0.590%	

Field Analyses -- Batch: B501031 (Water)

Prepared: 30-Dec-24 13:09 By: MH -- Analyzed: 30-Dec-24 13:09 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	7.37 mg/L	0.676%	

07 January 2025

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: December 2024
Date Received: 30-Dec-24 14:45



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, reading "Norma James", is positioned above a horizontal line.

Reviewed by: _____
Norma James
Technical Director

