

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

13 November 2024

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

Project: Lagoon Discharge Sample Project Number: November 2024

SDG Number: 2411110

Enclosed are the results of analyses for samples received by the laboratory on 06-Nov-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	<u> </u>
Received On Ice	~
Temperature on Receipt	3.0°C

Sincerely,

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.

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 06-Nov-24 15:05



CASE NARRATIVE

Sample Delivery Group – 2411110

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

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 06-Nov-24 15:05



ANALYTICAL RESULTS

Lab Number: 2411110-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/6/24 10:00 Water

Sample Matrix:

Wet Chemistry	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Ammonia as N	mg/L	4.49		11/7/24 8:25	B411105	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/6/24 15:00	B411111	IDEXX Colilert-18
TSS	mg/L	6.50		11/7/24 16:30	B411099	SM 2540 D-2015
CBOD	mg/L	2.64		11/7/24 7:01	B411101	SM 5210B-2016

ANALYTICAL RESULTS

2411110-02 Lab Number:

Lagoon Discharge Field Analysis (AR Analytical) Sample Name:

Date/Time Collected: 11/6/24 11:40

Water Sample Matrix:

<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	6.61		11/6/24 11:40	B411176	SM 4500-O G-2011
рН	S.U.	7.45		11/6/24 11:40	B411174	SM 4500-H+ B-2011
Temperature	°C	20.6		11/6/24 11:40	B411175	SM 2550B-2000

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 06-Nov-24 15:05





	Propared: 07	Wet Chemistry Bate	ch: B411099 (Water) Analyzed: 07-Nov-24 16:	30 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	90.0% / 94.0%	NA / NA	<u> </u>	4.35%	Quanners
100	11.00 mg/L	00.070 7 01.070	700 / 100		1.0070	
		Wet Chemistry Bate				
	-	-Nov-24 07:01 By: MB	Analyzed: 07-Nov-24 07:	01 By: MB		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
CBOD	<2.00 mg/L	118% / 128%	NA / NA		7.90%	
		Wet Chemistry Bate	` '			
	-	_	Analyzed: 07-Nov-24 08:	_		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Ammonia as N	<0.500 mg/L	95.3% / NA	97.3% / 97.9%		0.518%	
		Wet Chemistry Bat	ch: B411111 (Water)			
	Prepared: 06	5-Nov-24 15:00 By: KJ	Analyzed: 06-Nov-24 15:	00 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	1700 MPN/100 mL	71.9%	
	Prepared: 06	Field Analyses Bate	ch: B411174 (Water) Analyzed: 06-Nov-24 09:	05 Bv: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA		0.00%	<u>quamioro</u>
pri (i iola)	177	10070 / 10070	1000		0.0070	
	Dronorodi 06	Field Analyses Bate	ch: B411175 (Water) Analyzed: 06-Nov-24 13:	50 D.v. MU		
	-		-	Dup	RPD	Qualifiers
Amalada		LCS / LCSD	MS / MSD	<u> </u>	KPD	Qualifiers
Analyte Temperature (Field)	BLK NA		NIA / NIA	21.4.00	0.4669/	
Analyte Temperature (Field)	NA	NA / NA	NA / NA	21.4 °C	0.466%	
	NA	NA / NA Field Analyses Bate	ch: B411176 (Water)		0.466%	
	NA	NA / NA Field Analyses Bate			0.466% RPD	Qualifiers

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 06-Nov-24 15:05



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.

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

						7			1	,									
CLIENT INFORM	MATION		8			<u> </u>	Project Des	cription	Turnaround Time					Pres	ervatio	n Code	s:		
Wynne Water U	tilities						Lagoon Dischar	ge Sample	1 Day (100%)	1. Cool	6 Degre	es Centi	grade			4. Thiosulfate for Dechlorination			
121 East Merrim	nan						Weekly Sa	ample	2 Day (50%)	2. Sulfu	2. Sulfuric Acid (H₂SO₄), pH < 2					5. Hydrochloric Acid(HCl)			
Wynne, AR 7239	96						Reporting Information		3 Day (25%)	3. Nitri	3. Nitric Acid (HNO ₃), pH < 2				6. Sodium Hydroxide (NaOH), pH > 12		лаОН), pH > 12		
							Telephone: 870	-238-2751 (5 Day (Routine)	>		TES	T P	ARA	MET	ERS Bottle Type C			Bottle Type Code
Attn: Josh Weav	ver						Fax: 870-23	8-2044	Preservative Code:	1	1	1,2	1,4						G = Glass; P = Plastic
			(6)			E	mail: jweaver.ww ı	u@gmail.com	Bottle Type:	Р	Р	Р	Р						V = Septum; A = Amber
Sampler(s) Sign	I fla		Sami				20.00	2×407		D.O., ire)	S	-	orm						2411110 Arkansas Analytical Work Order Number:
	/		Cam	1		leu.	d: MAHD; HADXADI				CBOD, TSS	nia	Fecal Coliform						Order Namber.
Field	200 S. 500	DLLECTION			Number of	Sample	SAMPLE			Field (pH, D.O Temperature)	30D	Ammonia	ca						2411110
Number	Date/s	Time/s	Grab	Comp	Bottles	Matrix	IDENTIF	ICATION/ DESC	CRIPTION	iğ P	5	Ą	8						-11110
	11/Le	loam	X		3	Water	Lagoon Dischar	ge Grab (Wynn	e)		Χ	Χ	Χ						01
	14624	1140	Х		0	Water	Lagoon Dischar	ge Field Analys	is (AR Analytical)	X									02
	, ,												7						
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	tical D	ATE:	116	24						
								Sample	Duplicate	Q		QC Du							
							pH (S.U.)	711	740		,	20)		Fiold (Calibrat	tion Do	cord	DATE	11,624
							Time	1140		201		90						DATE	1//
				$\ - \ $					200	903	/	70		pH /	rime		.O.		Chlorine
				\vdash			Temperature (°C)	1	20.7	16:		16.1	1	4		Tir	m e	QC	Time
							Time Dissolved Oxygen	440	1145	903	,	905		7	/	_/		1	
							(mg/L)	661	65%					10 🔰		SIC	рре	2	
							Time	1140	1145					85	9				
1. Relinquished by	: (Signature)	Date/Time	- 1	2. Rec	ceived	by: (Si	gnature)	SAMPLE C	ONDITION UPON F	RECEIPT	IN LAE	3		RE	MARK	S/SA	MPLE	COMIV	IENTS
11.10		H/Le			1	150	1	1. CUSTODY SEA	ALS:	Yes	si	No							
		1			11	16,2	4	2. CONTAINERS	CORRECT:	Yes		No							
1 lm				1		4		3. COC/LABELS											
0 Della	. (0:	D - 4 - 17'		-						Yes		l							
Relinquished by	: (Signature)	Date/Time		4. Rec	eived	by lab:	sna	4. RECEIVED ON		Yes	·I	No							
		1600				4		5. TEMPERATUR	E ON RECEIPT:	3 ∘c	5								
1		11/2/2/1				OUT	ra	6. TEMPERATUR	E GUN ID:	HHT#	V								
Revision 3		11/0/09		1				FOR	COMPLETION BY I	AB ON	Υ								



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

21 November 2024

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

Project: Lagoon Discharge Sample Project Number: November 2024

SDG Number: 2411282

Enclosed are the results of analyses for samples received by the laboratory on 13-Nov-24 17:33. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	•
Containers Correct	~
COC/Labels Agree	<u> </u>
Received On Ice	~
Temperature on Receipt	2.0°C

Sincerely,

Norma James

Technical Director

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Wynne, AR 72396

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 13-Nov-24 17:33



Sample Delivery Group - 2411282

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

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 13-Nov-24 17:33



ANALYTICAL RESULTS

Lab Number: 2411282-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/13/24 10:00

Sample Matrix: Water

Wet Chemistry	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	7.89		11/14/24 8:21	B411267	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/13/24 17:45	B411293	IDEXX Colilert-18
TSS	mg/L	17.5		11/14/24 16:02	B411289	SM 2540 D-2015
CBOD	mg/L	5.28	B-01	11/15/24 7:00	B411294	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2411282-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 11/13/24 12:51

Sample Matrix: Water

Field Analyses	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	7.69		11/13/24 12:51	B411364	SM 4500-O G-2011
рН	S.U.	7.76		11/13/24 12:51	B411362	SM 4500-H+ B-2011
Temperature	°C	21.0		11/13/24 12:51	B411363	SM 2550B-2000

Arkansas Analytical Inc.

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

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 13-Nov-24 17:33

QUALITY CONTROL RESULTS

		Wet Chemistry Bato	h: B411267 (Water)			
	Prepared: 14	I-Nov-24 08:21 By: KJ	• •	:21 By: KJ		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	94.3% / NA	102% / 103%		0.882%	
	Propared: 14	Wet Chemistry Batc -Nov-24 16:02 By: MH		·02 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	92.0% / 90.0%	NA / NA	===	2.20%	quamoro
	Propared: 13	Wet Chemistry Bato 3-Nov-24 15:33 By: KJ	` ,	:33 Bv: K I		
Analyte_	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100 mL	NA	Qualificis
Analyte CBOD	Prepared: 15-I BLK <2.00 mg/L	Nov-24 07:00 By: CGF LCS / LCSD 124% / 119%	Analyzed: 15-Nov-24 07 <u>MS / MSD</u> NA / NA	:00 By: CGF <u>Dup</u>	RPD 4.61%	Qualifiers
		Field Analyses Bato	•			
		-Nov-24 09:02 By: MH		Dup		
		166/1660	MS / MSD			0
Analyte pH (Field)	<u>BLK</u> NA	<u>LCS / LCSD</u> 100% / 100%	NA / NA	<u>545</u>	<u>RPD</u> 0.00%	Qualifiers
<u> </u>	NA	100% / 100% Field Analyses Bato	NA / NA h: B411363 (Water)		· · · · · · · · · · · · · · · · · · ·	Qualifiers
pH (Field)	NA Prepared: 13	100% / 100% Field Analyses Batc -Nov-24 15:23 By: MH	NA / NA h: B411363 (Water) Analyzed: 13-Nov-24 15	:23 By: MH	0.00%	
<u> </u>	NA	100% / 100% Field Analyses Bato	NA / NA h: B411363 (Water)		· · · · · · · · · · · · · · · · · · ·	Qualifiers Qualifiers
pH (Field) Analyte	Prepared: 13 BLK NA	Field Analyses Bato-Nov-24 15:23 By: MH LCS / LCSD NA / NA Field Analyses Bato	NA / NA h: B411363 (Water) Analyzed: 13-Nov-24 15 MS / MSD NA / NA h: B411364 (Water)	:23 By: MH <u>Dup</u> 19.7 °C	0.00% RPD	
pH (Field) Analyte	Prepared: 13 BLK NA	100% / 100% Field Analyses Bato -Nov-24 15:23 By: MH LCS / LCSD NA / NA	NA / NA h: B411363 (Water) Analyzed: 13-Nov-24 15 MS / MSD NA / NA h: B411364 (Water)	:23 By: MH <u>Dup</u> 19.7 °C	0.00% RPD	

Wynne, AR 72396

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 13-Nov-24 17:33



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

*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.

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	WATION						Project Des	cription	Turnaround Time					Pres	ervatio	n Codes	s:		
Wynne Water U	tilities						Lagoon Dischar	ge Sample	1 Day (100%)	1. Cool	, 6 Degr	ees Cent	igrade			4. Thios	sulfate fo	or Dechl	orination
121 East Merrin	nan						Weekly Sa	ample	2 Day (50%)	2. Sulfu	ıric Acid	(H ₂ SO ₄)	, pH < 2			5. Hydrochloric Acid(HCl)			
Wynne, AR 723	96						Reporting Inf	ormation	3 Day (25%)	3. Nitri	c Acid (HNO₃), I	pH < 2 6. Sodium Hydroxide (NaOH), pl			aOH), pH > 12			
							Telephone: 870-238-2751 5 Day (Routine)			TEST PARAMETERS Bottle						Bottle Type Code			
Attn: Josh Wea	ver						Fax: 870-23	8-2044	Preservative Code	1	1	1,2	1,4						G = Glass; P = Plastic
						Email: jweaver.wwu@gmail.com Bottle Type:			Р	Р	Р	Р						V = Septum; A = Amber	
Sampler(s) Signature Sampler(s) Prin			اده (Print (ted: MAHSI HASSADI					TSS	а	Fecal Coliform						Arkansas Analytical Work Order Number:		
Field	SAMPLE C	OLLECTION			Number		SAMPLE			Field (pH, D.O Temperature)	. '0	Ammonia	a C						MUINDO
Number	Date/s	Time/s	Grab	Comp	of	Sample Matrix	IDENTIF	ICATION/ DESC	CRIPTION	Field	CBOD,	Amr	Fec					C	411200
	11/13	WAM	Х	Ì	3	Water	Lagoon Dischar	rge Grab (Wynn	e)		Х	Х	Х					_	01
	111224	1251	Х		0				is (AR Analytical	X									02
	11/13/29	1201				VVator	Lagoon Bloona	igo i lola / lilalyo	io (7 ii 77 ii ai yii oai						9				02
										1									
				-			ONIGITE MEAG	UDEMENTO				1110	2 / 1						
				-			ONSITE MEAS		Arkansas Analy			//							
			-	-	-			Sample	Duplicate	1	C	QC Du	-						11 10
			-				pH (S.U.)	776	271	20		20		Field (Calibrat	tion Red	cord	DATE:	MBRY
			101				Time	1251	1256	912	,	214		pH /	Time	D.0	Э. _		Chlorine
							Temperature (°C)	\$1.0	20.9	170	6	17.6		4		Tin	nje	QC	Time
		-					Time	251	1256	912		914	,	7	1	/		1	
							Dissolved Oxygen (mg/L)	719	263					10	9	\$lo	ре	2	
							Time	1251	125%					91	0	/			
1. Relinguished by	: (Signature)	Date/Time		2. Red	ceived	by: (Sid	gnature)	SAMPLE C	ONDITION UPON	RECEIP	Γ IN LAE	3		RE	MARK	S/SAN	MPLE (COMM	ENTS
1		11/13			1 -			1. CUSTODY SE		Ye									
///	II.	11/6		1.1	13	03													
// m				1	1/	13/2	y	2. CONTAINERS		Ye		No							
/ /						2		3. COC/LABELS	AGREE:	Ye	s	No							
Relinquished by	: (Signature)	Date/Time	=	4. Red			and the second s	4. RECEIVED ON	ICE:	Ye	s	No							
		1733				Nata	sha	5. TEMPERATUR	RE ON RECEIPT:	V °C	5								
(11,13,24			6	House	and	6. TEMPERATUR	RE GUN ID:	HHT#	<i>></i>								
Revision 3		/ /					NVVL	FOR	COMPLETION BY	LAB ON	LY								
1/4/16																			



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

27 November 2024

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

Project: Lagoon Discharge Sample Project Number: November 2024

SDG Number: 2411458

Enclosed are the results of analyses for samples received by the laboratory on 20-Nov-24 14:58. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	•
Containers Correct	~
COC/Labels Agree	<u> </u>
Received On Ice	~
Temperature on Receipt	2.0°C

Sincerely,

Norma James

Technical Director

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Project Number: November 2024





Lab Number: 2411458-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/20/24 10:00

Water Sample Matrix:

Wet Chemistry	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Ammonia as N	mg/L	7.46		11/22/24 8:29	B411475	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/20/24 15:30	B411441	IDEXX Colilert-18
TSS	mg/L	25.0		11/21/24 16:40	B411413	SM 2540 D-2015
CBOD	mg/L	5.46		11/22/24 8:57	B411482	SM 5210B-2016

ANALYTICAL RESULTS

2411458-02 Lab Number:

Lagoon Discharge Field Analysis (AR Analytical) Sample Name:

Date/Time Collected: 11/20/24 12:00

Water Sample Matrix:

Field Analyses	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	10.2		11/20/24 12:00	B411510	SM 4500-O G-2011
рН	S.U.	7.73		11/20/24 12:00	B411508	SM 4500-H+ B-2011
Temperature	°C	16.3		11/20/24 12:00	B411509	SM 2550B-2000

Arkansas Analytical Inc.

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

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 20-Nov-24 14:58

QUALITY CONTROL RESULTS

QUALITY CONTROL RES	BULTS					
		Wet Chemistry Batc				
	Prepared: 21	-Nov-24 16:40 By: MH	Analyzed: 21-Nov-24 16	:40 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
TSS	<1.00 mg/L	91.0% / 87.0%	NA / NA		4.49%	
	Duran and de Of	Wet Chemistry Batc		-00 D K I		
)-Nov-24 15:30 By: KJ		-		- un
<u>Analyte</u>	<u>BLK</u> <1 MPN/100 mL	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	< 1 MIFN/100 IIIL	NA / NA	NA / NA	220 MPN/100 mL	25.7%	
		Wet Chemistry Bato	•			
	Prepared: 22	2-Nov-24 08:29 By: KJ	Analyzed: 22-Nov-24 08	:29 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	98.1% / NA	103% / 107%		2.67%	
	Propared: 22	Wet Chemistry Batc -Nov-24 08:57 By: MB		·57 Rv: MR		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	116% / 122%	NA / NA		4.69%	<u>quamioro</u>
0000	-2.00 mg/L	11070 7 12270	, , ,		1.00 70	
	Prenared: 20	Field Analyses Batc -Nov-24 08:17 By: MH	• •	·17 Bv· MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA NA	100% / 100%	NA / NA	<u> </u>	0.00%	<u>quamioro</u>
	Prepared: 20	Field Analyses Batc -Nov-24 13:49 By: MH	, ,	:49 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	18.5 °C	0.539%	
	Prepared: 20	Field Analyses Batc -Nov-24 13:49 By: MH	` '	:49 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.80 mg/L	0.772%	

Arkansas Analytical Inc.

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

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 20-Nov-24 14:58

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.

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 Ut	tilities					Lagoon Discharge Sample			1 Day (100%)	1. Cool	1. Cool, 6 Degrees Centigrade					4. Thiosulfate for Dechlorination				
121 East Merrim	an						Weekly Sa	ımple	2 Day (50%)	2. Sulfu	2. Sulfuric Acid (H ₂ SO ₄), pH < 2				5. Hydrochloric Acid(HCl)					
Wynne, AR 7239	06					Reporting Information			3 Day (25%)	3. Nitri	c Acid (HNO₃), p	H < 2	H < 2 6. Sodium Hydroxide (NaOH), pF					aOH), pH > 12	
							Telephone: 870	-238-2751	5 Day (Routine)	>		TES	T P	ARA	MET	ERS			Bottle Type Code	
Attn: Josh Weaver							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				osk	Wear MAN	- AD1		Field (pH, D.O., Temperature)	CBOD, TSS	nia	Coliform						Arkansas Analytical Work Order Number:			
Field	SAMPLE CO	OLLECTION			Number of	Sample		SAMPLE		d) ple	3OD,	Ammonia	Fecal (2.000	
Number	Date/s	Time/s	Grab	Comp			IDENTIF	ICATION/ DESC	CRIPTION	Fie		An	Fe						2411458	
	11/20	loAm	Х		3	Water	Lagoon Dischar	ge Grab (Wynne	e)		Х	Х	Χ						01	
	11/2024	1200	Х		0	Water	Lagoon Dischar	ge Field Analysi	s (AR Analytical)	X									02	
	, ,	<i>1</i>	35																	
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	tical [DATE:	11/20	24			190				
								Sample	Duplicate	T	C	QC Du	plicate							
							pH (S.U.)	- 2	750	261	201 201							DATE	1/2024	
							Time		1205 812 819									Chlorine		
/							Temperature (°C)	16.3	14.2	17	1	16:1		4 /		Tir	n∉	QC	Time	
							Time	1600	1205	81	5	815	?	7	1			1		
							Dissolved Oxygen (mg/L)	1024	1030	01	-	01		10	/	de	ре	2		
							Time		1205					81	И	7	ре			
1. Relinquished by:	· (Signature)	Date/Time		2 Rec	eived	hv: (Si	gnature)			ONDITION UPON RECEIPT IN LAB					/	S/SA	MPLE	COMM	IENTS	
1. Keilingdoned by.	. (Olghature)	11/20/24		2. 100	orvea	by. (O	gnaturoj			1										
11/20/29				121	0	1. CUSTODY SEA		Ye	s	NO										
				11/2	0/24	2. CONTAINERS	CORRECT:	Ye		No										
· III			1		3. COC/LABELS A	AGREE:	Ye	s	No											
3. Relinquished by: (Signature) Date/Time 4. Received			eived	by lab:	(Signature)	4. RECEIVED ON	ICE:	Ye	s	No										
		Val			J	am	11	5. TEMPERATUR	E ON RECEIPT:	2.0	<u>_</u>									
		1458				els		6. TEMPERATUR	E GUN ID:	HHT#	5		(4)							
Revision 3		11-20,24	P		110	C12		FOR	FOR COMPLETION BY LAB ONLY											



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

03 December 2024

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

Project: Lagoon Discharge Sample Project Number: November 2024

SDG Number: 2411599

Enclosed are the results of analyses for samples received by the laboratory on 26-Nov-24 14:56. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals							
Containers Correct	<i>~</i>						
COC/Labels Agree	<i>~</i>						
Received On Ice	~						
Temperature on Receipt	3.0°C						

Sincerely,

Norma James

Technical Director

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Wynne, AR 72396

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 26-Nov-24 14:56



Sample Delivery Group - 2411599

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

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 26-Nov-24 14:56



ANALYTICAL RESULTS

Lab Number: 2411599-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/26/24 10:00

Sample Matrix: Water

Wet Chemistry	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	7.33		11/27/24 8:14	B411582	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/26/24 15:07	B411614	IDEXX Colilert-18
TSS	mg/L	47.5		11/27/24 14:40	B411573	SM 2540 D-2015
CBOD	ma/L	15.6		11/27/24 6:05	B411578	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2411599-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 11/26/24 11:37

Sample Matrix: Water

Field Analyses	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	10.2		11/26/24 11:37	B411626	SM 4500-O G-2011
рН	S.U.	7.62		11/26/24 11:37	B411624	SM 4500-H+ B-2011
Temperature	°C	14.4		11/26/24 11:37	B411625	SM 2550B-2000

Arkansas Analytical Inc.

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

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 26-Nov-24 14:56

QUALITY CONTROL RESULTS

		Wet Chemistry Bate	ch: B411573 (Water)			
	Prepared: 27	-Nov-24 14:40 By: MH	Analyzed: 27-Nov-24 14	:40 By: BH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
TSS	<1.00 mg/L	100% / 104%	NA / NA		3.92%	
	Duamana di 07 h	Wet Chemistry Bate		-05 D 005		
Analida	BLK	-	Analyzed: 27-Nov-24 06 MS / MSD	Dup	RPD	Qualifiers
Analyte CBOD	<2.00 mg/L	<u>LCS / LCSD</u> 122% / 117%	NA / NA	<u> </u>	3.69%	Quaimers
	Prenared: 27	Wet Chemistry Bate	ch: B411582 (Water) Analyzed: 27-Nov-24 08	:14 Rv: K.I		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	93.2% / NA	92.3% / 94.0%		1.77%	
	Prenared: 26	Wet Chemistry Bate	ch: B411614 (Water) Analyzed: 26-Nov-24 15	:07 Bv: K.I		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	TNTC MPN/100 mL	13.1%	FC, TNTC
	Prepared: 26	Field Analyses Bate	ch: B411624 (Water) Analyzed: 26-Nov-24 08	·30 Rv· MH		
Analyte_	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA NA	99.9% / 100%	NA / NA	<u> </u>	0.143%	<u>quamioro</u>
	Prepared: 26	Field Analyses Bate	ch: B411625 (Water) Analyzed: 26-Nov-24 09	·22 Rv: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	18.9 °C	0.531%	
	Prepared: 26	Field Analyses Bato -Nov-24 09:22 By: MH	ch: B411626 (Water) Analyzed: 26-Nov-24 09	:22 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.53 mg/L	0.533%	

Wynne, AR 72396

Project: Lagoon Discharge Sample Project Number: November 2024 Date Received: 26-Nov-24 14:56



*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.

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	1. Cool, 6 Degrees Centigrade					4. Thiosulfate for Dechlorination					
121 East Merrim	nan						Weekly S	ample	2 Day (50%)	2. Sulfi	2. Sulfuric Acid (H₂SO₄), pH < 2					5. Hydrochloric Acid(HCl)			
Wynne, AR 7239	96					Reporting Information 3 Day (25			3 Day (25%)	3. Nitri	c Acid (I	HNO₃), p	H < 2			6. Sodiu	m Hydr	oxide (N	laOH), pH > 12
						Telephone: 870)-238-2751 (5 Day (Routine)	5		TES	T P	ARA	MET				Bottle Type Code	
Attn: Josh Weaver						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	: P	Р	Р	Р						V = Septum; A = Ambe
Sampler(s) Signature Sampler(s) Printe				5h (Negver AHDIGADA	ų).		Field (pH, D.O., Temperature)	SS	a	Fecal Coliform						Arkansas Analytical Worl Order Number		
Field	SAMPLE C	OLLECTION			Number			SAMPLE		d (ph	L, Q0	inor	20						
Number .	Date/s	Time/s	Grab	Comp	of	Sample Matrix	IDENTIF	ICATION/ DESC	CRIPTION	Fielo	CBOD, TSS	Ammonia	Leca						2411599
	11/2/2	pAn	Х		3	Water	Lagoon Discha	rge Grab (Wynne	۵)		Х	X	X						01
	11/2624	1137	Х		0			rge Field Analysi		X									
	11/16/11	1.27				VVator	Lagoon Discha	ige i leid Allalysi	3 (AIX Allalyllcal	1									02
	,																		
							ONSITE MEAS	UREMENTS by			7								
								Sample	Duplicate	100	С	QC Du							
						pH (S.U.) 762 765			677	700				Calibrat	ation Record DATE: 1/24, 24				
				<u> </u>			Time	1137	1140	828		830		pH / ¯	Time	D.C	J		Chlorine
							Temperature (°C)	[44	145	18-1		18.6		4		Tim	ne	QC	Time
							Time	1127	1146	805	9	830		7				1	
							Dissolved Oxygen (mg/L)	1019	1024	0- /				10	/	Slop	pe	2	
X		2/					Time	1137	1140					82	۲				
1. Relinquished by:	: (Signature)	Date/Time		2. Rec	eived l	by: (Sig	gnature)	SAMPLE C	ONDITION UPON F	RECEIPT	IN LAB			RE	MARK	S/SAN	/IPLE (COMM	ENTS
// 1		11/26				114	9	1. CUSTODY SEA	M.S [.]	V Yes	s1	No.							
I form		()	1/26	24			1		1										
1/ In					2. CONTAINERS			^											
					3. COC/LABELS A	AGREE:	Yes		10										
3. Relinquished by: (Signature) Date/Time 4. Received by			y Jab:	(Signature)	4. RECEIVED ON	ICE:	Yes		10										
		1451				9/		5. TEMPERATUR		3 ℃,	-								
1		1456			4	Stou	vard.	6. TEMPERATUR	E GUN ID:	HHT#)								
Revision 3 1/4/16		11/2029						FOR (COMPLETION BY L										