

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

13 March 2024

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

Project: Lagoon Discharge Sample

Project Number: March 2024

SDG Number: 2403093

Enclosed are the results of analyses for samples received by the laboratory on 06-Mar-24 15:10. If you have any questions concerning this report, please feel free to contact me.

## Sample Receipt Information:

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

Sincerely,

Norma James

**Technical Director** 

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Wynne, AR 72396 Project: Lagoon Discharge Sample

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Sample Delivery Group - 2403093

# 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 failied 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).



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### **ANALYTICAL RESULTS**

Lab Number: 2403093-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 3/6/24 10:00 Sample Matrix: Water

Wet Chemistry	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	9.52		3/7/24 12:51	B403125	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	21		3/6/24 15:40	B403142	IDEXX Colilert-18
TSS	mg/L	6.50		3/8/24 8:35	B403150	SM 2540 D-2015
CBOD	mg/L	3.12	B-01	3/7/24 6:56	B403118	SM 5210B-2016

**ANALYTICAL RESULTS** 

Lab Number: 2403093-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 3/6/24 11:20 Sample Matrix: Water

Field Analyses	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	3.74		3/6/24 11:20	B403269	SM 4500-O G-2011
рН	S.U.	7.30		3/6/24 11:20	B403266	SM 4500-H+ B-2011
Temperature	°C	17.6		3/6/24 11:20	B403268	SM 2550B-2000

Arkansas Analytical

Arkansas Analytical Inc.

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

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QUAL			

Prepared: 07	_	, ,	:56 By: KD		
				RPD	Qualifiers
<2.00 mg/L	115% / 110%	NA / NA	<del></del>	4.70%	
	Wet Chemistry Bate	ch: B403125 (Water)			
Prepared: 0	7-Mar-24 12:51 By: KJ	Analyzed: 07-Mar-24 12	:51 By: KJ		
<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
<0.500 mg/L	88.1% / NA	79.3% / 82.8%		3.78%	
	<del>-</del>				
Prepared: 0	6-Mar-24 15:40 By: KJ	Analyzed: 06-Mar-24 15	:40 By: KJ		
<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
<1 MPN/100 mL	NA / NA	NA / NA	7700 MPN/100 mL	71.3%	
Prepared: 08			:35 By: MH <u>Dup</u>	RPD	Qualifiers
<1.00 mg/L	90.0% / 88.0%	NA / NA		2.25%	
Prenared: 06.	•	• •	28 By: CNW		
	-	<del>-</del>	<del>_</del>	RPD	Qualifiers
NA	101% / 101%	NA / NA	_	0.424%	
	•	• •			
Prepared: 06-	-Mar-24 11:25 By: MH /	Analyzed: 06-Mar-24 11:	25 By: CNW		
<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
NA	NA / NA	NA / NA	17.6 °C	0.00%	
Dropovod: 00	Field Analyses Bate		DE DVI CANAI		
Prepared: 06-		ch: B403269 (Water) Analyzed: 06-Mar-24 11:: MS / MSD	25 By: CNW	RPD	Qualifiers
	Prepared: 06 BLK <0.500 mg/L  Prepared: 06 BLK <1.00 mg/L  Prepared: 06 BLK NA  Prepared: 06- BLK NA	Net Chemistry Bate	BLK	Prepared: 07-Mar-24 06:56 By: MB Analyzed: 07-Mar-24 06:56 By: KD	Prepared: 07-Mar-24 06:56 By: MB Analyzed: 07-Mar-24 06:56 By: KD

# QUALIFIER(S)

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

Arkansas Analytical Inc.

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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			3. Relinguished by: (Signature)		IN Van	Ten	1/6	1. Relinguished by: (Signature)										3		Number	Field	Sampler(s) Signature	Pod W		Attn: Josh Weaver		Wynne, AR 72396	121 East Merriman	Wynne Water Utilities	CLIENT INFORMATION
	U	2	gnature)					gnature)										6,24	Mla	Date/s	SAMPLE C	e /							Se	NOI
halet	The same	1510	Date/Time			,	3/6	Date/Time										1120	TOAL	Time/s	SAMPLE COLLECTION	0								
		9	4.					2.										×	×	Grab Cc		Sample								
		SYDNEY JAMES	Received by lab: (Signature)	7	13/6	Ci	1/2	Received by: (Signature)										0	ω	Comp Bottles	Number	Sampler(s) Printed:	Cos							
	•	Y J	oy lab: (S		13/6/24	1	3	oy: (Signa				l <sub>-1</sub>				0		Water La	Water La	Sample Matrix			Josh War	Ema					La	
					<u></u>			ature)	Time	Dissolved Oxygen (mg/L)	Time	Temperature (°C)	Time	pH (S.U.)		NSITE MEAS		agoon Dischar	agoon Dischar	IDENTIFI		Audilla	Jan	Email: jweaver.wwu@gmail.com	Fax: 870-238-2044	Telephone: 870-238-2751	Reporting Information	Weekly Sample	Lagoon Discharge Sample	<b>Project Description</b>
FOR	6. TEMPERATURE GUN ID:	5. TEMPERATUR	4. RECEIVED ON ICE:	3. COC/LABELS AGREE:			1. CUSTODY SEALS:	SAMPLE C	1120	374	7	17.6	1120	730	Sample	JREMENTS by		ge Field Analys	Water Lagoon Discharge Grab (Wynne	IDENTIFICATION/ DESCRIPTION	SAMPLE	ion Awi		@gmail.com	1-2044	238-2751	ormation	mple	ge Sample	ription
FOR COMPLETION BY	RE GUN ID:	TEMPERATURE ON RECEIPT:	IICE:	AGREE:	CORRECT:	) ] ] 1 1 )	ALS:	SAMPLE CONDITION UPON	1125	318	1125	17.6	1125	226	Duplicate	ONSITE MEASUREMENTS by Arkansas Analy		Water Lagoon Discharge Field Analysis (AR Analytica	е)	CRIPTION				Bottle Typ	Preservative Code:	5 Day (Routine)	3 Day (25%)	2 Day (50%)	1 Day (100%)	Turnaround Time
LAB ONLY	ннт# 5	റ്	Yes	Yes	Yes	<del></del>	Yes	RECEIPT IN LAB			Ses	18	Sa	201	QC	/tical		×			d (pl			P			3. Nitri	2. Sulfu	1. Cool,	0
7		)	s   No	s No	S   No		s    No	IN LAB			~	6	1	0 -		DATE:			×	СВ	OD,	TSS		٦			c Acid (HI	ıric Acid (	, 6 Degree	
		T	о Т	T			0				36	18:6	30%	269	QC Duplicate	6,24			×	Am	mon	ia		٥	1,2	TEST	3. Nitric Acid (HNO <sub>3</sub> ), pH < 2	Sulfuric Acid (H2SO4), pH < 2	Cool, 6 Degrees Centigrade	
								77	15	10	7	4	рH	Field	ate				×	Fed	al C	olifo	m	٦	1,4	PARA	< 2	1<2	de	Pr
								EMARK	21				/ Time	Calibra						_						AMET				Preservation Codes:
								S/SAMPLE		Slope		Time	D.O.	Field Calibration Record												ERS	6. Sodium Hyd	5. Hydrochloric Acid(HCI)	4. Thiosulfate	n Codes:
								REMARKS / SAMPLE COMMENTS		2		QC Time	Chlorine	DATES 624				02	01	24030gg	043	Order Number:	Arkansas Analytical Work	V = Septum; A = Amber	G = Glass; P = Plastic	Bottle Type Code	6. Sodium Hydroxide (NaOH), pH > 12	ic Acid(HCl)	4. Thiosulfate for Dechlorination	