

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,

Norma

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

Arkansas Analytical

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

FECAL COLIFORM QUALIFIERS:

 Qualifier
 Description

 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

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: Sample Name: Date/Time Collected: Sample Matrix:	Lagooi	2412074-01 n Discharge Grab (W 12/4/24 10:00 Water	Vynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	Method
Ammonia as N	mg/L	7.32		12/6/24 13:06	B412107	SM 4500-NH3 B,D,C-2021/EPA
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: Sample Name: Date/Time Collected: Sample Matrix:	Lagoon Di	2412074-02 scharge Field Analysis (AR 12/4/24 11:32 Water	Analytical)			
Field Analyses	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	11.1		12/4/24 11:32	B412178	SM 4500-O G-2011
рН	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



Date Received: 04-Dec-24 16:04 QUALITY CONTROL RESULTS

		Wet Chemistry Bato				
	Prepared: 05-	Dec-24 06:52 By: MB /	Analyzed: 05-Dec-24 06:	52 By: CGF		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	120% / 127%	NA / NA		5.47%	
		Wet Chemistry Bato				
	Prepared: 04	4-Dec-24 15:00 By: KJ	Analyzed: 04-Dec-24 15:	00 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	88 MPN/100 mL	0.452%	
		Wet Chemistry Bato				
	Prepared: 00	δ-Dec-24 08:16 By: KJ	Analyzed: 06-Dec-24 08:	16 By: KJ		
Analyte	<u>BLK</u>	LCS / LCSD	<u>MS / MSD</u>	Dup	<u>RPD</u>	Qualifiers
Ammonia as N	<0.500 mg/L	96.0% / NA	97.8% / 98.4%		0.551%	
	Propared: 06	Wet Chemistry Bato	h: B412108 (Water) Analyzed: 06-Dec-24 11:	30 By: BH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	96.0% / 88.0%	NA / NA		8.70%	
	Prepared: 04	Field Analyses Bato	h: B412176 (Water) Analyzed: 04-Dec-24 08:	23 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA		0.00%	quannere
pri (i ieid)	ΝA	100 % / 100 %			0.00 /0	
	Dura and A	Field Analyses Bato	h: B412177 (Water) Analyzed: 04-Dec-24 14:	67 Byr ML		
			Allalyzeu. 04-Dec-24 14.	57 By. WIT		
Analuta				Dun	DDU	Qualifiera
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
<u>Analyte</u> Temperature (Field)				<u>Dup</u> 15.0 °С	<u>RPD</u> 0.669%	<u>Qualifiers</u>
	<u>BLK</u> NA	LCS / LCSD NA / NA Field Analyses Batc	<u>MS / MSD</u> NA / NA h: B412178 (Water)	15.0 °C		<u>Qualifiers</u>
	<u>BLK</u> NA	LCS / LCSD NA / NA Field Analyses Batc	M <u>S / MSD</u> NA / NA	15.0 °C		Qualifiers



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.

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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 U	tilities						Lagoon Discha	ge Sample	1 Day (100%)	1. Cool	1. Cool, 6 Degrees Centigrade				4. Thiosulfate for Dechlorination				
121 East Merriman				Weekly Sample 2 Day (50%) 2		2. Sulfuric Acid (H₂SO₄), pH < 2				5. Hydrochloric Acid(HCl)									
Wynne, AR 7239	96						Reporting Inf	ormation	3 Day (25%)	3. Nitri	ic Acid (HNO3), p	H < 2			6. Sodiı	ım Hydr	•oxide (N	aOH), pH > 12
-							Telephone: 870	-238-2751	5 Day (Routine)	>		TES	ТР	ARA	MET	ERS			Bottle Type Code
Attn: Josh Weav	/er						Fax: 870-23	8-2044	Preservative Code:	1	1	1,2	1,4						G = Glass; P = Plastic
						E	mail: jweaver.ww	u@gmail.com	Bottle Type:	Р	Р	Р	Р						V = Septum; A = Amber
Sampler(s) Signature Sampler(s) Print					Weover			Field (pH, D.O., Temperature)	TSS	<u>a</u>	Fecal Coliform			v			Arkansas Analytical Work Order Number:		
Field	SAMPLE C	OLLECTION			Number	1 1		SAMPLE		d (pl	CBOD, TSS	Ammonia	alC					1	112021
Number	Date/s	Time/s	Grab	Comp	of Bottles	Sample Matrix	IDENTIF	ICATION/ DESC	RIPTION	Fiel Ten	CB(Ami	Fec					0	412074
	12/4	10 AM	X		3	Water	Lagoon Discha	rge Grab (Wynne	e)		х	х	х						01
	121424	1132	x		0	Water	Lagoon Discha	ge Field Analysi	s (AR Analytical)	x									02
	,,,,,	20																	
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	ical [DATE	242	×						
								Sample	Duplicate	Q		QC Du							
							<u>рЦ (С II)</u>		Duplicate	7.2	0			Field (Colibro	lion Do	0.0 × d	DATE	124424
							pH (S.U.)	185	1135	73 703 Field Calibration Record DATE: 24 872 9H / Time D.O. Chlorin			,,,,						
							Time	1152			- 1	223 1821		рн /	Iime		1		Chlorine
							Temperature (°C)	0.0	8.0	18:	>			4	,	Tir	ne	QC	Time
							Time Dissolved Oxygen	1132	/135	Ser	-	823		7	/			1	
							(mg/L)	1105	1115					100		Slo	ре	2	
							Time	1132	1535					82	U	V			
1. Relinquished by	(Signature)	Date/Time		<u>2. Rec</u>	eived I	by: (Sig	<u>inature)</u>	SAMPLE C	ONDITION UPON F	RECEIPT	IN LAE	3		RE	MARK	S / SAI	MPLE	сомм	ENTS
11		12/4			(1	39		1. CUSTODY SEA	ALS:	Ye	s	No							
1 An				1	1	2,4	124	2. CONTAINERS	CORRECT:	Ye	s	No							
0 00.				X	1	14		3. COC/LABELS A	AGREE:		s								
3. Relinguished by:	(Signature)	Date/Time	0	4 Rec	eived l	hy lab		4. RECEIVED ON		Ye									
. itemiquisticu by.	Joignature	Daternine		Kec				The ansatz for the second second		1									
		604			0	Vata	sha	5. TEMPERATUR		4 °C1	5	┣							
Revision 3	>	6.4.10			0	How	and	6. TEMPERATUR		HĤT# ►									
1/4/16		77/24			627			FOR	COMPLETION BY L	AB ON	LY								



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

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,

Norma

Norma James Technical Director

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Date Received: 11-Dec-24 15:05

CASE NARRATIVE

Sample Delivery Group - 2412273

Arkansas Analytical

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:

Qualifier	Description
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.
CI-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:

Qualifier	Description
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

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: Sample Name: Date/Time Collected: Sample Matrix:	Lagoo	2412273-01 n Discharge Grab (W 12/11/24 10:00 Water	Vynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Ammonia as N	mg/L	10.4		12/13/24 8:13	B412267	SM 4500-NH3 B,D,C-2021/EPA
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: Sample Name: Date/Time Collected: Sample Matrix:	Lagoon D	2412273-02 ischarge Field Analysis (AR 12/11/24 11:37 Water	Analytical)			
Field Analyses	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Dissolved Oxygen	mg/L	10.6		12/11/24 11:37	B412335	SM 4500-O G-2011
pН	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



QUALITY CONTROL RESULTS

	Prenared: 12-I	Wet Chemistry Batc Dec-24 06:42 By: CGF	. ,	42 By: CGF		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
CBOD	<2.00 mg/L	117% / 115%	NA / NA		1.77%	duumore
		Wet Chemistry Bato	h: B412250 (Water)			
	Prepared: 1 ²	I-Dec-24 15:00 By: KJ		:00 By: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	86 MPN/100 mL	24.5%	
		Wet Chemistry Bato	· · ·			
	-	3-Dec-24 08:13 By: KJ		-		
Analyte	<u>BLK</u>	LCS / LCSD	MS / MSD	Dup	<u>RPD</u>	<u>Qualifiers</u>
Ammonia as N	<0.500 mg/L	96.8% / NA	101% / 103%		1.96%	
	Proparad: 12	Wet Chemistry Bato -Dec-24 14:32 By: MH	· · ·	·22 By: BU		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
TSS	<1.00 mg/L	92.0% / 94.0%	NA / NA		2.15%	
		Field Analyses Bato				
	Prepared: 11	-Dec-24 08:21 By: MH	Analyzed: 11-Dec-24 08:	21 By: MH		
Analyte	<u>BLK</u>	LCS / LCSD	<u>MS / MSD</u>	Dup	<u>RPD</u>	<u>Qualifiers</u>
pH (Field)	NA	100% / 100%	NA / NA		0.285%	
		Field Analyses Bato				
	Prepared: 11	-Dec-24 13:50 By: MH		50 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	Dup	<u>RPD</u>	<u>Qualifiers</u>
Temperature (Field)	NA	NA / NA	NA / NA	15.0 °C	0.00%	
	Prepared: 11	Field Analyses Bato -Dec-24 13:50 By: MH		50 By: MH		
			<u>MS / MSD</u>	Dup	RPD	Qualifiers
Analyte	<u>BLK</u>	LCS / LCSD	NIS / NISD	Dup	RPD	Quaimers



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.

ma

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 INFORM	ATION						Project Des	cription	Turnaround Time					Pres	ervatio	on Code	s:		
Wynne Water Ut	tilities						Lagoon Discha	rge Sample	1 Day (100%)	1. Cool	, 6 Degr	ees Cent	igrade			4. Thio	sulfate fo	r Dechl	orination
121 East Merrim	ian						Weekly Sa	ample	2 Day (50%)	2. Sulfu	iric Acio	I (H ₂ SO ₄)), pH < 2	2		5. Hydi	rochloric	Acid(H	CI)
Wynne, AR 7239	96						Reporting Inf	ormation	3 Day (25%)	3. Nitri	c Acid (HNO3), I	oH < 2			6. Sodiu	m Hydro	xide (N	aOH), pH > 12
							Telephone: 870)-238-2751	5 Day (Routine)	>		TES	ТР	ARA	MET				Bottle Type Code
Attn: Josh Weav	/er						Fax: 870-23	8-2044	Preservative Code:	1	1	1,2	1,4						G = Glass; P = Plastic
							Email: jweaver.ww	u@gmail.com	Bottle Type:	Р	Р	Р	Р						V = Septum; A = Amber
Sampler(s) Sign	ature 12		Sam	oler(s)	Jo 8		Weaver MA 143; (+A)	NADÍ		Field (pH, D.O., Temperature)	TSS	σ	Coliform						Arkansas Analytical Work Order Number:
Field	SAMPLE C	OLLECTION			Number	11		SAMPLE		Field (pH, Temperat	CBOD, ⁻	Ammonia	cal Co						1111122
Number	Date/s	Time/s	Grab	Comp	of Bottles	Sample Matrix	IDENTIF	ICATION/ DESC	CRIPTION	Fie Ter	CB	Am	Fecal					4	2912272
	12/11	10Am	X		3	Wate	Lagoon Discha	rge Grab (Wynn	e)		Х	Х	х						01
	12/11/24	1137	x		0	Water	Lagoon Discha	rge Field Analysi	is (AR Analytical)	х									02
	//																		
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	ical C		7.11.1	225						
								Sample	Duplicate	Q		QC Du							
							pH (S.U.)	0 11	7.80	7.7	<u> </u>	70	plicate	Field C	Colibra	tion Por	ord [1211/24
							Time	15	1114	82	E	82						DATE.	11
								1	1171	195		19.	9	рН /1	Time	D.(Chlorine
							Temperature (°C)	1.0	11.0	2.)	4		Tin	ne (20	Time
							Time Dissolved Oxygen	1157	1141	0.1)	821		7	/		1		
							(mg/L)	1056	1060					100		Slo	pe 2	2	
	`						Time	(137	1141					819	1	1		al and	
1. Relinquished by:	(Signature)	Date/Time		2. Rec	eived	by: (Si	<u>gnature)</u>	SAMPLE C	ONDITION UPON F	RECEIPT	IN LAE	3		REI	MARK	S/SAN	IPLE C	OMM	ENTS
Luch.		12/11			11	57		1. CUSTODY SEA	ALS:	Yes	sl	No							
1.					12	27/11	24	2. CONTAINERS	CORRECT:	Yes	sl	No			vv	nite-Out	on CO		
1 le						11		3. COC/LABELS A	AGREE:				C	hain c	of Cus	tody re	eceived	d by l	ab with
3. Relinguished by:	(Signature)	Date/Time		4. Rec	eived	by lab.		4. RECEIVED ON							N	/hite-O	ut on i	t.	
					C	Nat	asha												
		1505				Hou		 5. TEMPERATUR 6. TEMPERATUR 		°C HHT#	5	-			10	lhito-Ou	t on CO		
Revision 8		1505			20	- 194			COMPLETION BY L		.Y								



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

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,

Norma

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

Arkansas Analytical

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

FECAL COLIFORM QUALIFIERS:

 Qualifier
 Description

 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

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: Sample Name: Date/Time Collected: Sample Matrix:	Lagoo	2412469-01 n Discharge Grab (W 12/18/24 10:00 Water	Vynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Ammonia as N	mg/L	14.1		12/20/24 8:19	B412423	SM 4500-NH3 B,D,C-2021/EPA
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: Sample Name: Date/Time Collected: Sample Matrix:	Lagoon D	2412469-02 ischarge Field Analysis (AR 12/18/24 13:05 Water	Analytical)			
Field Analyses	<u>Units</u>	Result	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Dissolved Oxygen	mg/L	10.1		12/18/24 13:05	B412469	SM 4500-O G-2011
pН	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



QUALITY CONTROL RESULTS

		Wet Chemistry Batc				
	Prepared: 19-I	Dec-24 09:10 By: CGF	Analyzed: 19-Dec-24 09:	10 By: CGF		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	<u>MS / MSD</u>	Dup	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	121% / 113%	NA / NA		6.81%	
		Wet Chemistry Batc				
	Prepared: 18	3-Dec-24 15:01 By: KJ	Analyzed: 18-Dec-24 15:	01 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	Dup	<u>RPD</u>	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	15 MPN/100 mL	43.0%	
		Wet Chemistry Batc				
)-Dec-24 08:19 By: KJ	Analyzed: 20-Dec-24 08:			
Analyte	<u>BLK</u>	LCS / LCSD	<u>MS / MSD</u>	Dup	<u>RPD</u>	<u>Qualifiers</u>
Ammonia as N	<0.500 mg/L	95.5% / NA	99.3% / 99.0%		0.323%	
	Prenared: 18	Field Analyses Batc	h: B412467 (Water) Analyzed: 18-Dec-24 08:	32 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA	_	0.285%	
	Prepared: 18	Field Analyses Batc -Dec-24 14:57 Bv: MH	h: B412468 (Water) Analyzed: 18-Dec-24 14:	57 Bv: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	17.0 °C	0.00%	
		Field Analyses Batc	h: B412469 (Water)			
	Prepared: 18	-Dec-24 14:57 By: MH	Analyzed: 18-Dec-24 14:	57 By: MH		
Analyte	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	8.15 mg/L	0.615%	
	Duon ouo di 00	Wet Chemistry Batc -Dec-24 08:10 Bv: MB	h: B412471 (Water) Analyzed: 23-Dec-24 08:	10 By: MB		
	Prepared: 23					
Analyte	Prepared: 23 BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers



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.

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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 INFORM	MATION						Project Des	cription	Turnaround Time					Pres	ervatio	on Code	s:		
Wynne Water Ut	tilities						Lagoon Dischar	ge Sample	1 Day (100%)	1. Cool	, 6 Degre	ees Centi	igrade			4. Thio	sulfate fo	or Dech	lorination
121 East Merrim	nan						Weekly Sa	mple	2 Day (50%)	2. Sulfu	iric Acid	(H ₂ SO ₄)), pH < 2			5. Hydi	rochloric	Acid(H	íCl)
Wynne, AR 7239	96						Reporting Info	ormation	3 Day (25%)	3. Nitri	c Acid (l	HNO₃), p	oH < 2			6. Sodiu	ım Hydr	oxide (N	aOH), pH > 12
							Telephone: 870	-238-2751	5 Day (Routine)	>		TES	ТР	ARA	MET	ERS			Bottle Type Code
Attn: Josh Weav	ver						Fax: 870-23	8-2044	Preservative Code:	1	1	1,2	1,4						G = Glass; P = Plastic
						E	mail: jweaver.ww u	u@gmail.com	Bottle Type:	Р	Р	Р	Р						V = Septum; A = Amber
Sampler(s) Sign	ature		Sam	pler(s)) Print	Jos ed:	h Weaver)A-DI		Field (pH, D.O., Temperature)	TSS	<u>.</u>	Fecal Coliform						Arkansas Analytical Work Order Number:
Field		OLLECTION			Number of	Sample		SAMPLE		eld (p	CBOD, TSS	Ammonia	cal C						24/24/09
Number	Date/s	Time/s	Grab	Comp	Bottles	Matrix	IDENTIF	CATION/ DESC	RIPTION	Te	Ü	An	Le Le						10110101
	12/18	IDAM	X		3	Water	Lagoon Dischar	ge Grab (Wynne	e)		Х	Х	Х						01
	(2,18,24	1305	X		0	Water	Lagoon Dischar	ge Field Analysi	s (AR Analytical)	X									02
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	ical D	DATE:	218	24						
								Sample	Duplicate	Q		QC Du							
							pH (S.U.)	182	786	20		201		Field (Calibra	tion Red	cord	DATE	12/1824
							Time	1324	1311)	83)	832		рН /'		D.(Chlorine
							Temperature (°C)	16.9	16.8	15		15.8		4	1	Tin	ne	QC	Time
							Time	1305	1310	831		532		7	11		1	1	
							Dissolved Oxygen (mg/L)	1225	1015	- 11	- 4			10	V	\$10	ne	2	
							Time	1305	(310						28				
1. Relinquished by:	: (Signature)	Date/Time		2. Rec	ceived b	oy: (Sig	(nature)	SAMPLE C	ONDITION UPON F	RECEIPT	IN LAE	3		RE	MARK	S / SAN	IPLE (COMM	ENTS
Hart		12/18			13	18		1. CUSTODY SEA	ALS:	Yes	s!	No							
In					21	18L	24	2. CONTAINERS	CORRECT:	Yes	s 1	No							
. /				K	é	-		3. COC/LABELS A		Yes									
3. Relinguished by:	(Signature)	Date/Time		4. Rec	eived b	y lab	(Signature)	4. RECEIVED ON	ICE:	Yes	st	No							
	8	11.9						5. TEMPERATUR	E ON RECEIPT:	\ °C .	_								
1	\supset	1609 1218,24			ſ	Vel	son	6. TEMPERATUR	E GUN ID:	ннт#	0	<i>*</i>							
Revision 3 1/4/16		121829						FOR	COMPLETION BY I		Y								



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,

Norma

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

Arkansas Analytical

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

QUALIFIERS: Qualifier Description 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

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



Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoo	2412655-01 n Discharge Grab (W 12/30/24 10:00 Water	/ynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Ammonia as N	mg/L	14.2		1/2/25 9:10	B501002	SM 4500-NH3 B,D,C-2021/EPA
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: Sample Name: Date/Time Collected: Sample Matrix:	Lagoon D	2412655-02 ischarge Field Analysis (AR 12/30/24 11:00 Water	Analytical)			
Field Analyses	<u>Units</u>	Result	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Dissolved Oxygen	mg/L	8.91		12/30/24 11:00	B501031	SM 4500-O G-2011
pН	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

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

	Prepared: 31-I	Wet Chemistry Bate Dec-24 07:04 By: CGF	ch: B412591 (Water) Analyzed: 31-Dec-24 07:	04 By: CGF		
<u>Analyte</u> CBOD	<u>BLK</u> <2.00 mg/L	<u>LCS / LCSD</u> 111% / 119%	<u>MS / MSD</u> NA / NA	<u>Dup</u>	<u>RPD</u> 6.39%	Qualifiers
	Prepared: 30	Wet Chemistry Bate	ch: B412612 (Water) Analyzed: 30-Dec-24 14:	55 By: DG		
Analyte	BLK	LCS / LCSD	<u>MS / MSD</u>	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	22 MPN/100 mL	34.2%	
	Prepared: 0	Wet Chemistry Bate	ch: B501002 (Water) Analyzed: 02-Jan-25 09: [∞]	10 Bv: K.I		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	95.0% / NA	96.0% / 97.0%		1.04%	
	Prepared: 02	Wet Chemistry Bate -Jan-25 14:15 By: MH	ch: B501010 (Water) Analyzed: 02-Jan-25 14: [.]	15 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
TSS	<1.00 mg/L	89.0% / 87.0%	NA / NA		2.27%	
	Prepared: 30	Field Analyses Bate -Dec-24 08:17 Bv: MH	ch: B501029 (Water) Analyzed: 30-Dec-24 08:	17 Bv: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA		0.00%	
		Field Analyses Bate				
			Analyzed: 30-Dec-24 13:			0 110
<u>Analyte</u> Temperature (Field)	<u>BLK</u> NA	LCS / LCSD NA / NA	<u>MS / MSD</u> NA / NA	<u>Dup</u> 16.9 °С	<u>RPD</u> 0.590%	<u>Qualifiers</u>
	Prepared: 30	Field Analyses Bate -Dec-24 13:09 By: MH	ch: B501031 (Water) Analyzed: 30-Dec-24 13:	09 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.37 mg/L	0.676%	



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.

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Reviewed by:

Norma James Technical Director

			NLY	LAB O	FOR COMPLETION BY LAB ONLY					Lohula 1		Revision 3
			5	HHT# 5	RE GUN ID:	6. TEMPERATURE GUN ID	Nelson	Ne		14/200	\int	/
~			(°	2	RE ON RECEIPT:	5. TEMPERATURE ON RECEIPT:		L		- UNICA		
		No	.Yes	1	ICE:	4. RECEIVED ON ICE:	Received by lab: (Signature)	Received by la	4.	Date/Time		3. Relinquished by: (Signature)
-		No	.Yes	Ļ	AGREE:	3. COC/LABELS AGREE:	1 may	nt.				V
		No	Yes	ţ	CORRECT:	2. CONTAINERS CORRECT:		172			7	Ilal
		No	Yes	X	ALS:	1. CUSTODY SEALS:	1	[1]		12/30		11
REMARKS / SAMPLE COMMENTS	REN	ß	PT IN LAB	RECE	SAMPLE CONDITION UPON RECEI	SAMPLE C	(Signature)	Received by: (Signature)	2.	Date/Time		. Relinquished by: (Signature)
	Siz	ľ			1104	Time 1100						
Slope 2	10 5				1984	1						
1	7	218	6	Ø.	1164	Time 1100	2 2 2 2 3					
Time QC Time	4	hil	0	12.	13.2	(°C) 13.6	Temperature (°C)					
Time D.O. Chlorine	pH /T	817	6	5	1104	Time 1160						
Field Calibration Record DATE:/2/	Field Ca	203	S.	20	746	.u.) 750	pH (S.U.)					s. P
	olicate	QC Duplicate	QC		Duplicate	Sample						
	F	1230	DATE	tical	Arkansas Analy	ONSITE MEASUREMENTS by Arkansas Analytical DATE:/23/24	ONSITE MI					
											, // ,	
				×	is (AR Analytica	Lagoon Discharge Field Analysis (AR Analytical)	ter Lagoon Dis	0 Water	×	llon	123024	
	×	×	×		e)	Water Lagoon Discharge Grab (Wynne	ter Lagoon Dis	3 Wa	×	10Am	c2/32	
2	Feca			Field	CRIPTION	IDENTIFICATION/ DESCRIPTION		of Sample Matrix	Grab Comp	Time/s	Date/s	Number
	al Co	nonia	DD, T	d (p⊢ npera		SAMPLE	1.11.201	Number		OLLECTION	SAMPLE COLLECTION	Field
Order Number.	lifor					NA.	p Curily	Sampler(s) Printed:	Sampler		nature	Sampler(s) Signature
Arkansas Analytical Work	m		.)	1			Josh Wear	Jos)	Un	Jose
V = Septum; A = Amber	v	ν	P	<u>®</u>	Bottle Type:	Email: jweaver.wwu@gmail.com	Email: jweaver				7	
G = Glass; P = Plastic	1,4	1,2	_		Preservative Code:	Fax: 870-238-2044	Fax: 87				aver	Attn: Josh Weaver
-	T PARAME	TES		Μ	5 Day (Routine)	Telephone: 870-238-2751	Telephone:					
6. Sodium Hydroxide (NaOH), pH >	H < 2	3. Nitric Acid (HNO ₃), pH < 2	ric Acid	3. Nit	3 Day (25%)	Reporting Information	Reporting				396	Wynne, AR 72396
5. Hydrochloric Acid(HCl)	pH < 2	2. Sulfuric Acid (H ₂ SO ₄), pH < 2	lfuric Aci	2. Sul	2 Day (50%)	Weekly Sample	Weekl				nan	121 East Merriman
4. Thiosulfate for Dechlorination	grade	1. Cool, 6 Degrees Centigrade	ol, 6 Deg	1. Co	1 Day (100%)	Lagoon Discharge Sample	Lagoon Dis				Jtilities	Wynne Water Utilities
Preservation Codes:	Prese				Turnaround Time	Project Description	Project I				MATION	CLIENT INFORMATION
CUSTODY RECORD	TOD	S		N	CHAIN OF	СН		Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118	Little Rock, AR 722 PHONE: 501-455-3: FAX: 501-455-6118	PHO FAX:	Arkansas Analytical Inc.	Arkansa
								II Ur.	8'IUU NATIONAI Dr.			