

15 August 2023

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

Project: Lagoon Discharge Sample

Project Number: August 2023

SDG Number: 2308192

Enclosed are the results of analyses for samples received by the laboratory on 09-Aug-23 15:12. If you have any questions concerning this report, please feel free to contact me.

### Sample Receipt Information:

Custody Seals	•
Containers Correct	~
COC/Labels Agree	<b>~</b>
Received On Ice	~
Temperature on Receipt	1.0°C

Sincerely,

Norma James

**Technical Director** 

Project: Lagoon Discharge Sample Project Number: August 2023 Date Received: 09-Aug-23 15:12



### **ANALYTICAL RESULTS**

Lab Number: 2308192-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 8/9/23 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	3.13		8/11/23 8:05	B308224	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	20		8/9/23 15:20	B308215	IDEXX Colilert-18
TSS	mg/L	60.0		8/14/23 9:05	B308213	SM 2540 D-2015
CBOD	mg/L	13.4		8/10/23 7:08	B308201	SM 5210B-2016

### **ANALYTICAL RESULTS**

Lab Number: 2308192-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 8/9/23 11:30 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	4.85		8/9/23 11:34	B308259	SM 4500-O G-2011
рН	S.U.	7.97		8/9/23 11:30	B308257	SM 4500-H+ B-2011
Temperature	°C	27.2		8/9/23 11:30	B308258	SM 2550B-2000

Project: Lagoon Discharge Sample Project Number: August 2023

Project Number: August 2023
Date Received: 09-Aug-23 15:12



QUALITY CONTROL RES	0_10	Wet Ober 1.4	-L- D000004 (M. ( . )			
	Droparad: 10	Wet Chemistry Bato	ch: B308201 (Water) Analyzed: 10-Aug-23 07:	·08 By: MP		
				<del>-</del>		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	95.0% / 97.4%	NA / NA		2.45%	
	Dramanadi 4.4	Wet Chemistry Bato		.05 D MU		
A. al. 4.			Analyzed: 14-Aug-23 09	Dup	BDD	Ovalifiana
Analyte	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Бир</u>	<u>RPD</u>	<u>Qualifiers</u>
TSS	<1.00 mg/L	92.0% / 91.0%	NA / NA		1.09%	
	Propared: 09	Wet Chemistry Bato	ch: B308215 (Water) Analyzed: 09-Aug-23 15	:20 By: K I		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100	NA	<u>quamioro</u>
T coal comornis		10.4 / 10.4	, , ,	mL	14/1	
		Wet Chemistry Bato	ch: B308224 (Water)			
	Prepared: 11	-Aug-23 08:05 By: KJ	Analyzed: 11-Aug-23 08:	:05 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<b>Qualifiers</b>
Ammonia as N	<0.500 mg/L	87.4% / NA	93.1% / 86.6%		6.85%	
		Field Analyses Bato	• •			
	Prepared: 09	-Aug-23 09:12 By: MH	Analyzed: 09-Aug-23 09	:12 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<b>Qualifiers</b>
pH (Field)	NA	100% / 100%	NA / NA		0.285%	
		Field Analyses Bato	ch: B308258 (Water)			
	Prepared: 09	-Aug-23 13:32 By: MH	Analyzed: 09-Aug-23 13	:32 By: MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<b>Qualifiers</b>
Temperature (Field)	NA	NA / NA	NA / NA	27.5 °C	0.00%	
		Field Analyses Bato	• •			
	Prepared: 09	-Aug-23 13:36 By: MH	Analyzed: 09-Aug-23 13	:36 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.63 mg/L	0.151%	

Arkansas Analytical Inc.

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

Project: Lagoon Discharge Sample Project Number: August 2023 Date Received: 09-Aug-23 15:12

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

Revision 3 91145	STATES OF THE SAMES	The Colored	3. Relinquished by: (Signature) Date/Time 4. Received by lab: (Signature)		and a series	See	Mar 8/9 1120	1. Relinguished by: (Signature) Date/Time 2. Received by: (Signature)											8/5/23 //30 x 0 wate	8/9 6 Am X 3 Wate	Number Date/s Time/s Grab Comp Bottles Matrix	e	Sampler(s) Signature Sampler(s) Printed:	Josh Vo		Attn: Josh Weaver		Wynne, AR 72396	121 East Merriman	Wynne Water Utilities	CLIENT INFORMATION
FOR	6. TEMPERATURE GUN ID:	5	: (Signature) 4. RECEIVED ON ICE:			2. CONTAINERS CORRECT:	1. CUSTODY SEALS:			120	1	Time //30	Temperature (°C) 273	Time //30	pH (S.U.) 797	Sample	ONSITE MEASUREMENTS by		Water Lagoon Discharge Field Analysis (AR Analytica	Water Lagoon Discharge Grab (Wynne	IDENTIFICATION/ DESCRIPTION	SAMPLE	DONAL HADDAN	Weaver	Email: jweaver.wwu@gmail.com	Fax: 870-238-2044	Telephone: 870-238-2751	Reporting Information	Weekly Sample	Lagoon Discharge Sample	Project Description
FOR COMPLETION BY LA		TEMPERATURE ON RECEIPT:	IICE:		AGREE:	CORRECT:	ALS:	SAMPLE CONDITION UPON RE	1130	100	181	1127	27.2	1211	797	Duplicate	by Arkansas Analytic		s (AR Analytical)	3		11.4			Bottle Type:	Preservative Code:	5 Day (Routine)	3 Day (25%) 3.	2 Day (50%) 2.	1 Day (100%) 1.	Turnaround Time
LAB ONLY	<b>ННТ#</b> 5	റ്	Yes	1	Yes	Yes	Yes	RECEIPT IN LAB						910	90	QC	tical DATE:		×	_	Те	eld (p mpei	atu	re)	P			Nitric Ac	2. Sulfuric Acid (H2SO4), pH < 2	Cool, 6 D	
			N <sub>O</sub>		N <sub>o</sub>	N <sub>O</sub>	No O	LAB	ŀ					20	2	QCI	E. S.C.			×		mor		S	P	1,2	TES	Nitric Acid (HNO <sub>3</sub> ), pH < 2	Acid (H <sub>2</sub> SC	Cool, 6 Degrees Centigrade	
			T				Τ							19	202	QC Duplicate	B			×		cal C		orm	P	1,4	STP	, pH < 2	) <sub>4</sub> ), pH < 2	ntigrade	
								REMARK	100	R	10 (	7	4	pH / Time	Field Calibrat												ARAMETE				Preservation Codes:
								REMARKS / SAMPLE COMMENTS	(00)	100	Slope 2	925	Time QC	D.O.	Field Calibration Record DAT												ERS	6. Sodium Hydroxide (NaOH), pH > 12	5. Hydrochloric Acid(HCl)	4. Thiosulfate for Dechlorination	1 Codes:
								MENTS					Time	Chlorine	DATE:87/23				02	01	78/8/27		Older Number.	Arkansas Analytical Work	V = Septum; A = Amber	G = Glass; P = Plastic	Bottle Type Code	(NaOH), pH > 12	(HCI)	chlorination	



23 August 2023

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

Project: Lagoon Discharge Sample

Project Number: August 2023

SDG Number: 2308362

Enclosed are the results of analyses for samples received by the laboratory on 16-Aug-23 15:25. If you have any questions concerning this report, please feel free to contact me.

### Sample Receipt Information:

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

Sincerely,

Norma James

**Technical Director** 

**Project: Lagoon Discharge Sample Project Number: August 2023** Date Received: 16-Aug-23 15:25



### **ANALYTICAL RESULTS**

Lab Number: 2308362-01

Sample Name: Lagoon Discharge Grab (Wynne)

**Date/Time Collected:** 8/16/23 10:00 Water Sample Matrix:

Wet Chemistry	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	6.33		8/18/23 10:20	B308404	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	100		8/16/23 15:30	B308373	IDEXX Colilert-18
TSS	mg/L	51.5		8/17/23 16:20	B308312	SM 2540 D-2015
CBOD	mg/L	13.2		8/17/23 7:58	B308349	SM 5210B-2016

**ANALYTICAL RESULTS** 

2308362-02 Lab Number:

Lagoon Discharge Field Analysis (AR Analytical) Sample Name:

Date/Time Collected: 8/16/23 12:10 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	16.2		8/16/23 12:15	B308423	SM 4500-O G-2011
рН	S.U.	8.98		8/16/23 12:10	B308418	SM 4500-H+ B-2011
Temperature	°C	28.6		8/16/23 12:10	B308420	SM 2550B-2000

Project: Lagoon Discharge Sample Project Number: August 2023 Date Received: 16-Aug-23 15:25

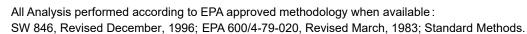
Date Received: 16-Aug-23 15:25
QUALITY CONTROL RESULTS



		Wet Chemistry Bato				
	Prepared: 17	Aug-23 16:40 By: MH	Analyzed: 17-Aug-23 16	:40 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifier
TSS	<1.00 mg/L	92.0% / 97.0%	NA / NA		5.29%	
		Wet Chemistry Batc				
	Prepared: 17	-Aug-23 07:58 By: NL	Analyzed: 17-Aug-23 07	:58 By: NL		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	109% / 110%	NA / NA		0.808%	
	Prepared: 16	Wet Chemistry Bato -Aug-23 15:30 By: KJ	h: B308373 (Water) Analyzed: 16-Aug-23 15	:30 By: KJ		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100 mL	NA	
			Analyzed: 18-Aug-23 10	<del>-</del>		
Analyte	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Ammonia as N	<0.500 mg/L	80.4% / NA	87.4% / 81.0%		7.60%	
	<b>D</b> 1.40	Field Analyses Bato				
		Aug-23 08:52 By: MH	Analyzed: 16-Aug-23 08			
	BLK	Aug-23 08:52 By: MH LCS / LCSD	Analyzed: 16-Aug-23 08 MS / MSD	:52 By: MH <u>Dup</u>	RPD	Qualifiers
Analyte pH (Field)		Aug-23 08:52 By: MH	Analyzed: 16-Aug-23 08		RPD 0.141%	Qualifiers
	BLK NA	Aug-23 08:52 By: MH LCS / LCSD 101% / 101%  Field Analyses Bato	Malyzed: 16-Aug-23 08  MS / MSD  NA / NA  h: B308420 (Water)	<u>Dup</u>		Qualifiers
pH (Field)	BLK NA Prepared: 16	LCS / LCSD 101% / 101% Field Analyses Bate Aug-23 14:13 By: MH	Ms / MSD NA / NA h: B308420 (Water) Analyzed: 16-Aug-23 14	<u>Dup</u> :13 By: MH	0.141%	
pH (Field)  Analyte	BLK NA Prepared: 16	LCS / LCSD 101% / 101% Field Analyses Batc Aug-23 14:13 By: MH	MS / MSD  NA / NA  h: B308420 (Water)  Analyzed: 16-Aug-23 14  MS / MSD	<u>Dup</u> :13 By: MH <u>Dup</u>	0.141% RPD	Qualifiers
рН (Field)	BLK NA Prepared: 16	LCS / LCSD 101% / 101% Field Analyses Bate Aug-23 14:13 By: MH	Ms / MSD NA / NA h: B308420 (Water) Analyzed: 16-Aug-23 14	<u>Dup</u> :13 By: MH	0.141%	
Analyte	BLK NA  Prepared: 16  BLK  NA	Aug-23 08:52 By: MH  LCS / LCSD  101% / 101%  Field Analyses Batc Aug-23 14:13 By: MH  LCS / LCSD  NA / NA  Field Analyses Batc	MS / MSD  NA / NA  h: B308420 (Water)  Analyzed: 16-Aug-23 14  MS / MSD  NA / NA  h: B308423 (Water)	<u>Dup</u> :13 By: MH <u>Dup</u> 28.5 °C	0.141% RPD	
pH (Field)  Analyte	BLK NA  Prepared: 16  BLK  NA	Aug-23 08:52 By: MH  LCS / LCSD  101% / 101%  Field Analyses Batc Aug-23 14:13 By: MH  LCS / LCSD  NA / NA  Field Analyses Batc	MS / MSD  NA / NA  h: B308420 (Water)  Analyzed: 16-Aug-23 14  MS / MSD  NA / NA	<u>Dup</u> :13 By: MH <u>Dup</u> 28.5 °C	0.141% RPD	

**Project: Lagoon Discharge Sample Project Number: August 2023** 

Date Received: 16-Aug-23 15:25



Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James **Technical Director**  Arkansas Analytical



8100 National Dr. Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

MOLTANICOTINI TINI	INCIPAL.																
CLIEN INFORM	MATION						Project Description	cription	Turnaround Time					Preservation Codes:	on Codes:		
Wynne Water Utilities	tilities						Lagoon Discharge Sample	rge Sample	1 Day (100%)	1. Cool,	Cool, 6 Degrees Centigrade	s Centig	ade.		4. Thiosu	4. Thiosulfate for Dechlorination	lorination
121 East Merriman	an						Weekly Sample	ample	2 Day (50%)	2. Sulfu	Sulfuric Acid (H,SO4), pH < 2	H,SO4),	)H < 2		5. Hydro	5. Hydrochloric Acid(HCI)	ICI)
Wynne, AR 72396	9(						Reporting Information	ormation	3 Day (25%)	3. Nitric	Nitric Acid (HNO3), pH	NO <sub>3</sub> ), pH	< 2		6. Sodium	Hydroxide (	6. Sodium Hydroxide (NaOH), pH > 12
							Telephone: 870-238-2751	)-238-2751	5 Day (Routine)			TEST	P A	ARAME	TERS		Bottle Type Code
Attn: Josh Weaver	rer						Fax: 870-238-2044	18-2044	Preservative Code:	-	-	1,2	1,4				G = Glass; P = Plastic
						Ш	Email: jweaver.ww	jweaver.wwu@gmail.com	Bottle Type:	Ь	Ъ	Ь	Ь				V = Septum; A = Amber
Samplér(s) Signature	ature		Sam	pler(s)	Just Sampler(s) Printed:	(	Weer Under	1000		, D.O., ture)	SS		mroìi				Arkansas Analytical Work Order Number:
Field Number	SAMPLE C Date/s	SAMPLE COLLECTION Date/s Time/s	Grab	Comp	Number of Bottles	Sample Matrix		SAMPLE IDENTIFICATION/ DESCRIPTION	RIPTION	Field (pH Tempera	CBOD, T	sinommA	Pecal Co				2308362
	8/16	1041	×		3	Water	Lagoon Discha	Water Lagoon Discharge Grab (Wynne)			×	×	×			_	01
	8/623	1210	×		0	Water	Lagoon Discha	Water Lagoon Discharge Field Analysis (AR Analytical)	(AR Analytical)	×							02
							ONSITE MEAS	ONSITE MEASUREMENTS by Arkansas Analytical DATE:	vrkansas Analyt	ical D	ATE:	1602					
								Sample	Duplicate	gc		QC Duplicate	cate				
							pH (S.U.)	868	85.6	708	6	592	ΙĪ	Field Calibration Record	tion Reco	rd DATE:	
						Ì	Time	1210	1213				Hd	/ Time	D.O.		Chlorine
							Temperature (°C)	28.6	28.6				4		Time	000	Time
							Time	(210	1243				7				
							Ulssolved Oxygen (mg/L)	16	1624				10		Slope	2	
							Time	(215	(21)								
1. Relinquished by: (Signature)	(Signature)	Date/Time		2. Rec	eived b	y: (Sig	2. Received by: (Signature)	SAMPLE CO	SAMPLE CONDITION UPON RECEIPT IN LAB	ECEIPT	IN LAB			REMARK	(S / SAMI	REMARKS / SAMPLE COMMENTS	IENTS
1 solu		8/11			14	3		1. CUSTODY SEALS:	.S.	Yes	No						
					d	=	2	2. CONTAINERS CORRECT:	ORRECT.	Yes	N						
2				V	20			3. COC/LABELS AGREE:	3REE:	Yes	S.						
3. Relinquished by: (Signature)	(Signature)	Date/Time		4. Rec	eivedb	y-lab:	4. Received by lab: (Signature)	4. RECEIVED ON ICE:	CE:	Yes	S.						
		121		6		2	S,	5. TEMPERATURE ON RECEIPT:	ON RECEIPT:	<i>€</i> 0	1						
h				9	Long	The		6. TEMPERATURE GUN ID:		HHT#	)						
Revision 3		110/12						FOR CC	FOR COMPLETION BY LAB ONLY	AB ONL	>	ᅦ					



30 August 2023

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

Project: Lagoon Discharge Sample

Project Number: August 2023

SDG Number: 2308522

Enclosed are the results of analyses for samples received by the laboratory on 23-Aug-23 15:13. If you have any questions concerning this report, please feel free to contact me.

### Sample Receipt Information:

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

Sincerely,

Norma James

Technical Director

**Project: Lagoon Discharge Sample Project Number: August 2023** Date Received: 23-Aug-23 15:13



### **ANALYTICAL RESULTS**

2308522-01 Lab Number:

Sample Name: Lagoon Discharge Grab (Wynne)

**Date/Time Collected:** 8/23/23 10:00 Water Sample Matrix:

Wet Chemistry	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	1.61		8/25/23 8:20	B308545	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	88		8/23/23 15:30	B308532	IDEXX Colilert-18
TSS	mg/L	88.0		8/25/23 11:00	B308544	SM 2540 D-2015
CBOD	mg/L	< 2.00		8/25/23 7:51	B308540	SM 5210B-2016

### **ANALYTICAL RESULTS**

2308522-02 Lab Number:

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

**Date/Time Collected:** 8/23/23 11:50

Sample Matrix: Water

<u>Field Analyses</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	17.0		8/23/23 11:55	B308631	SM 4500-O G-2011
рН	S.U.	9.04		8/23/23 11:50	B308629	SM 4500-H+ B-2011
Temperature	°C	32.1		8/23/23 11:50	B308630	SM 2550B-2000

Project: Lagoon Discharge Sample
Project Number: August 2023

Date Received: 23-Aug-23 15:13



### **QUALITY CONTROL RESULTS** Wet Chemistry -- Batch: B308532 (Water) Prepared: 23-Aug-23 15:30 By: KJ -- Analyzed: 23-Aug-23 15:30 By: KJ **RPD** Qualifiers Analyte LCS / LCSD MS / MSD Dup <1 MPN/100 mL Fecal Coliforms NA NA NA NA NA ND MPN/100 mL Wet Chemistry -- Batch: B308540 (Water) Prepared: 25-Aug-23 07:51 By: kd -- Analyzed: 25-Aug-23 07:51 By: MB BLK LCS / LCSD MS / MSD **RPD** Qualifiers **Analyte** CBOD < 2.00 mg/L 107% / 116% NA NA 8.42% Wet Chemistry -- Batch: B308544 (Water) Prepared: 25-Aug-23 11:00 By: MH -- Analyzed: 25-Aug-23 11:00 By: MH BLK MS / MSD RPD LCS / LCSD Dup Qualifiers **Analyte** 3.24% TSS <1.00 mg/L 94.0% / 91.0% NA NA Wet Chemistry -- Batch: B308545 (Water) Prepared: 25-Aug-23 08:20 By: KJ -- Analyzed: 25-Aug-23 08:20 By: KJ Dup Qualifiers **BLK** MS / MSD RPD Analyte LCS / LCSD Ammonia as N <0.500 mg/L 91.7% / NA 93.3% 96.6% 3.16% 1 Field Analyses -- Batch: B308629 (Water) Prepared: 23-Aug-23 09:12 By: MH -- Analyzed: 23-Aug-23 09:12 By: MH BLK RPD Qualifiers MS / MSD **Analyte** LCS / LCSD pH (Field) NA 101% / 101% NA NA 0.142% Field Analyses -- Batch: B308630 (Water) Prepared: 23-Aug-23 13:53 By: MH -- Analyzed: 23-Aug-23 13:53 By: MH **Analyte BLK** LCS / LCSD MS / MSD <u>Dup</u> <u>RPD</u> Qualifiers Temperature (Field) NA NA / NA NA NA 31.0 °C 0.00% Field Analyses -- Batch: B308631 (Water) Prepared: 13-Aug-23 16:05 By: MH -- Analyzed: 13-Aug-23 16:05 By: MH **BLK** LCS / LCSD MS / MSD Dup <u>RPD</u> Qualifiers **Analyte** NA Dissolved Oxygen (Field) NA NA 6.05 mg/L NA NA 0.165%

Project: Lagoon Discharge Sample Project Number: August 2023 Date Received: 23-Aug-23 15:13



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



# CHAIN OF CUSTODY RECORD

8100 National Dr. Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

CLIENT INFORMATION	NC					Project Description	cription	Turnaround Time				Preservat	Preservation Codes:		
Wynne Water Utilities	s				ت	Lagoon Discharge Sample	ge Sample	1 Day (100%)	1. Cool,	1. Cool, 6 Degrees Centigrade	entigrade		4. Thiosul	4. Thiosulfate for Dechlorination	rination
121 East Merriman						Weekly Sample	ample	2 Day (50%)	2. Sulfur	ic Acid (H,	2. Sulfuric Acid (H2SO4), pH < 2	2	5. Hydroc	5. Hydrochloric Acid(HCl)	(1)
Wynne, AR 72396						Reporting Information	ormation	3 Day (25%)	3. Nitric	Nitric Acid (HNO <sub>3</sub> ), pH < 2	3), pH < 2		6. Sodium	Hydroxide (Na	6. Sodium Hydroxide (NaOH), pH > 12
						Telephone: 870-238-2751	-238-2751	5 Day (Routine)		T	TEST	PARAME	TERS		Bottle Type Code
Attn: Josh Weaver						Fax: 870-238-2044	8-2044	Preservative Code:	-	-	1,2 1,4				G = Glass; P = Plastic
					Em	Email: jweaver.ww	jweaver.wwu@gmail.com	Bottle Type:	۵	Д	ЬР				V = Septum; A = Amber
Josh W				9	معل لاهل	la v		-	··o		ш				Arkansas Analvtical Work
Sampler(s) Signature	2	4	Sampl	Sampler(s) Printed: mww	ted:	1011/101	1000;		H, D.	SSI					Order Number:
Field	SAMPLEC	SAMPLE COLLECTION		Number	Cample		SAMPLE		ald (ph	30D' .	inomr Sal Co				1200517
Number	Date/s	Time/s	Grab	Comp Bottles Matrix	Matrix	IDENTIF	IDENTIFICATION/ DESCRIPTION	RIPTION	9i∃ I∋T		пА				776026
	8/23	10 An	×	0	Water	agoon Discha	Water Lagoon Discharge Grab (Wynne)	(6)		×	×				10
8	8/23/23	1150	×	0	Water	agoon Discha	Water Lagoon Discharge Field Analysis (AR Analytical)	s (AR Analytical	×						02
			1	+	I										
						NSITE MEAS	ONSITE MEASUREMENTS by Arkansas Analytical DATE	Arkansas Analy	il tical D,	ATE:82	RING				
							Sample	Duplicate	ac	0	QC Duplicate				
						pH (S.U.)	406	905	756	6	S	Field Calibr	ation Reco	Field Calibration Record DATE:	8:131.12
						Time	1150	1154	9/6	0	6	pH / Time	D.O.		Chlorine
						Temperature (°C)	32.1	32	2			4	Time	OC	Time
						Time	1150	1153				7	910	~	
						Dissolved Oxygen (mg/L)	12.0	021				10	Slope	2	
						Time	1158	11811				dis	1001		
1. Relinguished by: (Signature)	inature)	Date/Time	SII	2. Received by: (Signature)	by: (Sign	nature)	SAMPLEC	SAMPLE CONDITION UPON RECEIPT IN LAB	RECEIPT	IN LAB		REMAR	KS / SAME	REMARKS / SAMPLE COMMENTS	ENTS
		8/23		2	2		1. CUSTODY SEALS:	YLS:	Yes	No					
( John Wear				8	3/8			CORRECT:	Yes						
					1		3. COC/LABELS AGREE:	NGREE:	Yes	2					
3. Relinquished by: (Signature)	(nature)	Date/Time	41	4. Received by lab: (Signature)	by lab: (	Signature)	4. RECEIVED ON ICE:	ICE:	Yes	8					×
		42		70			5. TEMPERATUR	TEMPERATURE ON RECEIPT:	ပံ	2					
Revision 3		8238		O TOUTONG	DEDACT.		6. TEMPERATURE GUN ID:	ATURE GUN ID: HHT#	HHT#						
114/16		0/00/0	1				FOR	COMPLETION BY	LAB ONL	_	1				



06 September 2023

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

Project: Lagoon Discharge Sample

Project Number: August 2023

SDG Number: 2308633

Enclosed are the results of analyses for samples received by the laboratory on 30-Aug-23 14:50. If you have any questions concerning this report, please feel free to contact me.

### Sample Receipt Information:

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

Sincerely,

Norma James

**Technical Director** 

Project: Lagoon Discharge Sample Project Number: August 2023 Date Received: 30-Aug-23 14:50



### **ANALYTICAL RESULTS**

Lab Number: 2308633-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 8/30/23 10:00 Sample Matrix: Water

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	7.44		9/1/23 14:22	B309007	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	160		8/30/23 14:50	B308691	IDEXX Colilert-18
TSS	mg/L	22.0		8/31/23 15:50	B308666	SM 2540 D-2015
CBOD	mg/L	15.8		9/1/23 8:10	B309002	SM 5210B-2016

### **ANALYTICAL RESULTS**

Lab Number: 2308633-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 8/30/23 11:25 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	19.6		8/30/23 11:30	B309033	SM 4500-O G-2011
рН	S.U.	8.62		8/30/23 11:25	B309031	SM 4500-H+ B-2011
Temperature	°C	28.3		8/30/23 11:25	B309032	SM 2550B-2000

Project: Lagoon Discharge Sample Project Number: August 2023 Date Received: 30-Aug-23 14:50

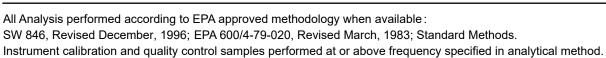




		Wet Chemistry Bato				
	Prepared: 31	-Aug-23 15:50 By: MH	Analyzed: 31-Aug-23 15	5:50 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
TSS	<1.00 mg/L	90.0% / 93.0%	NA / NA		3.28%	
		Wet Chemistry Bate	:h: B308691 (Water)			
	Prepared: 30	)-Aug-23 14:50 By: KJ	Analyzed: 30-Aug-23 14	l:50 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	140 MPN/100 mL	13.5%	
		Wet Chemistry Bato	:h: B309002 (Water)			
	Prepared: 01	-Sep-23 08:10 By: MB	Analyzed: 01-Sep-23 08	3:10 By: kd		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	119% / 115%	NA / NA		3.77%	
		Wet Chemistry Bato				
	<del>-</del>	Sep-23 08:44 By: CNW				
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Ammonia as N	<0.500 mg/L	102% / NA	109% / 108%		0.791%	
	Prepared: 30	Field Analyses Bato -Aug-23 09:02 By: MH		9:02 Bv: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA		0.00%	
		Field Asselves as Boto	L. D00000 (M-4-1)			
	Prepared: 30	Field Analyses Bato Aug-23 13:28 By: MH		3:28 By: MH		
<u>Analyte</u>	 BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	28.5 °C	0.00%	
		Field Analyses Bato	:h: B309033 (Water)			
	Prepared: 30	-Aug-23 13:32 By: MH	` '	3:32 By: MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers

**Project: Lagoon Discharge Sample Project Number: August 2023** 

Date Received: 30-Aug-23 14:50



Reviewed by:

Norma James **Technical Director**  Arkansas Analytical



8100 National Dr. Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

## CHAIN OF CUSTODY RECORD

Revision 3 FOR COMPLETION BY LAB ONLY	6. TEMPERATURE GUN ID: HHT# 5	5. TEMPERATURE ON RECEIPT: 3 °C	3. Relinquished by: (Signature) Date/Time 4. Received by lab: (Signature) 4. RECEIVED ON ICE:	3. COC/LABELS AGREE: Yes	7 2. CONTAINERS CORRECT: Yes -	8/30 1. CUSTODY SEALS: Yes -	1. Relingdished by: (Signature) Date/Time 2. Received by: (Signature) SAMPLE CONDITION UPON RECEIPT IN LAB	Time 1/30 1/32	Dissolved Oxygen (mg/L) 1965 1962	1125	2	Time 1/2; 1/28 900	pH (S.U.) 8(1) 863 703	Sample Duplicate QC	ONSITE MEASUREMENTS by Arkansas Analytical DATE:		83/92 1125 x 0 Water Lagoon Discharge Field Analysis (AR Analytical) X	8/3つ / クチハ X 3 Water Lagoon Discharge Grab (Wynne)	Sample IDENTIFICATION/ DESCRIPTION F P	SAMPLE eld (p	atur	).O. re)		Email: jweaver.wwu@gmail.com Bottle Type: P F	Attn: Josh Weaver Fax: 870-238-2044 Preservative Code: 1 1	Telephone: 870-238-2751	Wynne, AR 72396 Reporting Information 3 Day (25%) 3. Nitric Acid (HNO <sub>2</sub> ), pH < 2	121 East Merriman Weekly Sample 2 Day (50%) 2. Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ), pH < 2	Wynne Water Utilities Lagoon Discharge Sample 1 Day (100%) 1. Cool, 6 Degrees Centigrade	CLIENT INFORMATION Project Description Turnaround Time	
NA			(Signat		100		gnature)		Dissolv		Temper		ъ		ONSIT		Lagoon	Lagoon			alla	3	_	nail: jwe	Fax	Teleph	Repor	V	agoon	Proje	
			<u>ure)</u>	\				Time	/ed Oxyger (mg/L)	Time	ature (°C)	Time	н (S.U.)		E MEAS		Discha	Discha	DENTIF		HAMA	1000		aver.wwu	< 870-23	one: 870	ting Info	eekly Sa	Dischar	ect Desc	
					2. CONT	1. CUST	s			17.0				San	UREME		rge Field	rge Grab	CATION	SAM	J.	,		u@gmail.c	8-2044	-238-2751	ormation	ımple	ge Samp	cription	
FOR (	ERATUR	ERATUR	EIVED ON	LABELS A	(AINERS	ODY SEA	AMPLE CO	0	60		3		1	nple	NTS by /		Analysis	(Wynne	// DESC	PLE				öm					е	L	
COMPLETION BY	E GUN ID:	E ON RECEIPT:	ICE:	\GREE:	CORRECT:	rs:	ONDITION UPON	1132	19.62	1128	283	1/28	863		Arkansas Analy		(AR Analytica		RIPTION					Bottle Type	Preservative Code	5 Day (Routine)	3 Day (25%)	2 Day (50%)	1 Day (100%)	Turnaround Time	
LAB ON	ннт#	ر ر ر	1	+ Ye	+ Ye	Ye						500	2002	۵	tical [		×		Fie Te	eld (p mper	H, E atur	0.O. re)	1	Ť			3. Nitrio			T	
LY	ज्					No	T IN LAB					0		C	ATE:			×	CE	BOD,	TSS	3		٥			: Acid (HI	ric Acid (I	6 Degrees		
		_	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	`ĕ —	`8 <del></del>	·						206	763	QC Duplicate	202	-		×	An	nmor	nia			٦	1,2	EST	(O <sub>3</sub> ), pH -	H <sub>2</sub> SO <sub>4</sub> ), pl	Centigra		
								0X	10	7	4	먼	Fie	cate				×	Fe	cal C	olifo	orm		P	1,4	PAR	<2	1<2	de	P	,
							REMARI	5	C			/ Time	Field Calibration Record													ARAMETERS				Preservation Codes:	
							(S / SAI		Slope		Time	D.O.	tion Rec													ERS	6. Sodiun	5. Hydro	4. Thios	n Codes:	2
							MPLE CO		pe 2	اهدا	ne QC	Ö	ord D												-		n Hydroxi	5. Hydrochloric Acid(HCl)	ulfate for I		
							REMARKS / SAMPLE COMMENTS		200		C Time	Chlorine	DATE: 8/30/23				02	01	2508633	2	Order Number.	Analytical Work	Arkansas	V = Septum; A = Amber	G = Glass; P = Plastic	Bottle Type Code	6. Sodium Hydroxide (NaOH), pH > 12	id(HCl)	4. Thiosulfate for Dechlorination		